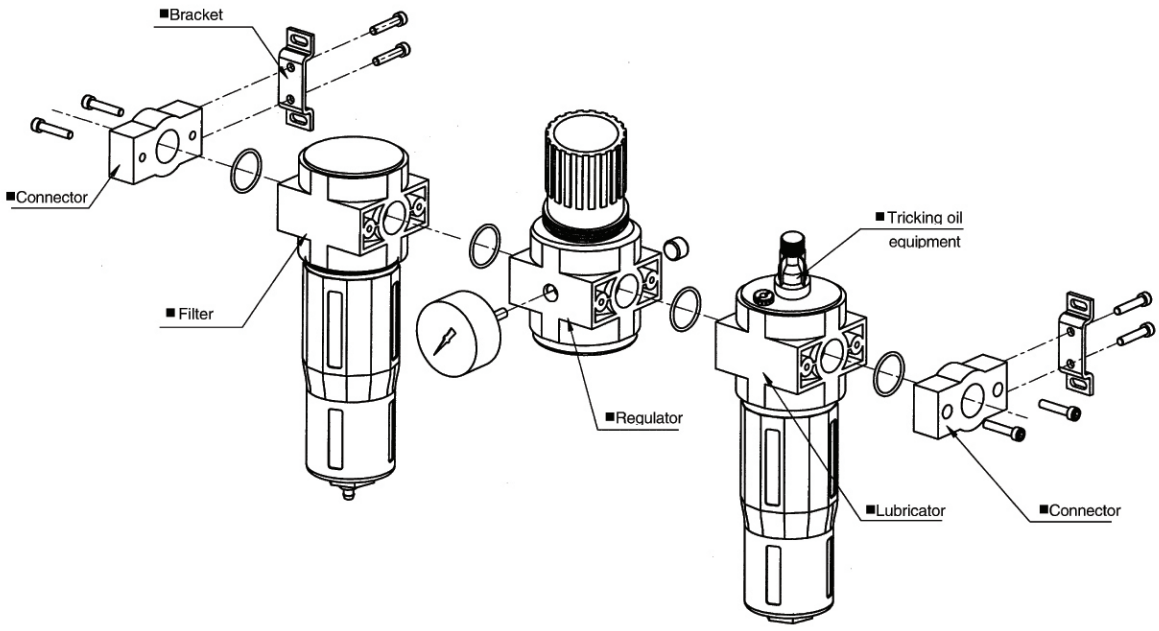
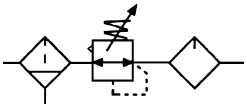
F.R.L assembled sketch:



Filter+Regulator+Lubricator



Specification:

Type	DC100-M5,01	DC200-01,02,03	DC400-03,04,06	DC600-06、08
Port size G	M5・1/8"	1/8"・1/4"・3/8"	3/8"・1/2"・3/4"	3/4"・1"
Gauge thread G	1/16"	1/8"	1/4"	
Fluid	Compressed Air			
Operating pressure range MPa	0.15~0.85			
Max.Flow rate L/min	500	1700	3500	11500
Ambient temperature ℃	-10~60			
Filter precision	Standard：20 μ m			
Structure	Overflow type			
Guard cup	–	●	●	●

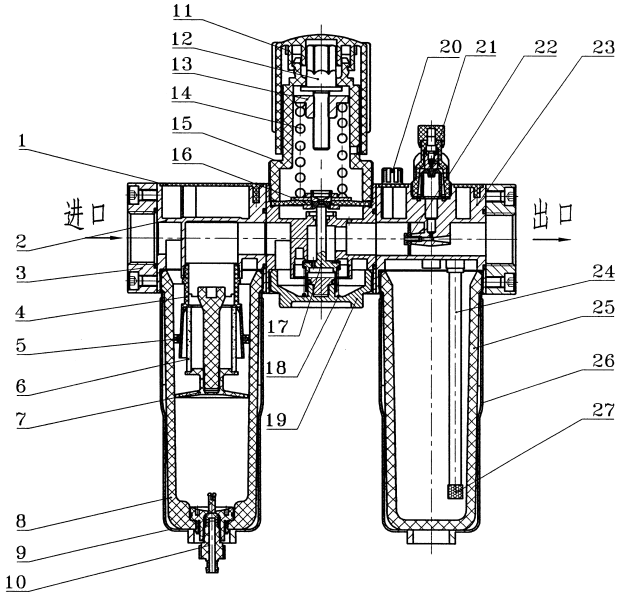
How to order:

DC — 200 — 01 — D

❶ ❷ ❸ ❹

❶	AC Filter+Regulator+Lubricator
❷	Type：100,200,400,600
❸	Port size：M5,01:G1/8",02:G1/4",03:G3/8",04:G1/2",06:G3/4",08:G1"
❹	□：Differential pressure drain，D：Auto-drain；

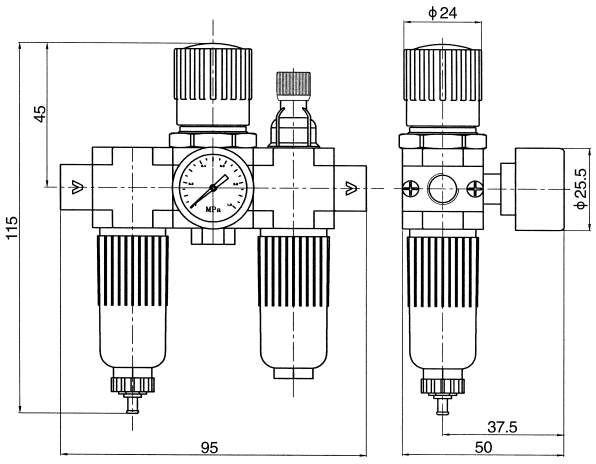
Inner structure drawing:



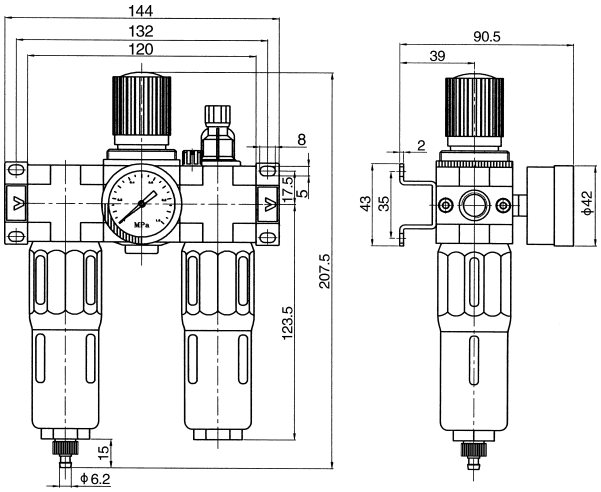
No	Code	No	Code
1	Decorative cover	15	Valve cover
2	Filter body	16	Diaphragm
3	Connecting block	17	regulator core
4	Core pedestal	18	Regulator core spring
5	Impeller	19	Valve cover
6	Filter core	20	Oil plug
7	Barrier board	21	Oil window components
8	Water cup	22	Damping fin
9	Guard cup	23	Lubricator valve body
10	Drainer	24	Oil tube
11	Adjustable button	25	Oil cup
12	Adjustable launch	26	Oil cup block
13	Nut	27	Filter core
14	Main adjustable spring		

Dimension(mm):

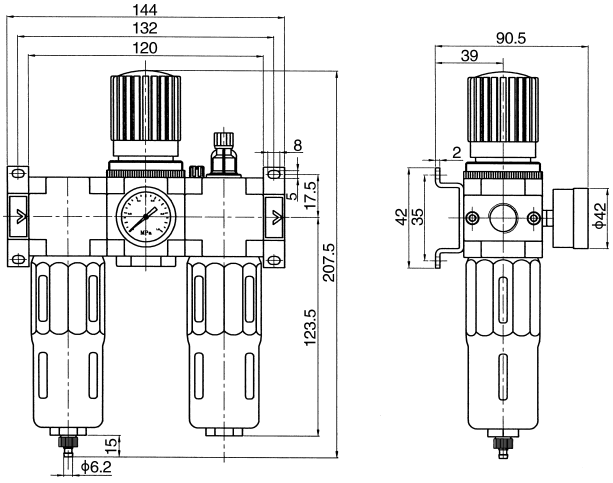
DC100–M5、01



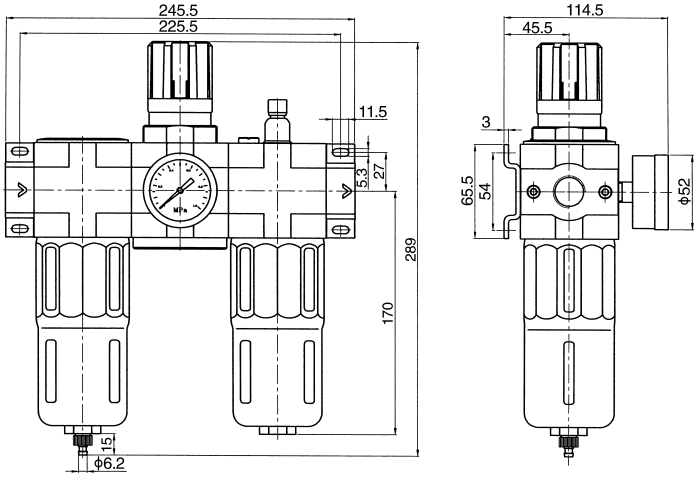
DC200–01、02、03



DC400–03、04、06

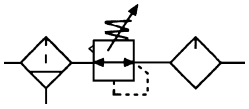


DC600–06、08



SDPC®

Filter Regulator+Lubricator



Specification:

Type	DC101-M5,01	DC201-01,02,03	DC401-03,04,06	DC601-06,08
Port size G	M5・1/8"	1/8"・1/4"・3/8"	3/8"・1/2"・3/4"	3/4"・1"
Gauge thread G	1/16"	1/8"	1/4"	
Fluid	Compressed Air			
Operating pressure range MPa	0.15~0.85			
Max.Flow rate L/min	500	1700	3500	11500
Ambient temperature ℃	-10~60			
Filter precision	Standard: 20 μ m			
Structure	Overflow type			
Guard cup	-	●	●	●

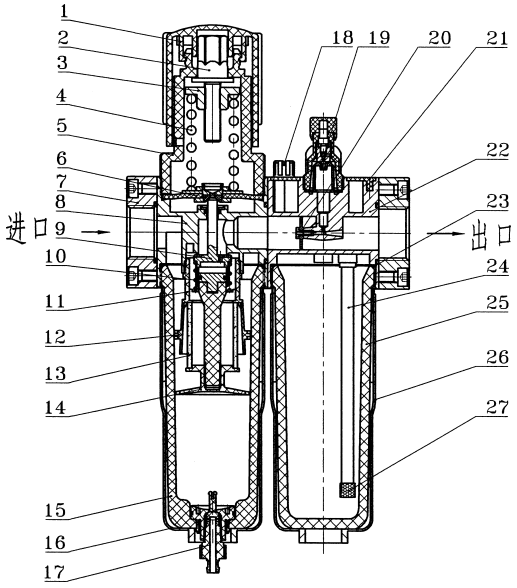
How to order:

DC 201 — 01 D

❶ ❷ ❸ ❹

❶	AC Filter Regulator+Lubricator
❷	Type: 101,201,401,601
❸	Port size: M5,01:G1/8",02:G1/4",03:G3/8",04:G1/2",06:G3/4",08:G1"
❹	□: Differential pressure drain, D: Auto-drain;

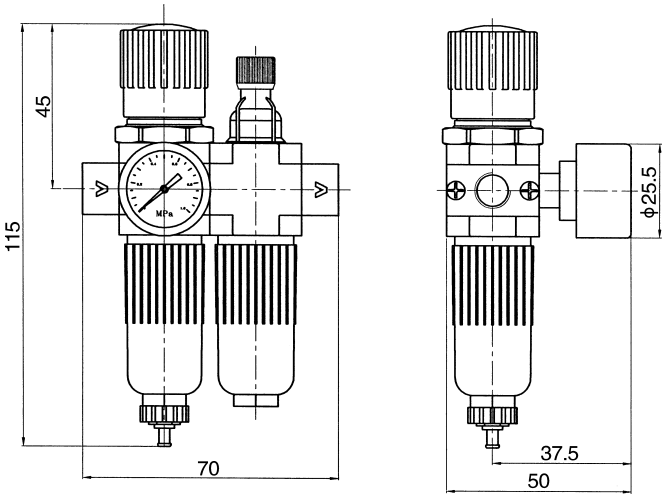
Inner structure drawing:



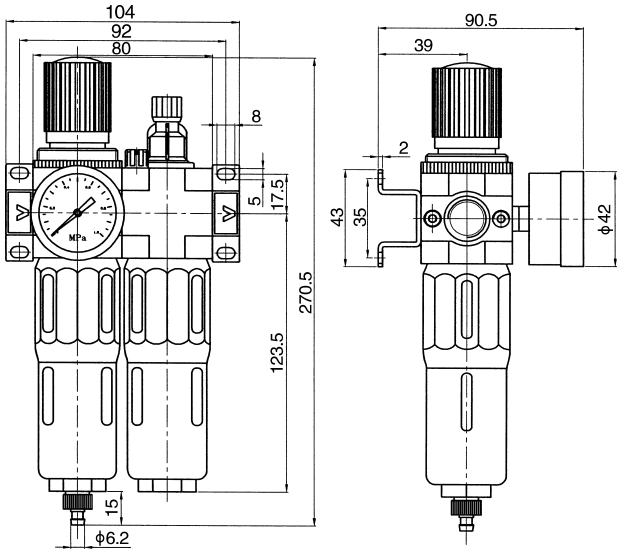
No	code	No	code
1	Adjustable button	15	Water cup
2	Adjustable launch	16	Guard cup
3	Nut	17	Drainer
4	Main adjustable spring	18	Oil plug
5	Valve cover	19	Oil window component
6	Diaphragm	20	Damping fin
7	Connecting block	21	Decorative cover
8	FR body	22	Lubricator valve body
9	Cartridge	23	O-ring
10	Cartridge spring	24	Oil tube
11	Impeller	25	Oil cup
12	Filter core	26	Oil cup block
13	Barrier board	27	Filter core
14	Water cup		

Dimension(mm):

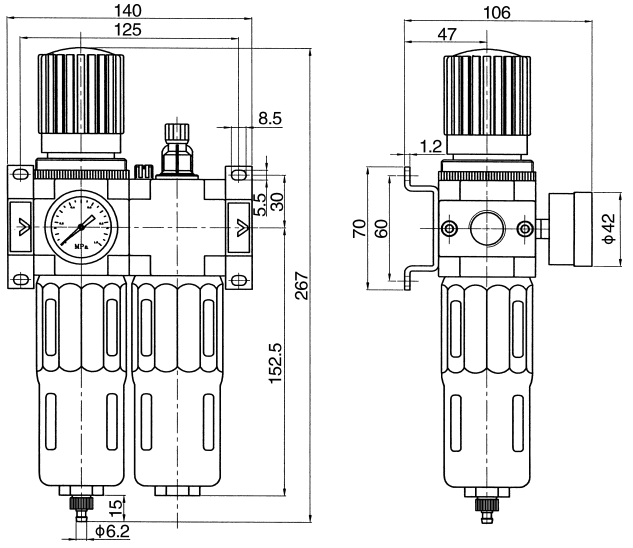
DC101-M5、01



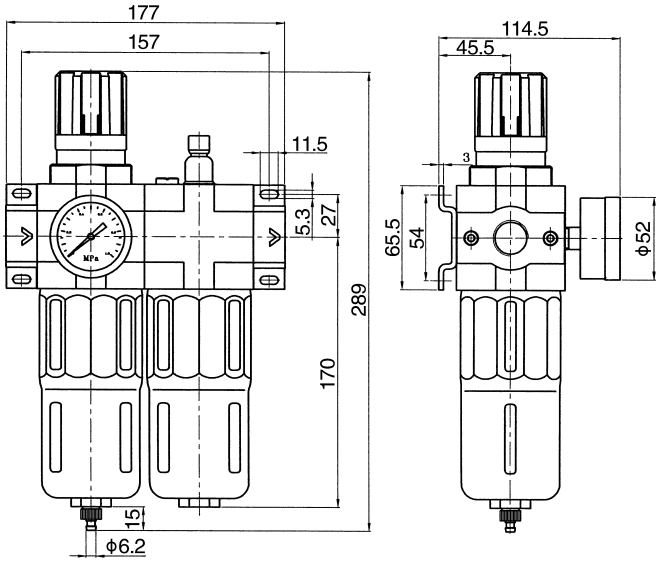
DC201-01、02、03



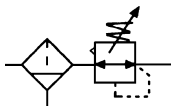
DC401-03、04、06



DC601-06、08



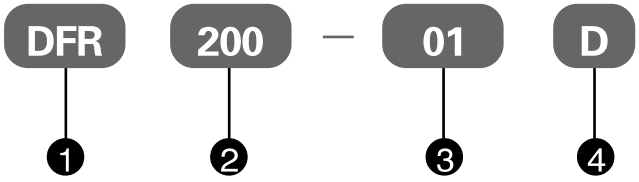
Filter Regulator



Specification:

Type	DFR100-M5,01	DFR200-01,02,03	DFR400-03,04,06	DFR600-06、08
Port size G	M5 · 1/8"	1/8"·1/4"·3/8"	3/8"·1/2"·3/4"	3/4" · 1"
Gauge thread G	1/16"	1/8"	1/4"	
Fluid	Compressed Air			
Operating pressure range MPa	0.15~0.85			
Max.Flow rate L/min	500	1700	3500	11500
Ambient temperature ℃	-10~60			
Filter precision	Standard: 20 μ m			
Structure	Overflow type			
Guard cup	–	●	●	●

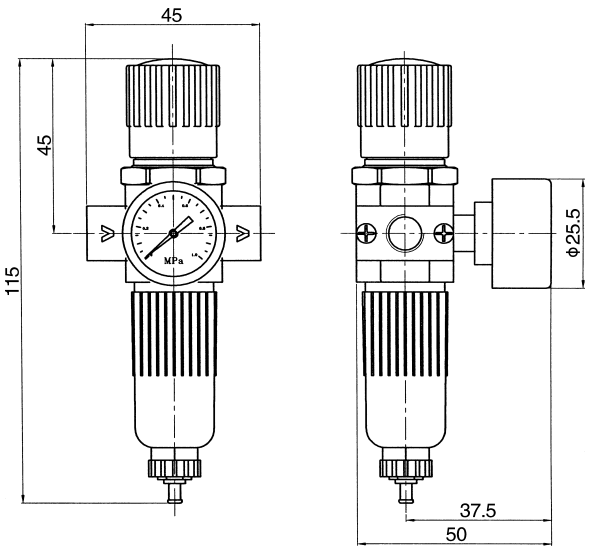
How to order:



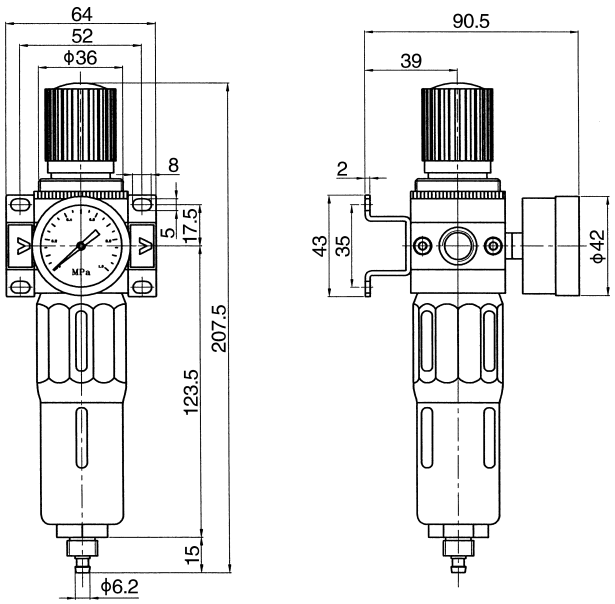
❶	DFR Filter Regulator
❷	Type: 100,200,400,600
❸	Port size: M5,01:G1/8",02:G1/4",03:G3/8",04:G1/2",06:G3/4",08:G1"
❹	□: Differential pressure drain, D: Auto-drain;

Dimension(mm):

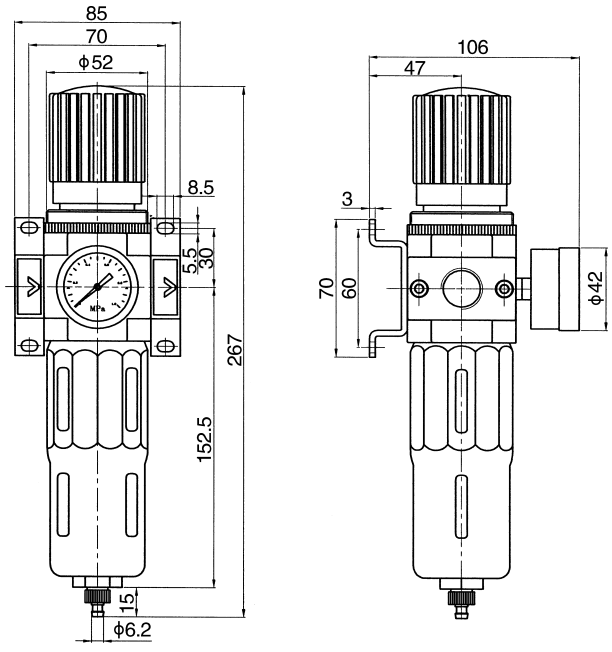
DFR100–M5、01



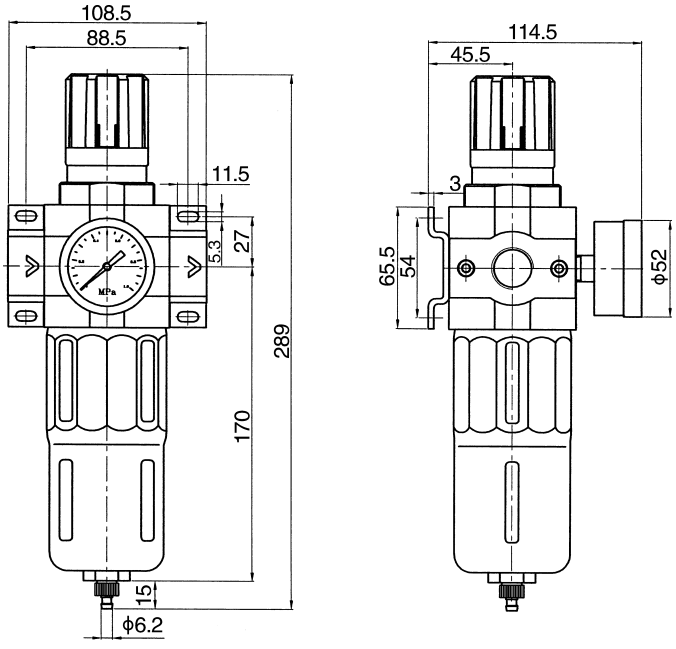
DFR200–01、02、03



DFR400–03、04、06



DFR600–06、08



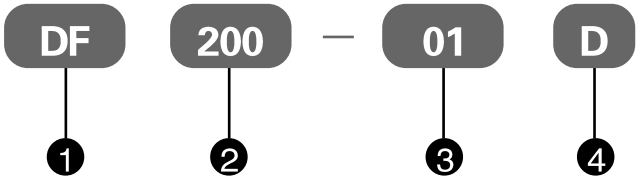
SDPC®

Filter

Specification:

Type	DF100-M5,01	DF200-01,02,03	DF400-03,04,06	DF600-06、08
Port size G	M5・1/8"	1/8"・1/4"・3/8"	3/8"・1/2"・3/4"	3/4"・1"
Gauge thread G	1/16"	1/8"	1/4"	
Fluid	Compressed Air			
Operating pressure range MPa	0.15~0.85			
Max.Flow rate L/min	500	1700	3500	11500
Ambient temperature ℃	-10~60			
Filter precision	Standard：20 μ m			
Structure	Overflow type			
Guard cup	–	●	●	●

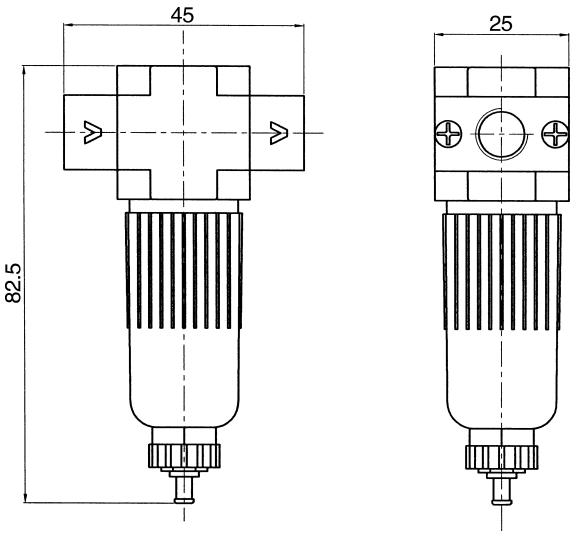
How to order:



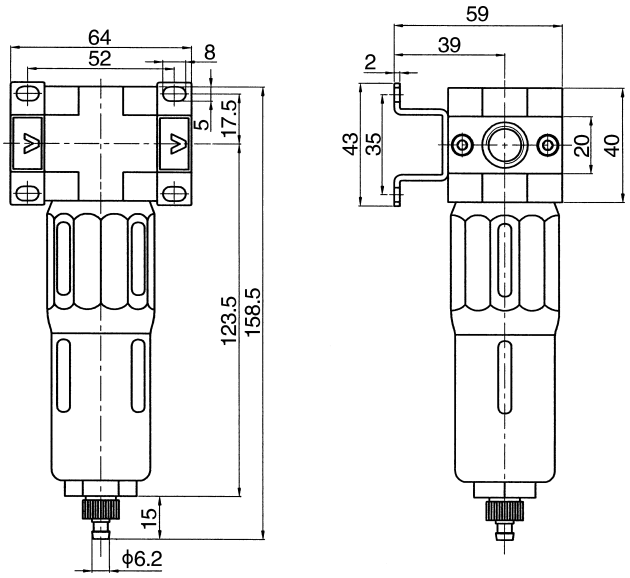
❶	DF Filter
❷	Type：100,200,400,600
❸	Port size：M5,01:G1/8",02:G1/4",03:G3/8",04:G1/2",06:G3/4",08:G1"
❹	□：Differential pressure drain，D：Auto-drain；

Dimension(mm):

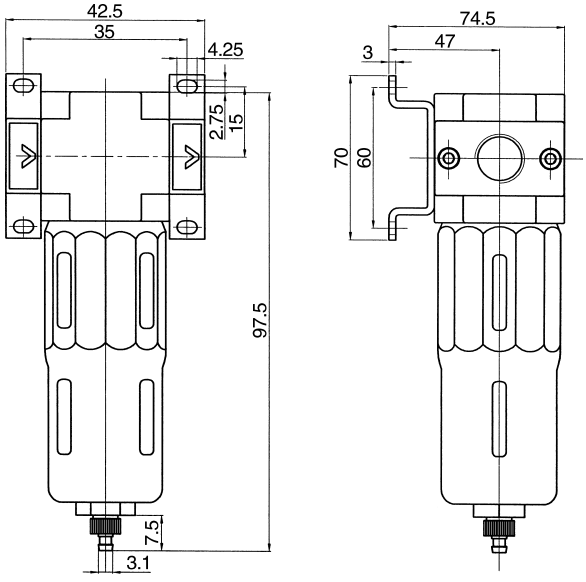
DF100–M5、01



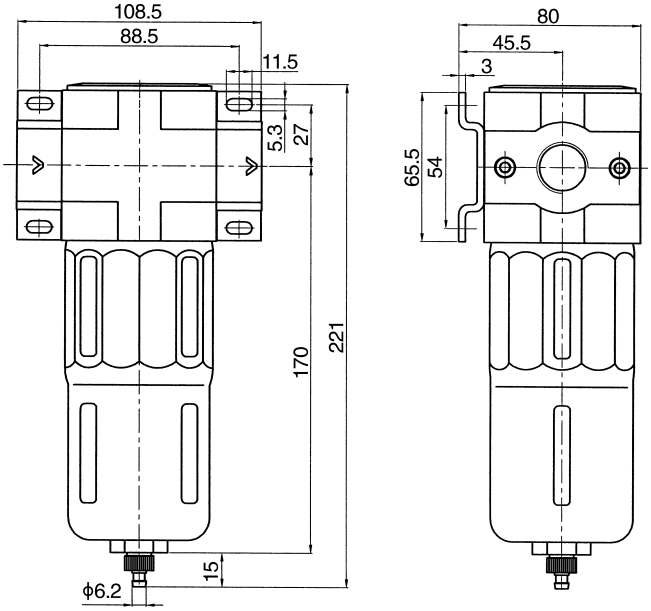
DF200–01、02、03



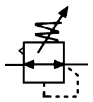
DF400–03、04、06



DF600–06、08



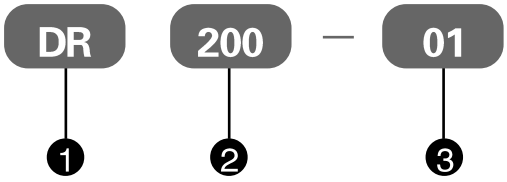
Regulator



Specification:

Type	DR100-M5、01	DR200-01,02,03	DR400-03,04,06	DR600-06、08
Port size G	M5・1/8"	1/8"・1/4"・3/8"	3/8"・1/2"・3/4"	3/4"・1"
Gauge thread G	1/16"	1/8"	1/4"	
Fluid	Compressed Air			
Operating pressure range MPa	0.15~0.85			
Max.Flow rate L/min	500	1700	3500	11500
Ambient temperature ℃	-10~60			

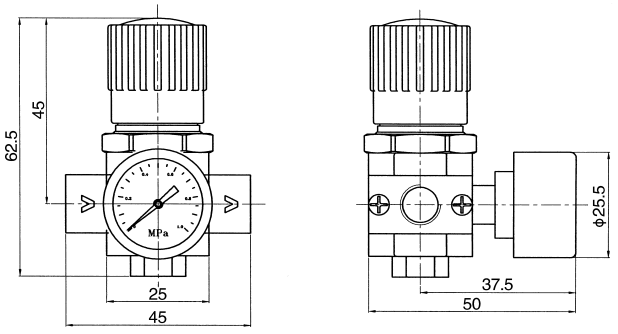
How to order:



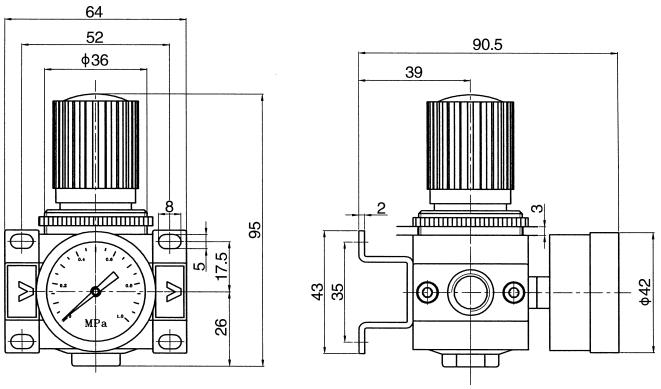
❶	DR Regulator
❷	Type: 100,200,400,600
❸	Port size: M5,01:G1/8",02:G1/4",03:G3/8",04:G1/2",06:G3/4",08:G1"

Dimension(mm):

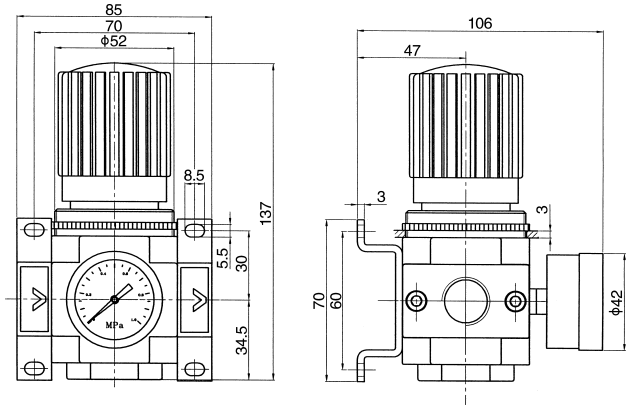
DR100–M5、01



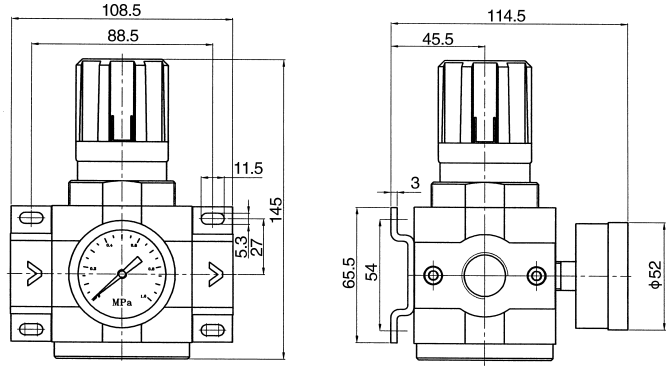
DR200–01、02、03



DR400–03、04、06



DR600–06、08



SDPC®

Lubricator

Specification:

Type	DL100-M5、01	DL200-01,02,03	DL400-03,04,06	DL600-06、08
Port size G	M5・1/8"	1/8"・1/4"・3/8"	3/8"・1/2"・3/4"	3/4"・1"
Fluid	Compressed Air			
Operating pressure range MPa	0.15~0.85			
Max.Flow rate L/min	500	1700	3500	11500
Ambient temperature ℃	-10~60			
Structure	Overflow type			
Guard cup	-	●	●	●

How to order:

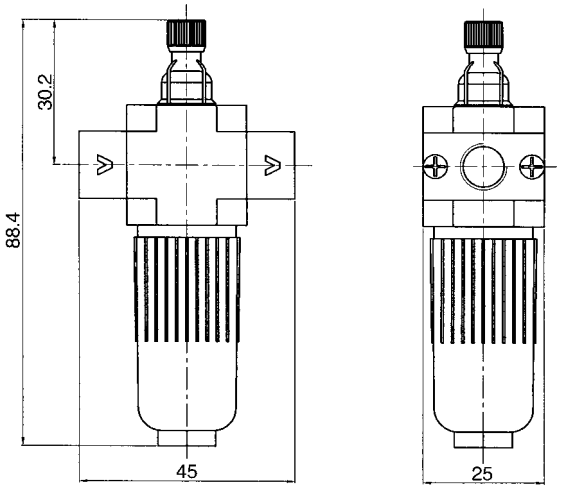
DL 200 — 01

❶ ❷ ❸

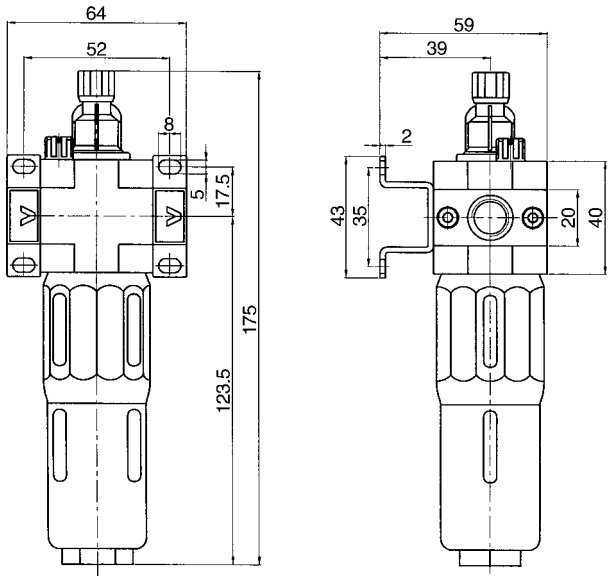
❶	DL Lubricator
❷	Type: 100,200,400,600
❸	Port size: M5,01:G1/8",02:G1/4",03:G3/8",04:G1/2",06:G3/4",08:G1"

Dimension(mm):

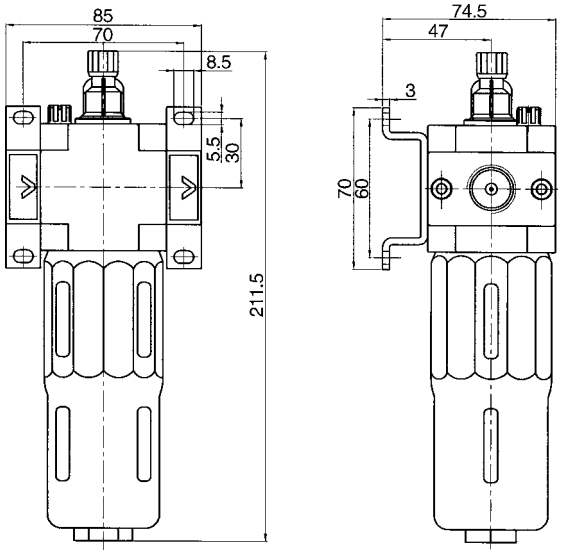
DL100-M5、01



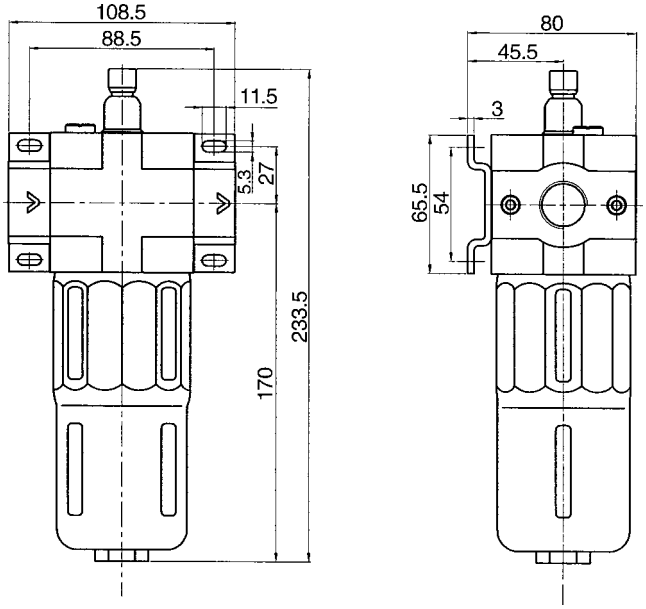
DL200-01、02、03



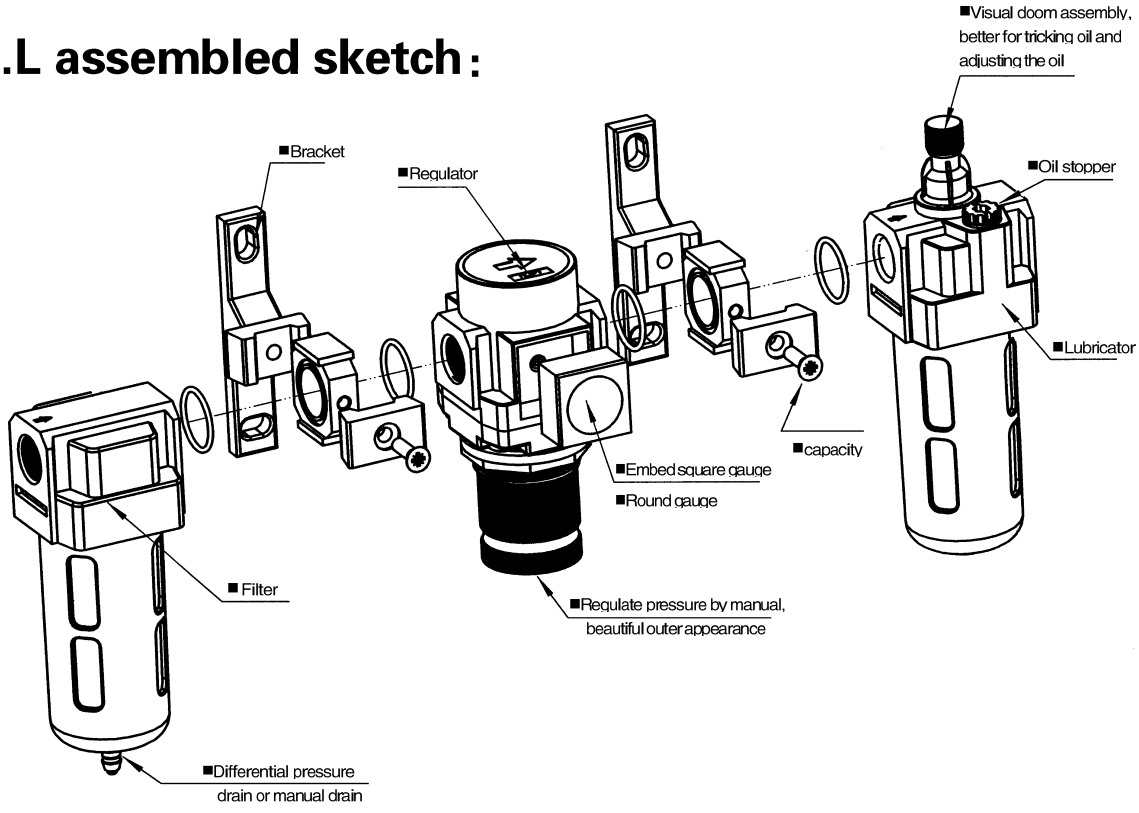
DL400-03、04、06



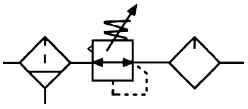
DL600-06、08



F.R.L assembled sketch：



Filter+Regulator+Lubricator



Specification:

Type		AC200A-01,02	AC300A-02,03	AC400A-03,04	AC500A-06,08	AC600A-06,08
Port size G		1/8" · 1/4"	1/4" · 3/8"	3/8" · 1/2"	3/4" · 1"	3/4" · 1"
Gauge thread G		1/8"		1/4"		
Fluid		Compressed Air				
Operating pressure range MPa		0.15~0.85				
Max.Flow rate L/min		500	2000	4000	5000	5000
Ambient temperature ℃		–10~60				
Filter precision		Standard: 20 μ m				
Oil recommended		ISO VG32				
Cup material		Polycarbonate				
Structure		Overflow type				
Optional	Guard cup	–	●	●	●	●
	Bracket	20T	30T	40T	50T	50T

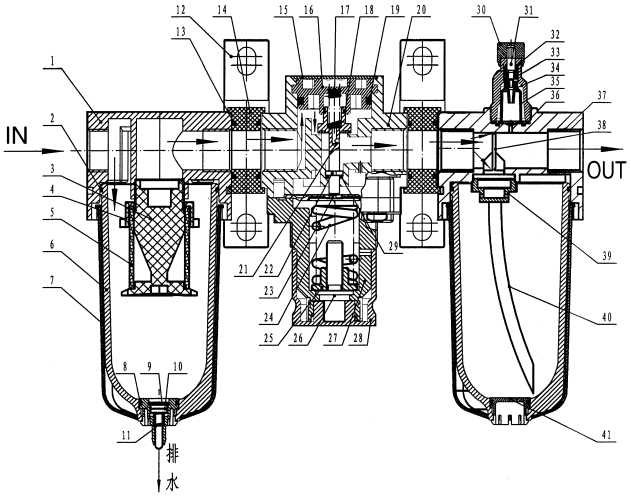
Notes 1:The guard cup of AC200A series can be optional。2 The cups of AC200A、AC300A series can be optional

How to order:

AC ❶ 500 ❷ A ❸ — 06 ❹ M ❺ D ❻

❶	AC Filter+Regulator+Lubricator
❷	Type: 200,300,400,500,600
❸	A: Improved type ; Blank: Old type
❹	Port size: 01:G1/8",02:G1/4",03:G3/8",04:G1/2",06:G3/4",08:G1"
❺	M: Embed square gauge; Blank: Round gauge
❻	□: Differential pressure drain, D: Auto–drain;

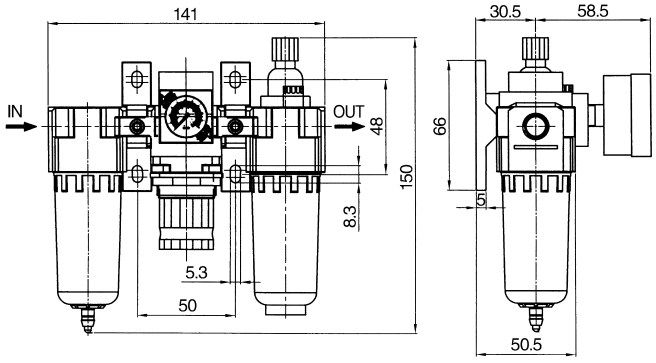
Inner structure drawing:



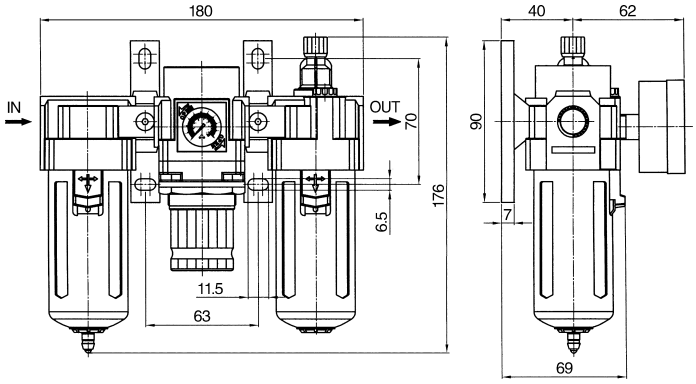
No	code	No	code	No	code
1	filter body	15	panel	29	O –ring
2	O–ring	16	pedestal	30	doom button
3	baffle body	17	regulator core spring	31	adjust pin
4	impeller	18	O –ring	32	O –ring
5	cartridge	19	O –ring	33	middle doom
6	oil cup	20	regulator body	34	O –ring
7	guard cup	21	regulator core	35	doom inner cover
8	O –ring	22	regulator core washer	36	seals
9	circlip	23	diaphragm	37	lubricator body
10	drain nozzle	24	regulator spring	38	damping fin
11	drain spring	25	nut	39	bolt
12	bracket	26	screw	40	oil tube
13	O –ring	27	regulator cover	41	oil cup block
14	connecting block	28	knob		

Dimension(mm):

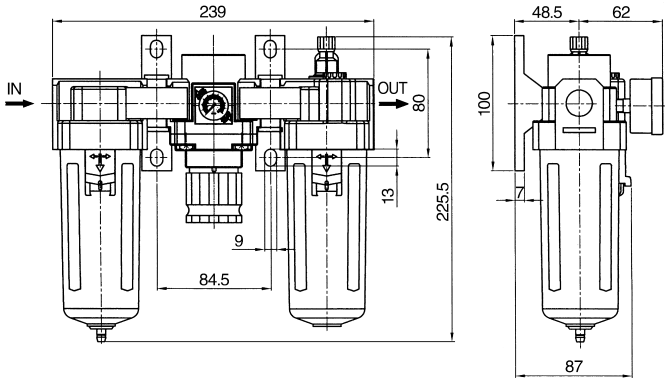
AC200A–01、02



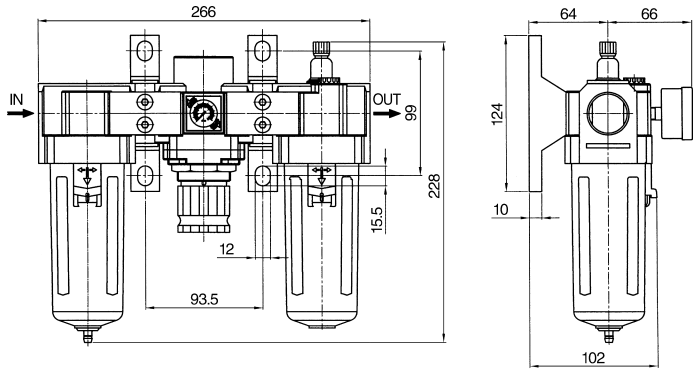
AC300A–02、03



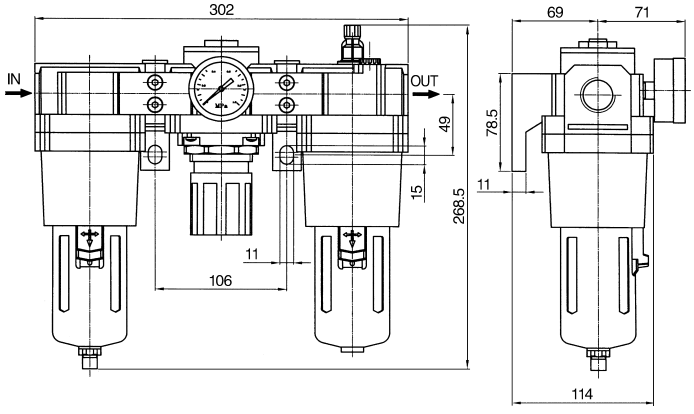
AC400A–03、04



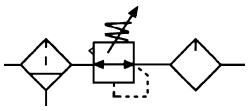
AC500A–06、08



AC600A–06、08



Filter Regulator+Lubricator



Specification:

Type		AC201A-01,02	AC301A-02,03	AC401A-03,04	AC501A-06,08	AC601A-06,08
Port size G		1/8" · 1/4"	1/4" · 3/8"	3/8" · 1/2"	3/4" · 1"	3/4" · 1"
Gauge thread G		1/8"		1/4"		
Fluid		Compressed Air				
Operating pressure range MPa		0.15~0.85				
Max.Flow rate L/min		500	2000	4000	5000	5000
Ambient temperature ℃		–10~60				
Filter precision		Standard: 20 μ m				
Oil recommended		ISO VG32				
Cup material		Polycarbonate				
Structure		Overflow type				
Optional	Guard cup	–	●	●	●	●
	Bracket	20T	30T	40T	50T	50T

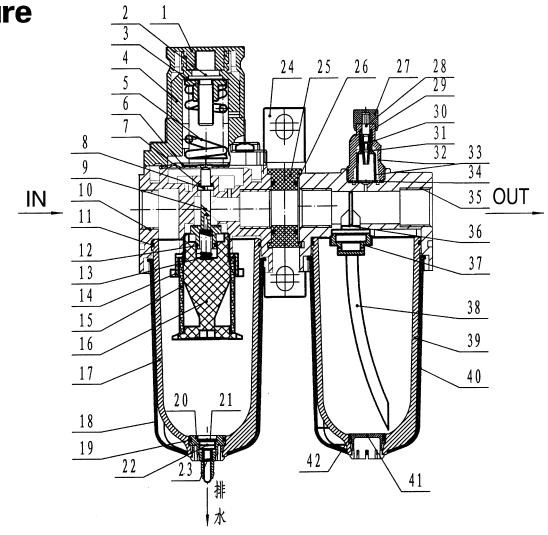
Notes 1:The guard cup of AC201A series can be optional。2 The cups of AC201A、AC301A series can be optional

How to order:

AC ❶ — 501 ❷ — A ❸ — 06 ❹ — M ❺ — D ❻

❶	AC Filter Regulator+Lubricator
❷	Type: 201,301,401,501,601
❸	A: Improved type ; Blank: Old type
❹	Port size: 01:G1/8",02:G1/4",03:G3/8",04:G1/2",06:G3/4",08:G1"
❺	M: Embed square gauge; Blank: Round gauge
❻	□: Differential pressure drain, D: Auto–drain;

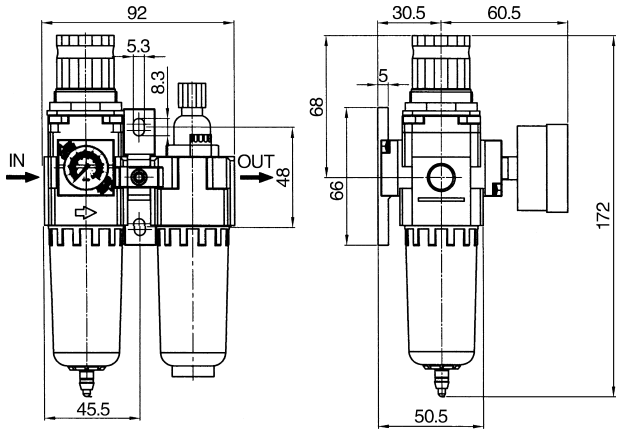
Inner structure drawing:



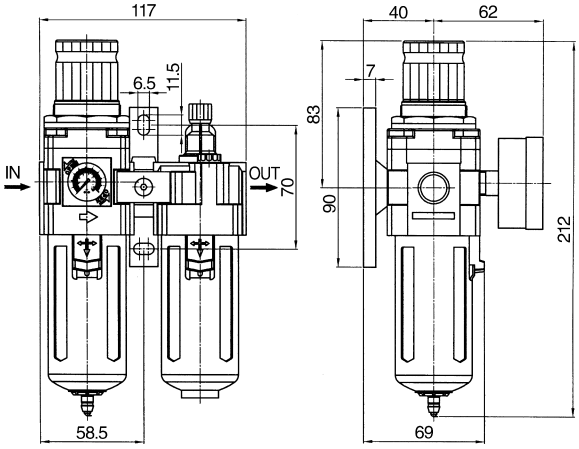
No	code	No	code	No	code
1	knob	15	cartridge	29	O ring
2	nut	16	baffle body	30	middle doom
3	screw	17	water cup	31	O –ring
4	regulator cover	18	guard cup	32	doom outer cover
5	regulator spring	19	O –ring	33	middle doom
6	diaphragm	20	drain doom	34	seals
7	O –ring	21	circlip	35	lubricator body
8	regulator core	22	drain nozzle	36	damping fin
9	regulator corewasher	23	drain spring	37	bolt
10	filter regulator body	24	breaket	38	oil tube
11	O –ring	25	connecting block	39	oil cup
12	O –ring	26	O –ring	40	guard cup
13	regulator core spring	27	doom button	41	oil cup block
14	impeller	28	adjust pin	42	O –ring

Dimension(mm):

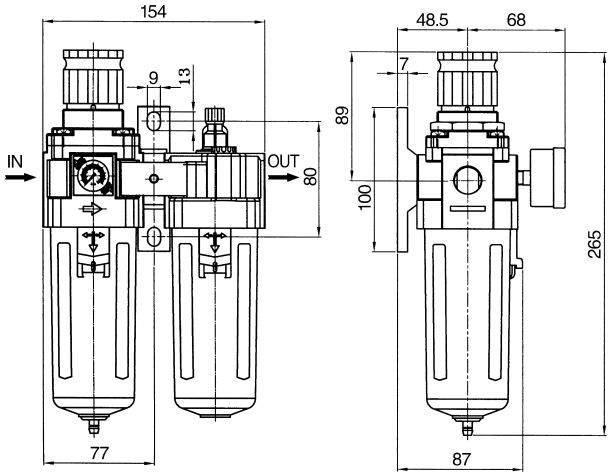
AC201A–01、02



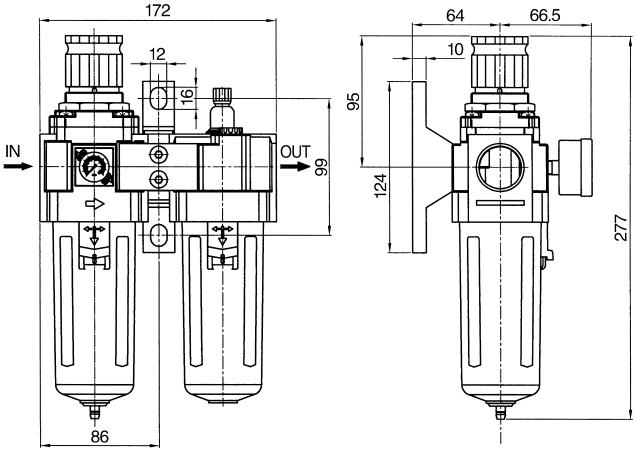
AC301A–02、03



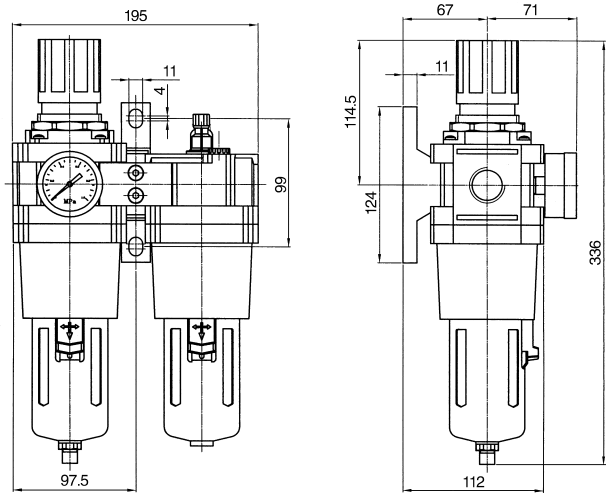
AC401A–03、04



AC501A–06、08



AC601A–06、08

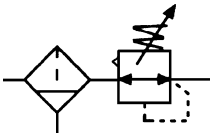


Filter Regulator

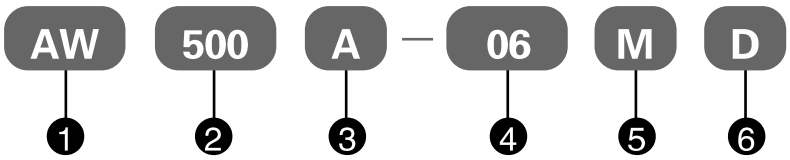
Specification:

Type	AW200A-01,02	AW300A-02,03	AW400A-03,04	AW500A-06,08	AW600A-06,08
Port size G	1/8" · 1/4"	1/4" · 3/8"	3/8" · 1/2"	3/4" · 1"	3/4" · 1"
Gauge thread G	1/8"		1/4"		
Fluid	Compressed Air				
Operating pressure range MPa	0.15~0.85				
Max.Flow rate L/min	500	1700	3000	5000	5000
Ambient temperature ℃	–10~60				
Filter precision	Standard: 20 μ m				
Cup material	Polycarbonate				
Guard cup	●	●	●	●	●

Notes 1:The guard cup of AW200A series can be optional。2 The cups of AW200A,AW300A series can be optional



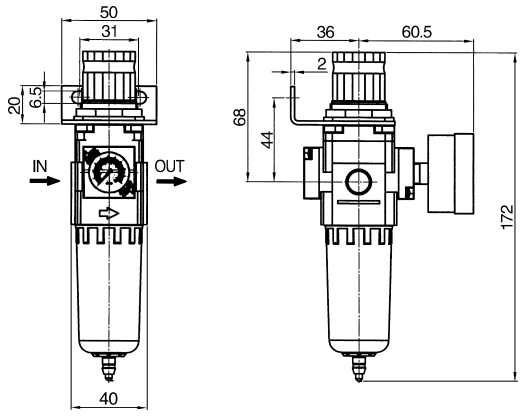
How to order:



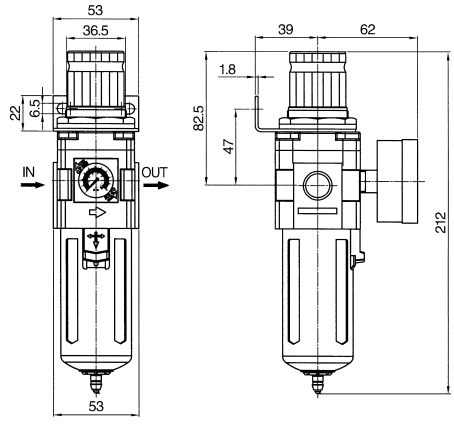
❶	AW Filter Regulator
❷	Type: 200,300,400,500,600
❸	A: Improved type ; Blank: Old type
❹	Port size: 01:G1/8",02:G1/4",03:G3/8",04:G1/2",06:G3/4",08:G1"
❺	M: Embed square gauge; Blank: Round gauge
❻	□: Differential pressure drain, D: Auto–drain;

Dimension(mm):

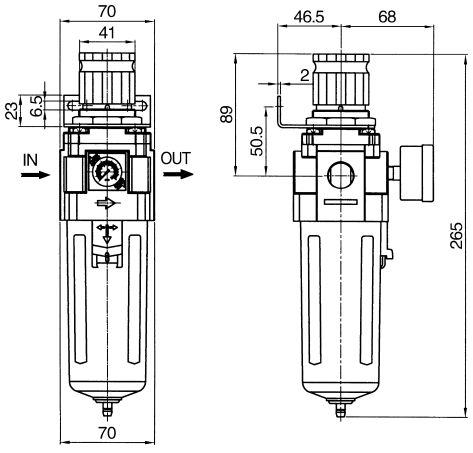
AW200A–01、02



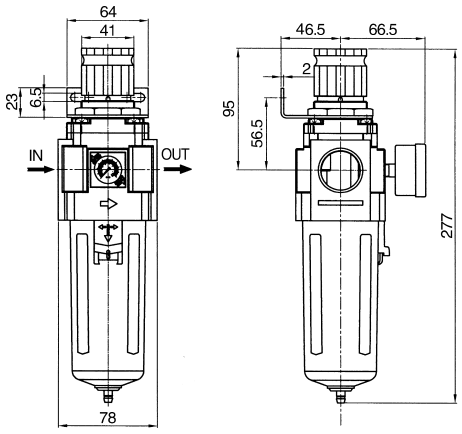
AW300A–02、03



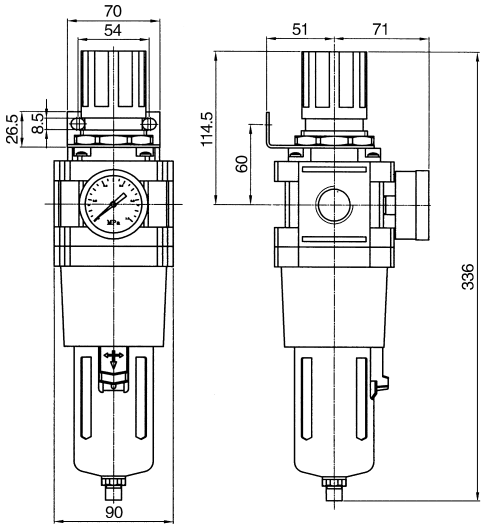
AW400A–03、04



AW500A–06、08

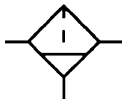


AW600A–06、08



Filter

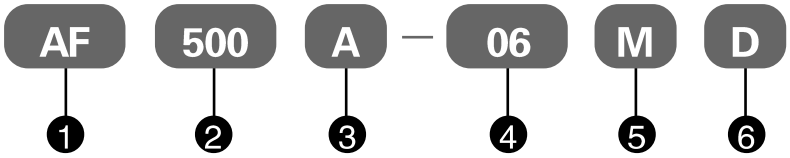
Specification:



Type	AF200A	AF300A	AF400A	AF500A	AF600A
Port size G	1/8"·1/4"	1/4"·3/8"	3/8"·1/2"	3/4"·1"	3/4"·1"
Fluid	Compressed Air				
Operating pressure range MPa	0.15~0.85				
Max.Flow rate L/min	500	1700	3000	5000	5000
Ambient temperature ℃	-10~60				
Filter precision	Standard: 20 μ m				
Cup material	Polycarbonate				
Guard cup	–	●	●	●	●

Notes 1:The guard cup of AF200A series can be optional;2: The cups of AF200A,AF300A series can be optional

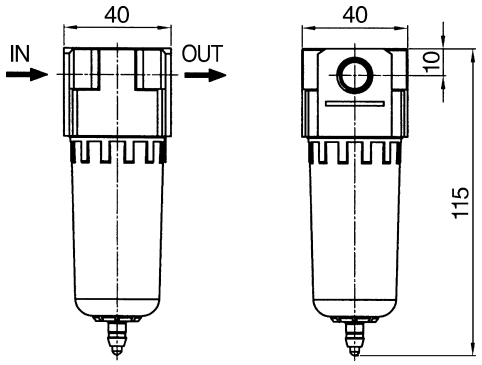
How to order:



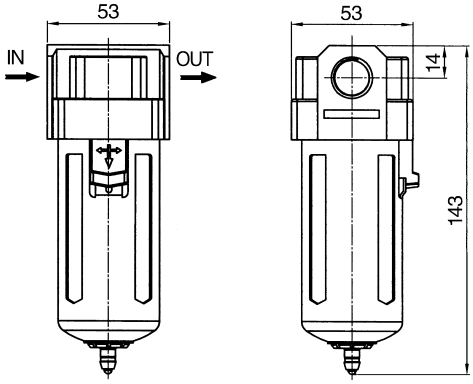
❶	AFW Filter
❷	Type: 200,300,400,500,600
❸	A: Improved type ; Blank: Old type
❹	Port size: 01:G1/8",02:G1/4",03:G3/8",04:G1/2",06:G3/4",08:G1"
❺	M: Embed square gauge; Blank: Round gauge
❻	□: Differential pressure drain, D: Auto-drain;

Dimension(mm):

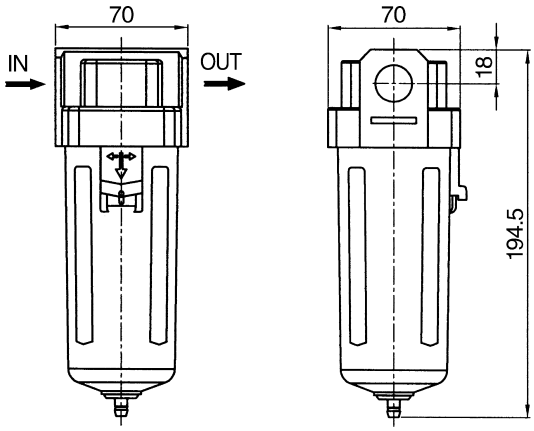
AF200A–01、02



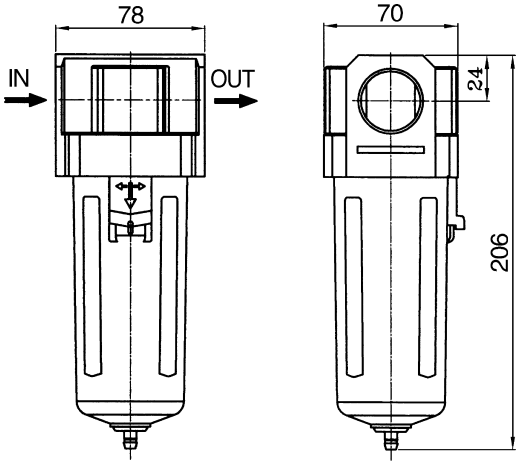
AF300A–02、03



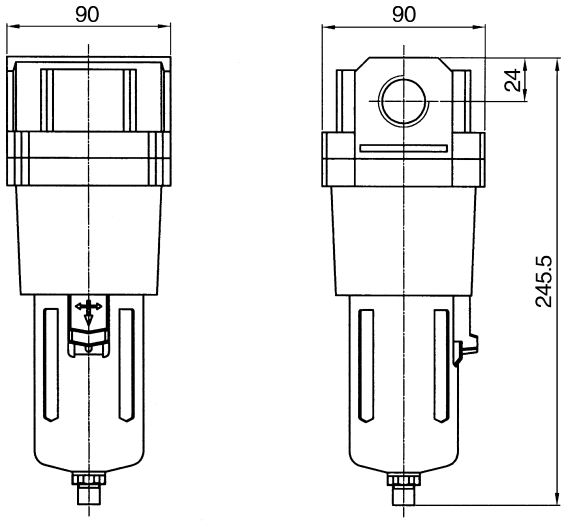
AF400A–03、04



AF500A–06、08

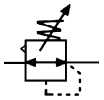


AF600A–06、08



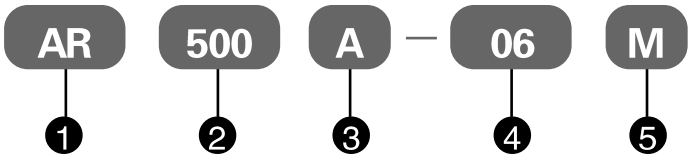
Regulator

Specification:



Type	AR200A	AR300A	AR400A	AR500A	AR600A
Port size G	1/8"·1/4"	1/4"·3/8"	3/8"·1/2"	3/4"·1"	3/4"·1"
Gauge thread G	1/8"		1/4"		
Fluid	Compressed Air				
Operating pressure range MPa	0.15~0.85				
Max.Flow rate L/min	500	1700	3000	5000	5000
Ambient temperature ℃	-10~60				

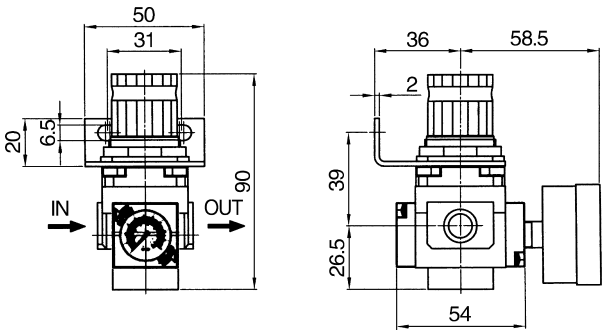
How to order:



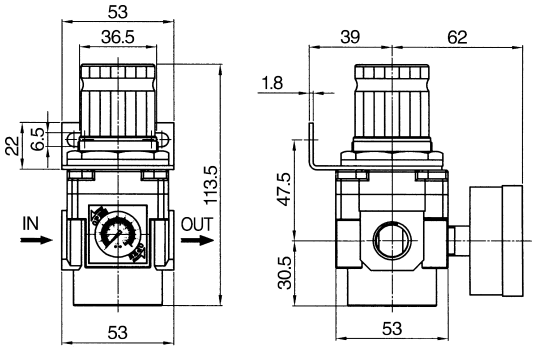
❶	AR Regulator
❷	Type: 200,300,400,500,600
❸	A: Improved type ; Blank: Old type
❹	Port size: 01:G1/8",02:G1/4",03:G3/8",04:G1/2",06:G3/4",08:G1"
❺	M: Embed square gauge; Blank: Round gauge

Dimension(mm):

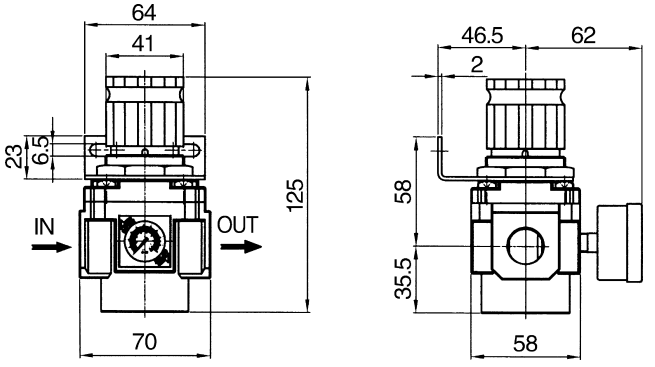
AR200A–01、02



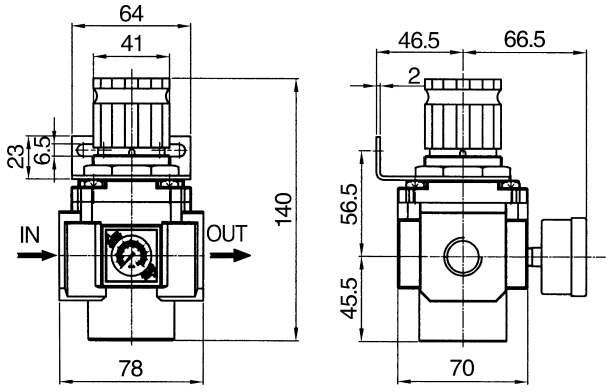
AR300A–02、03



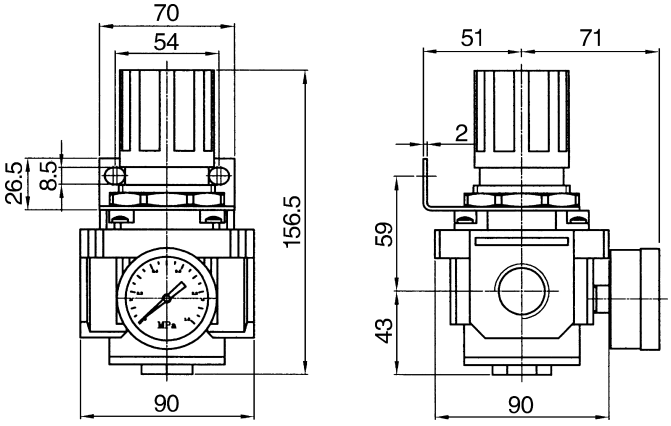
AR400A–03、04



AR500A–06、08



AR600A–06、08

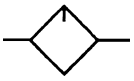


Lubricator

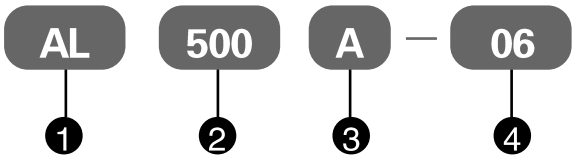
Specification:

Type	AL200A	AL300A	AL400A	AL500A	AL600A
Port size G	1/8"·1/4"	1/4"·3/8"	3/8"·1/2"	3/4"·1"	3/4"·1"
Gauge thread G	1/8"		1/4"		
Fluid	Compressed Air				
Operating pressure range MPa	0.15~0.85				
Max.Flow rate L/min	500	1700	3000	5000	5000
Ambient temperature ℃	-10~60				
Filter precision	ISO VG32				
Cup material	Polycarbonate				
Guard cup	–	●	●	●	●

Notes 1:The guard cup of AL200A series can be optional;2: The cups of AL200A、AL300A series can be optional



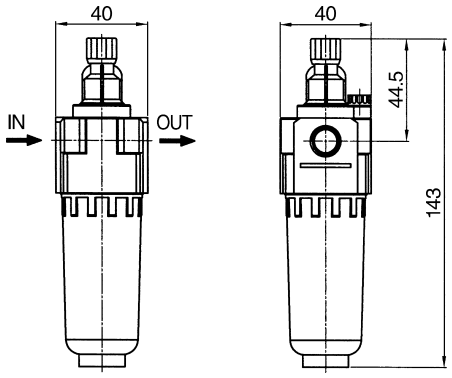
How to order:



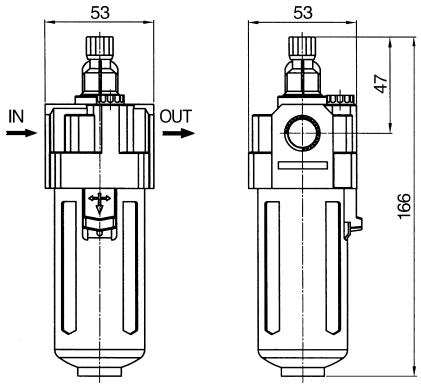
❶	AL Lubricator
❷	Type: 200,300,400,500,600
❸	A: Improved type ; Blank: Old type
❹	Port size: 01:G1/8",02:G1/4",03:G3/8",04:G1/2",06:G3/4",08:G1"

Dimension(mm):

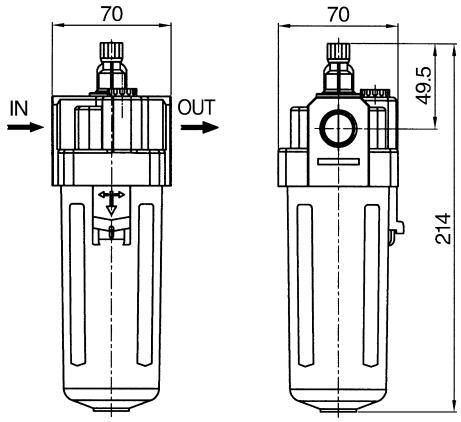
AL200A–01、02



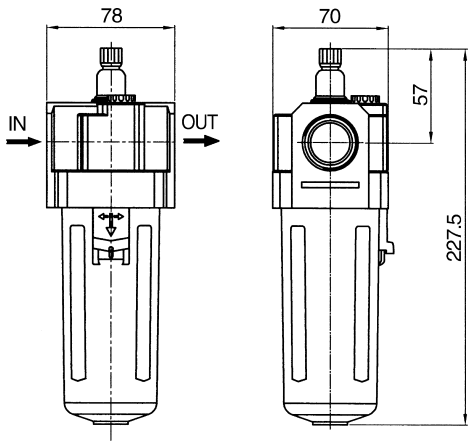
AL300A–02、03



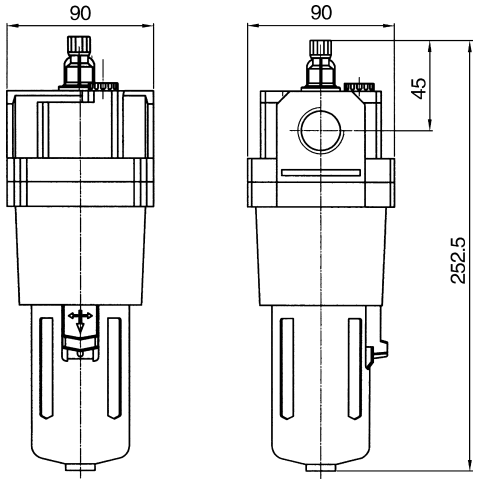
AL400A–03、04



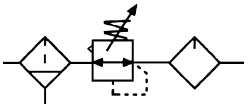
AL500A–06、08



AL600A–06、08



Filter+Regulator+Lubricator



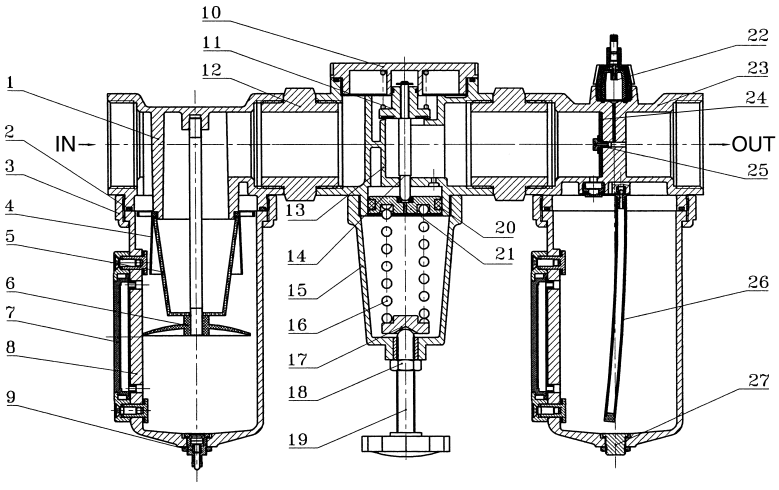
Specification:

Type	AC900-15	AC900-20
Port size G	1½"	2"
Gauge thread G	1/4"	
Fluid	Compressed Air	
Operating pressure range MPa	0.15~0.85	
Ambient temperature ℃	-10~60	
Filter precision	Standard: 20 μ m	
Cup material	Die-casting Aluminum	

How to order:

❶	AC Filter+Regulator+Lubricator
❷	Type: 900
❸	Port size: 15:G1½", 20:G2"
❹	□: Differential pressure drain, D: Auto-drain;

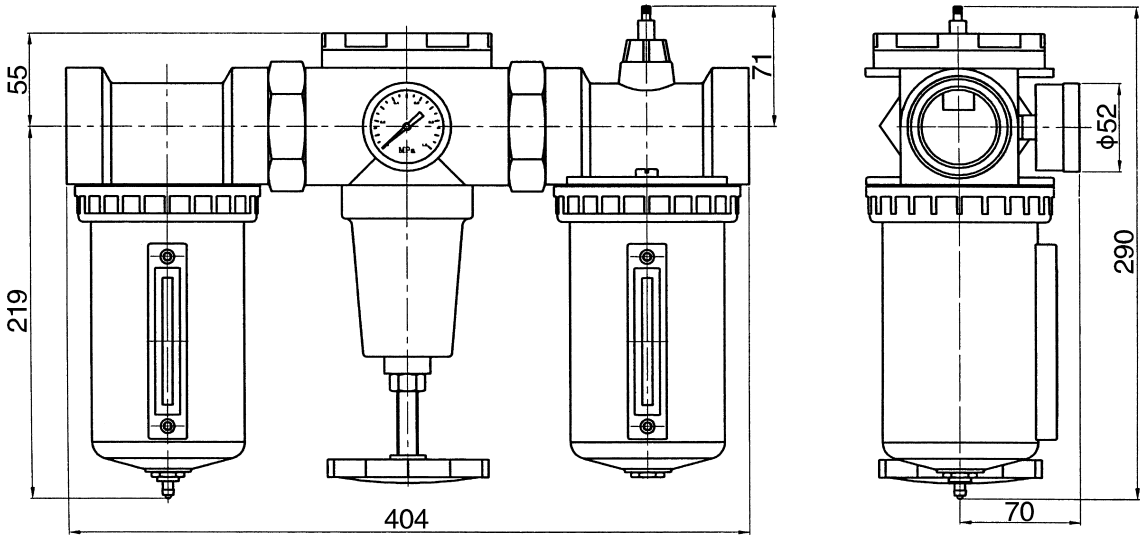
Inner structure drawing:



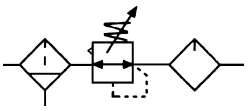
No	Code	No	Code
1	Filter body	15	Valve cover
2	O-ring	16	Doom button
3	Nut	17	Iron gasket
4	Impeller	18	Nut
5	Filter core	19	Handle wheel
6	Barriet board	20	O-ring
7	Visual oil window	21	Piston
8	Water cup	22	Oil window components
9	Drainer	23	Lubricator body
10	Valve cover	24	Damping fin
11	Regulator core	25	Damping nut
12	Connector	26	Oil tube
13	Regulator body	27	Plug
14	Valve rod		

Dimension(mm):

■ AC900–15、20



Filter Regulator+Lubricator



Specification:

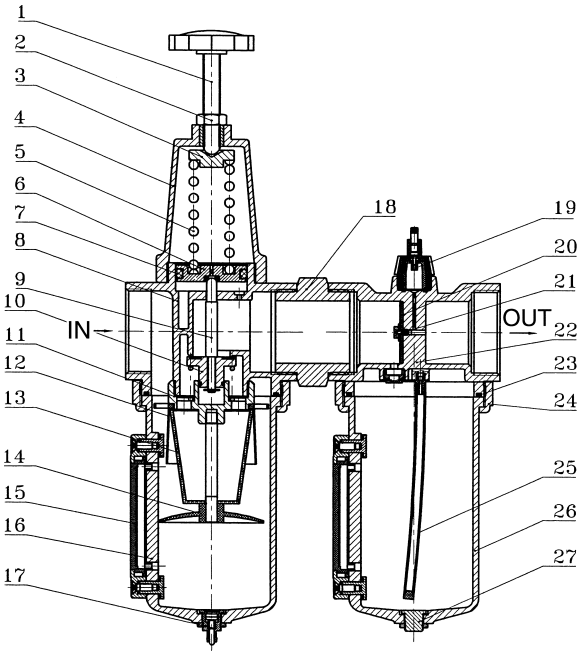
Type	AC901-15	AC901-20
Port size G	1 1/2"	2"
Gauge thread G	1/4"	
Fluid	Compressed Air	
Operating pressure range MPa	0.15~0.85	
Ambient temperature ℃	-10~60	
Filter precision	Standard: 20 μ m	
Cup material	Die-casting Aluminum	

How to order:

AC ❶ 900 ❷ — 15 ❸ D ❹

❶	AC Filter Regulator+Lubricator
❷	Type: 901
❸	Port size: 15:G1 1/2", 20:G2"
❹	□: Differential pressure drain, D: Auto-drain;

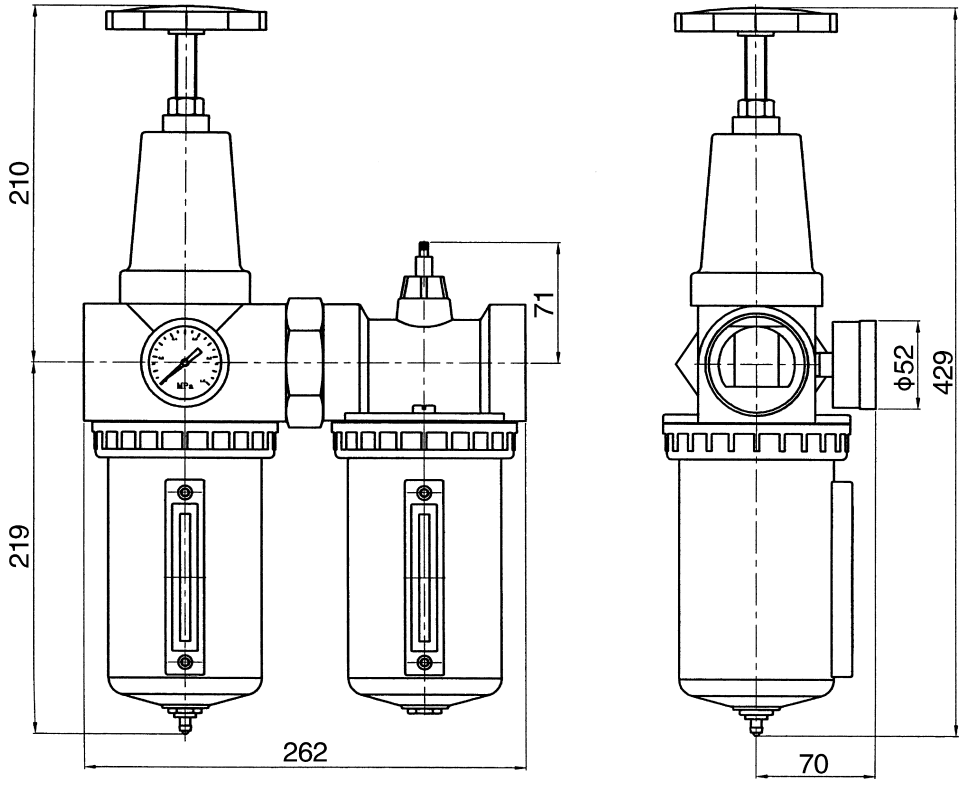
Inner structure drawing:



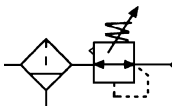
No	Code	No	Code
1	Handle wheel	15	Visual oil window
2	Nut	16	Water cup
3	Iron gasket	17	Drainer
4	Valve cover	18	Connector
5	Adjustable spring	19	Oil window components
6	Piston	20	Damping fin
7	O-ring	21	Damping nut
8	Filter regulator body	22	Lubricator body
9	Valve rod	23	O-ring
10	Regulator core	24	Nut
11	Core pedestal	25	Oil tube
12	Impeller	26	Oil cup
13	Filter core	27	Plug
14	Battier board		

Dimension(mm):

■ AC901–15、20



Filter Regulator



Specification:

Type	AFR900-15	AFR900-20
Port size G	1 1/2"	2"
Gauge thread G	1/4"	
Fluid	Compressed Air	
Operating pressure range MPa	0.15~0.85	
Ambient temperature ℃	-10~60	
Filter precision	Standard: 20 μ m	
Cup material	Die-casting Aluminum	

How to order:

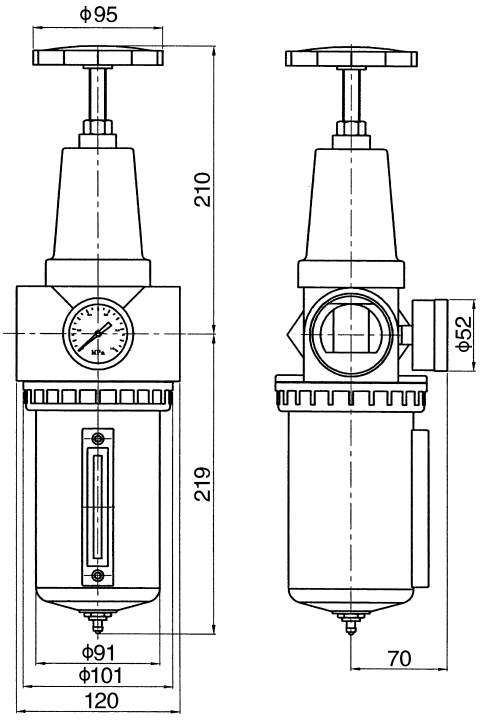
AFR 900 — 15 D

1 2 3 4

❶	AFR Filter Regulator
❷	Type: 900
❸	Port size: 15:G1 1/2", 20:G2"
❹	□: Differential pressure drain, D: Auto-drain;

Dimension(mm):

■ AFR900-15、20



Filter

Specification:

Type	AF900-15	AF900-20
Port size G	1½"	2"
Gauge thread G	1/4"	
Fluid	Compressed Air	
Operating pressure range MPa	0.15~0.85	
Ambient temperature ℃	-10~60	
Filter precision	Standard: 20 μ m	
Cup material	Die-casting Aluminum	

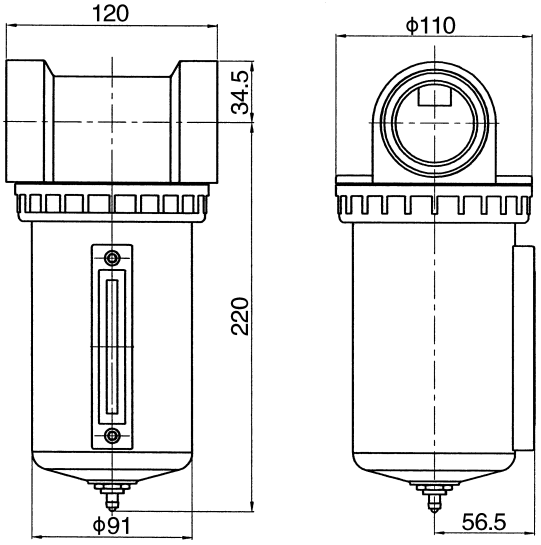
How to order:

AF ❶ 900 ❷ — 15 ❸ D ❹

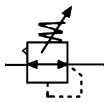
❶	AF Filter
❷	Type: 900
❸	Port size: 15:G1½", 20:G2"
❹	□: Differential pressure drain, D: Auto-drain;

Dimension(mm):

■ AF900-15、20



Regulator



Specification:

Type	AR900-15	AR900-20
Port size G	1 1/2"	2"
Gauge thread G	1/4"	
Fluid	Compressed Air	
Operating pressure range MPa	0.15~0.85	
Ambient temperature ℃	-10~60	

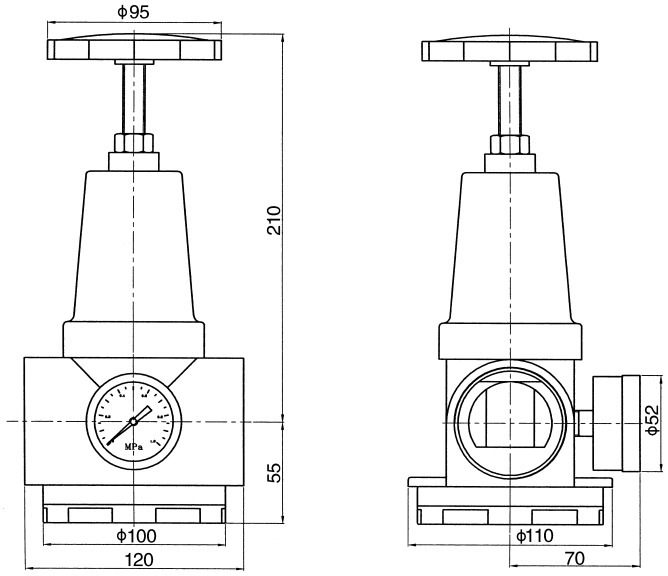
How to order:

AR ❶ 900 ❷ — 15 ❸

❶	AR Regulator
❷	Type：900
❸	Port size：15:G1 1/2", 20:G2"

Dimension(mm):

■ AR900-15、20



Filter

Specification:

Type	AL900-15	AL900-20
Port size G	1½"	2"
Gauge thread G	1/4"	
Fluid	Compressed Air	
Operating pressure range MPa	0.15~0.85	
Ambient temperature ℃	-10~60	
Cup material	Die-casting Aluminum	

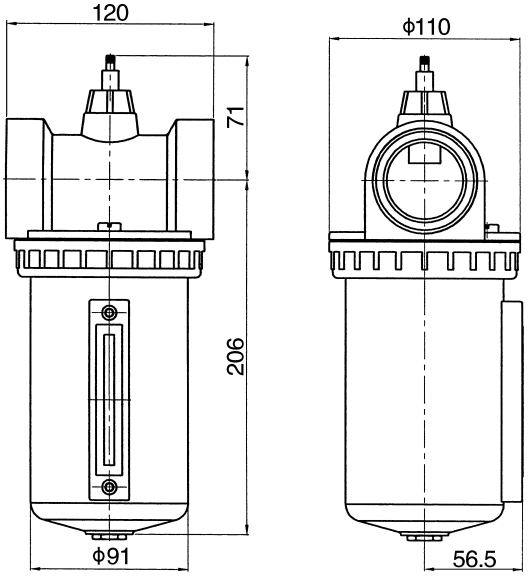
How to order:

AL ❶ 900 ❷ — 15 ❸

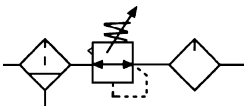
❶	ALFilter
❷	Type：900
❸	Port size：15:G1½", 20:G2"

Dimension(mm):

■ AF900-15、20



Filter+Regulator+Lubricator



Specification:

Type		AC200A-01J,02J	AC300A-02J,03J	AC400A-03J,04J	AC500A-06J,08J	AC600A-06J,08J
Port size G		1/8" · 1/4"	1/4" · 3/8"	3/8" · 1/2"	3/4" · 1"	3/4" · 1"
Gauge thread G		1/8"		1/4"		
Fluid		Compressed Air				
Operating pressure range MPa		0.15~0.85				
Max.Flow rate L/min		500	2000	4000	5000	5000
Ambient temperature ℃		–10~60				
Filter precision		Standard: 20 μ m				
Oil recommended		ISO VG32				
Cup material		Metal				
Structure		Overflow type				
Optional	Guard cup	●	●	●	●	●
	Bracket	20T	30T	40T	50T	50T

Notes : The cups of AC200A、AC300A series can be optional

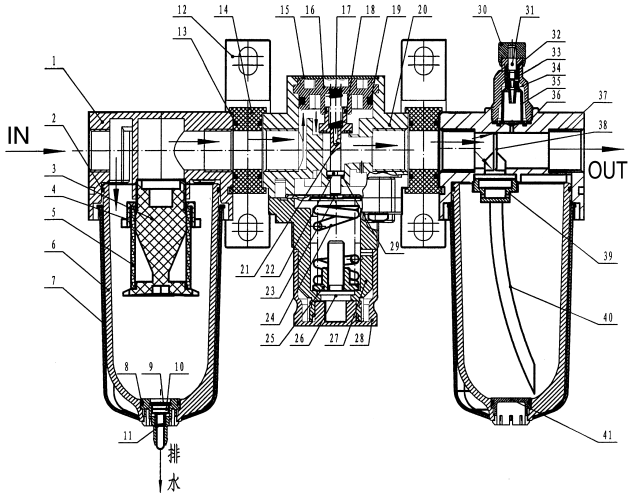
How to order:

AC **500** **A** — **06** **J** **M** **D**

❶ ❷ ❸ ❹ ❺ ❻ ❼

❶	AC Filter+Regulator+Lubricator
❷	Type: 200,300,400,500,600
❸	A: Improved type ; Blank: Old type
❹	Port size: 01:G1/8",02:G1/4",03:G3/8",04:G1/2",06:G3/4",08:G1"
❺	J: Metal bowl
❻	M: Embed square gauge; Blank: Round gauge
❼	□: Differential pressure drain, D: Auto–drain;

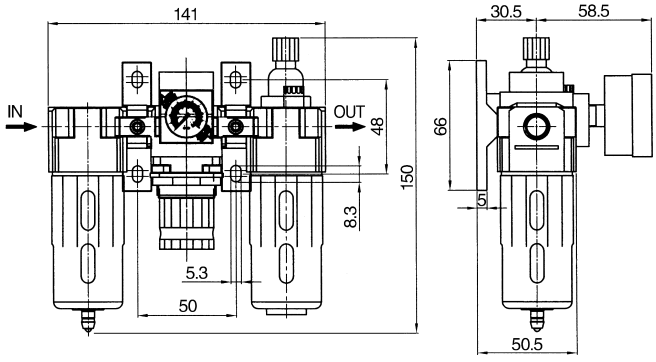
Inner structure drawing:



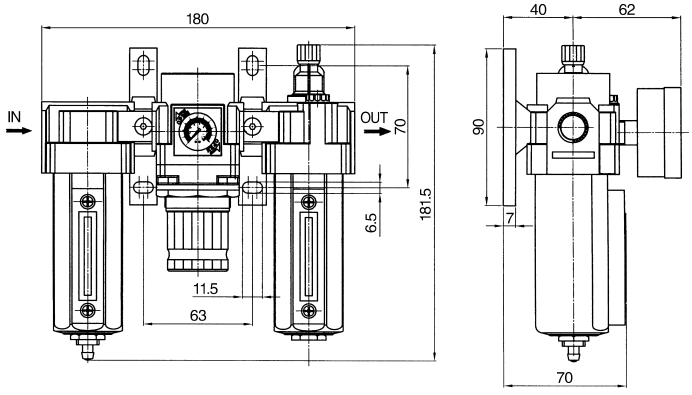
No	code	No	code	No	code
1	filter body	15	panel	29	O –ring
2	O–ring	16	pedestal	30	doom button
3	baffle body	17	regulator core spring	31	adjust pin
4	impeller	18	O –ring	32	O –ring
5	cartridge	19	O –ring	33	middle doom
6	oil cup	20	regulator body	34	O –ring
7	guard cup	21	regulator core	35	doom inner cover
8	O –ring	22	regulator core washer	36	seals
9	circlip	23	diaphragm	37	lubricator body
10	drain nozzle	24	regulator spring	38	damping fin
11	drain spring	25	nut	39	bolt
12	bracket	26	screw	40	oil tube
13	O –ring	27	regulator cover	41	oil cup block
14	connecting block	28	knob		

Dimension(mm):

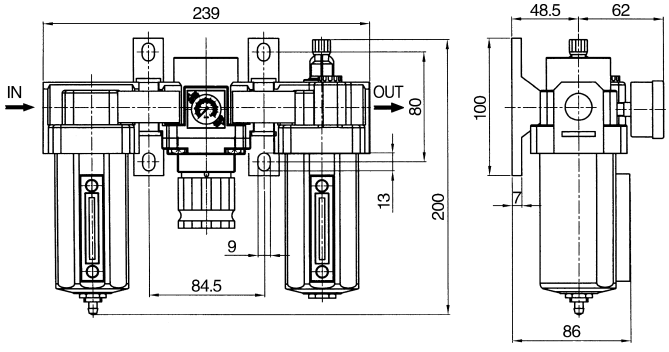
AC200A–01J、02J



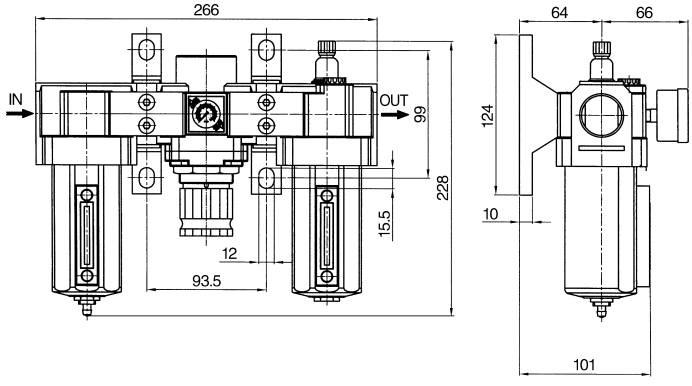
AC300A–02J、03J



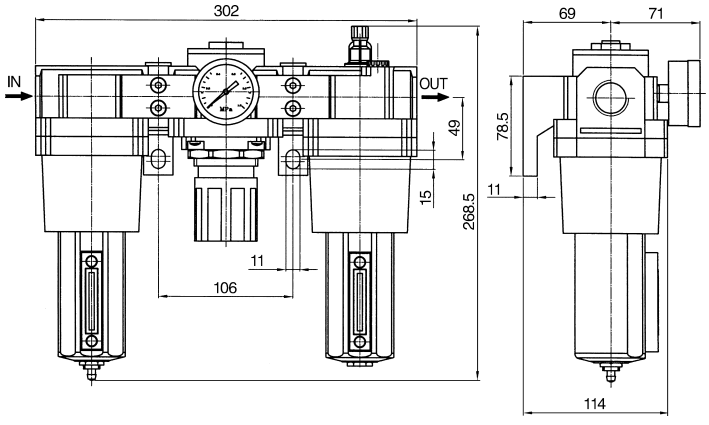
AC400A–03J、04J



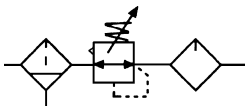
AC500A–06J、08J



AC600A–06J、08J



Filter Regulator+Lubricator



Specification:

Type		AC201A-01J,02J	AC301A-02J,03J	AC401A-03J,04J	AC501A-06J,08J	AC601A-06J,08J
Port size G		1/8" · 1/4"	1/4" · 3/8"	3/8" · 1/2"	3/4" · 1"	3/4" · 1"
Gauge thread G		1/8"		1/4"		
Fluid		Compressed Air				
Operating pressure range MPa		0.15~0.85				
Max.Flow rate L/min		500	1700	3000	5000	5000
Ambient temperature ℃		–10~60				
Filter precision		Standard: 20 μ m				
Oil recommended		ISO VG32				
Cup material		Metal				
Structure		Overflow type				
Optional	Guard cup	●	●	●	●	●
	Bracket	20T	30T	40T	50T	50T

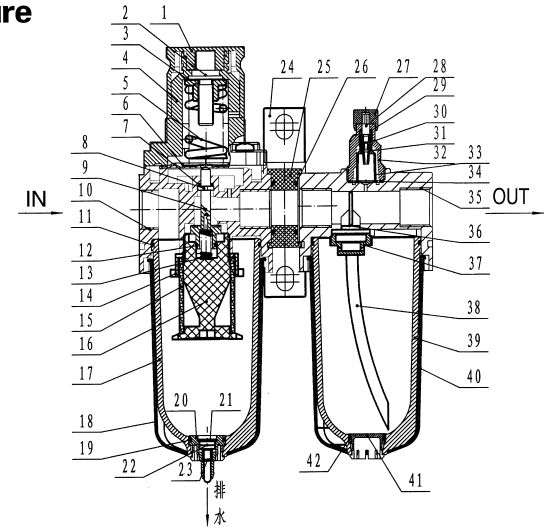
Notes : The cups of AC200A、AC300A series can be optional

How to order:

AC ❶ 501 ❷ A ❸ — 06 ❹ J ❺ M ❻ D ❼

❶	AC Filter Regulator+Lubricator
❷	Type: 201,301,401,501,601
❸	A: Improved type ; Blank: Old type
❹	Port size: 01:G1/8",02:G1/4",03:G3/8",04:G1/2",06:G3/4",08:G1"
❺	J: Metal bowl
❻	M: Embed square gauge; Blank: Round gauge
❼	□: Differential pressure drain, D: Auto–drain;

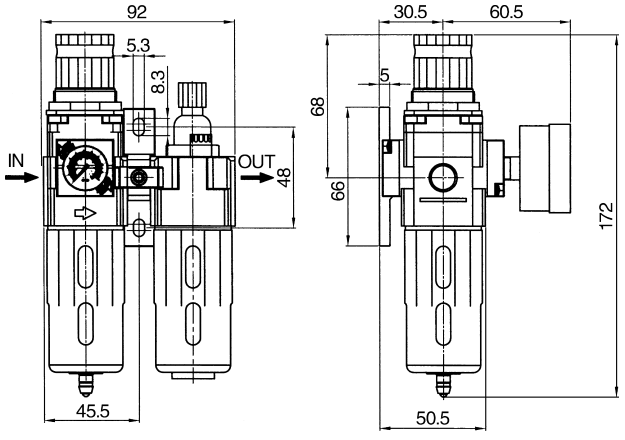
Inner structure drawing:



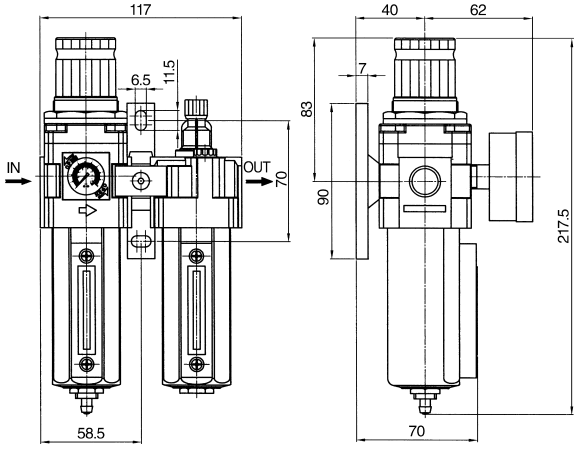
No	code	No	code	No	code
1	knob	15	cartridge	29	O ring
2	nut	16	baffle body	30	middle doom
3	screw	17	water cup	31	O –ring
4	regulator cover	18	guard cup	32	doom outer cover
5	regulator spring	19	O –ring	33	middle doom
6	diaphragm	20	drain doom	34	seals
7	O –ring	21	circlip	35	lubricator body
8	regulator core	22	drain nozzle	36	damping fin
9	regulator core washer	23	drain spring	37	bolt
10	filter regulator body	24	breaket	38	oil tube
11	O –ring	25	connecting block	39	oil cup
12	O –ring	26	O –ring	40	guard cup
13	regulator core spring	27	doom button	41	oil cup block
14	impeller	28	adjust pin	42	O –ring

Dimension(mm):

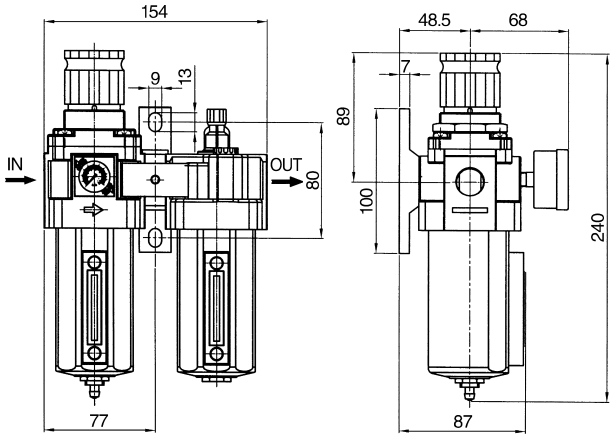
AC201A–01J、02J



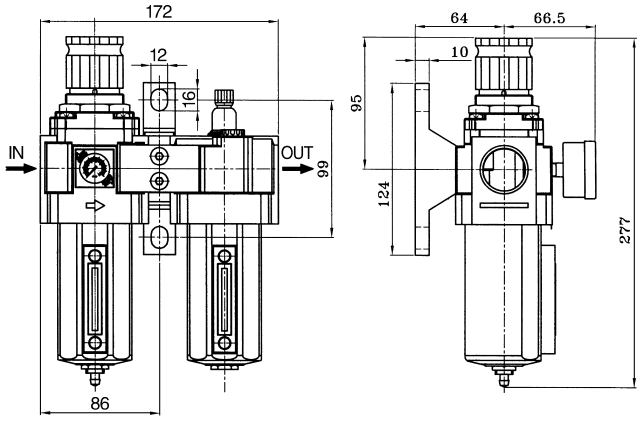
AC301A–02J、03J



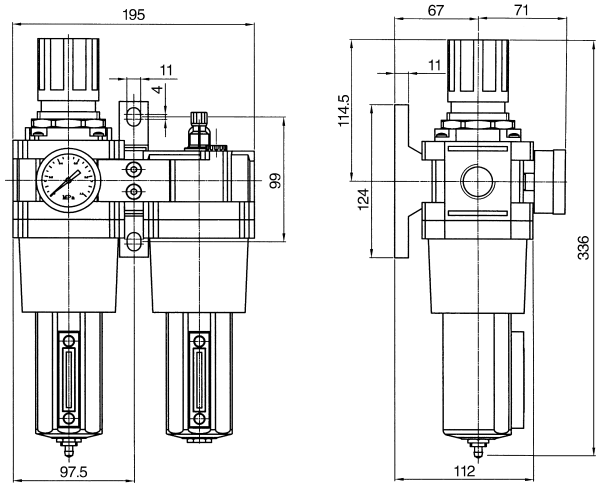
AC401A–03J、04J



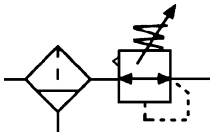
AC501A–06J、08J



AC601A–06J、08J



Filter Regulator



Specification:

Type	AW200A-01J,02J	AW300A-02J,03J	AW400A-03J,04J	AW500A-06J,08J	AW600A-06J,08J
Port size G	1/8" · 1/4"	1/4" · 3/8"	3/8" · 1/2"	3/4" · 1"	3/4" · 1"
Gauge thread G	1/8"		1/4"		
Fluid	Compressed Air				
Operating pressure range MPa	0.15~0.85				
Max.Flow rate L/min	500	1700	3000	5000	5000
Ambient temperature ℃	–10~60				
Filter precision	Standard：20 μ m				
Cup material	Metal				
Guard cup	●	●	●	●	●

Notes: The cups of AW200A,AW300A series can be optional

How to order:

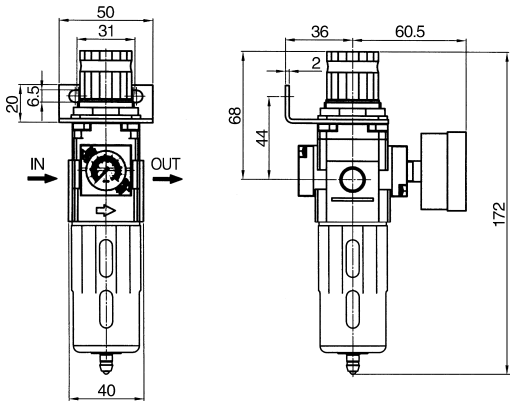
AW **500** **A** — **06** **J** **M** **D**

❶ ❷ ❸ ❹ ❺ ❻ ❼

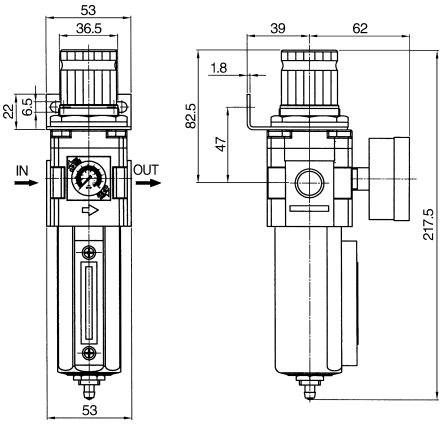
❶	AW Filter Regulator
❷	Type: 200,300,400,500,600
❸	A: Improved type ； Blank：Old type
❹	Port size：01:G1/8",02:G1/4",03:G3/8",04:G1/2",06:G3/4",08:G1"
❺	J: Metal bowl
❻	M：Embed square gauge；Blank：Round gauge
❼	□：Differential pressure drain，D：Auto–drain；

Dimension(mm):

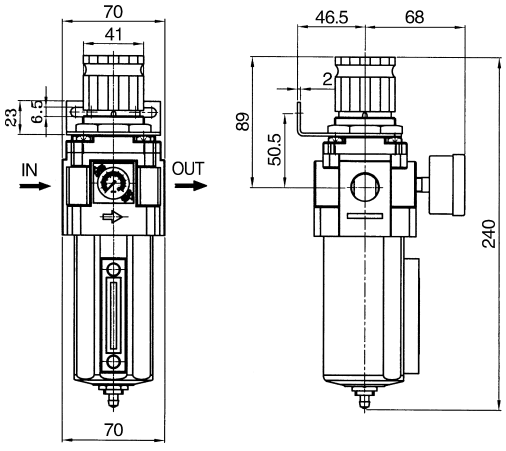
AW200A-01J、02J



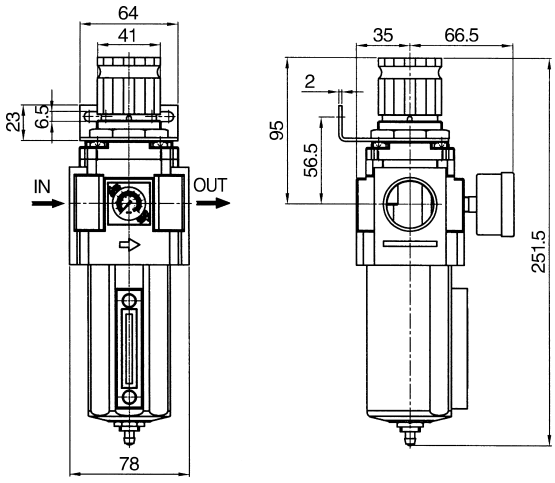
AW300A-02J、03J



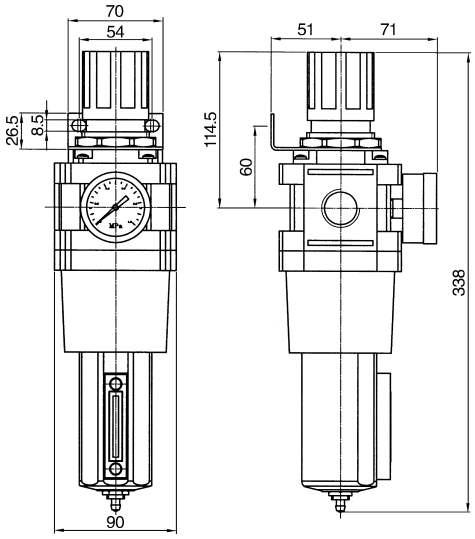
AW400A-03J、04J



AW500A-06J、08J

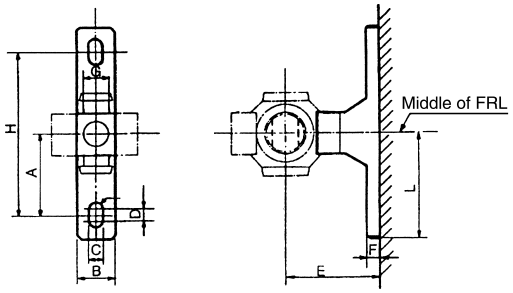


AW600A-06J、08J



Bracket

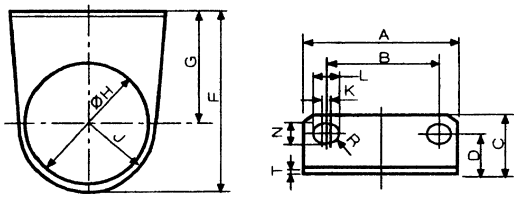
T type Bracket



Type	A	B	C	D	E	F	G	H	R	L	Applicable type
AC20T	24	15	5.5	3	30	5	10	48	2.75	33	AC200~AC201
AC30T	35	16	7	4	41	7	11	70	3.5	45	AC300~AC301
AC40T	40	22	9	4	50	7	14	80	4.5	50	AC400~AC401
AC50T	50	24	12	4	70	10	15	100	6.0	62.5	AC500~AC501

Y type Bracket

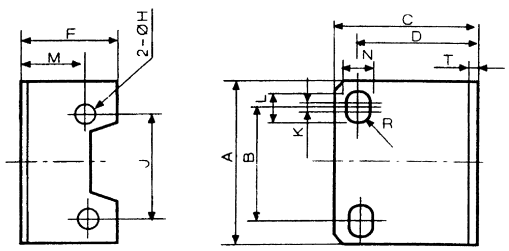
Applies to AR、AW Series



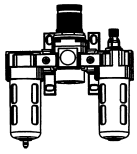
Type	A	B	C	D	F	G	H	J	K	L	N	R	T	Applicable type
AR20Y	50	35	20	12	50	36	30.5	15.3	2.3	8.7	5.4	3.2	2.3	AR/AW200
AR30Y	53	40	22	14	62	39	38.5	19.3	1.5	8	6.5	3.25	2.3	AR/AW300
AR40Y	70	54	27	18	75	49.2	42.5	21.3	2	10.5	8.5	4.25	2.3	AR/AW400
AR50Y	70	54	27	18	79.2	49.2	52.5	30	2	10.5	8.5	4.25	2.3	AR/AW500

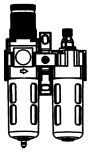
J type Bracket

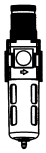
Applies to AF、AL Series



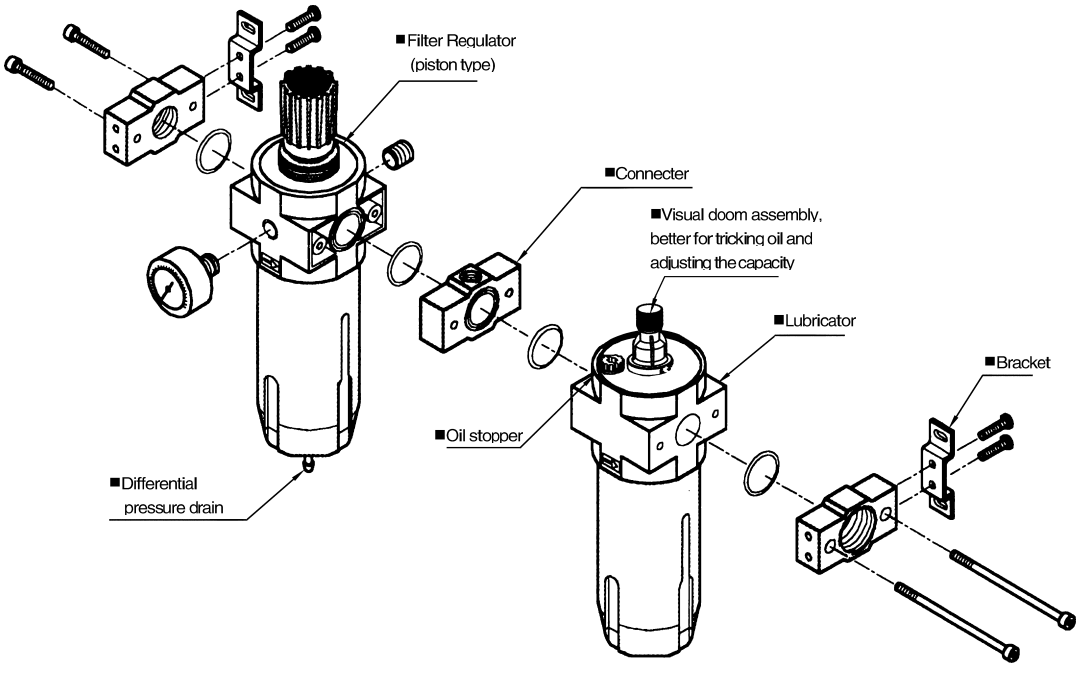
Type	A	B	C	D	F	H	J	K	L	M	N	R	T	Applicable type
AF20J	40	27	33	27	18	4.5	26	3	8.4	14	5.4	2.7	2.3	AF/AL200
AF30J	53	40	39	32	22.5	4.5	35	1.5	8	19	6.5	3.25	2.3	AF/AL300
AF40J	70	54	47	38	31.5	5.5	47	2	10.5	20	8.5	4.25	2.3	AF/AL400
AF50J	90	66	64	52	43	6.5	60	2	13	29	11	5.5	3.2	AF/AL500







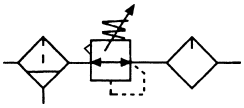
F.R.L assembled sketch:



Filter+Regulator+Lubricator

Specification:

Type	FRL-02	UFRL-02,02J	UFRL-03,03J	UFRL-04,04J	UFRL-06	UFRL-08
Port size G	1/4"	1/4"	3/8"	1/2"	3/4"	1"
Gauge thread G	1/4"					
Fluid	Compressed Air					
Operating pressure range MPa	0.15~0.85					
Max.Flow rate L/min	1800	2050		2500	7900	8100
Ambient temperature ℃	-10~60					
Filter precision	Standard: 20 μ m					
Oil recommended	ISO VG32					
Cup material	Polycarbonate					
Structure	Piston type					
Optional	-	●	●	●	●	●



How to order:

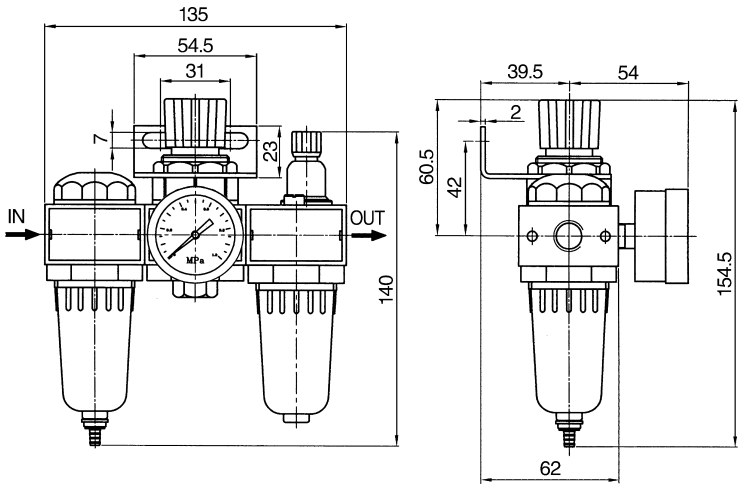
UFRL — 02 J D

1 2 3 4

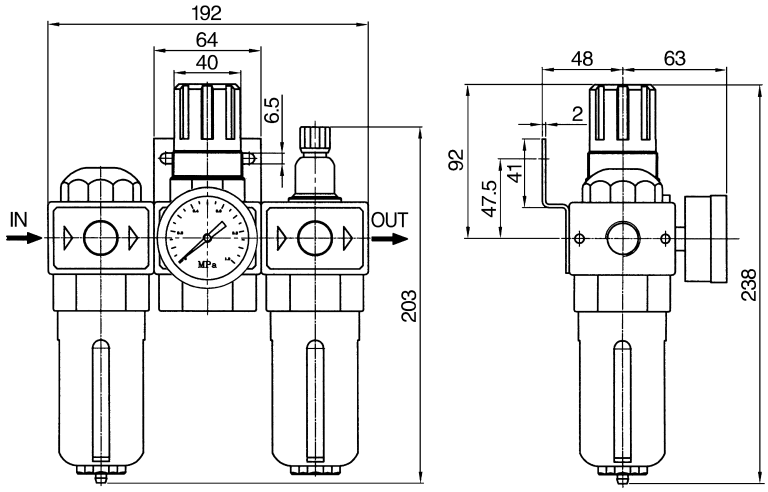
1	FRL、UFRL Filter+Regulator+Lubricator
2	Port size: 02:G1/4",03:G3/8", 04:G1/2",06:G3/4",08:G1"
3	J: Metal bowl
4	□: Differential pressure drain, D: Auto-drain;

Dimension(mm):

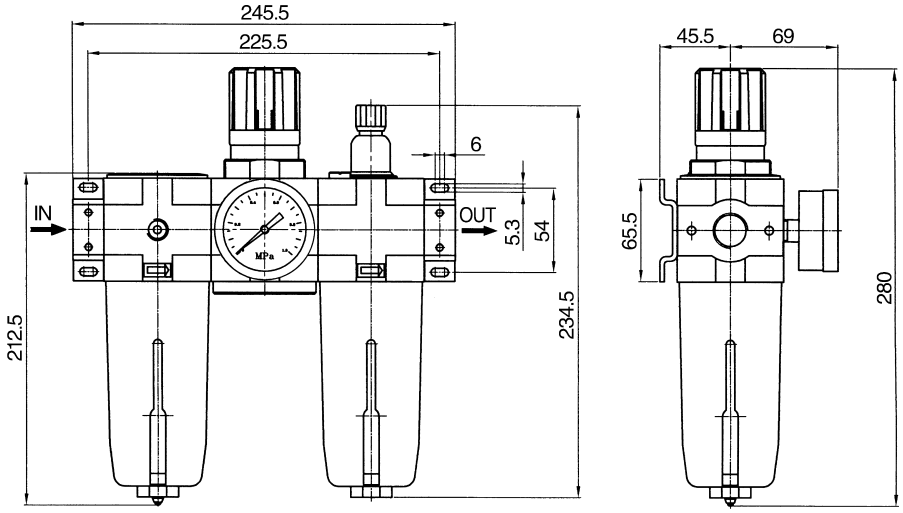
FRL–02



UFRL–02,03,04



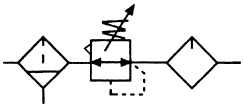
UFRL–06,08



Filter Regulator+Lubricator

Specification:

Type	FR/L-02	UFR/L-02,02J	UFR/L-03,03J	UFR/L-04,04J	UFR/L-06	UFR/L-08
Port size G	1/4"	1/4"	3/8"	1/2"	3/4"	1"
Gauge thread G	1/4"					
Fluid	Compressed Air					
Operating pressure range MPa	0.15~0.85					
Max.Flow rate L/min	1850	2050		2500	7900	8100
Ambient temperature ℃	-10~60					
Filter precision	Standard: 20 μ m					
Oil recommended	ISO VG32					
Cup material	Polycarbonate					
Structure	Piston type					
Optional	_	●	●	●	●	●



How to order:

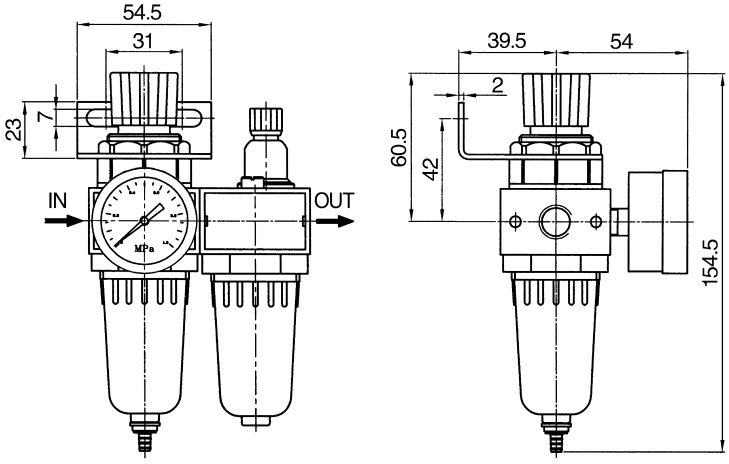
UFR/L — 02 J D

❶ ❷ ❸ ❹

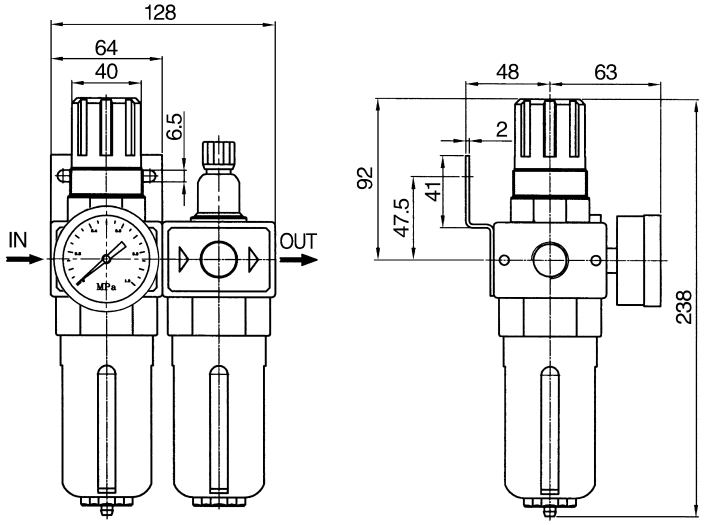
❶	FR/L、UFR/L Filter+Regulator+Lubricator
❷	Port size: 02:G1/4",03:G3/8", 04:G1/2",06:G3/4",08:G1"
❸	J: Metal bowl
❹	□: Differential pressure drain, D: Auto-drain;

Dimension(mm):

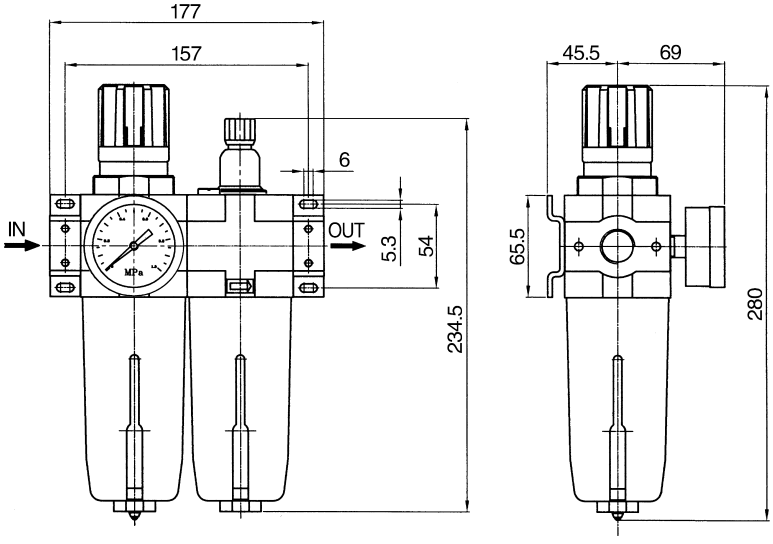
FR/L–02



UFR/L–02,03,04



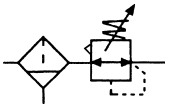
UFR/L–06,08



Filter Regulator

Specification:

Type	FR-02	UFR-02,02J	UFR-03,03J	UFR-04,04J	UFR-06	UFR-08
Port size G	1/4"	1/4"	3/8"	1/2"	3/4"	1"
Gauge thread G	1/4"					
Fluid	Compressed Air					
Operating pressure range MPa	0.15~0.85					
Max.Flow rate L/min	1850	2050		2500	7900	8100
Ambient temperature ℃	-10~60					
Filter precision	Standard: 20 μ m					
Cup material	Polycarbonate					
Structure	Piston type					
Optional	_	●	●	●	●	●



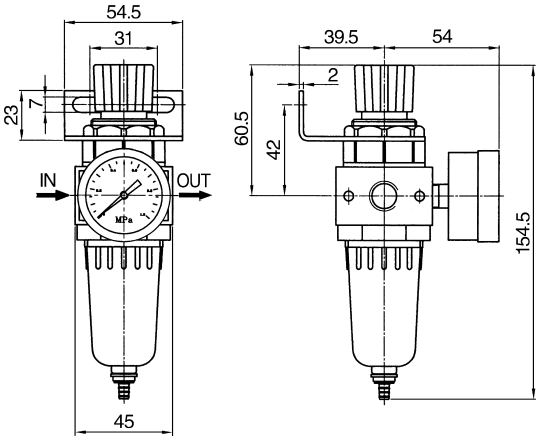
How to order:

UFR — 02 J D

❶ ❷ ❸ ❹

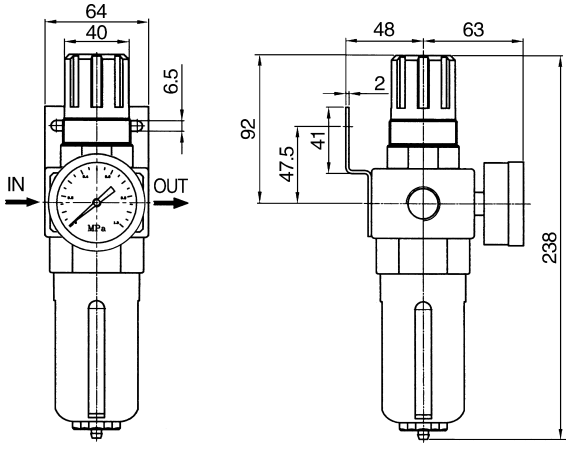
❶	FR Filter Regulator; UFR Filter Regulator
❷	Port size: 02:G1/4",03:G3/8", 04:G1/2",06:G3/4",08:G1"
❸	J: Metal bowl
❹	□: Differential pressure drain, D: Auto-drain;

■ FR-02

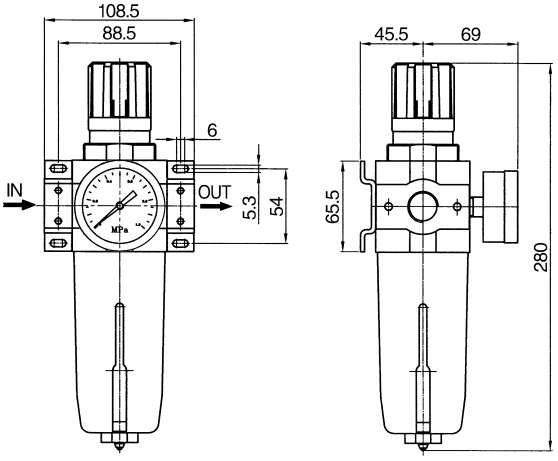


Dimension(mm):

■ UFR-02,03,04



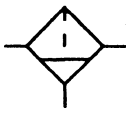
■ UFR-06,08



Filter

Specification:

Type	F-02	UF-02、02J	UF-03、03J	UF-04、04J	UF-06	UF-08
Port size G	1/4"	1/4"	3/8"	1/2"	3/4"	1"
Fluid	Compressed Air					
Operating pressure range MPa	0.15~0.85					
Max.Flow rate L/min	1850	2050		2500	7900	8100
Ambient temperature ℃	-10~60					
Filter precision	Standard: 20 μ m					
Cup material	Polycarbonate					
Optional	-	●	●	●	●	●



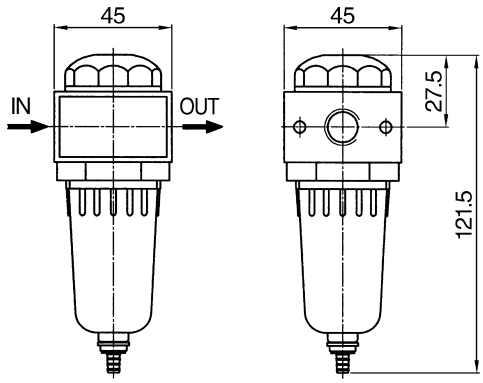
How to order:

UF — 02 J D

❶ ❷ ❸ ❹

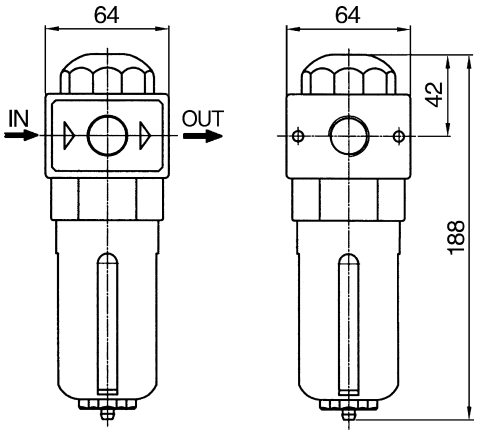
❶	F Filter; UF Filter
❷	Port size: 02:G1/4",03:G3/8", 04:G1/2",06:G3/4",08:G1"
❸	J: Metal bowl
❹	□: Differential pressure drain, D: Auto-drain;

■ F-02

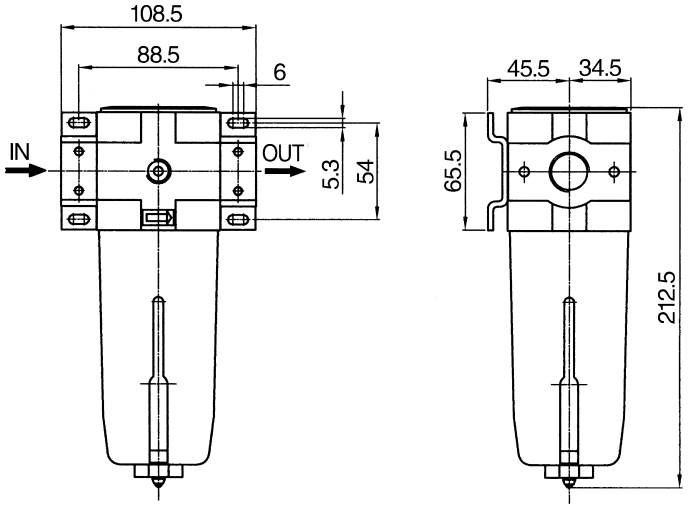


Dimension(mm):

■ UF-02,03,04



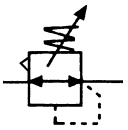
■ UF-06,08



Regulator

Specification:

Type	R-02	UR-02	UR-03	UR-04	UR-06	UR-08
Port size G	1/4"	1/4"	3/8"	1/2"	3/4"	1"
Gauge thread G	1/4"					
Fluid	Compressed Air					
Operating pressure range MPa	0.1~0.85					
Max.Flow rate L/min	1546	2050		2500	7900	8100
Ambient temperature ℃	-10~60					
Structure	Piston type					



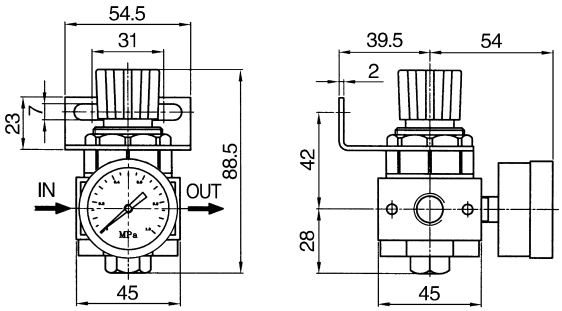
How to order:

UR — 02

❶ ❷

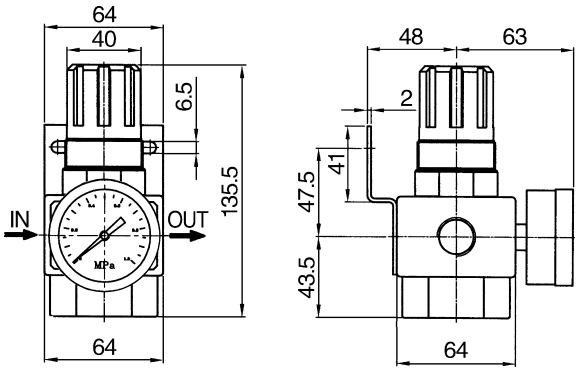
❶	R Regulator; UR Regulator
❷	Port size：02:G1/4",03:G3/8",04:G1/2",06:G3/4",08:G1"

■ R-02

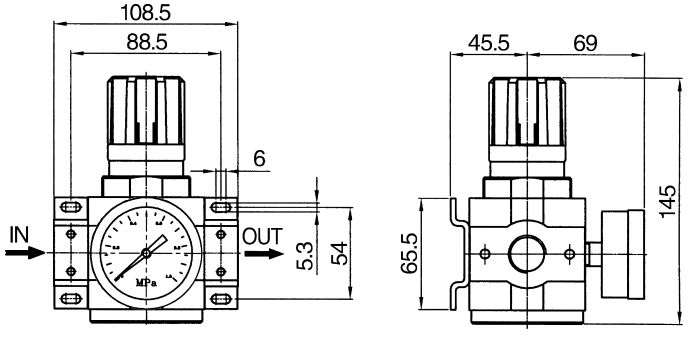


Dimension(mm):

■ UR-02,03,04



■ UR-06,08



Lubricator

Specification:

Type	L-02	UL-02,02J	UL-03,03J	UL-04,04J	UL-06	UL-08
Port size G	1/4"	1/4"	3/8"	1/2"	3/4"	1"
Fluid	Compressed Air					
Operating pressure range MPa	0.15~0.85					
Max.Flow rate L/min	1850	2050		2500	7900	8100
Ambient temperature ℃	-10~60					
Oil recommended	ISO VG32					
Cup material	Polycarbonate					
Guard cup	–	●	●	●	●	●

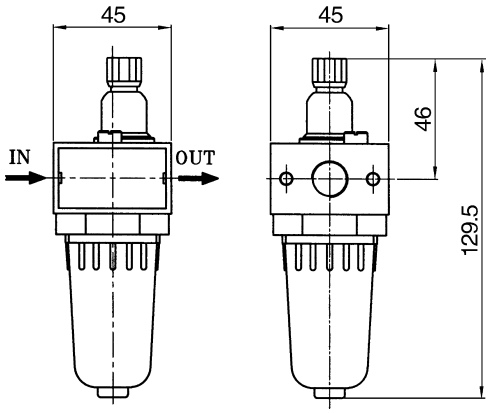
How to order:

UL — 02 J

❶ ❷ ❸

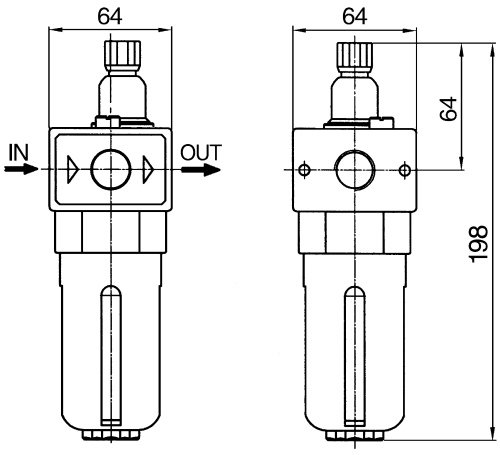
❶	L Lubricator; UL Lubricator
❷	Port size: 02:G1/4",03:G3/8", 04:G1/2",06:G3/4",08:G1"
❸	J: Metal bowl

■ L-02

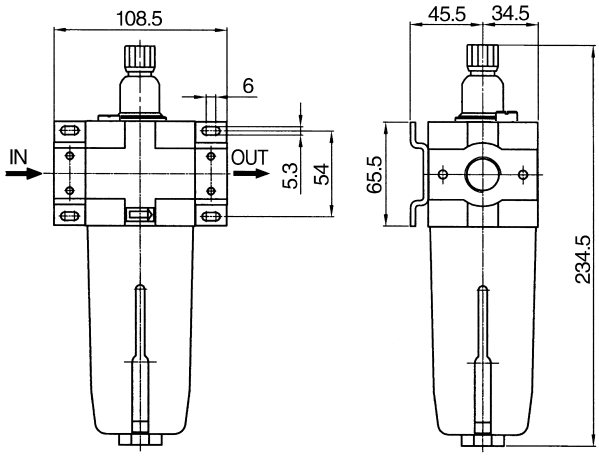


Dimension(mm):

■ UL-02,03,04



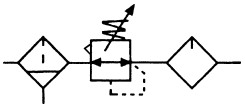
■ UL-06,08



Filter+Regulator+Lubricator

Specification:

Type	UFRLH-02	UFRLH-03	UFRLH-04	UFRLH-06	UFRLH-08
Port size G	1/4"	3/8"	1/2"	3/4"	1"
Gauge thread G	1/4"				
Fluid	Compressed Air				
Operating pressure range MPa	0.15~1.6				
Max.Flow rate L/min	2050		2500	7900	8100
Ambient temperature ℃	-10~60				
Filter precision	Standard: 20 μ m				
Oil recommended	ISO VG32				
Cup material	Polycarbonate				
Structure	Piston type				
Optional	●				



How to order:

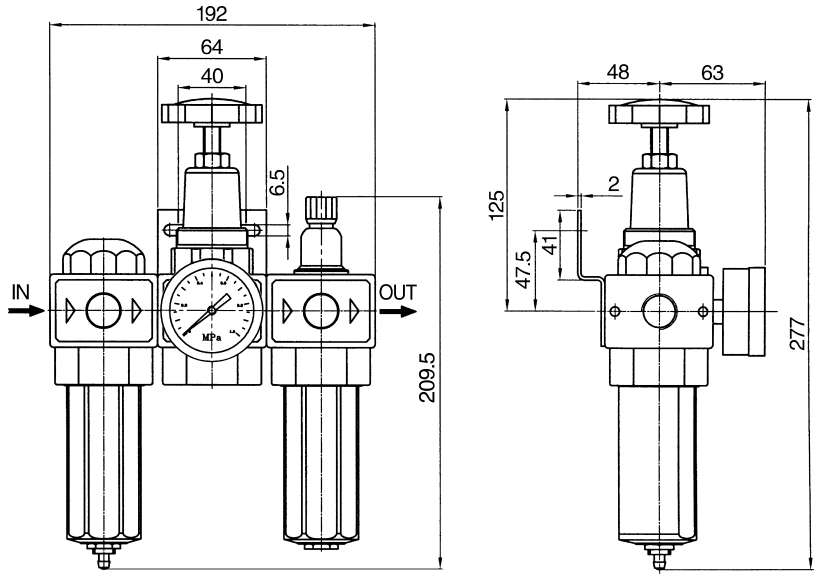
UFRLH — 02 D

❶ ❷ ❸

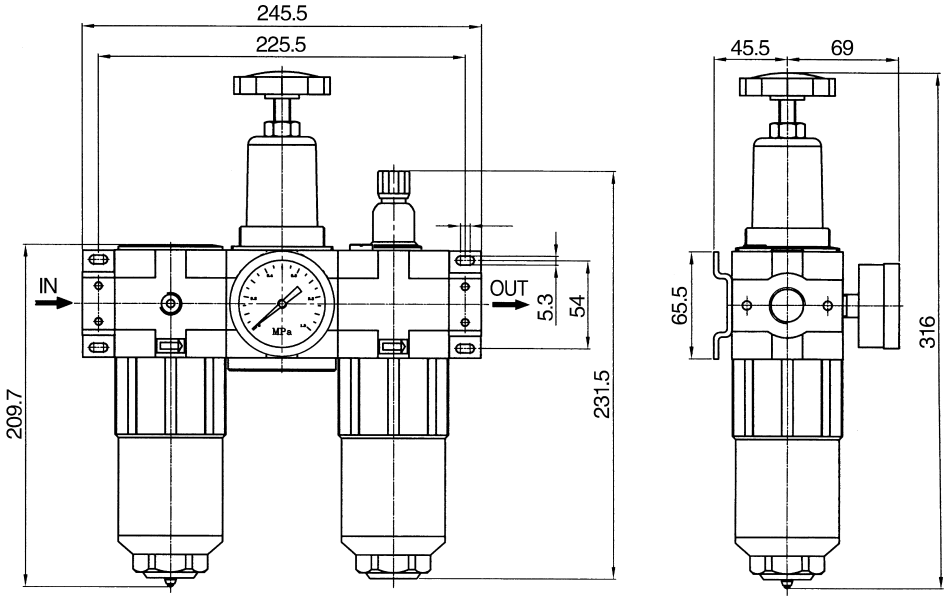
❶	UFRLH Filter+Regulator+Lubricator
❷	Port size: 02:G1/4",03:G3/8", 04:G1/2",06:G3/4",08:G1"
❸	□: Differential pressure drain, D: Auto-drain;

Dimension(mm):

UFRLH–02,03,04



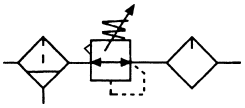
UFRLH–06,08



Filter Regulator+Lubricator

Specification:

Type	UFR/LH-02	UFR/LH-03	UFR/LH-04	UFR/LH-06	UFR/LH-08
Port size G	1/4"	3/8"	1/2"	3/4"	1"
Gauge thread G	1/4"				
Fluid	Compressed Air				
Operating pressure range MPa	0.15~1.6				
Max.Flow rate L/min	2050		2500	7900	8100
Ambient temperature ℃	-10~60				
Filter precision	Standard: 20 μ m				
Oil recommended	ISO VG32				
Cup material	Polycarbonate				
Structure	Piston type				
Optional	●				



How to order:

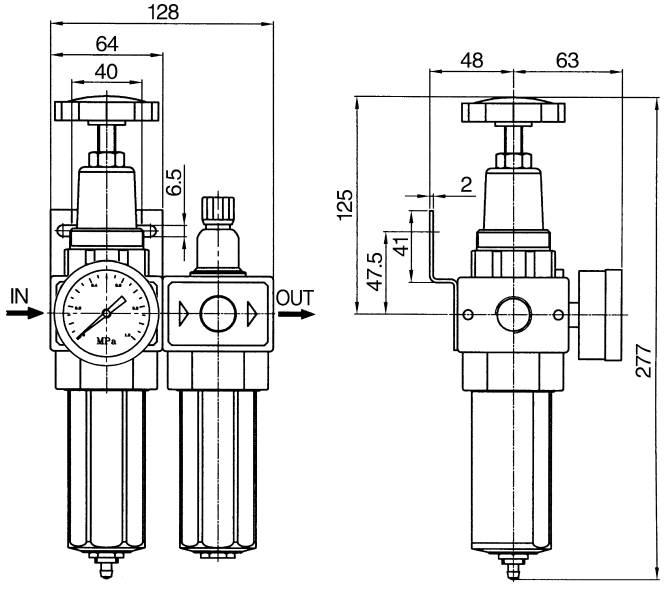
UFR/LH — 02 D

❶ ❷ ❸

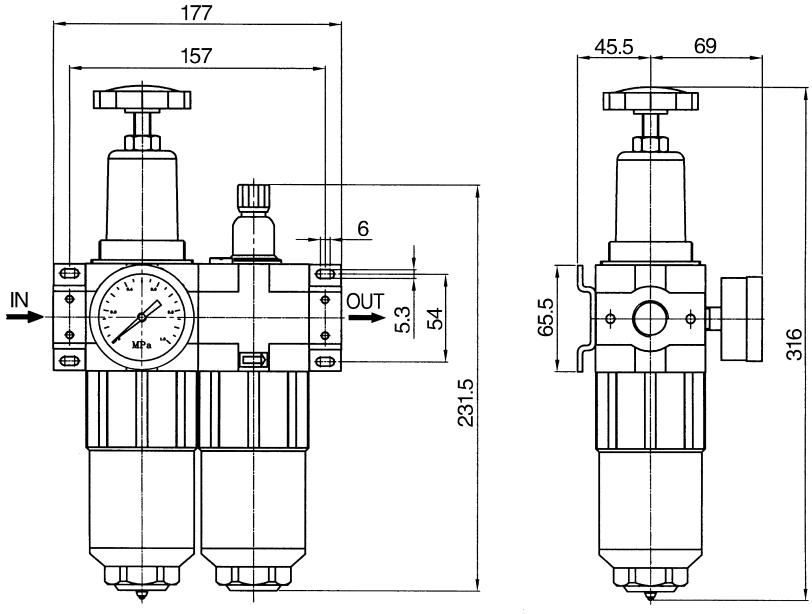
❶	UFR/LH Filter Regulator+Lubricator
❷	Port size: 02:G1/4",03:G3/8", 04:G1/2",06:G3/4",08:G1"
❸	□: Differential pressure drain, D: Auto-drain;

Dimension(mm):

UFR/LH–02,03,04



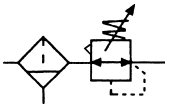
UFR/LH–06,08



Filter Regulator

Specification:

Type	UFRH-02	UFRH-03	UFRH-04	UFRH-06	UFRH-08
Port size G	1/4"	3/8"	1/2"	3/4"	1"
Gauge thread G	1/4"				
Fluid	Compressed Air				
Operating pressure range MPa	0.15~1.6				
Max.Flow rate L/min	2050		2500	7900	8100
Ambient temperature ℃	-10~60				
Filter precision	Standard: 20 μ m				
Cup material	Polycarbonate				
Structure	Piston type				
Optional	●				



How to order:

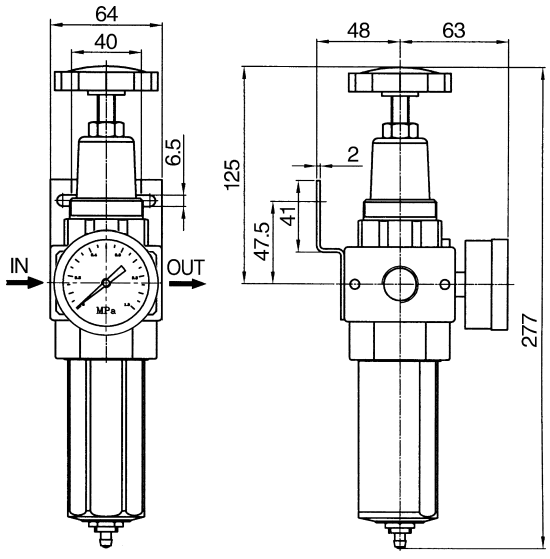
UFRH — 02 D

❶ ❷ ❸

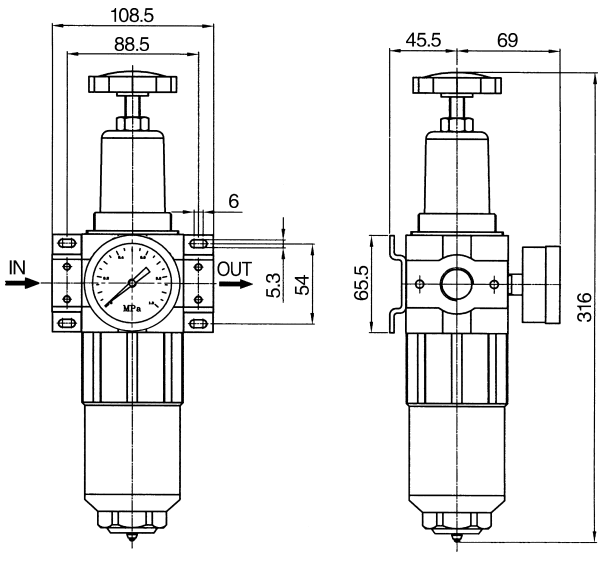
❶	UFRH Filter Regulator
❷	Port size: 02:G1/4",03:G3/8", 04:G1/2",06:G3/4",08:G1"
❸	□: Differential pressure drain, D: Auto-drain;

Dimension(mm):

■ UFRH-02,03,04



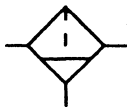
■ UFRH-06,08



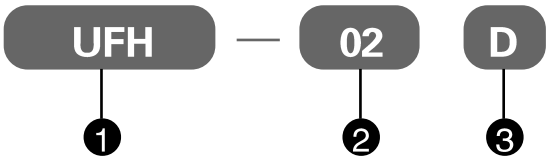
Filter

Specification:

Type	UFH-02	UFH-03	UFH-04	UFH-06	UFH-08
Port size G	1/4"	3/8"	1/2"	3/4"	1"
Fluid	Compressed Air				
Operating pressure range MPa	0.15~1.6				
Max.Flow rate L/min	2050		2500	7900	8100
Ambient temperature ℃	-10~60				
Filter precision	Standard: 20 μ m				
Cup material	Polycarbonate				
Optional	●				



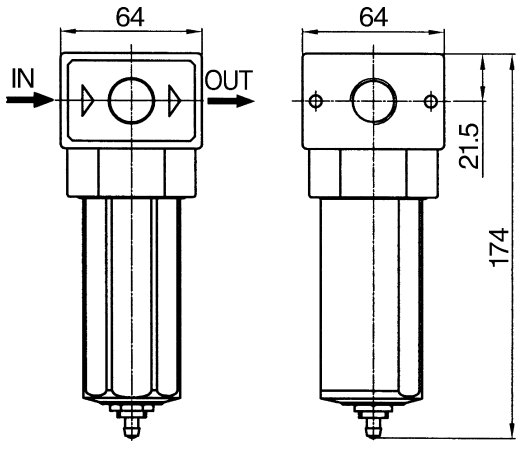
How to order:



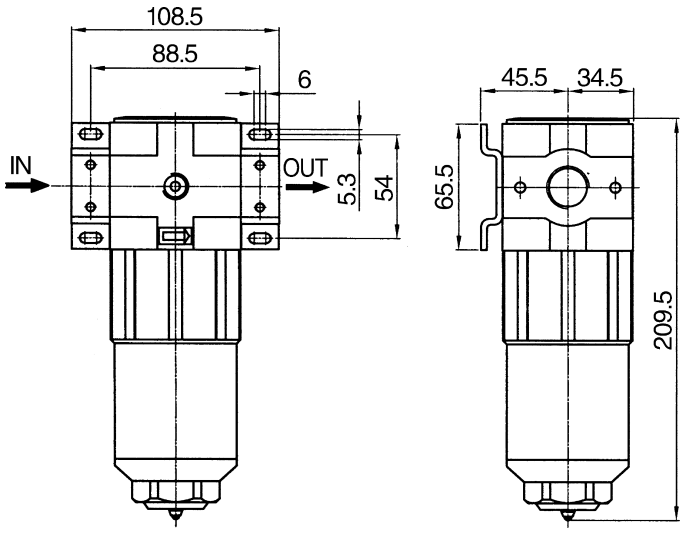
❶	UFH Filter
❷	Port size: 02:G1/4",03:G3/8", 04:G1/2",06:G3/4",08:G1"
❸	□: Differential pressure drain, D: Auto-drain;

Dimension(mm):

■ UFH-02,03,04

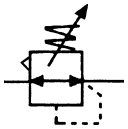


■ UFH-06,08



Regulator

Specification:



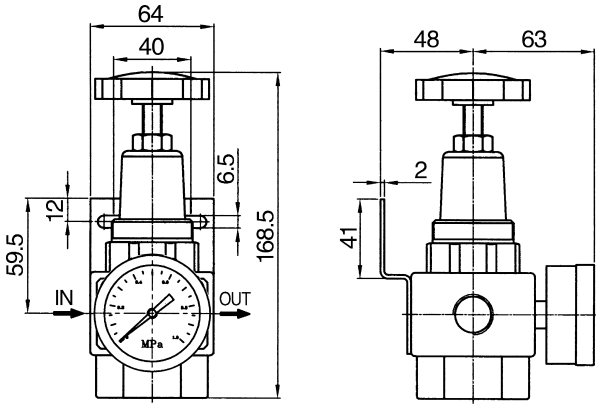
Type	URH-02	URH-03	URH-04	URH-06	URH-08
Port size G	1/4"	3/8"	1/2"	3/4"	1"
Gauge thread G	1/4"				
Fluid	Compressed Air				
Operating pressure range MPa	0.1~1.6				
Max.Flow rate L/min	2050		2500	7900	8100
Ambient temperature ℃	-10~60				
Filter precision	Piston type				

How to order:

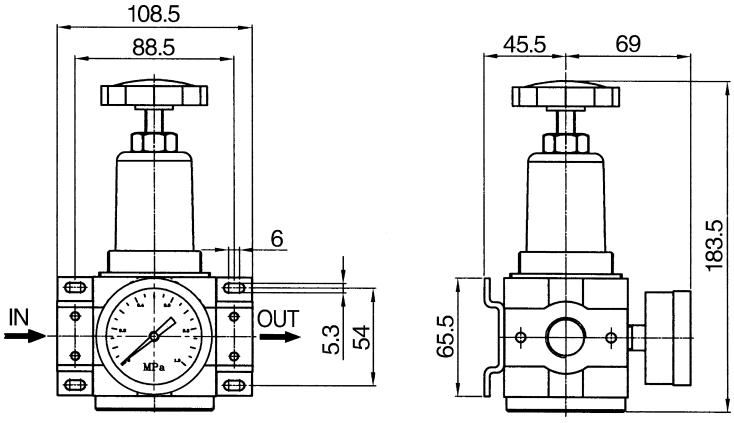
❶	URH Regulator
❷	Port size：02:G1/4",03:G3/8",04:G1/2",06:G3/4",08:G1"

Dimension(mm):

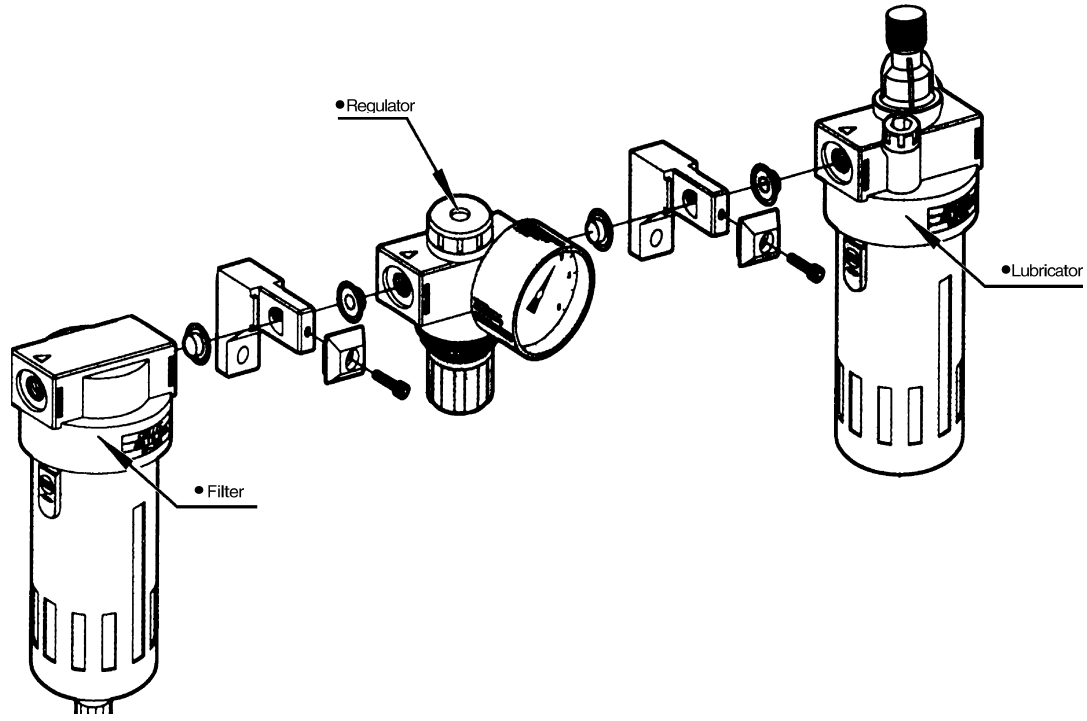
■ URH-02,03,04



■ URH-06,08



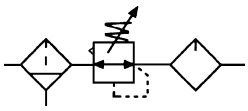
AC、BC assembled sketch：



Filter+Regulator+Lubricator

Specification:

Type	AC2000A	BC2000A	BC3000A	BC4000A
Port size G	1/4"	1/4"	3/8"	1/2"
Gauge thread G	1/8"			
Fluid	Compressed Air			
Filter precision	Standard：20 μ m			
Operating pressure range MPa	0.15~0.85			
Max.Flow rate L/min	700	1400		
Ambient temperature ℃	–10~60			
Oil recommended	ISO VG32			
Optional	–	●	●	●

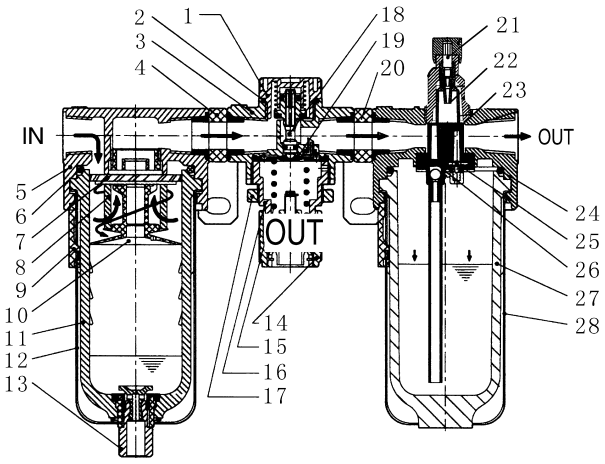


How to order:

AC ❶ 2000 ❷ A ❸ D ❹

❶	AC、BC Filter+Regulator+Lubricator
❷	2000:G1/4",3000:G3/8",4000:G1/2"
❸	A: Improved type ； Blank：Old type
❸	□：Differential pressure drain，D：Auto–drain；

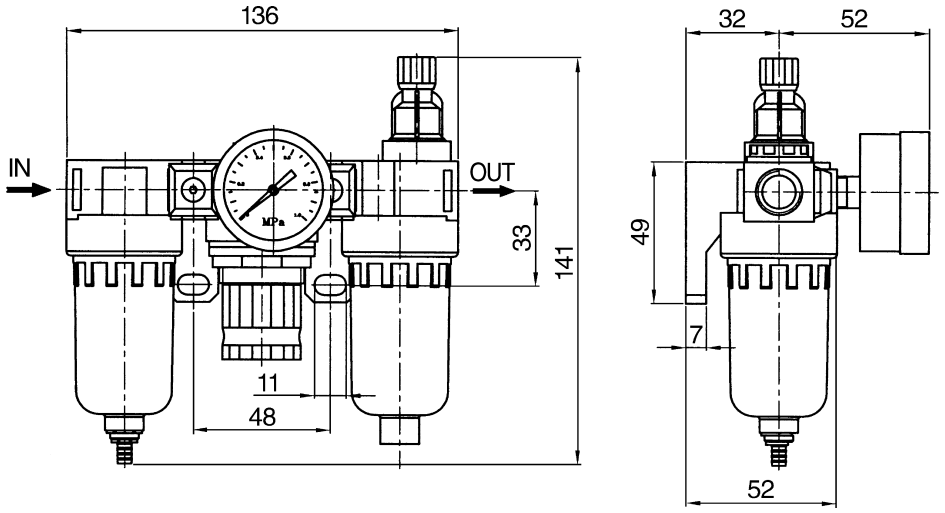
Inner structure drawing:



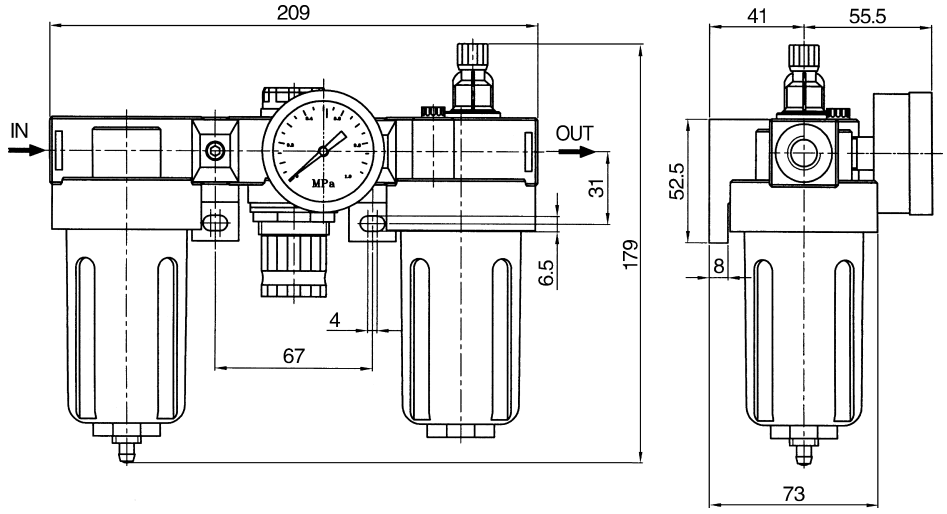
No	code	No	code
1	pressure nut	15	regulator spring
2	O –ring	16	regulator basic
3	regulator body	17	fixed ring
4	connecting block	18	straight bar
5	filter body	19	diaphragm
6	O –ring	20	connecting block
7	rotated ring	21	oil adjuster
8	cartridge	22	doom subassembly
9	press–button	23	toggle piece
10	cartridge basic	24	O –ring
11	P C cup	25	stop–back valve
12	guard cup	26	filter
13	drain	27	P C cup
14	regulator screw cap	28	guard cup

Dimension(mm):

AC Series



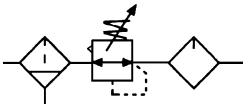
BC Series



Filter Regulator+Lubricator

Specification:

Type	AFC2000A	BFC2000A	BFC3000A	BFC4000A
Port size G	1/4"	1/4"	3/8"	1/2"
Gauge thread G	1/8"			
Fluid	Compressed Air			
Filter precision	Standard：20 μ m			
Operating pressure range MPa	0.15~0.85			
Max.Flow rate L/min	700	1400		
Ambient temperature ℃	–10~60			
Oil recommended	ISO VG32			
Optional	_	●	●	●

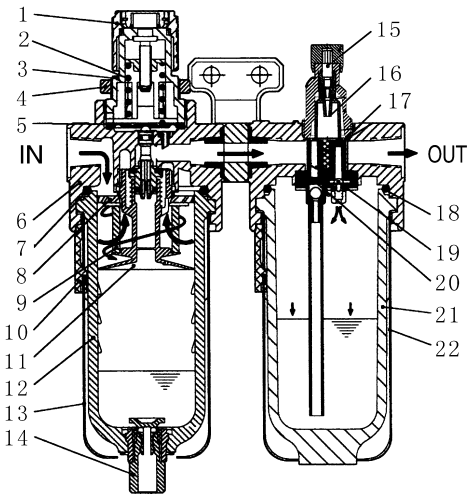


How to order:

AFC ❶ 2000 ❷ A ❸ D ❹

❶	AFC、BFC Filter Regulator+Lubricator
❷	2000:G1/4",3000:G3/8",4000:G1/2"
❸	A: Improved type ； Blank：Old type
❹	□：Differential pressure drain，D：Auto–drain；

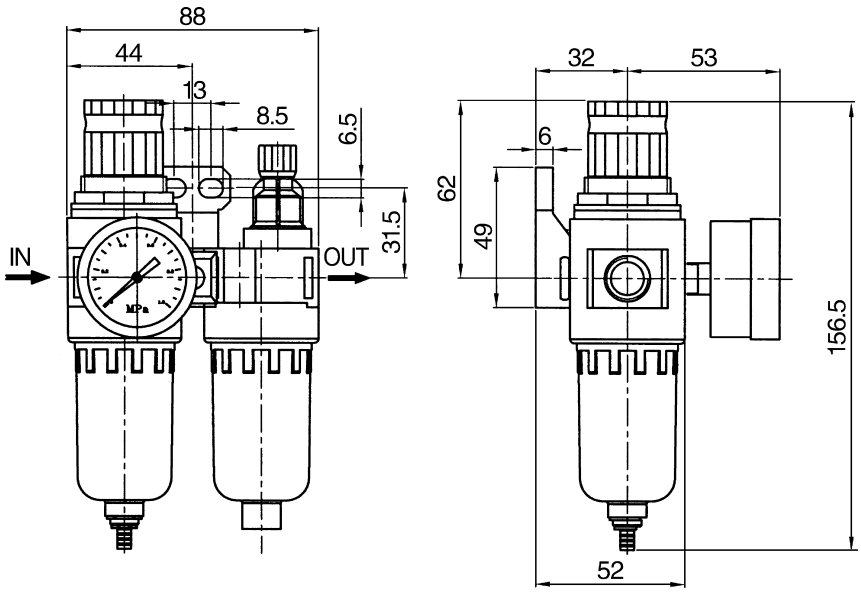
Inner structure drawing:



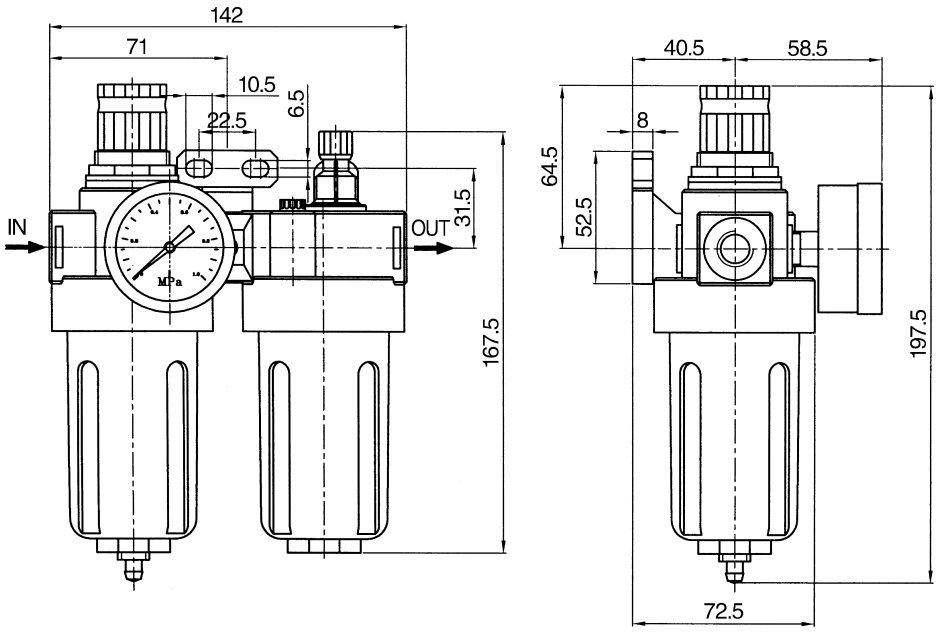
No	code	No	code
1	pressure nut	12	P C cup
2	regulator spring	13	guard cup
3	regulator basic	14	drain
4	fixed ring	15	oil adjuster
5	diaphragm	16	doom subassembly
6	filter regulator body	17	toggle piece
7	O –ring	18	O –ring
8	block ring	19	stop–back valve
9	cartridge	20	rotated ring
10	press–button	21	P C cup
11	cartridge basic	22	guard cup

Dimension(mm):

AFC Series



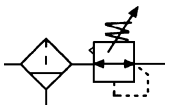
BFC Series



Filter Regulator

Specification:

Type	AFR2000A	BFR2000A	BFR3000A	BFR4000A
Port size G	1/4"	1/4"	3/8"	1/2"
Gauge thread G	1/8"			
Fluid	Compressed Air			
Filter precision	Standard: 20 μ m			
Operating pressure range MPa	0.15~0.85			
Max.Flow rate L/min	650	1400		
Ambient temperature ℃	-10~60			
Optional	_	●	●	●



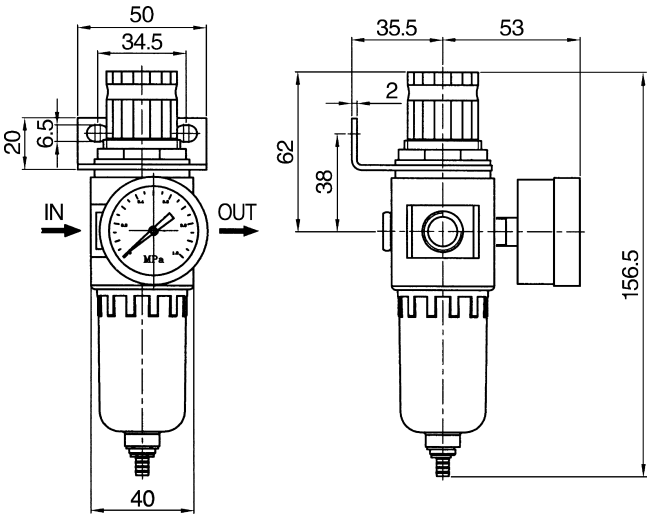
How to order:

AFR ❶ 2000 ❷ A ❸ D ❹

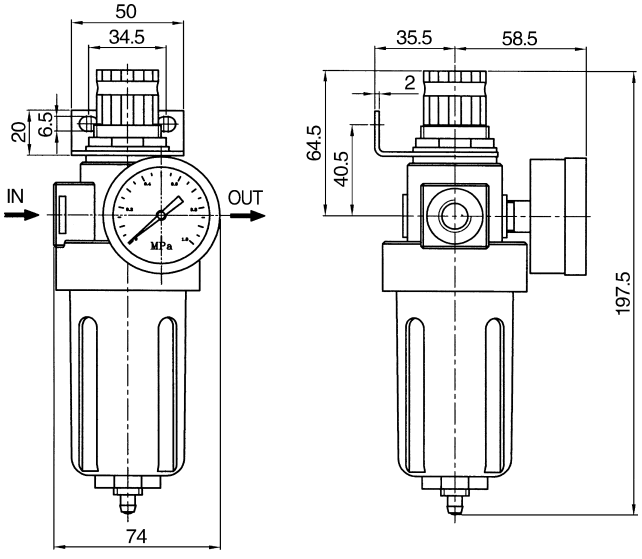
❶	AFR/BFR: Filter Regulator
❷	2000:G1/4",3000:G3/8",4000:G1/2"
❸	A: Improved type ; Blank: Old type
❹	□: Differential pressure drain, D: Auto-drain;

Dimension(mm):

AFR Series



BFR Series

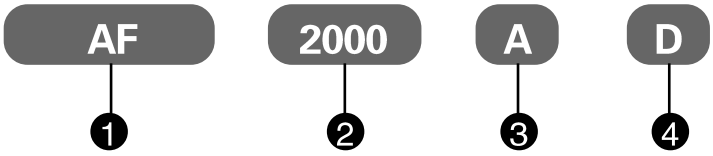


Filter

Specification:

Type	AF2000A	BF2000A	BF3000A	BF4000A
Port size G	1/4"	1/4"	3/8"	1/2"
Fluid	Compressed Air			
Filter precision	Standard：20 μ m			
Operating pressure range MPa	0.15~0.85			
Max.Flow rate L/min	650	1400		
Ambient temperature ℃	–10~60			
Optional	–	●	●	●

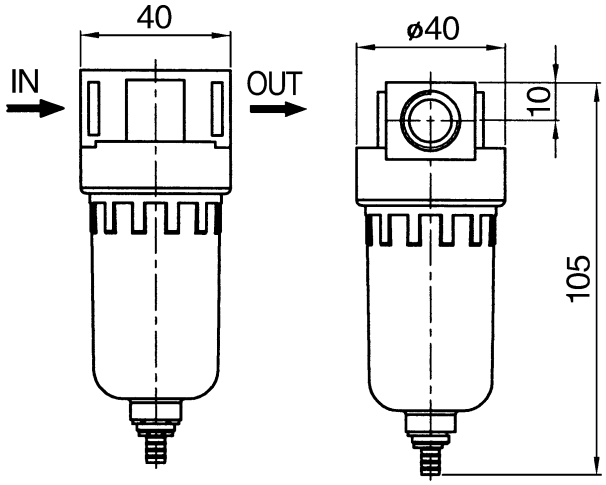
How to order:



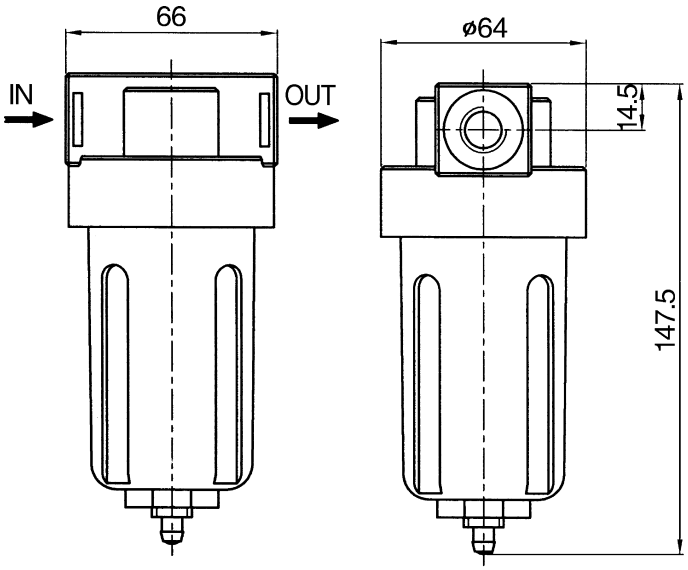
❶	AF/BF：Filter
❷	2000:G1/4",3000:G3/8",4000:G1/2"
❸	A: Improved type ； Blank：Old type
❹	□：Differential pressure drain，D：Auto–drain；

Dimension(mm):

■ AF Series

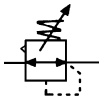


■ BF Series



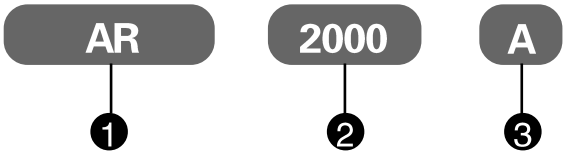
Regulator

Specification:



Type	AR2000A	BR2000A	BR3000A	BR4000A
Port size G	1/4"	1/4"	3/8"	1/2"
Gauge thread G	1/8"			
Fluid	Compressed Air			
Operating pressure range MPa	0.1~0.85			
Max.Flow rate L/min	650	1400		
Ambient temperature ℃	-10~60			

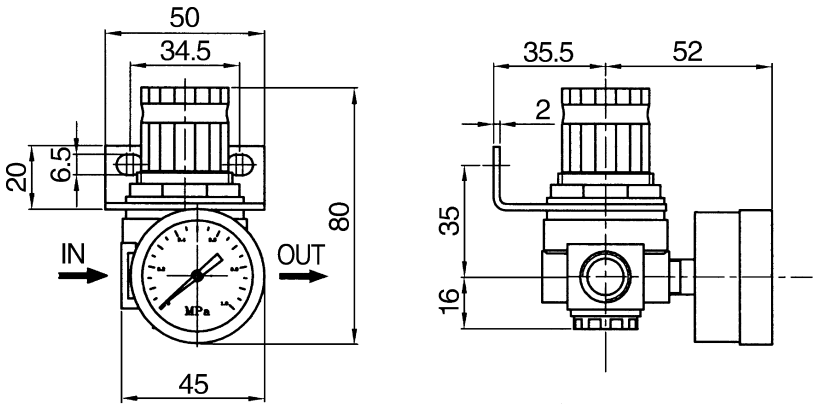
How to order:



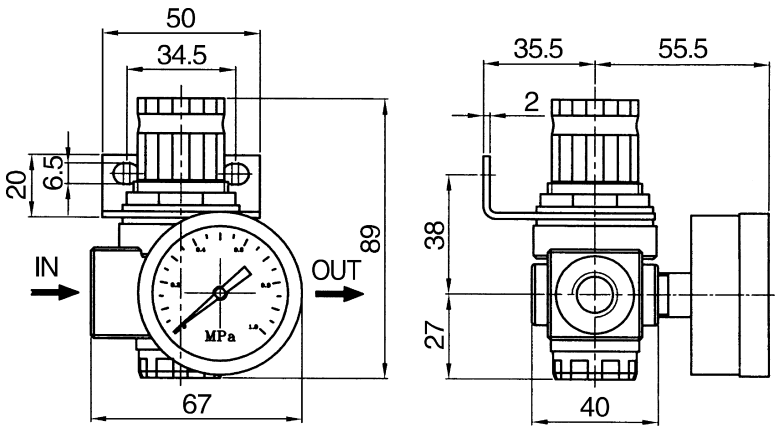
❶	AR/BR: Regulator
❷	2000:G1/4",3000:G3/8",4000:G1/2"
❸	A: Improved type ; Blank: Old type

Dimension(mm):

■ AR Series



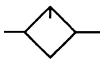
■ BR Series



Lubricator

Specification:

Type	AL2000A	BL2000A	BL3000A	BL4000A
Port size G	1/4"	1/4"	3/8"	1/2"
Fluid	Compressed Air			
Operating pressure range MPa	0.15~0.85			
Max.Flow rate L/min	650	1400		
Ambient temperature ℃	-10~60			
Oil recommended	ISO VG32			
Optional	-	●	●	●



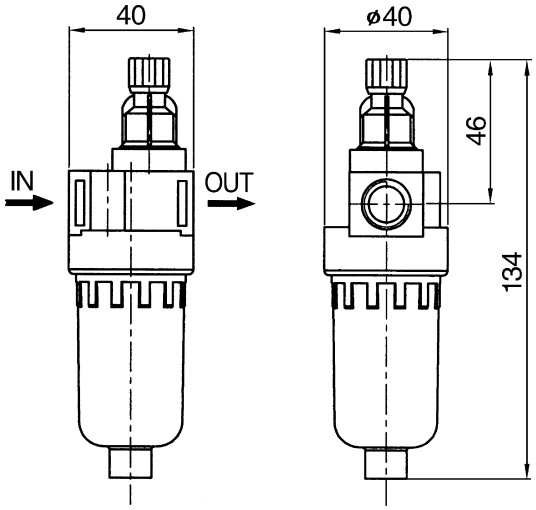
How to order:

AL ❶ 2000 ❷ A ❸

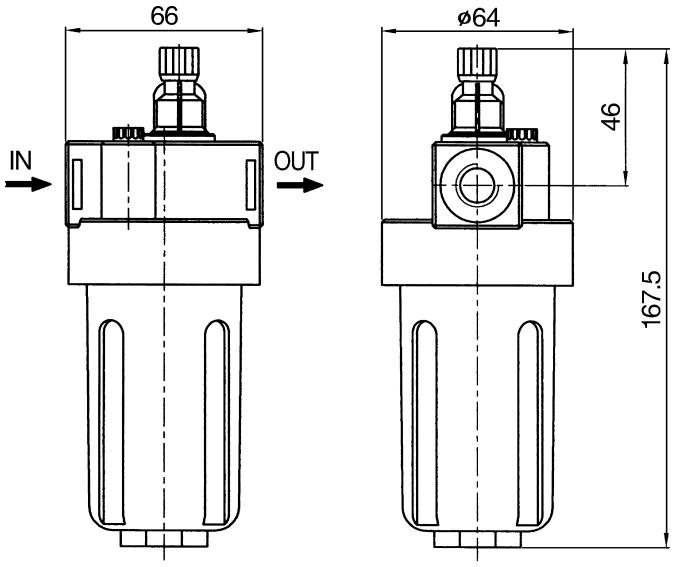
❶	AL/BL: Lubricator
❷	2000:G1/4",3000:G3/8",4000:G1/2"
❸	A: Improved type ; Blank: Old type

Dimension(mm):

■ AL Series



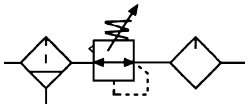
■ BL Series



Filter Regulator+Lubricator

Specification:

Type	QFC200-02
Port size G	1/4"
Fluid	Compressed Air
Filter precision	Standard: 20 μ m
Operating pressure range MPa	0.15~1
Max.Flow rate L/min	800
Ambient temperature ℃	-10~60
Oil recommended	ISOVG32

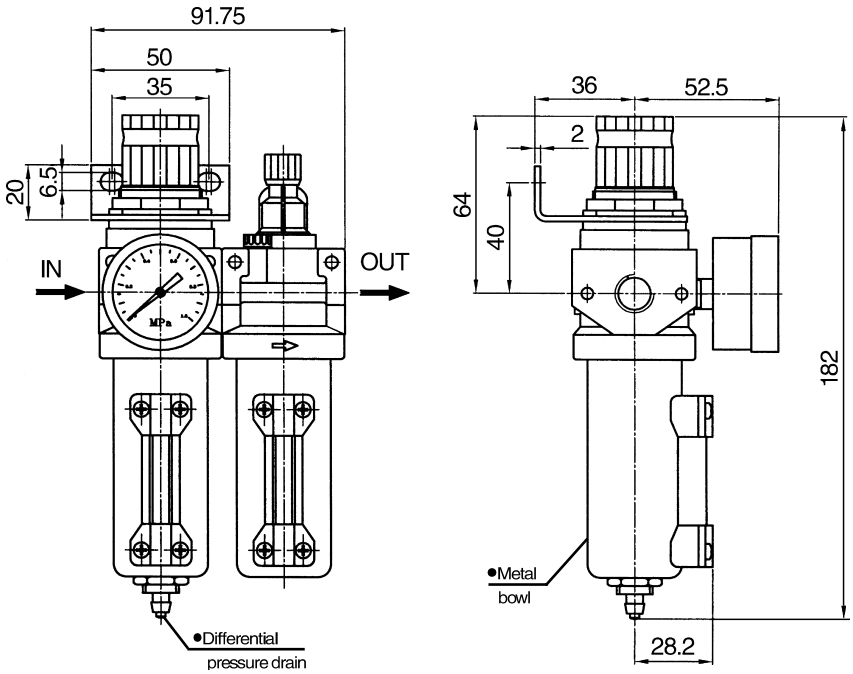


How to order:

QFC ❶ 200 ❷ — 02 ❷

❶	QFC: Filter Regulator+Lubricator
❷	Type: 200
❸	Port size: 02: G1/4"

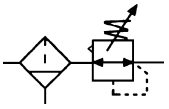
Dimension(mm):



Filter Regulator

Specification:

Type	QFR200-02
Port size G	1/4"
Gauge thread G	1/8"
Fluid	Compressed Air
Filter precision	Standard: 20 μ m
Operating pressure range MPa	0.15~1
Max.Flow rate L/min	800
Ambient temperature ℃	-10~60
Oil recommended	ISOVG32

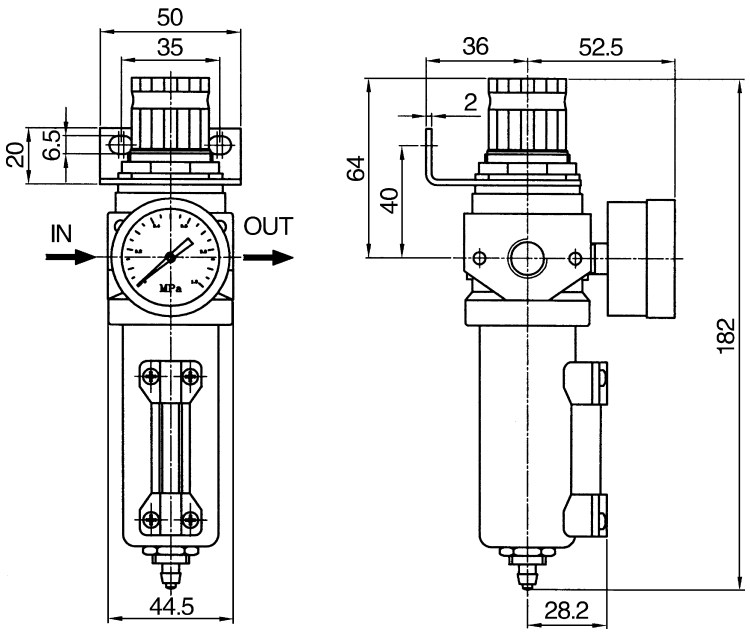


How to order:

QFR ❶ 200 ❷ – 02 ❸

❶	QFR: Filter Regulator
❷	Type: 200
❸	Port size: 02: G1/4"

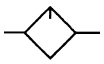
Dimension(mm):



Lubricator

Specification:

Type	QL200–02
Port size G	1/4"
Fluid	Compressed Air
Filter precision	Standard：20 μ m
Operating pressure range MPa	0.15~1
Max.Flow rate L/min	800
Ambient temperature ℃	–10~60
Oil recommended	ISOVG32

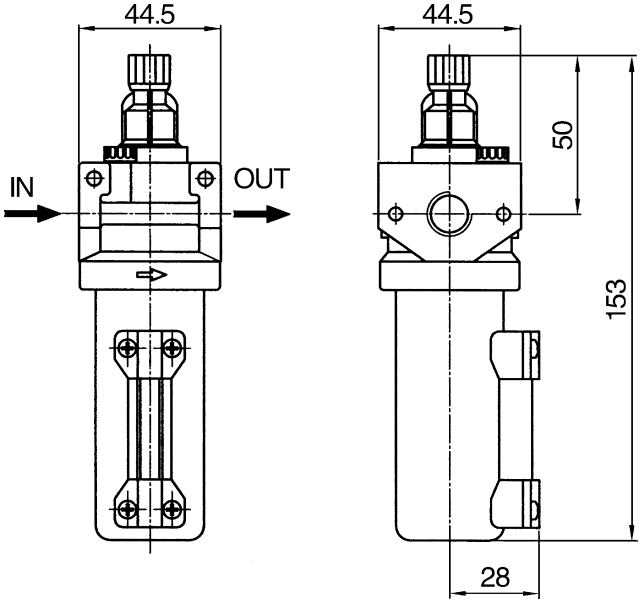


How to order:

QL ❶ 200 ❷ – 02 ❸

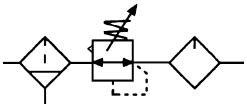
❶	QL：Lubricator
❷	Type：200
❸	Port size：02: G1/4"

Dimension(mm):



Filter Regulator+Lubricator

Specification:

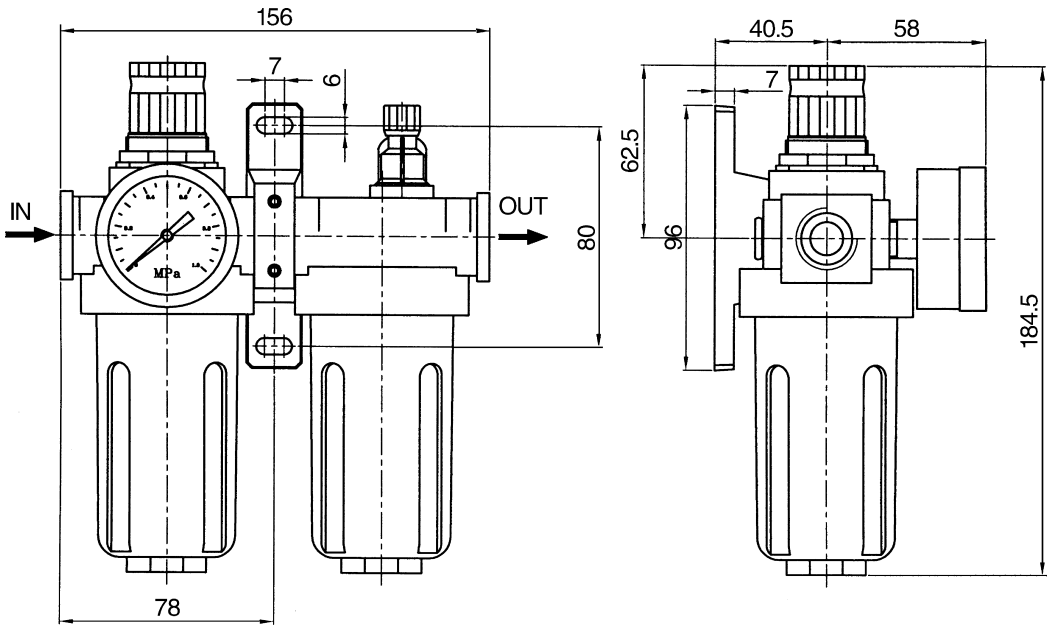


Type	SFC-02	SFC-03	SFC-04
Port size G	1/4"	3/8"	1/2"
Gauge thread G	1/8"		
Fluid	Compressed Air		
Filter precision	Standard: 20 μ m		
Operating pressure range MPa	0.15~0.85		
Max.Flow rate L/min	650	1400	
Ambient temperature ℃	-10~60		
Oil recommended	ISO VG32		

How to order:

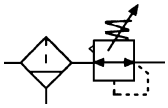
❶	SFC: Filter Regulator+Lubricator
❷	Port size: 02: G1/4";03:G3/8";04:G1/2"

Dimension(mm):



Filter Regulator

Specification:

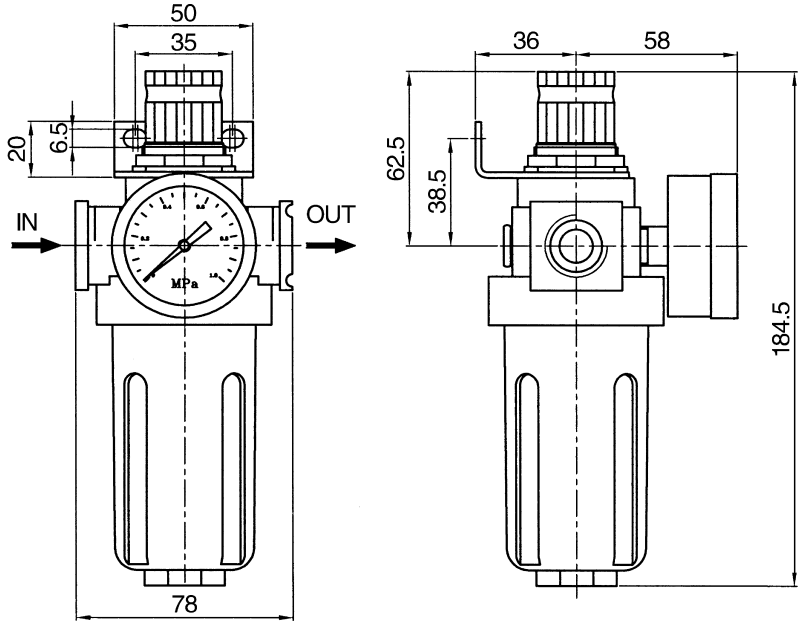


Type	SFR-02	SFR-03	SFR-04
Port size G	1/4"	3/8"	1/2"
Gauge thread G	1/8"		
Fluid	Compressed Air		
Filter precision	Standard: 20 μ m		
Operating pressure range MPa	0.15~0.85		
Max.Flow rate L/min	650	1400	
Ambient temperature ℃	-10~60		

How to order:

❶	SFR: Filter Regulator
❷	Port size: 02: G1/4"; 03: G3/8"; 04: G1/2"

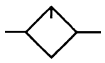
Dimension(mm):



Lubricator

Specification:

Type	SL-02	SL-03	SL-04
Port size G	1/4"	3/8"	1/2"
Fluid	Compressed Air		
Operating pressure range MPa	0.15~0.85		
Max.Flow rate L/min	650	1400	
Ambient temperature ℃	-10~60		
Oil recommended	ISO VG32		



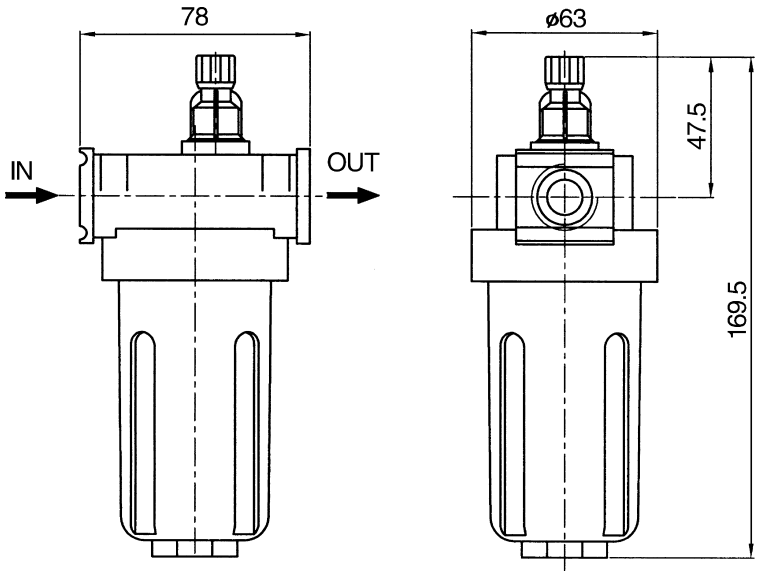
How to order:

SL – 02

❶ ❷

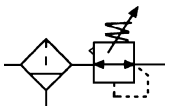
❶	SL: Lubricator
❷	Port size: 02: G1/4"; 03: G3/8"; 04: G1/2"

Dimension(mm):



Filter Regulator

Feature:



- Prevent the water and dust into the pneumatic instrument.
- When the pressure change,it can maintain the Output pressure.
- Adapt to aperate under the nasty environment.

Specification:

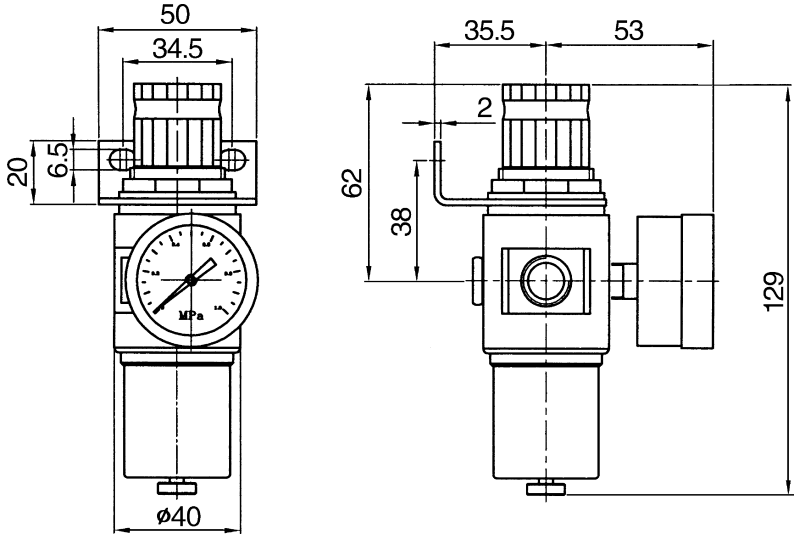
Type	AFR2000J
Port size G	1/4"
Gauge thread G	1/8"
Fluid	Compressed Air
Filter precision	Standard：20 μ m
Operating pressure range MPa	0.1~0.85
Ambient temperature ℃	–5~60
Max.Flow rate L/min	650
Drain	manual

How to order:

AFR ❶ 2000 ❷ J ❸

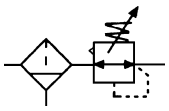
❶	AFR：Filter Regulator
❷	2000: G1/4"
❸	J: Metal water cup

Dimension(mm):



Filter Regulator

Feature:

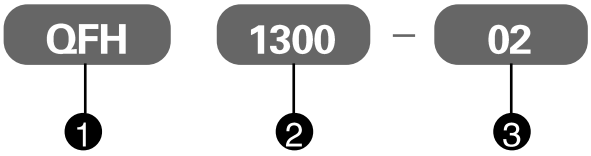


- Prevent the water and dust into the pneumatic instrument.
- When the pressure change,it can maintain the Output pressure.
- Adapt to aperate under the nasty environment.

Specification:

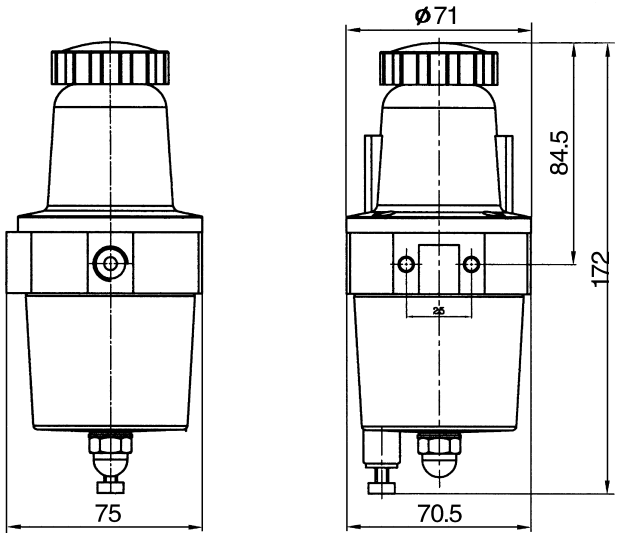
Type	QFH1300-01/02	QFH1310-01/02	QFH1320-01/02
Port size G	01:G1/8", 02: G1/4"		
Fluid	Compressed Air		
Filter precision	Standard: 20 μ m		
Operating pressure range MPa	0.05~0.2	0.05~0.4	0.05~0.8
Ambient temperature ℃	-5~60		
Drain	manual		

How to order:

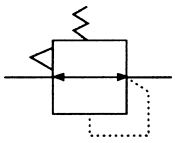


❶	QFH: Filter Regulator
❷	1300: Settled pressure
❸	Port size: 01: G1/8"; 02: G1/4"

Dimension(mm):



Precision Regulator



Feature:

- Compact and light weight.
- Flow rate is 20% higher than that of traditional ones(Max.Flow Rate:1 l/min).
- Exhaust rate is 5 times higher that of traditional ones.
- Precise pressure setting.
- Easy for mounting,capable of mounting individually,together with modular filter combination and mounting on panel.
- Piloted exhaust and main exhaust are separated.
- Applicable for clean room.

Specification:

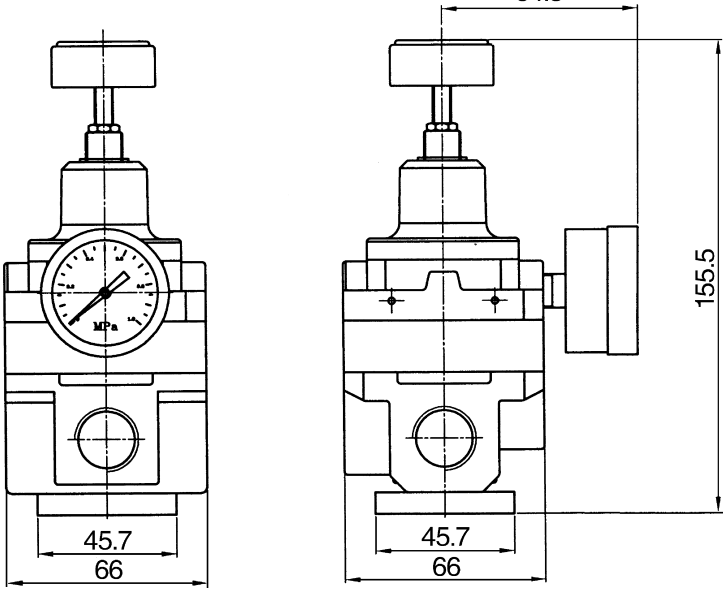
Type	IR3000-02/03/04	IR3010-02/03/04	IR3020-02/03/04
Port size G	02:G1/4", 03: G3/8",04:G1/2"		
Fluid	Compressed Air		
Pressure range MPa	0.05~0.2	0.05~0.4	0.05~0.8
Ambient temperature ℃	-5~60		
Sensitivity	0.2%		
Repeated precision	± 5%		
Rated flow L/min	1100		

How to order:

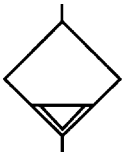
IR — 3000 — 02

❶	IR: Precision Regulator
❷	3000: Settled pressure
❸	Port size: 02: G1/4"; 03: G3/8";G1/2"

Dimension(mm):



Auto–drainer



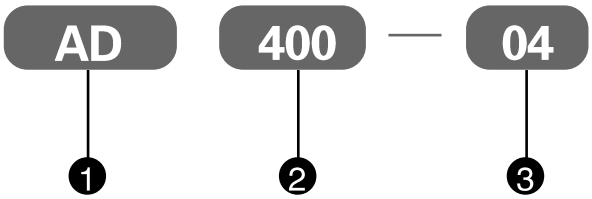
Feature:

It is usually used to automatically drain water at low points of air system including pipes,air dryer,oil and water separator,air tank and various air filters,suitable to be mounted at places not convenient for manual water discharge,i.e.high and low points or places with small space,expecially where air flow is high and water discharge is frequent,to prevent com–pressed air from re–contamination in case operator forget to discharge the water.

Specification:

Type	AD400–04	AD400–06、08
Fluid	Compressed Air	
Input port size(G)	1/2”	3/4”、1”
Outport size(G)	3/8”	1/8”
Operating pressure range MPa	0.1~1	
Ambient temperature ℃	–5–60	

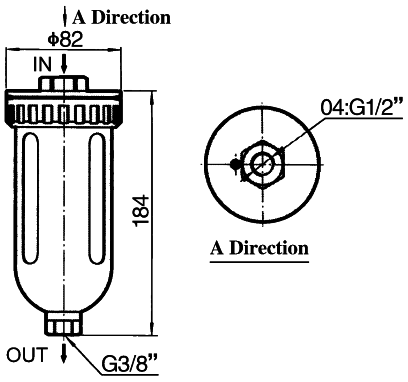
How to order:



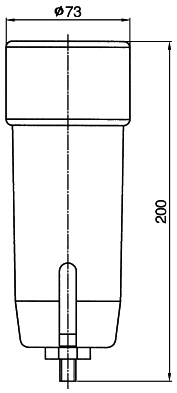
❶	AD：Auto–drainer
❷	Type：400
❸	Port size：04:G1/2”; 06:G3/4”; 08:G1”

Dimension(mm):

■ AD400–04

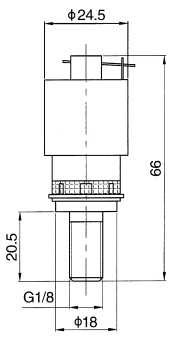


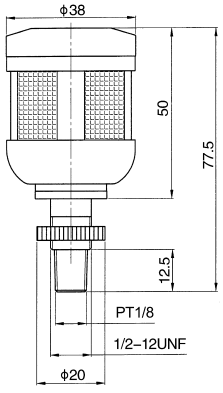
■ AD400–06、08



Automatic drainer(ZDPS)

It is mounted at the bottom of automatic drainer,air filter,and the bowl of com–pressed air relief valve,to automatically discharge the accumulated condensate.



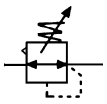


High Pressure Regluator

How to order:

QTY — H — 04

QTY: Regulator
H: High Pressure
04: Port size



Specification:

Type	QTYH-02	QTYH-03	QTYH-04	QTYH-06	QTYH-08
Port size (G)	1/4"	3/8"	1/2"	3/4"	1"
Max.working pressure Mpa	4				
Operating pressure range	0.05~3				
MPa	Compressed Air				
Fluid	-10~70				

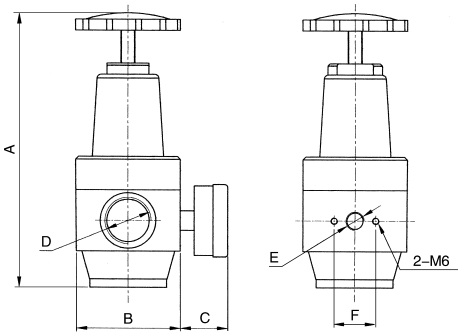
Ambient temperature ℃

Characteristic:

Compressed air can be adhusted from 4MPa to 3MPa and kept steady-going

Dimension:

Type / port size	L	L1	H	H1	H2	M	M1
02	55	60	140	100	22	G1/4	G1/4
03	55	60	140	100	22	G3/8	G1/4
04	55	60	140	100	22	G1/2	G1/4
06	75	72	190	159	50	G3/4	G1/4
08	75	72	190	159	50	G1	G1/4

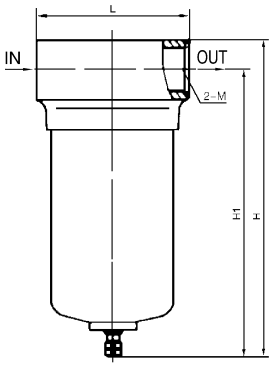


High Pressure Filter

How to order:

QSL — H — 04

QSL: Filter
H: High Pressure
04: Port size



Characteristic:

It's suitable to filter the solid and fluent impurity the compressed air below the 4MPa.

Specification:

Fluid	Compressed Air
Ambient temperature ℃	-10~70
Max.working pressureMpa	4
Operating pressure range MPa	0.15~3
Filter precision	20 μ m

Dimension:

Type / Nominal Diameter	L	H	H1	M
03	60	160	145	G3/8
04	60	160	145	G1/2
06	90	215	190	G3/4
08	90	215	190	G1

Gauge

Specification:

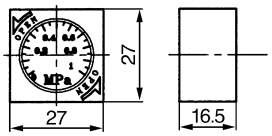
Type	GM–10	GS–40	GS–50	GH–40	GH–50	GF–40	GF–50	GF–60
Fluid	Compressed Air							
Port size (G)	–	1/4”	1/4”	1/8”	1/4”	1/8”	1/4”	1/4”
Pressure range(Mpa)	0~10							
Max.Pressure(Mpa)	1							
Ambient temperature ℃	–10~70							

How to order:

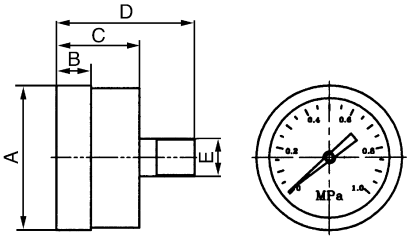
G	S	—	40
Type	Type code		Outer diameter
G:Gauge	M:Embed square gauge S:Axial H:Radial F:Panel mounting		40: ϕ 42mm 50: ϕ 52mm 60: ϕ 63mm

Dimension(mm):

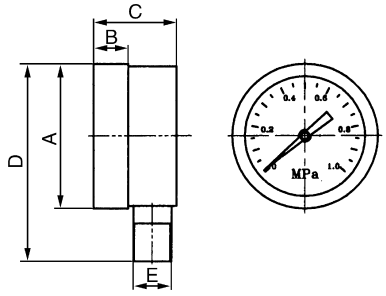
GM Series



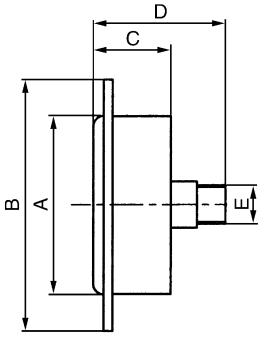
GS Series

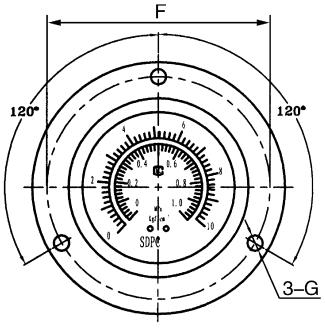


GH Series



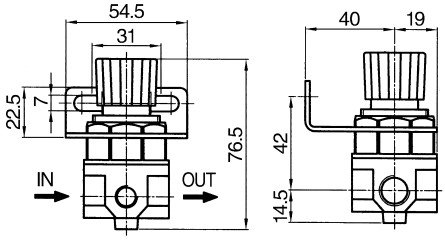
GF Series



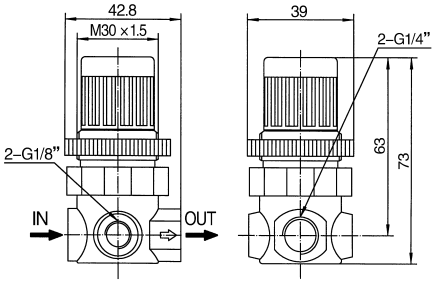


Type	A	B	C	D	E	F	G
GS–40	42	9	24	41	G1/4	–	–
GS–50	52	9	25	42	G1/4	–	–
GH–40	42	9	24	56	G1/8	–	–
GH–50	52	9	25	71	G1/4	–	–
GF–40	42	60	25	42	G1/8	53	3.1
GF–50	52	72	26	43	G1/4	62	4.2
GF–60	62	84	29	46	G1/4	72	5

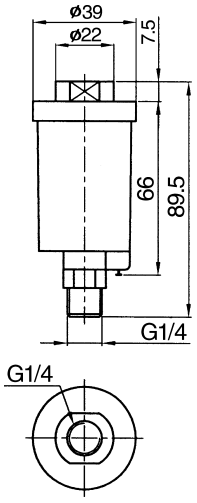
R200 Regulator



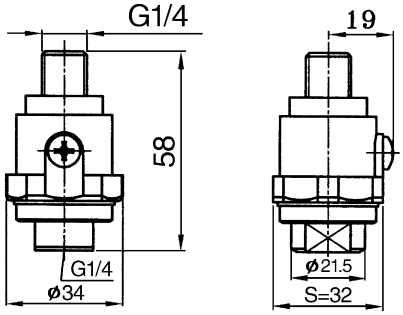
R07 Regulator



ZF–02 Filter



ZL–02 Oiler



Solenoid Valve

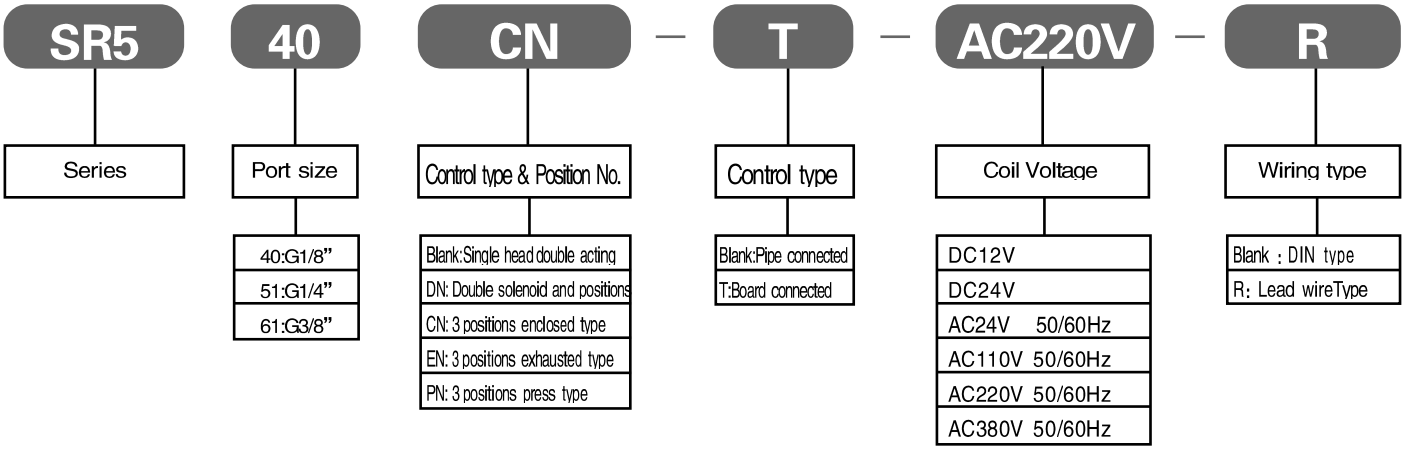
Characteristic:

- Low power consumption,longer service life,the life of product is 30 million cycle times under the regulated environment.
- The bodies are mirror finished and hardending treated.
- Equipped with imported oil seals with smaller friction and longer service life.
- With imported coils,low power consumption,speedy response.
- The product is pollution–free and widely used in food,pharmaqutical industry electronic industry etc.

Specification:

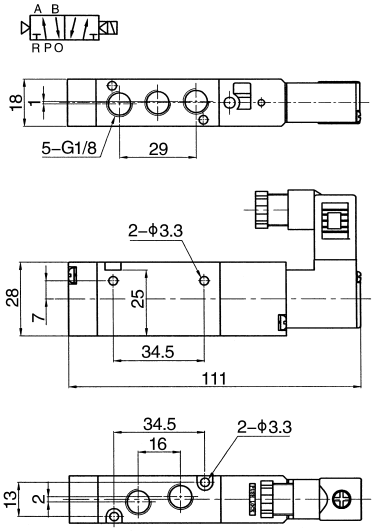
Type		SR540	SR551	SR561
Position number		2 Positon 5 Way/3 Positon 5 Way		
Effective sectional area		10	20	35
Port size	Pipe connected	G1/8	G1/4	G3/8
	Board connected	G1/4	G3/8	G1/2
Fluid		Filtered and Compressed Air		
Acting type		Internally pilot–actuated		
Working pressure MPa		0.15~0.8		
Ambient temperature ℃		–5~50(In ice–free codition)		
Voltage range		± 10%		

How to order:

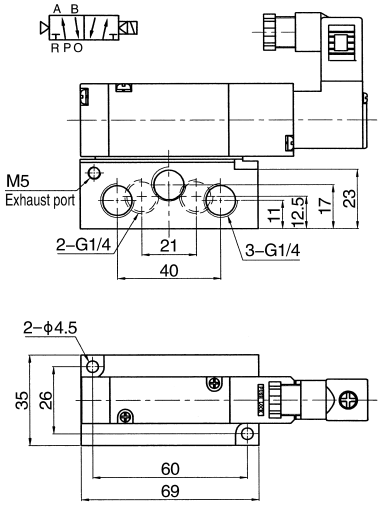


Dimension: (mm)

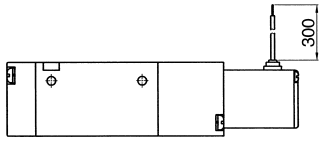
SR540 Pipe connected type



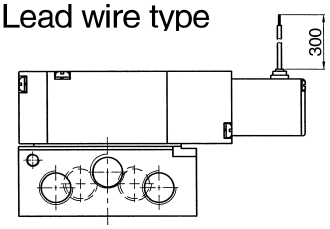
SR540 Board connected type



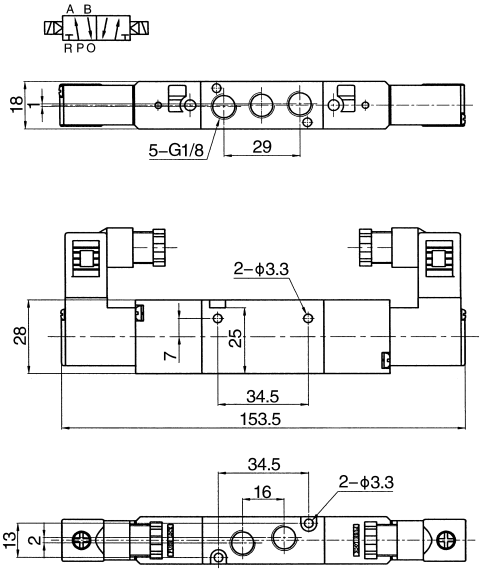
R Lead wire type



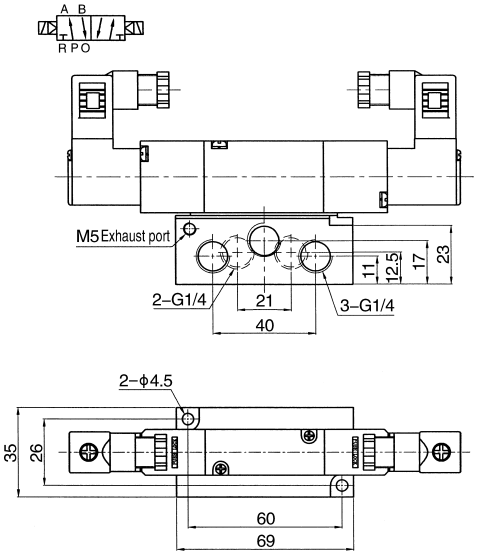
R Lead wire type



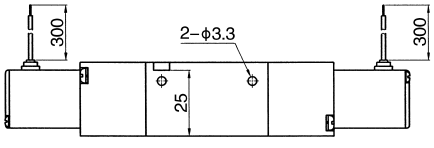
SR540–DN Pipe connected type



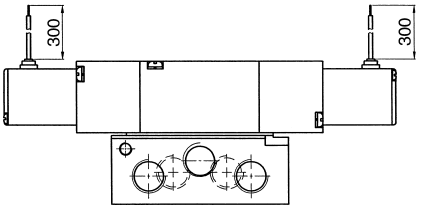
SR540–DN Board connected type



R Lead wire type



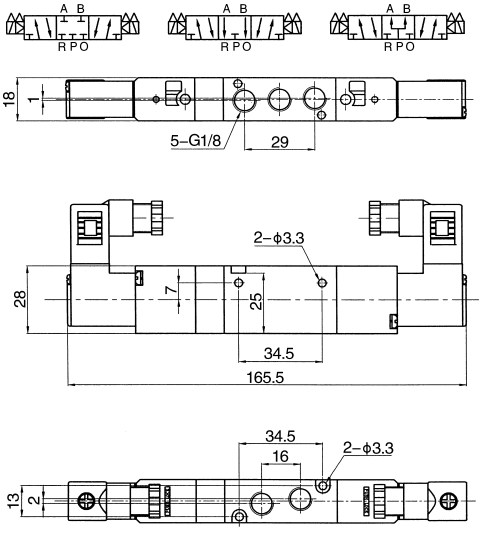
R Lead wire type



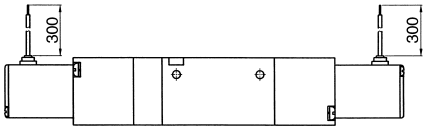
SDPC®

Dimension: (mm)

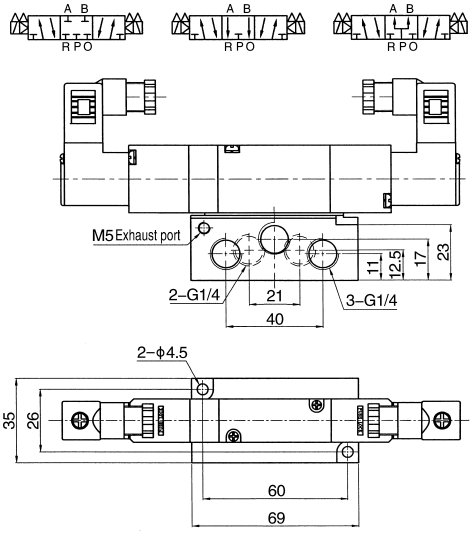
SR540–CN、EN、PN Pipe connected type



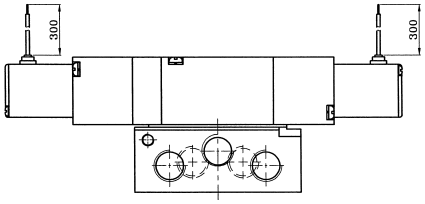
R Lead wire type



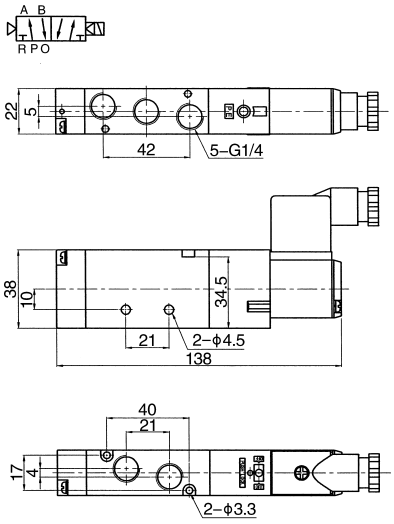
SR540–CN、EN、PN Board connected type



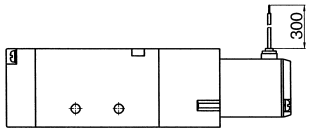
R Lead wire type



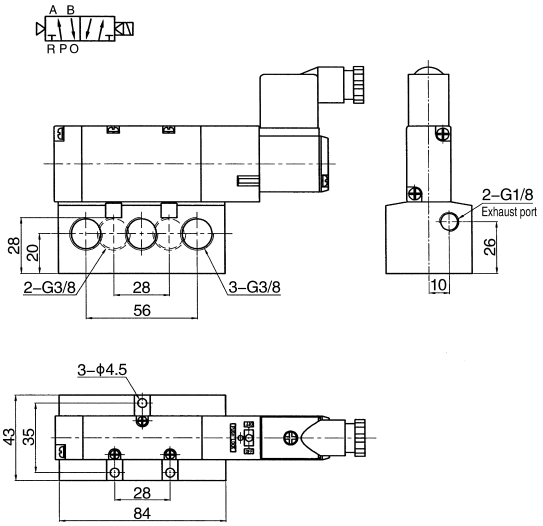
SR551 Pipe connected type



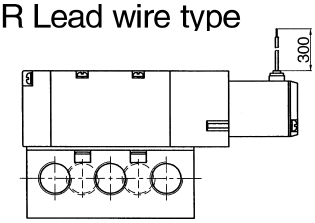
R Lead wire type



SR551 Board connected type

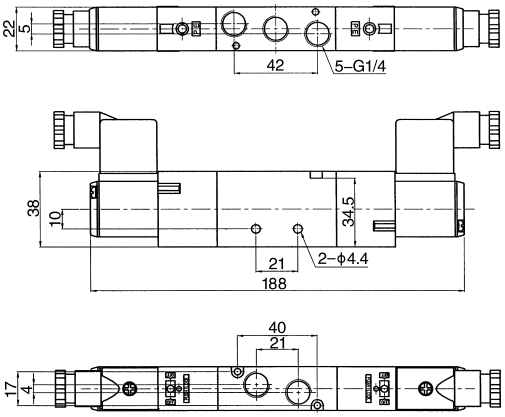


R Lead wire type

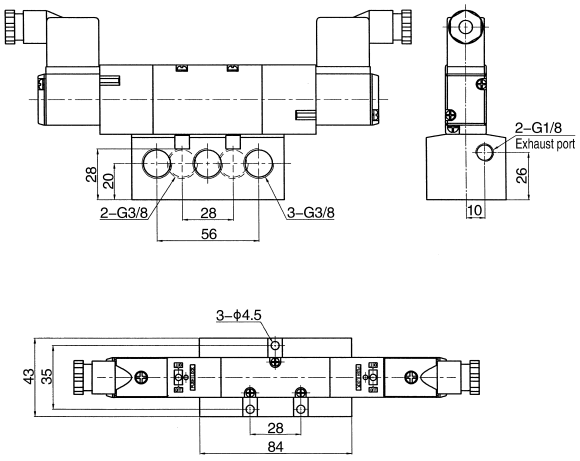


Dimension: (mm)

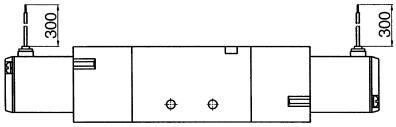
SR551–DN Pipe connected type



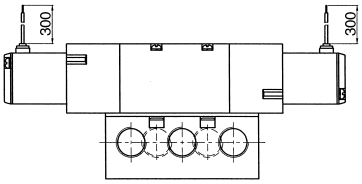
SR551–DN Board connected type



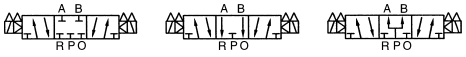
R Lead wire type

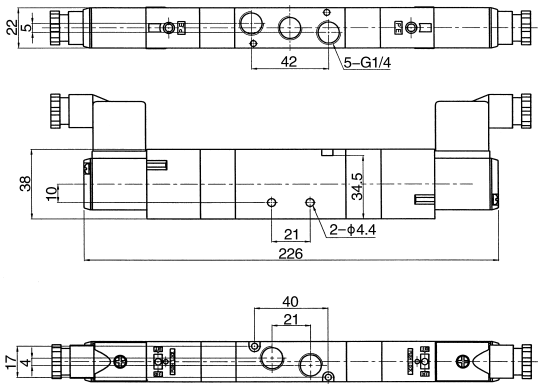


R Lead wire type

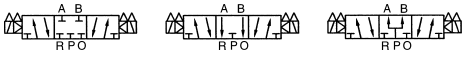


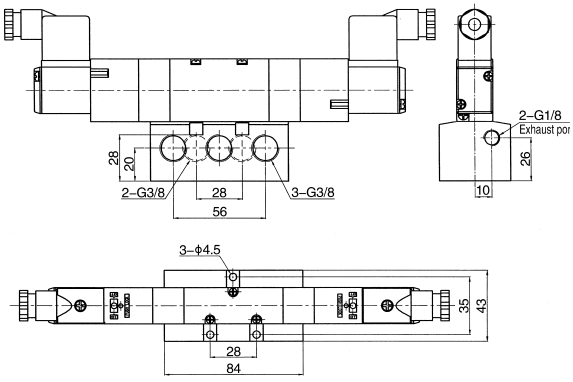
SR551–CN、EN、PN Pipe connected type



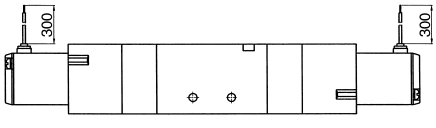


SR551–CN、EN、PN Board connected type

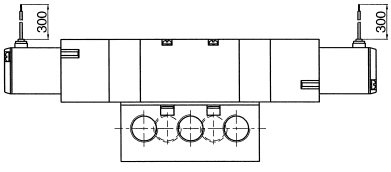




R Lead wire type

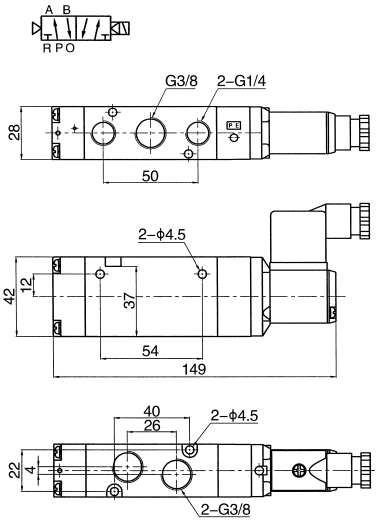


R Lead wire type

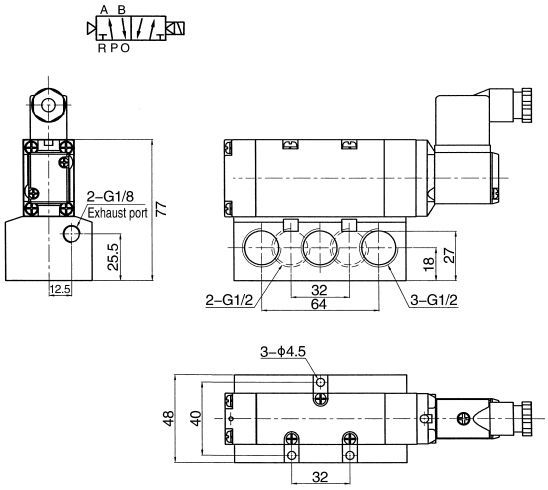


Dimension: (mm)

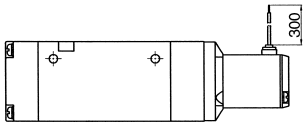
SR561 Pipe connected type



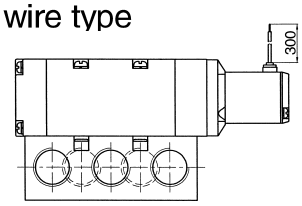
SR561 Board connected type



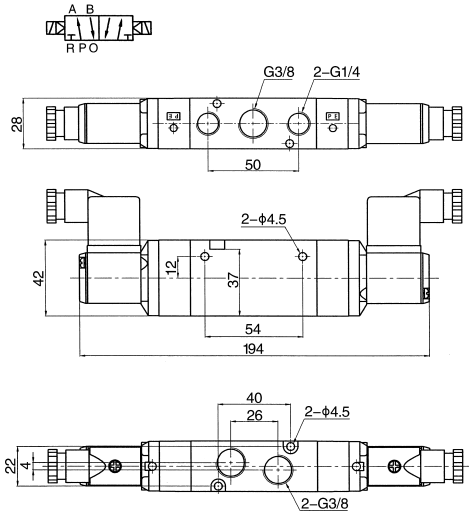
R Lead wire type



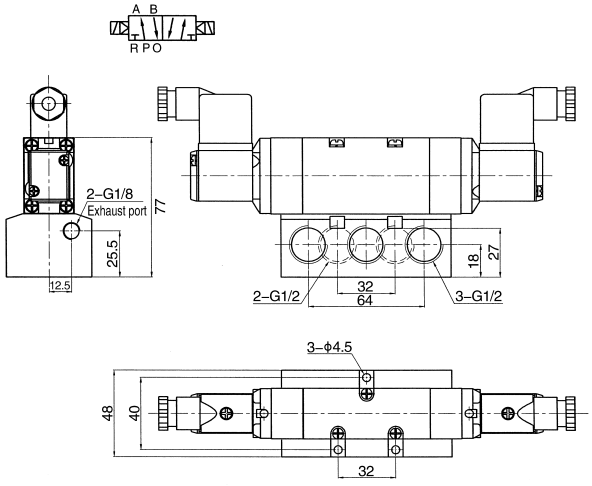
R Lead wire type



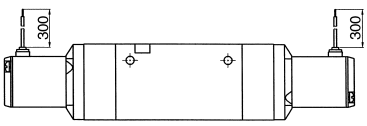
SR561–DN Pipe connected type



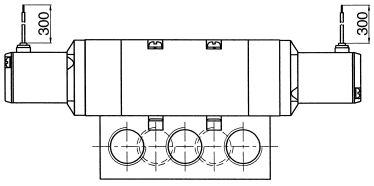
SR561–DN Board connected type



R Lead wire type

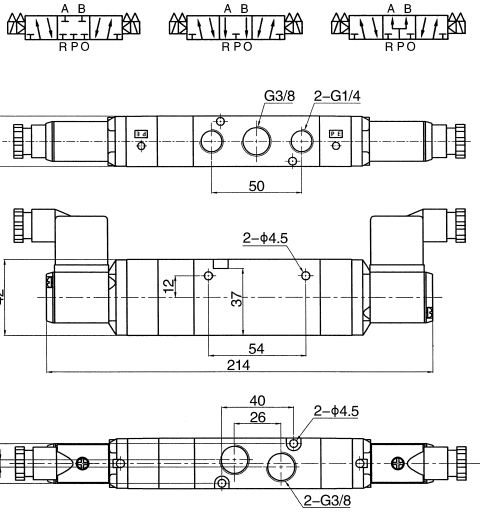


R Lead wire type

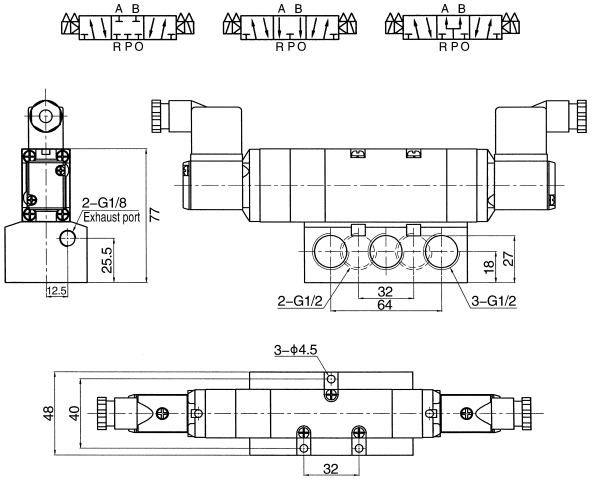


Dimension (mm):

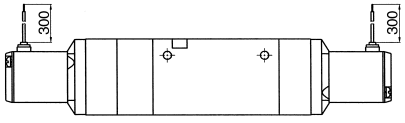
SR561-CN、EN、PN
Pipe connected type



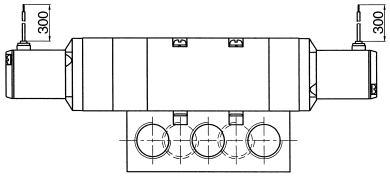
SR561-CN、EN、PN
Board connected type



R Lead wire type

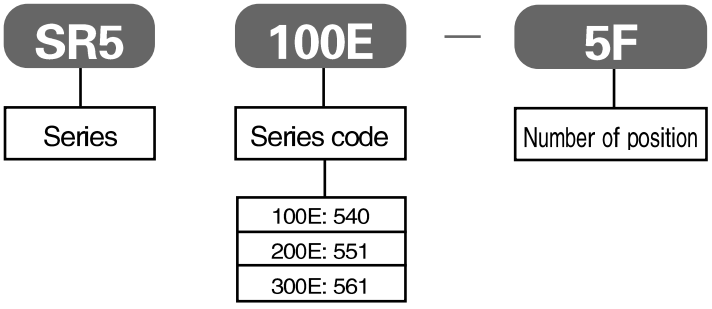


R Lead wire type

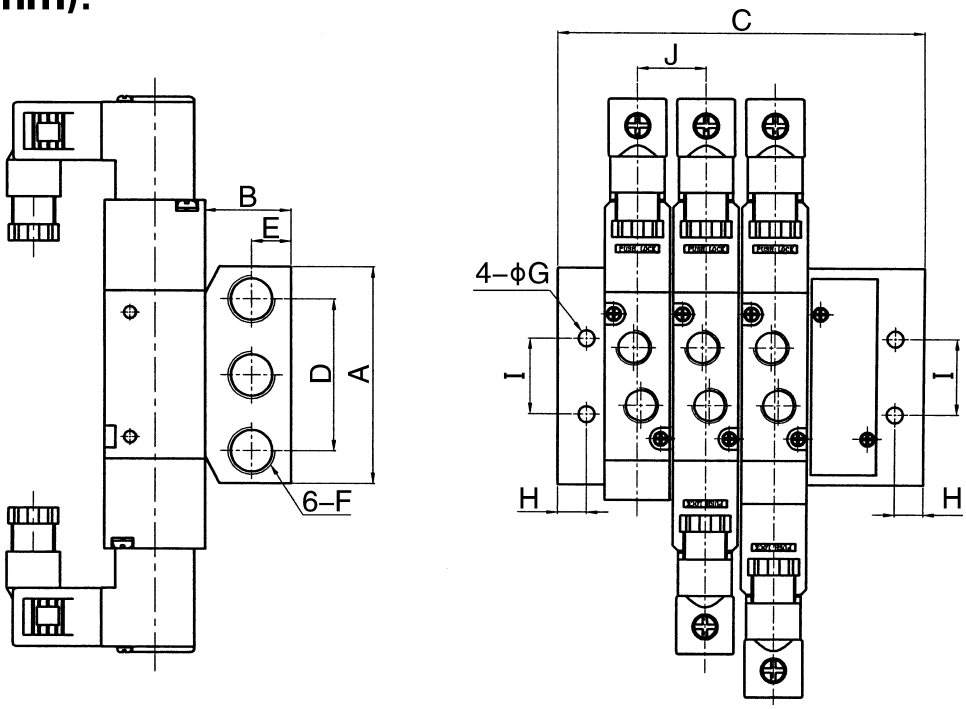


Manifold

How to order:



Dimension (mm):



Specification:

Type	A	B	C	D	E	F	G	H	I	J
100E □ F	60	24	□ × 19+26	42	11	G1/4	4.5	8	21	19
200E □ F	82	27	□ × 23+22	58	14	G3/8	5.5	5	32	23
300E □ F	90	30	□ × 29+32	62	16	G1/2	6.5	6	31	29

Solenoid Valve

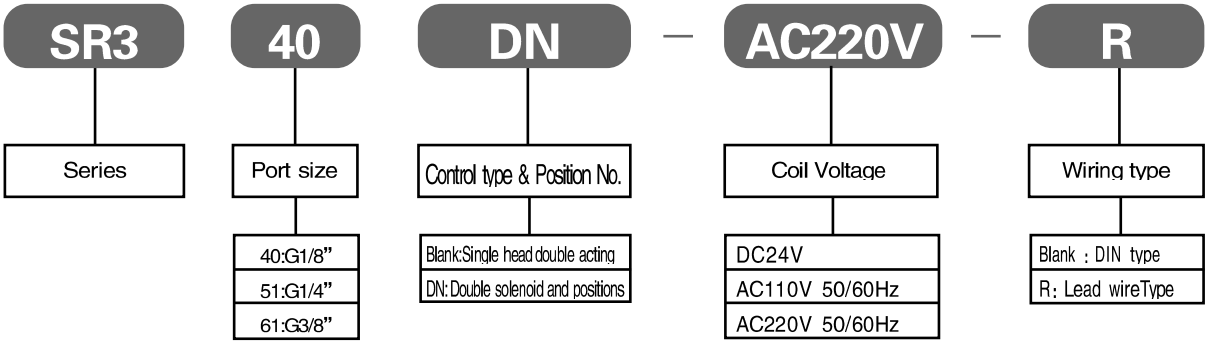
Characteristic:

- Low power consumption,longer service life,the life of product is 30 million cycle times under the regulated environment.
- The bodies are mirror finished and hardending treated.
- Equipped with imported oil seals with smaller friction and longer service life.
- With imported coils,low power consumption,speedy response.
- The product is pollution–free and widely used in food,pharmaqutical industry electronic industry etc.

Specification:

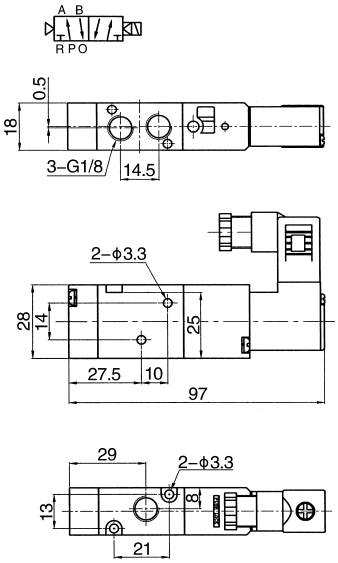
Type	SR340	SR351	SR361
Position number	二位三口		
Effective sectional area	10	20	35
Port size	G1/8	G1/4	G3/8
Fluid	Filtered and Compressed Air		
Acting type	Internally pilot–actuated		
Working pressure MPa	0.15~0.8		
Ambient temperature ℃	–5~50		
Voltage range	± 10%		

How to order:

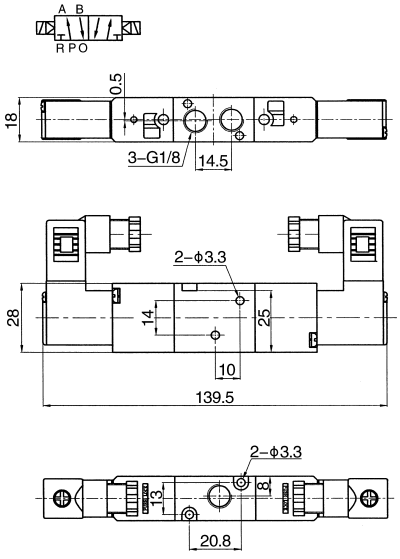


Dimension: (mm)

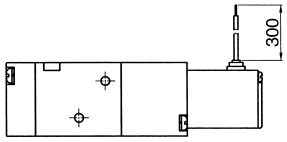
SR340 Pipe connected type



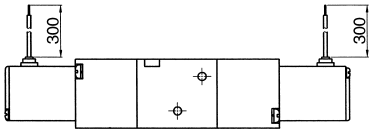
SR340–DN Pipe connected type



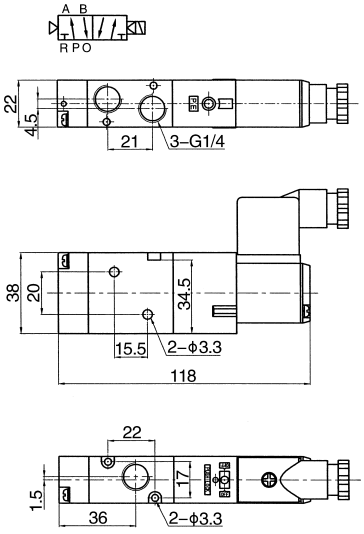
R Lead wire type



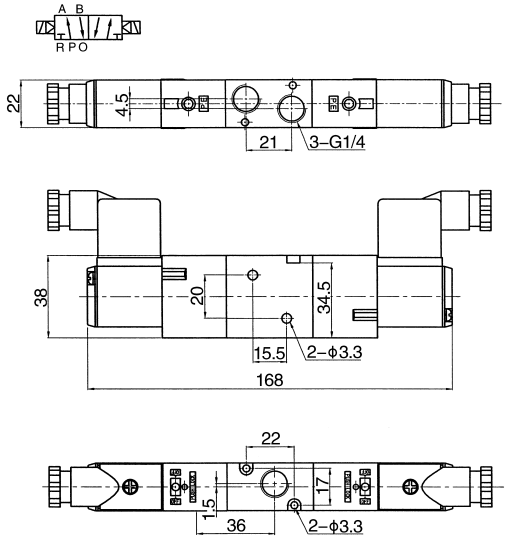
R Lead wire type



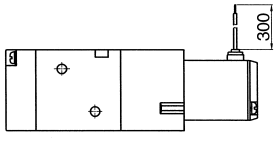
SR351 Pipe connected type



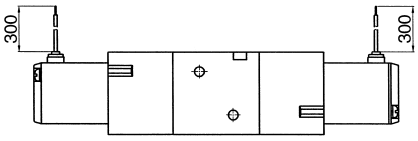
SR351–DN Pipe connected type



R Lead wire type

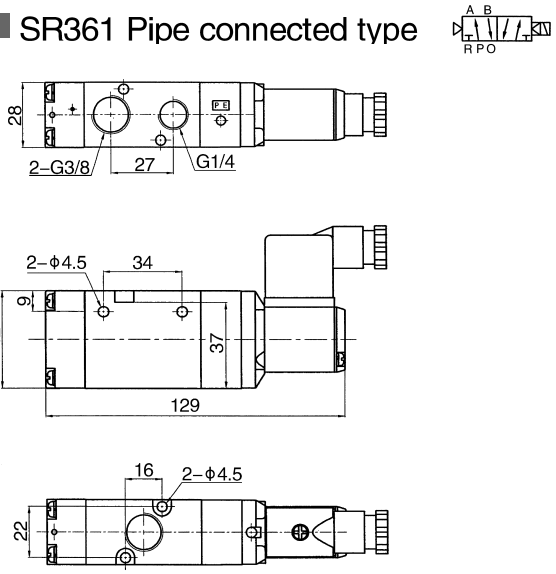


R Lead wire type

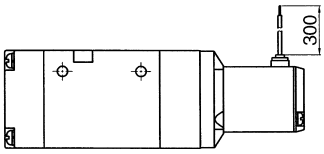


Dimension(mm):

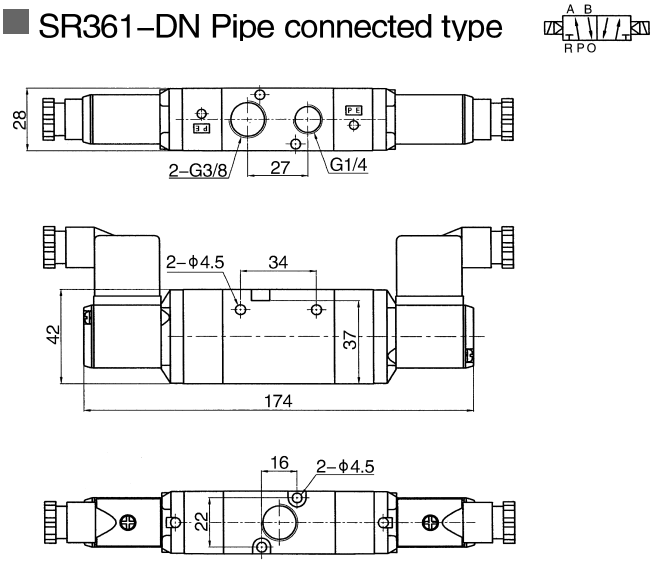
SR361 Pipe connected type



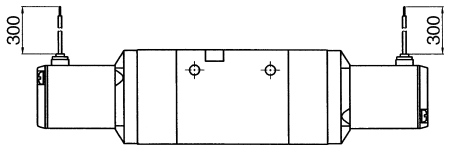
R Lead wire type



SR361-DN Pipe connected type

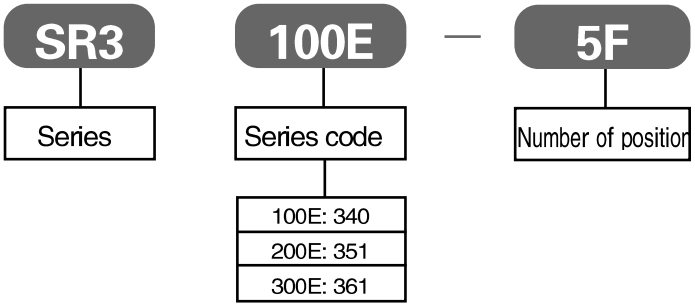


R Lead wire type

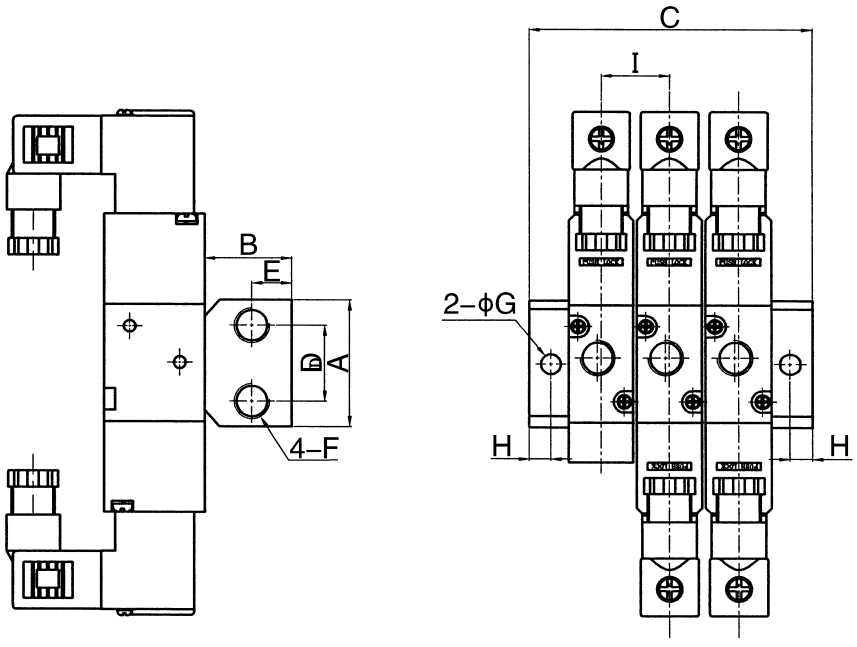


Manifold

How to order:



Dimension (mm):



Specification:

Type	A	B	C	D	E	F	G	H	I
100E □ F	35	24	□ × 19+20	21	9	G1/8	5.5	6	19
200E □ F	54	30	□ × 23+23	28	13	G3/8	5.5	5	23
300E □ F	54	30	□ × 29+33	30	15	G1/2	6.5	9	29

Solenoid Valve/Air Control Valve

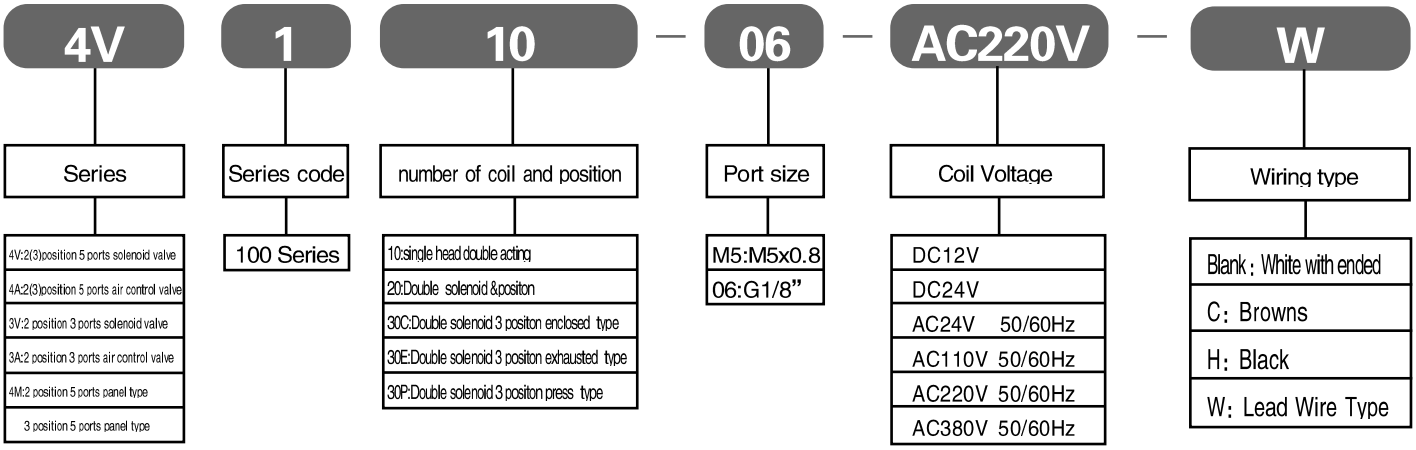
Characteristic:

- Service life:10million cycle times.
- The bodies are mirror finished and hardending treated.
- Equipped with imported oil seals with smaller friction and longer service life.
- With imported coils,low power consumption,speedy response.
- Capable of long service time without being damaged.

Specification:

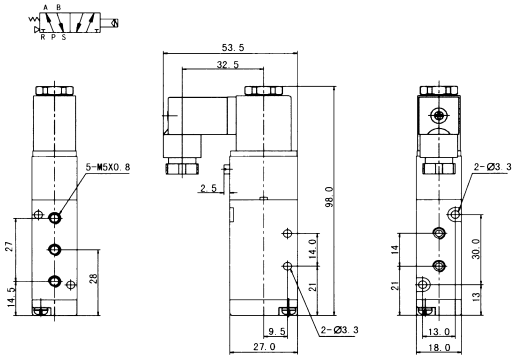
Type	4V110-M5	4V120-M5	4V130C-M5	4V130E-M5	4V130P-M5	4V110-06	4V120-06	4V130C-06	4V130E-06	4V130P-06
	4A110-M5	4A120-M5	4A130C-M5	4A130E-M5	4A130P-M5	4A110-06	4A120-06	4A130C-06	4A130E-06	4A130P-06
Position number	2 Positon 5 Way		3 Position 5 Way			2 Positon 5 Way		3 Position 5 Way		
Effective sectional area	10mm²(CV=0.56)		7mm²(CV=0.40)			12mm²(CV=0.67)		9mm²(CV=0.50)		
Type	3V110-M5	3V120-M5	3A110-M5	3A120-M5		3V110-06	3V120-06	3A110-06	3A120-06	
Position number	2 Positon 3 Way					2 Positon 3 Way				
Effective sectional area	10mm²(CV=0.56)					12mm²(CV=0.67)				
Port size	input=output=exhausted=M5 × 0.8					input=output=exhausted=G1/8"				
Fluid	Compressed Air									
Acting type	Internally pilot-actuated									
Working pressure MPa	0.2~0.8									
Ambient temperature ℃	-5~50									
Voltage range	± 10%									

How to order:

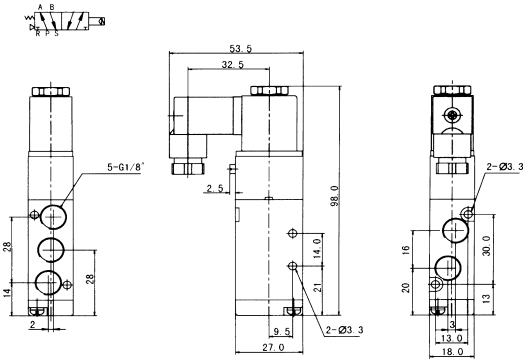


Dimension(mm):

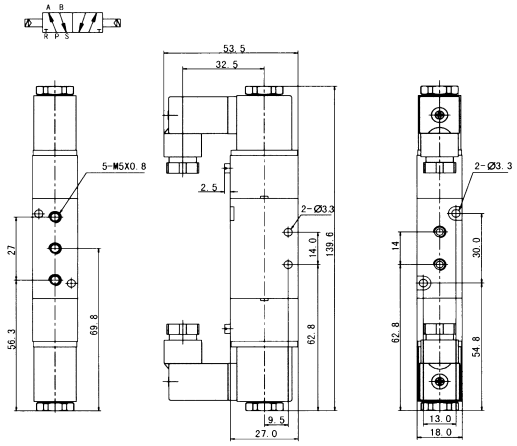
4V110–M5



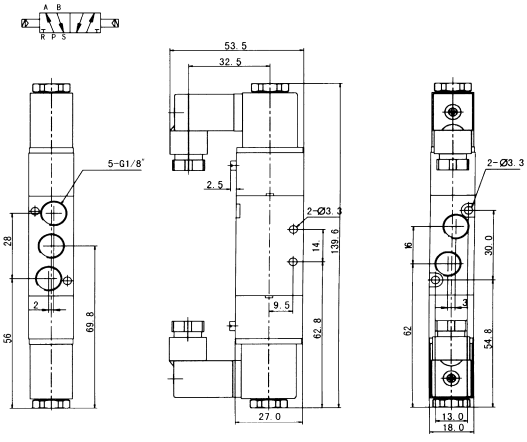
4V110–06



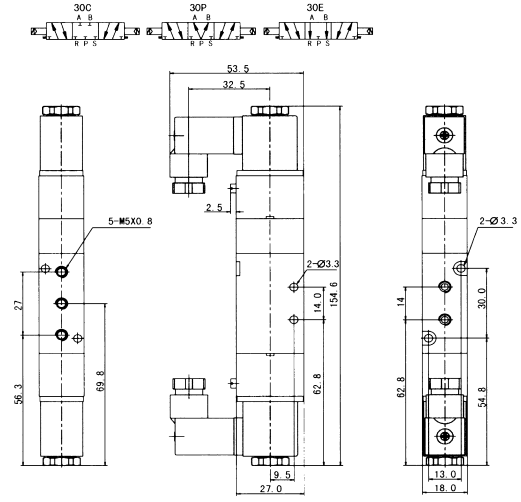
4V120–M5



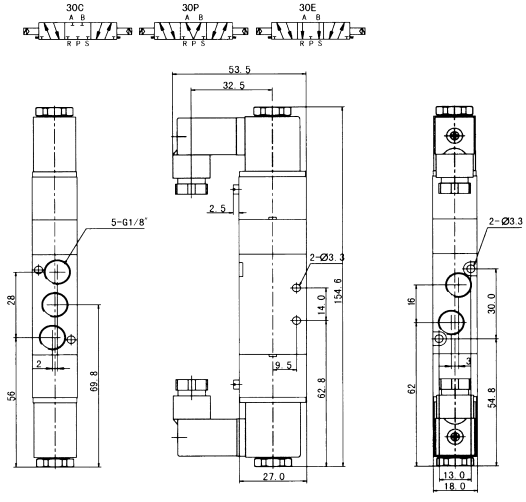
4V120–06



4V130–M5

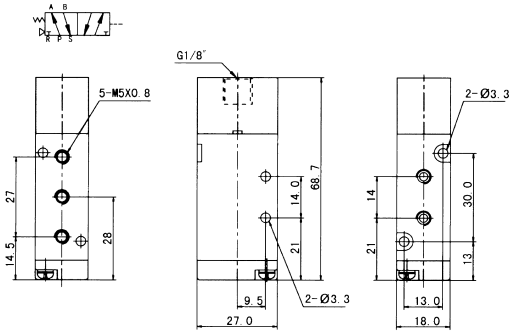


4V130–06

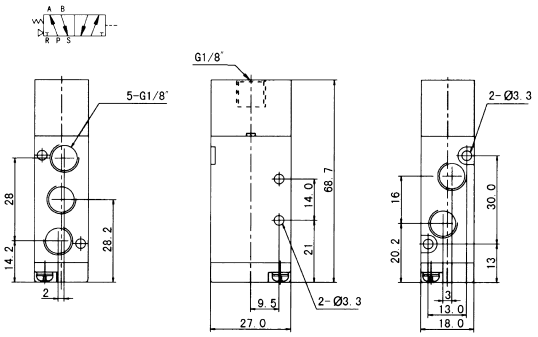


Dimension(mm):

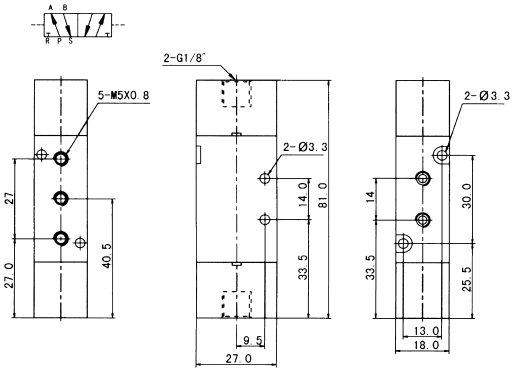
4A110–M5



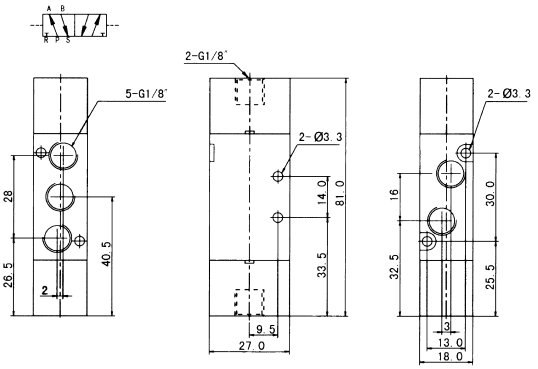
4A110–06



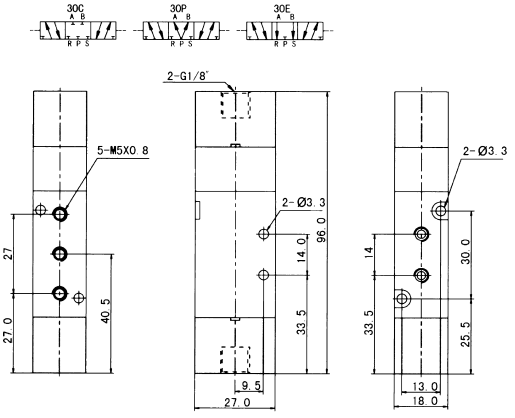
4A120–M5



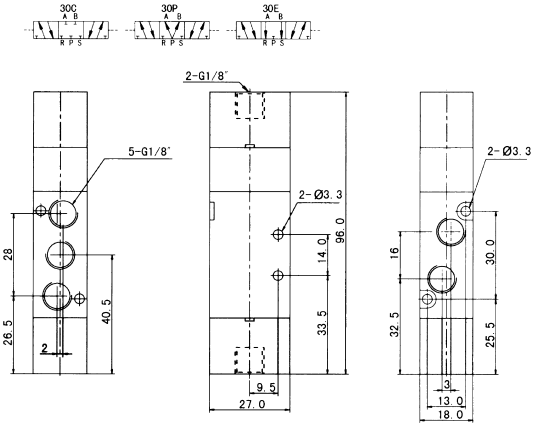
4A120–06



4A130–M5

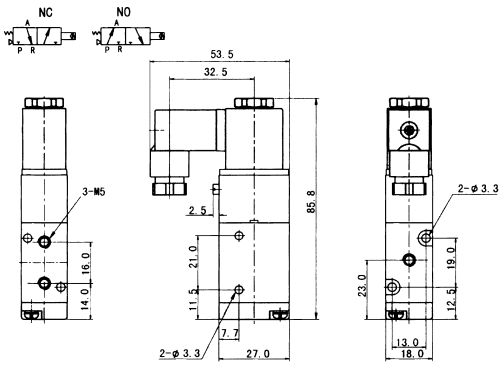


4A130–06

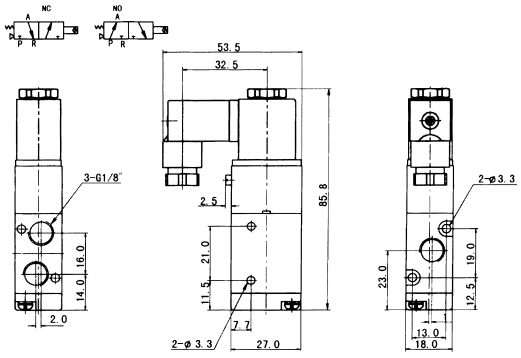


Dimension(mm):

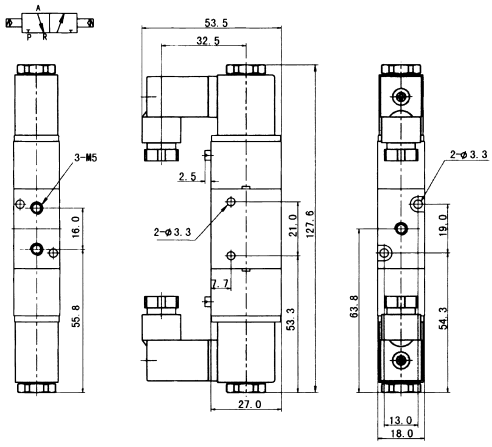
3V110–M5



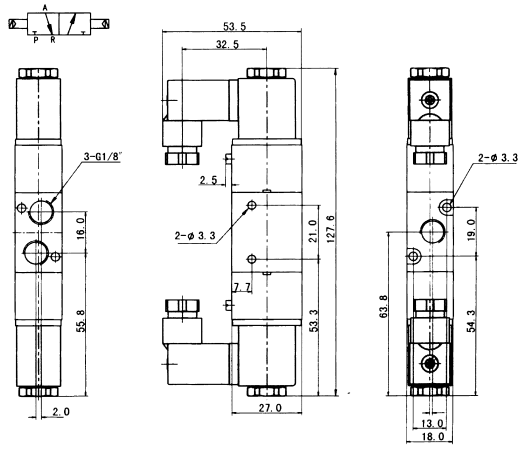
3V110–06



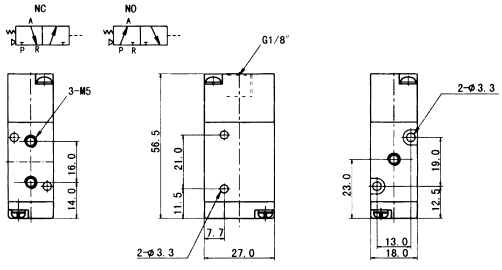
3V120–M5



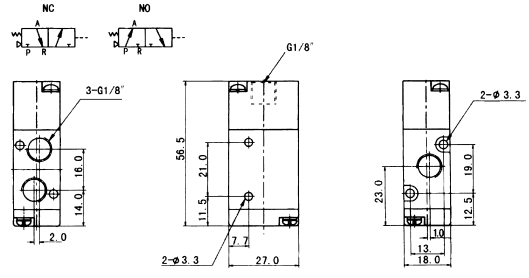
3V120–06



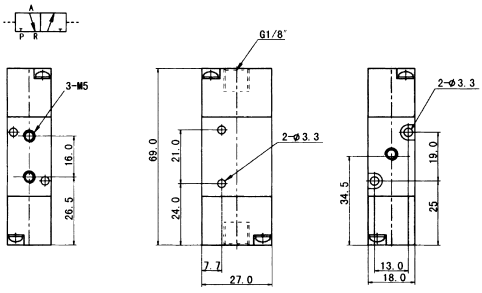
3A110–M5



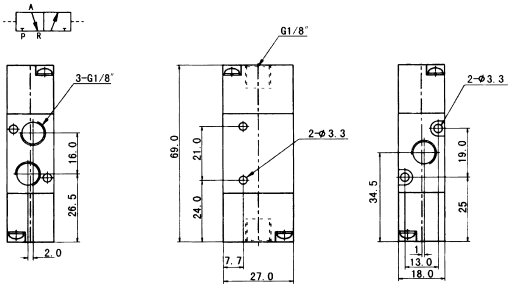
3A110–06



3A120–M5



3A120–06



Solenoid Valve/Air Control Valve

Characteristic:

- Service life:10million cycle times.
- The bodies are mirror finished and hardending treated.
- Equipped with imported oil seals with smaller friction and longer service life.
- With imported coils,low power consumption,speedy response.
- Capable of long service time without being damaged.

Specification:

Type	4V210-06	4V220-06	4V230C-06	4V230E-06	4V230P-06	4V210-08	4V220-08	4V230C-08	4V230E-08	4V230P-08
	4A210-06	4A220-06	4A230C-06	4A230E-06	4A230P-	4A210-08	4A220-08	4A230C-	4A230E-08	4A230P-08
Position number	2 Positon 5 Way		3 Position 5 Way 06			2 Positon 5 Way		08 3 Position 5 Way		
Effective sectional area	14mm²(CV=0.78)		12mm²(CV=0.67)			16mm²(CV=0.89)		12mm²(CV=0.67)		
Type	3V210-06	3V220-06	3A210-06	3A220-06		3V210-08	3V220-08	3A210-08	3A220-08	
Position number	2 Positon 3 Way					2 Positon 3 Way				
Effective sectional area	14mm²(CV=0.78)					16mm²(CV=0.89)				
Port size	input=output=exhausted=G1/8"					input=output=G1/4" output=G1/8"				
Fluid	Compressed Air									
Acting type	Internally pilot-actuated									
Working pressure MPa	0.2~0.8									
Ambient temperature ℃	-5~50									
Voltage range	± 10%									

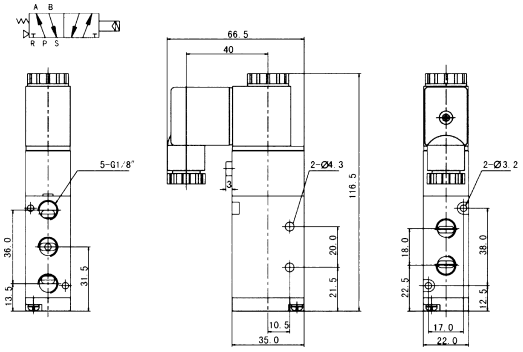
How to order:

4V – **2** – **10** – **08** – **AC220V** – **W**

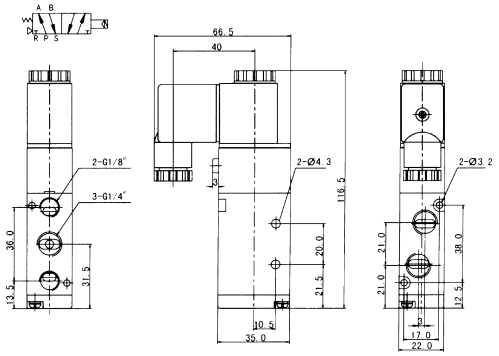
Series	Series code	number of coil and position	Port size	Coil Voltage	Wiring type
4V:2(3)position 5 ports solenoid valve	200 Series	10:single head double acting	06:G1/8"	DC12V	Blank: White with ended
4A:2(3)position 5 ports air control valve		20:Double solenoid &positon	08:G1/4"	DC24V	C: Browns
3V:2 position 3 ports solenoid valve		30C:Double solenoid 3 positon enclosed type		AC24V 50/60Hz	H: Black
3A:2 position 3 ports air control valve		30E:Double solenoid 3 positon exhausted type		AC110V 50/60Hz	W: Lead Wire Type
4M:2 position 5 ports panel type		30P:Double solenoid 3 positon press type		AC220V 50/60Hz	
3 position 5 ports panel type				AC380V 50/60Hz	

Dimension(mm):

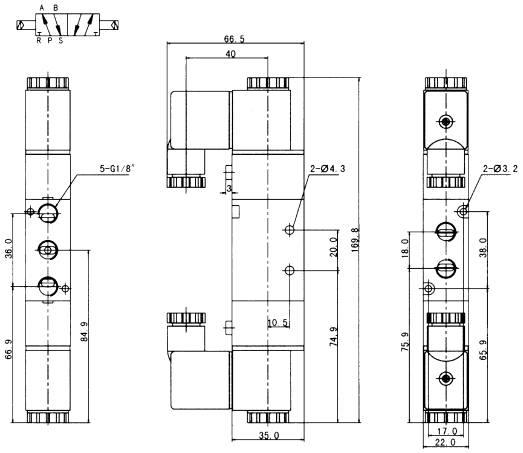
4V210–06



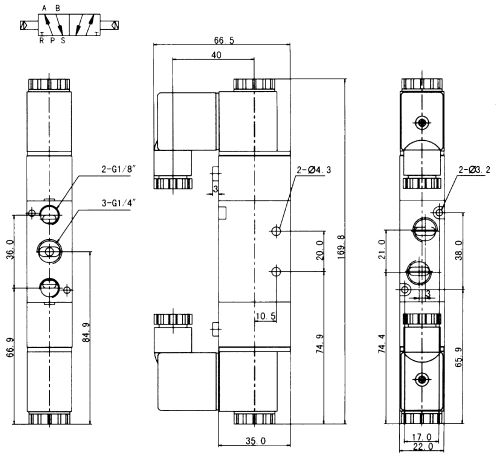
4V210–08



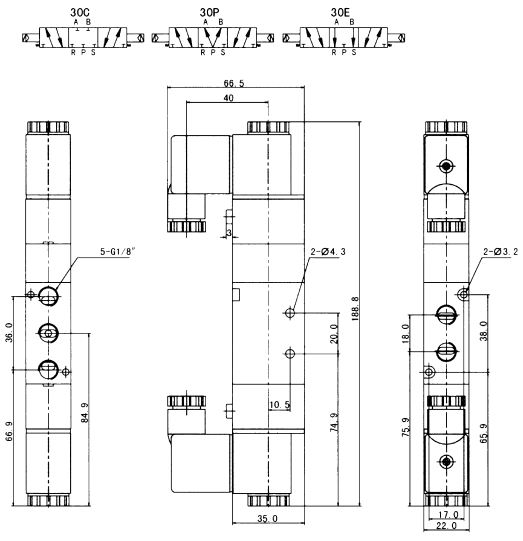
4V220–06



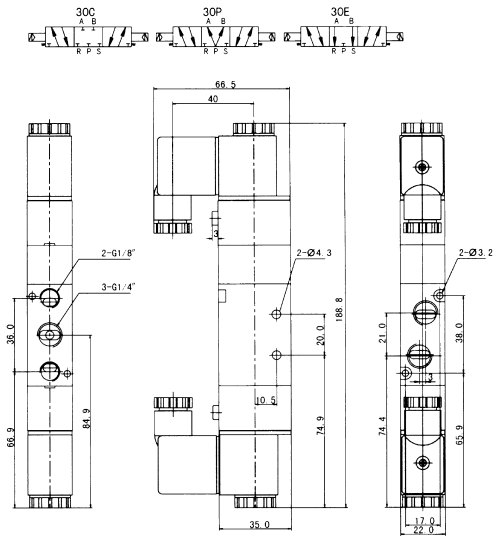
4V220–08



4V230–06

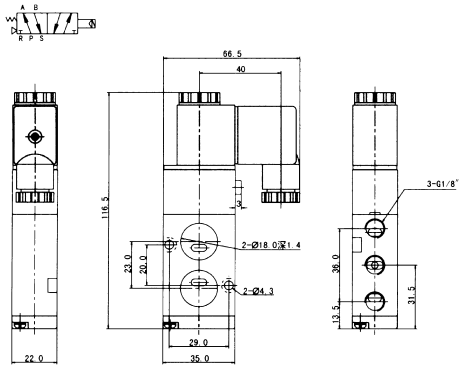


4V230–08

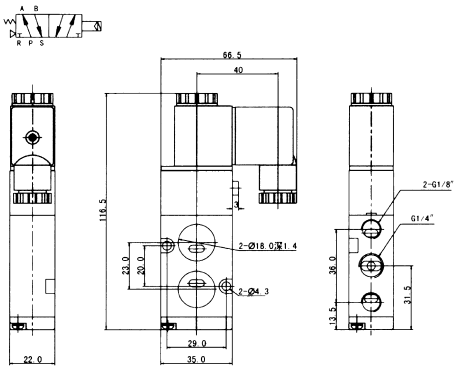


Dimension(mm):

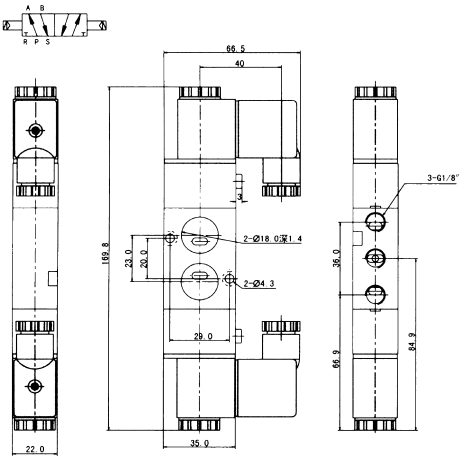
4M210–06



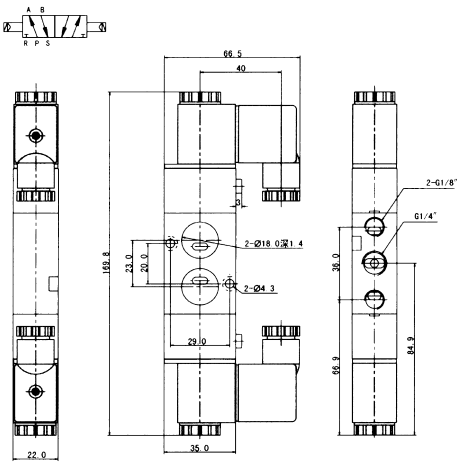
4M210–08



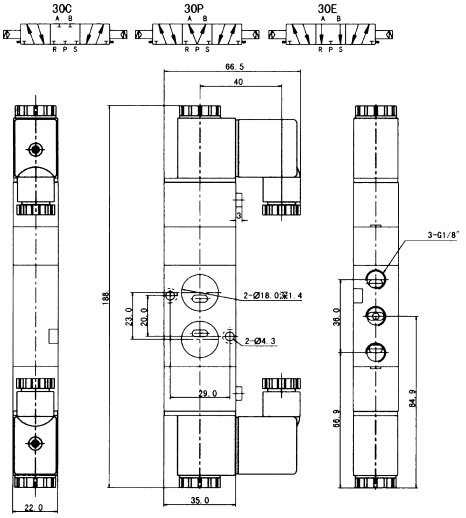
4M220–06



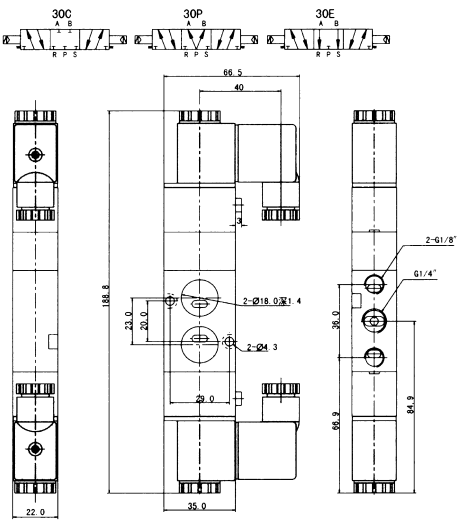
4M220–08



4M230–06

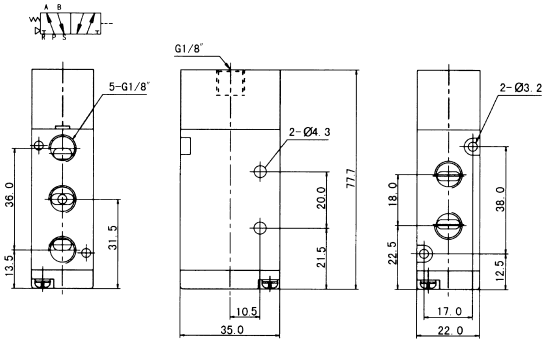


4M230–08

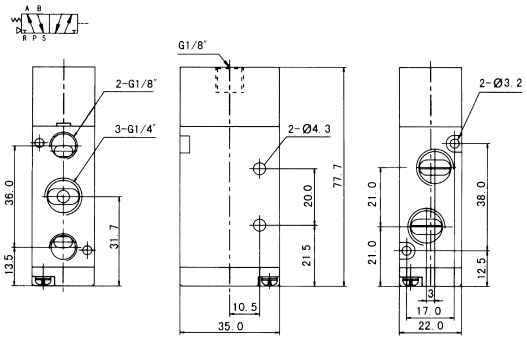


Dimension(mm):

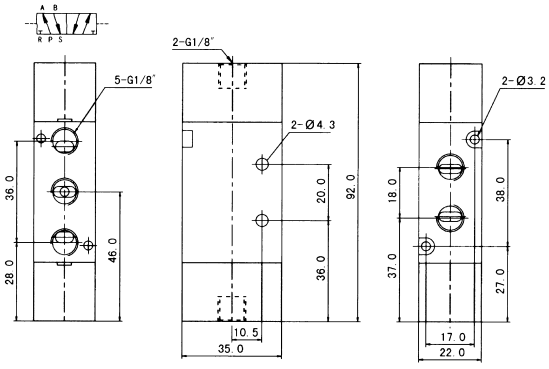
4A210–06



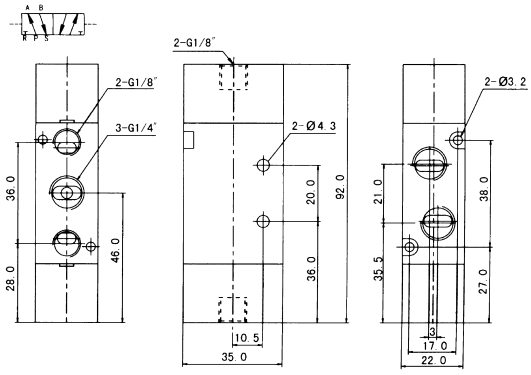
4A210–08



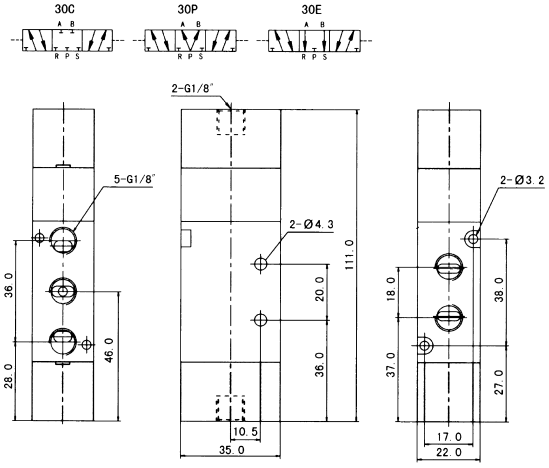
4A220–06



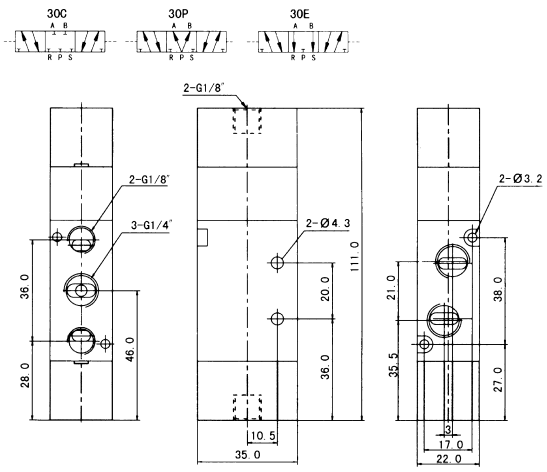
4A220–08



4A230–06

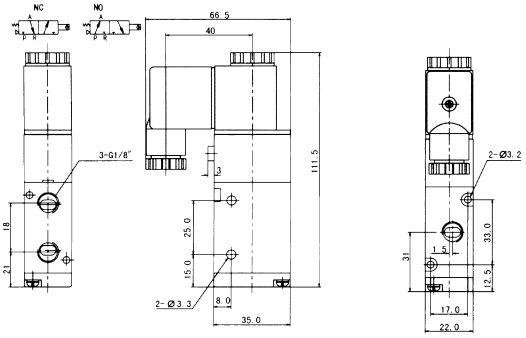


4A230–08

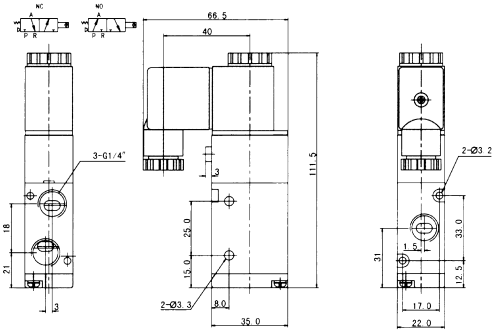


Dimension(mm):

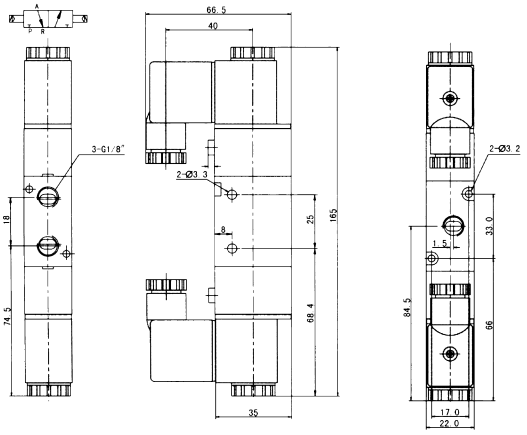
3V210–06



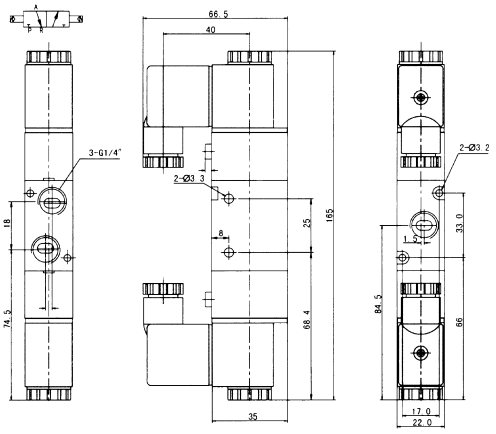
3V210–08



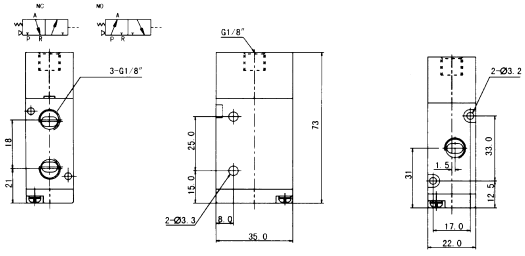
3V220–06



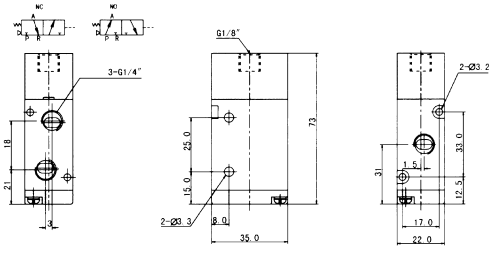
3V220–08



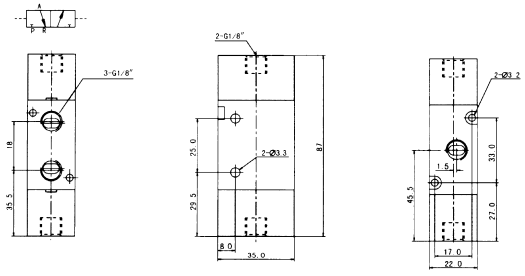
3A210–06



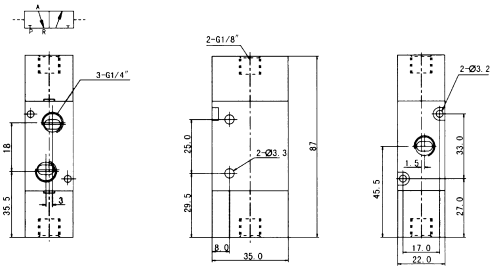
3A210–08



3A220–06



3A220–08



Solenoid Valve/Air Control Valve

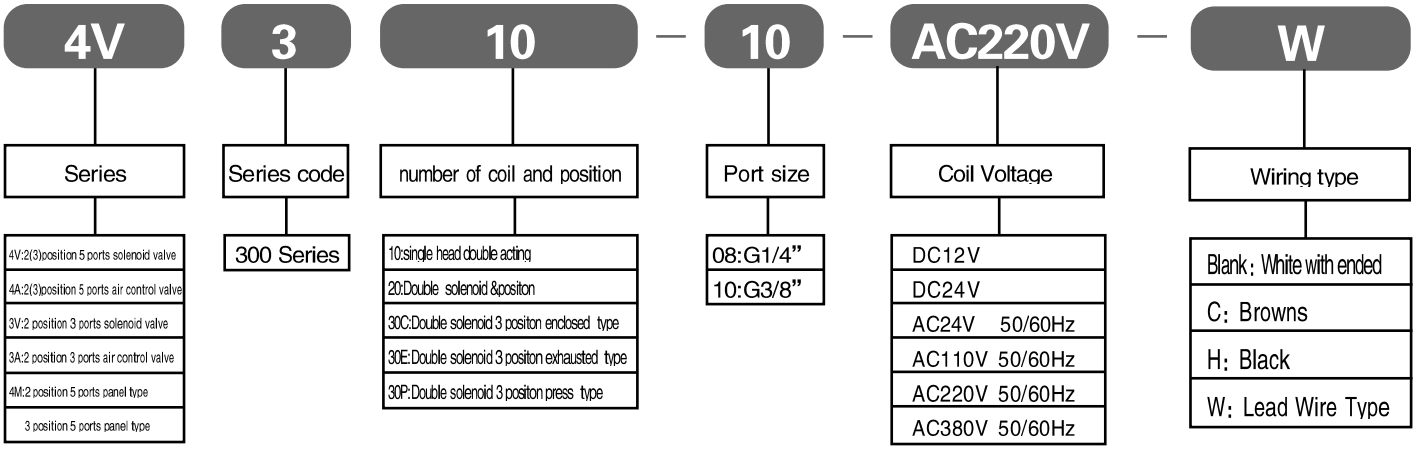
Characteristic:

- Service life:10million cycle times.
- The bodies are mirror finished and hardending treated.
- Equipped with imported oil seals with smaller friction and longer service life.
- With imported coils,low power consumption,speedy response.
- Capable of long service time without being damaged.

Specification:

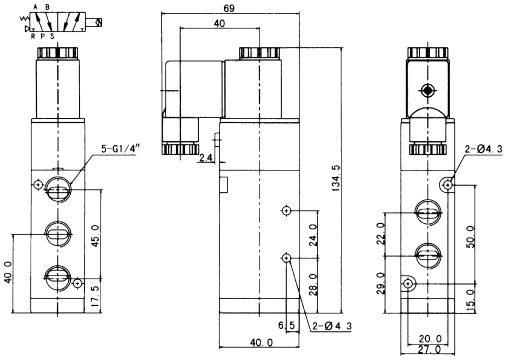
Type	4V310-08	4V320-08	4V330C-08	4V330E-08	4V330P-08	4V310-10	4V320-10	4V330C-10	4V330E-10	4V330P-10
	4A310-08	4A320-08	4A330C-08	4A330E-08	4A330P-08	4A310-10	4A320-10	4A330C-10	4A330E-10	4A330P-10
Position number	2 Positon 5 Way		3 Position 5 Way			2 Positon 5 Way		3 Position 5 Way		
Effective sectional area	25mm²(CV=1.40)		18mm²(CV=1.00)			30mm²(CV=1.68)		18mm²(CV=1.00)		
Type	3V310-08	3V320-08	3A310-08	3A320-08		3V310-10	3V320-10	3A310-10	3A320-10	
Position number	2 Positon 3 Way					2 Positon 3 Way				
Effective sectional area	25mm²(CV=1.40)					30mm²(CV=1.68)				
Port size	input=output=exhausted=G1/4"					input=output=G3/8" output=G1/4"				
Fluid	Compressed Air									
Acting type	Internally pilot-actuated									
Working pressure MPa	0.2~0.8									
Ambient temperature ℃	-5~50									
Voltage range	± 10%									

How to order:

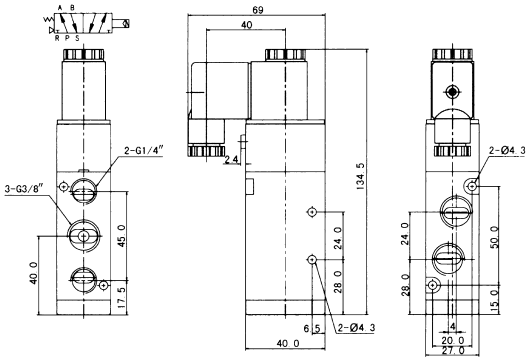


Dimension(mm):

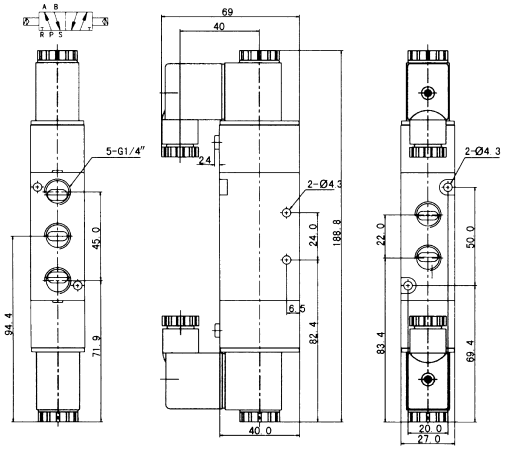
4V310–08



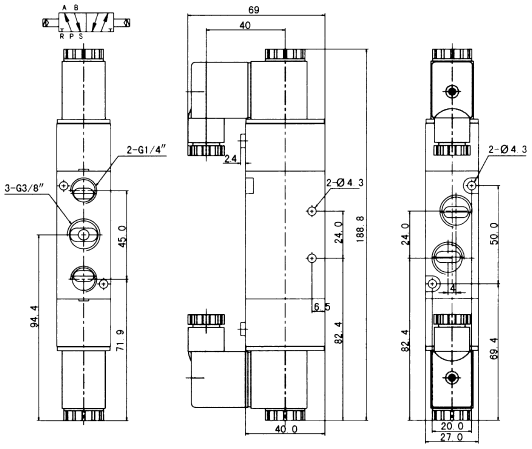
4V310–10



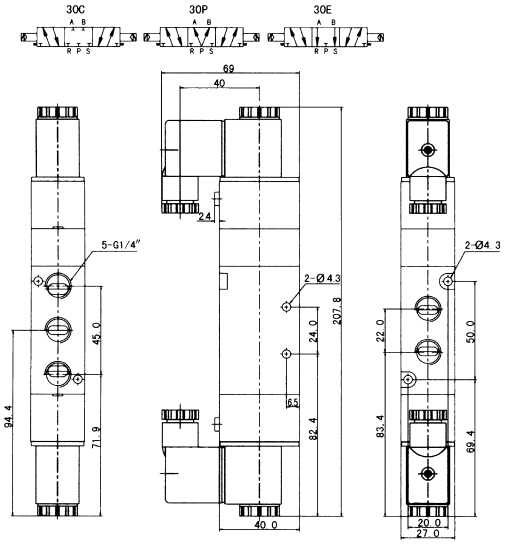
4V320–08



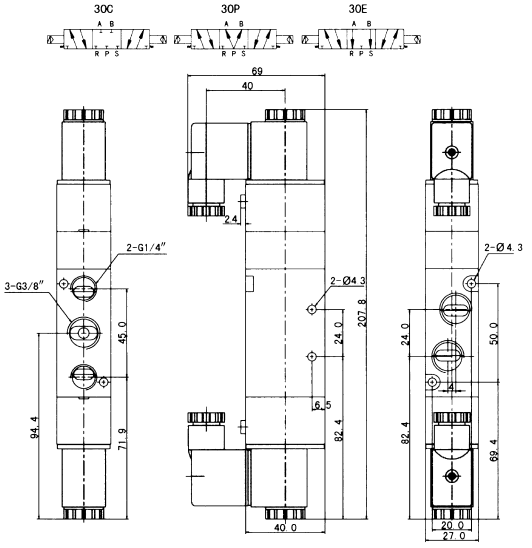
4V320–10



4V330–08



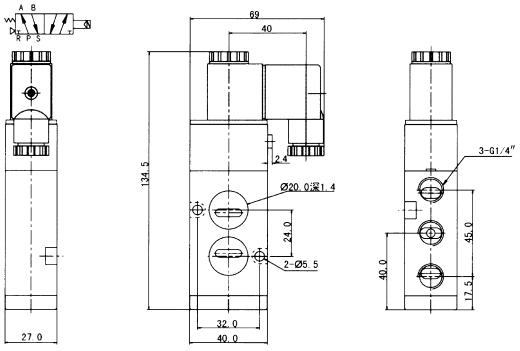
4V330–10



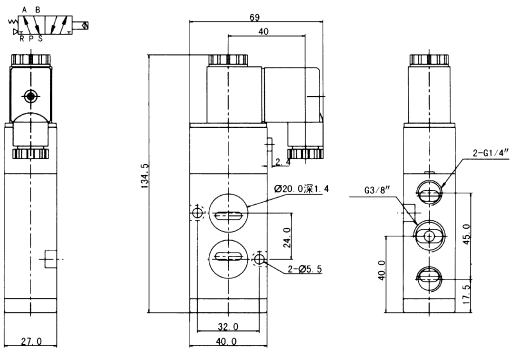
SDPC®

Dimension(mm):

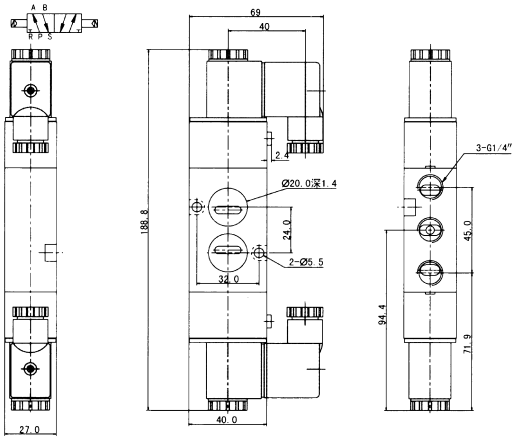
4M310–08



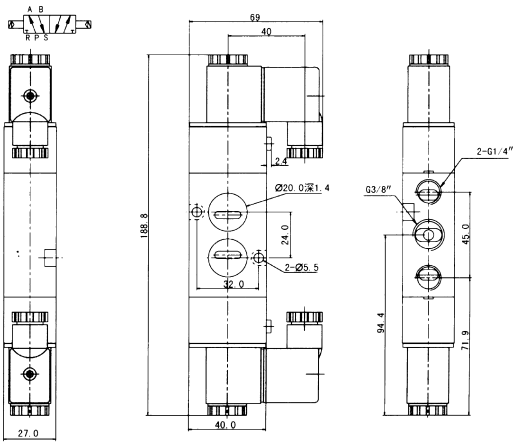
4M310–10



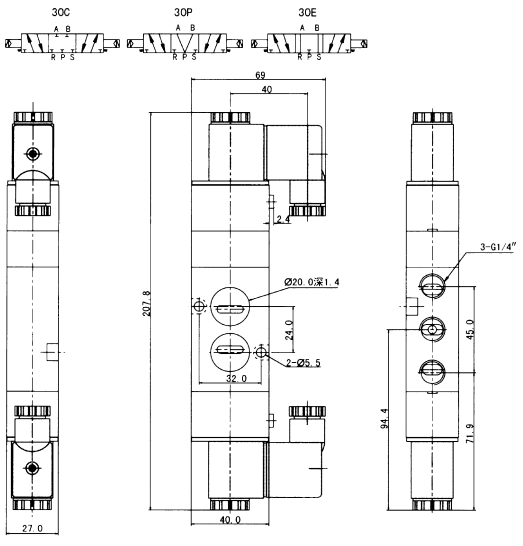
4M320–08



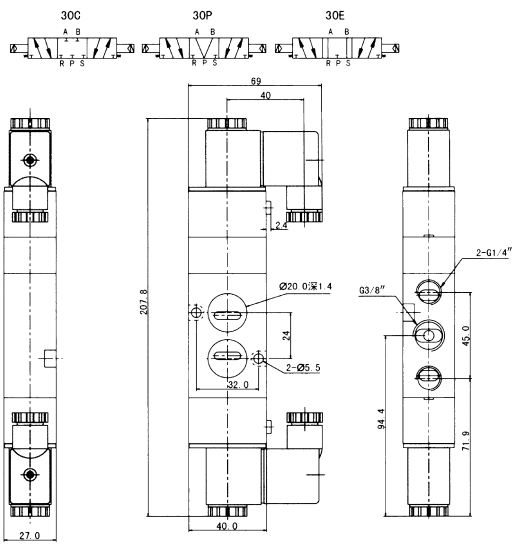
4M320–10



4M330–08

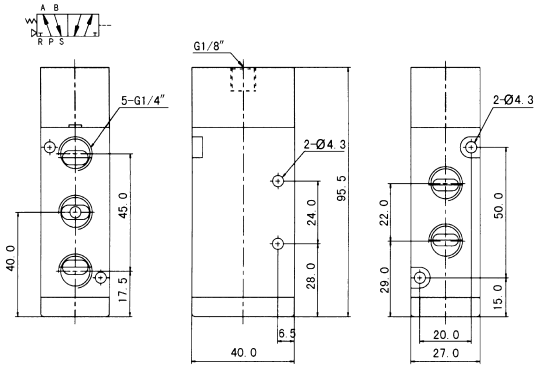


4M330–10

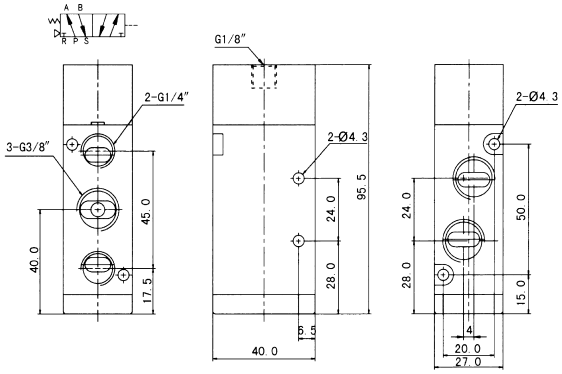


Dimension(mm):

4A310–08



4A310–10



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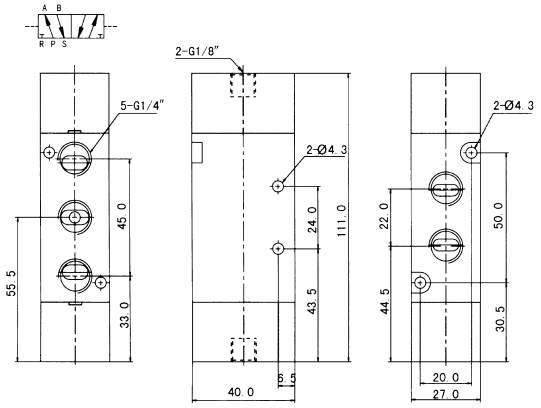
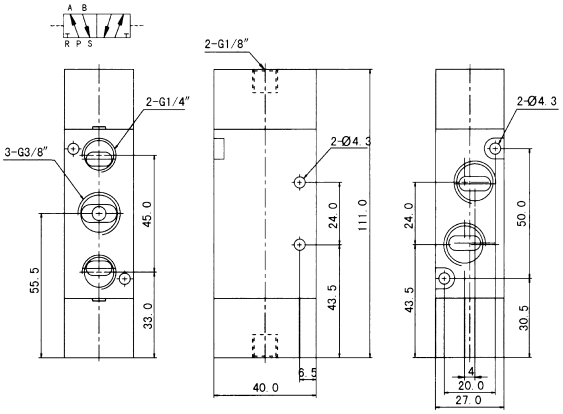
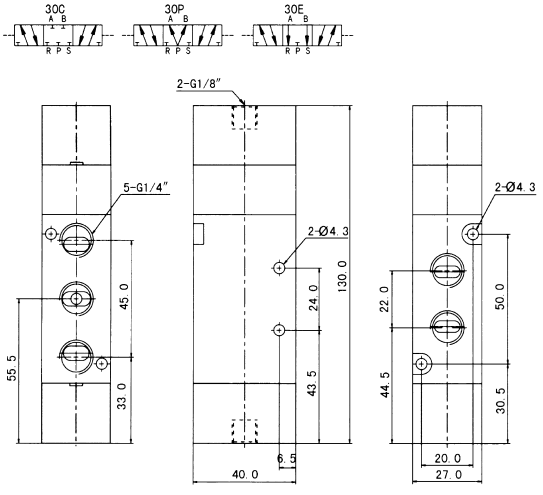


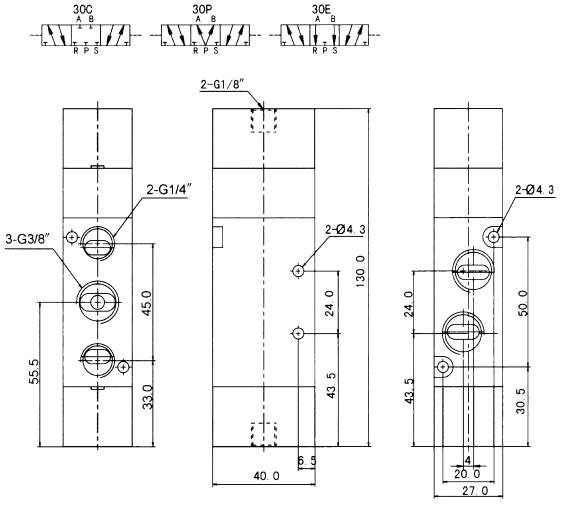
4A320–10



4A330–08



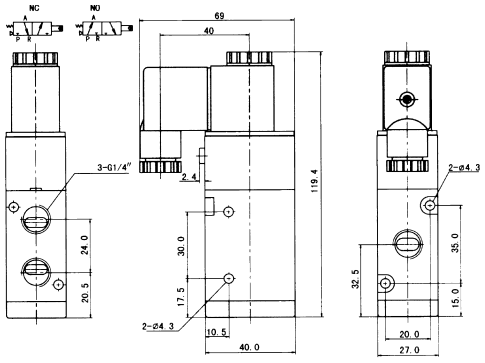
4A330–10



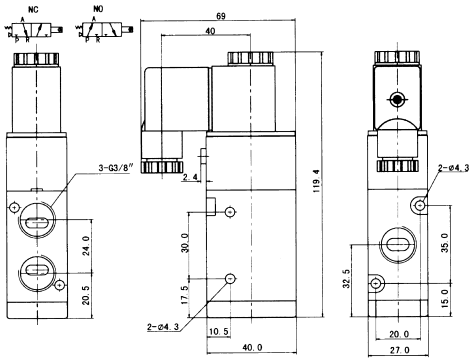
SDPC®

Dimension(mm):

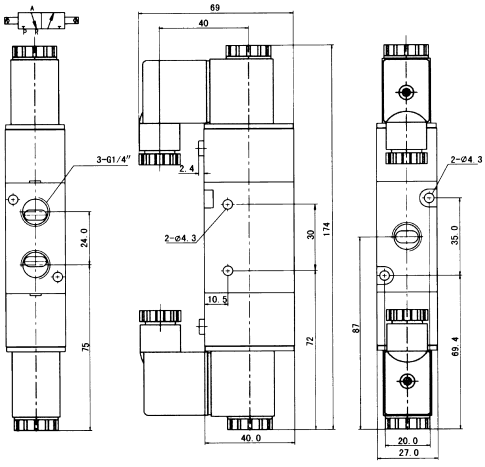
3V310–08



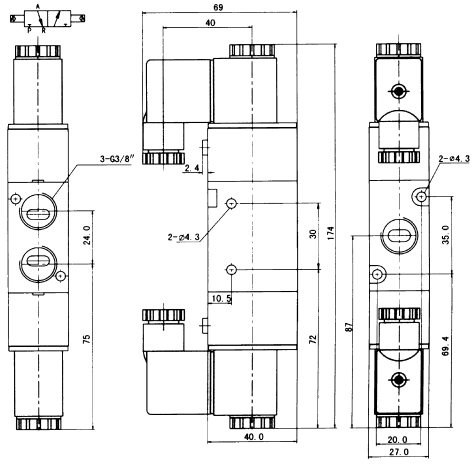
3V310–10



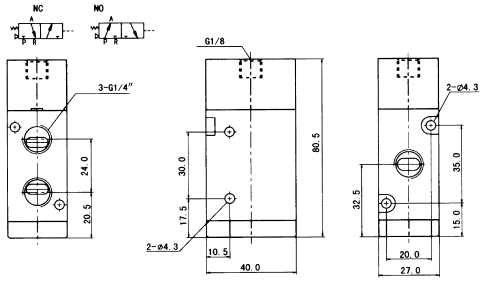
3V320–08



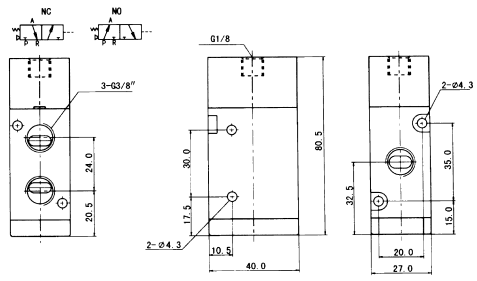
3V320–10



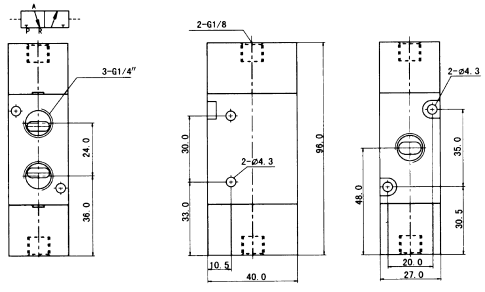
3A310–08



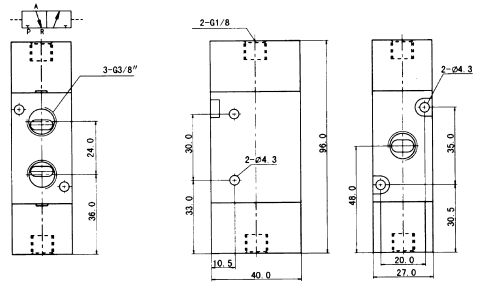
3A310–10



3A320–08



3A320–10



Solenoid Valve/Air Control Valve

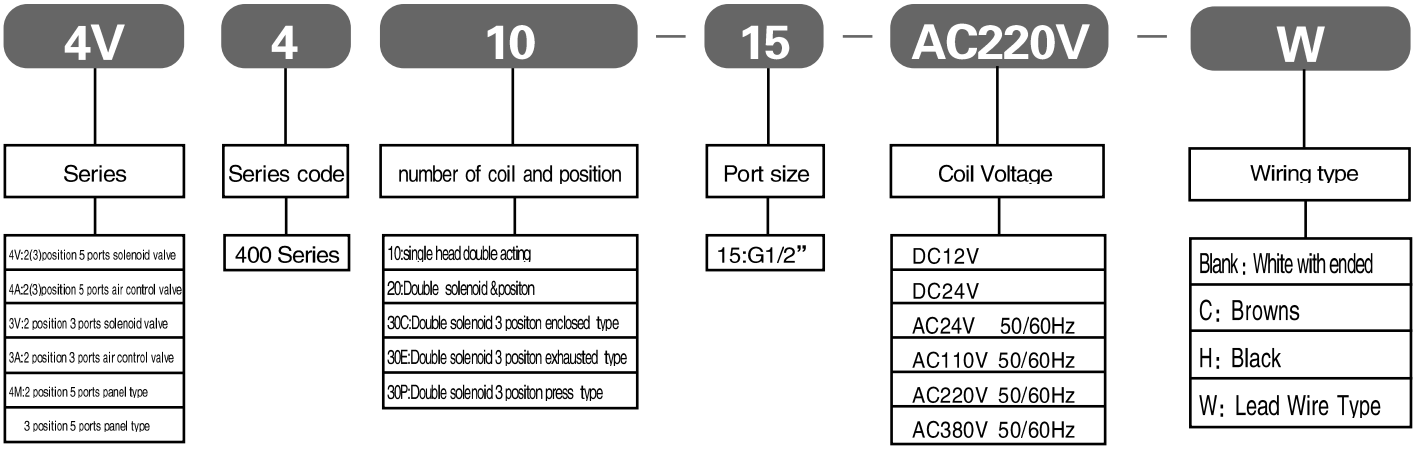
Characteristic:

- Service life:10million cycle times.
- The bodies are mirror finished and hardending treated.
- Equipped with imported oil seals with smaller friction and longer service life.
- With imported coils,low power consumption,speedy response.
- Capable of long service time without being damaged.

Specification:

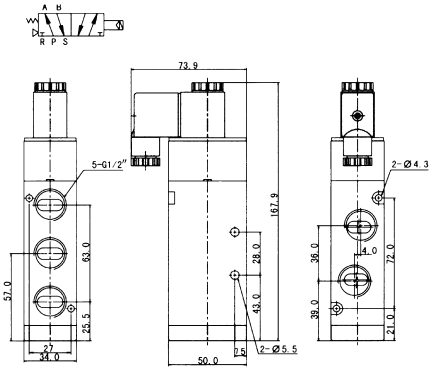
Type	4V410–15	4V420–15	4V430C–15	4V430E–15	4V430P–15
	4A410–15	4A420–15	4A430C–15	4A430E–15	4A430P–15
Position number	2 Positon 5 Way		3 Position 5 Way		
Effective sectional area	25mm²(CV=1.40)		30mm²(CV=1.68)		
Type	3V410–15	3V420–15	3A410–15	3A420–15	
Position number	2 Positon 3 Way				
Effective sectional area	50mm²(CV=2.79)				
Port size	input=output=exhausted=G1/2”				
Fluid	Compressed Air				
Acting type	Internally pilot–actuated 式				
Working pressure MPa	0.2~0.8				
Ambient temperature ℃	–5~50				
Voltage range	± 10%				

How to order:

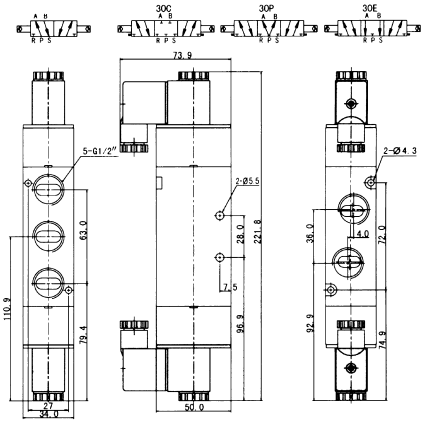


Dimension(mm):

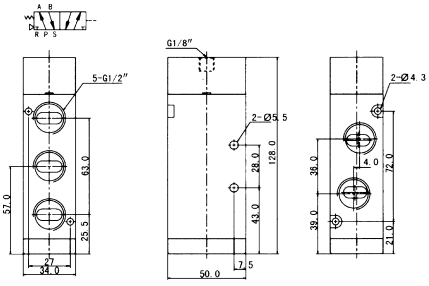
4V410–15



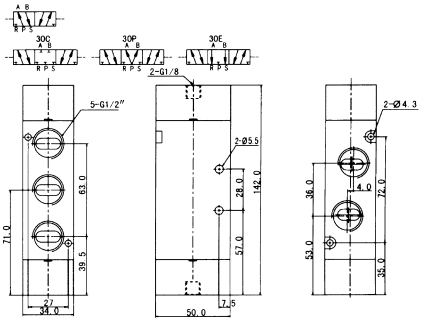
4V420–15、4V430–15



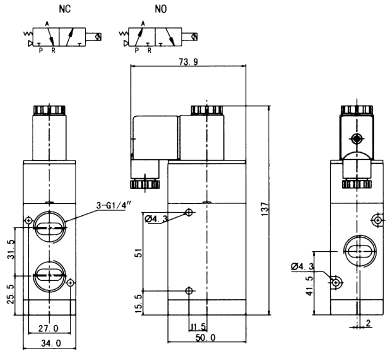
4A410–15



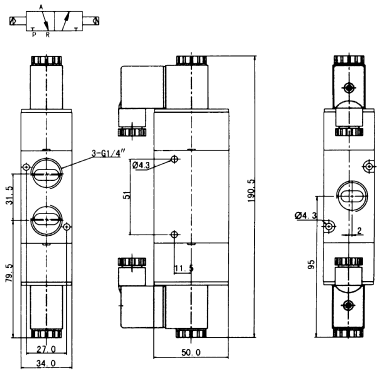
4A420–15、4A430–15



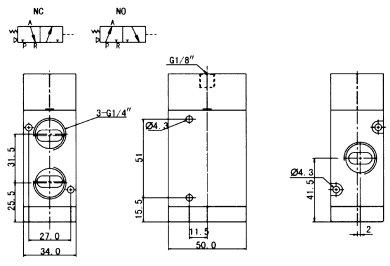
3V410–15



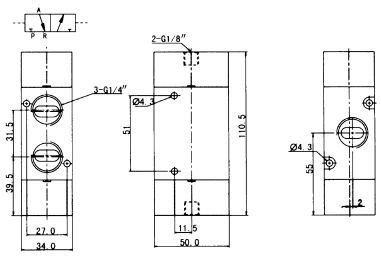
3V420–15



3A410–15

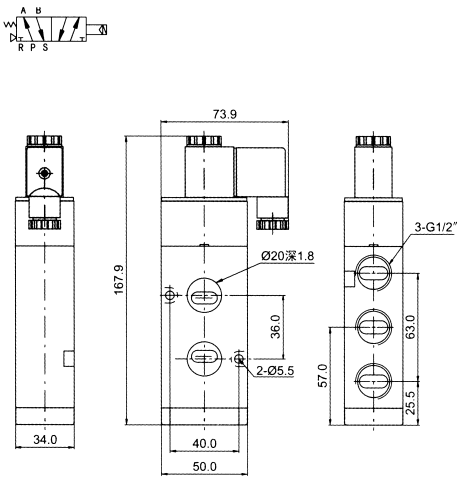


3A420–15

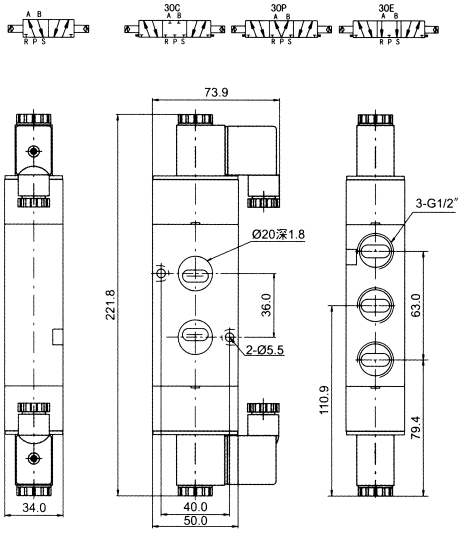


Dimension(mm):

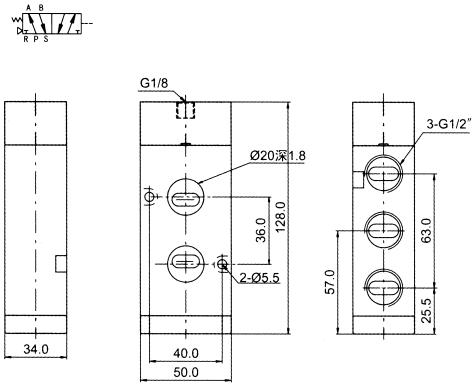
4M410–15



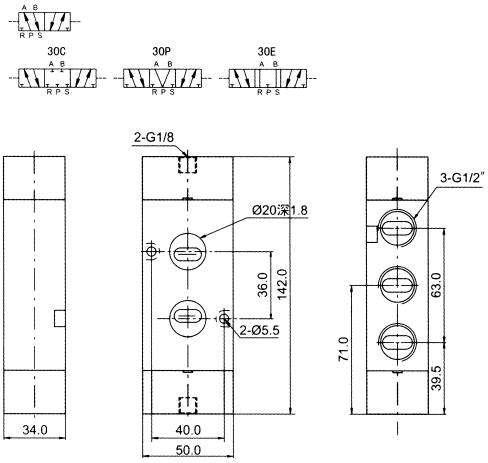
4M420–15、4M430–15



4A410–15B



4A420–15B、4A430–15B



SDPC®

Solenoid Valve

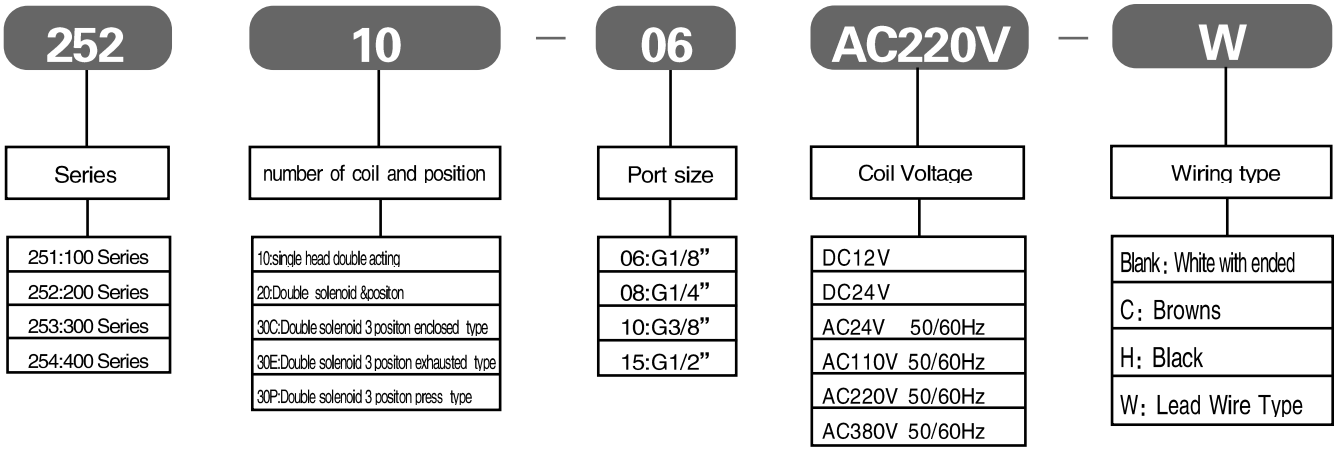
Characteristic:

- Service life:10million cycle times.
- The bodies are mirror finished and hardending treated.
- Equipped with imported oil seals with smaller friction and longer service life.
- With imported coils,low power consumption,speedy response.
- Capable of long service time without being damaged.

Specification:

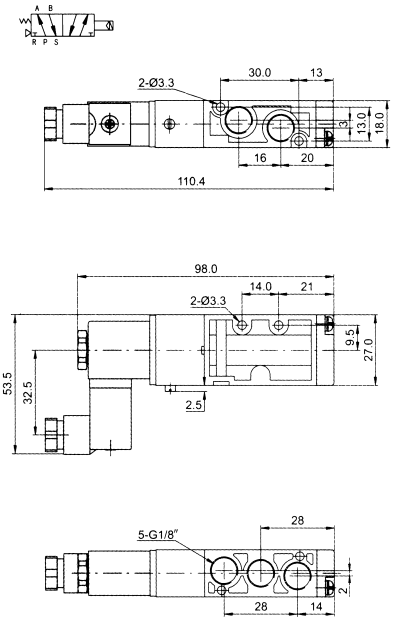
Type	25110-06	25120-06	25130C(E/P)-06	25210-08	25220-08	25230C(E/P)-08	25310-10	25320-10	25330C(E/P)-10	25410-15	25420-15	25430C(E/P)-15
Position number	2 Positon 5 Way		3 Positon 5 Way	2 Positon 5 Way		3 Positon 5 Way	2 Positon 5 Way		3 Positon 5 Way	2 Positon 5 Way		3 Positon 5 Way
Effective sectional area	12mm²(CV=0.67)		9mm²(CV=0.5)	14mm²(CV=0.78)		12mm²(CV=0.69)	25mm²(CV=1.40)		18mm²(CV=1.00)	50mm²(CV=2.79)		30mm²(CV=1.68)
Fluid	Compressed Air											
Acting type	Internally pilot-actuated											
Working pressure MPa	0.2~0.8											
Ambient temperature ℃	-5~50											
Voltage range	± 10%											

How to order:

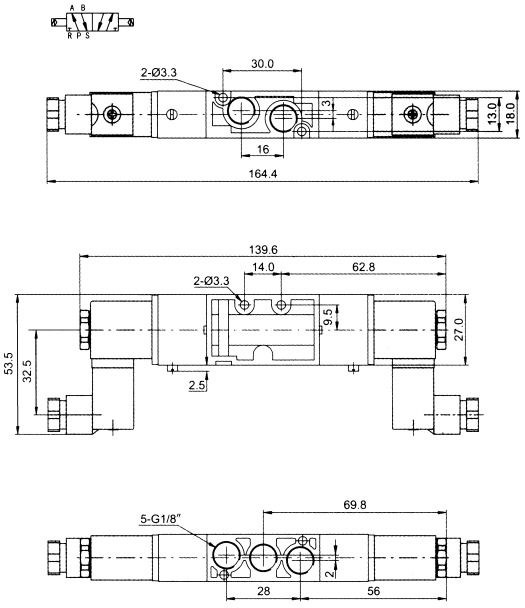


Dimension(mm):

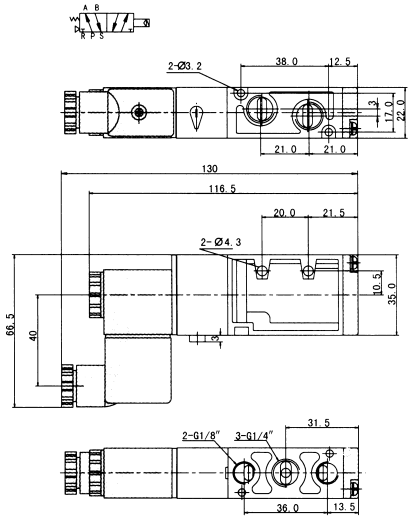
25110–06



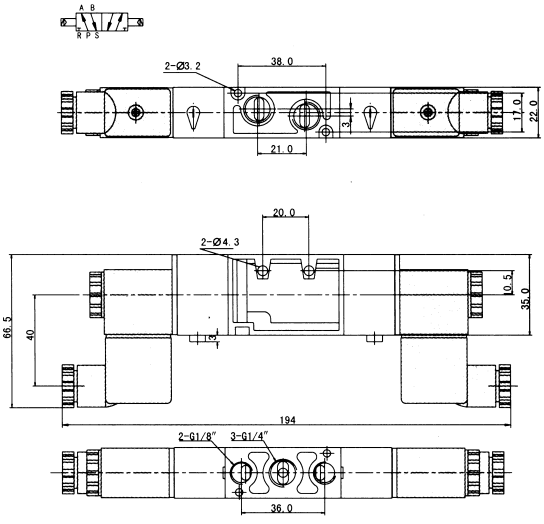
25120–06



25210–08



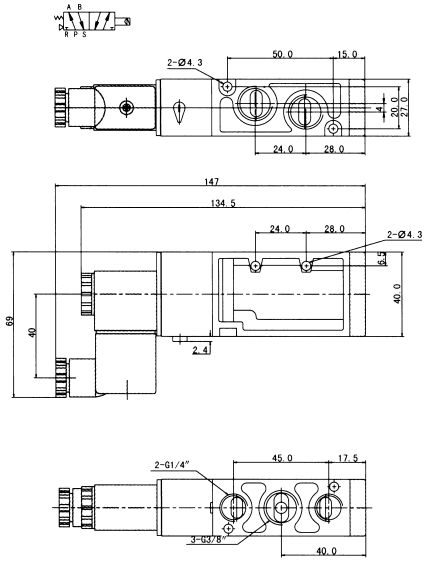
25220–08



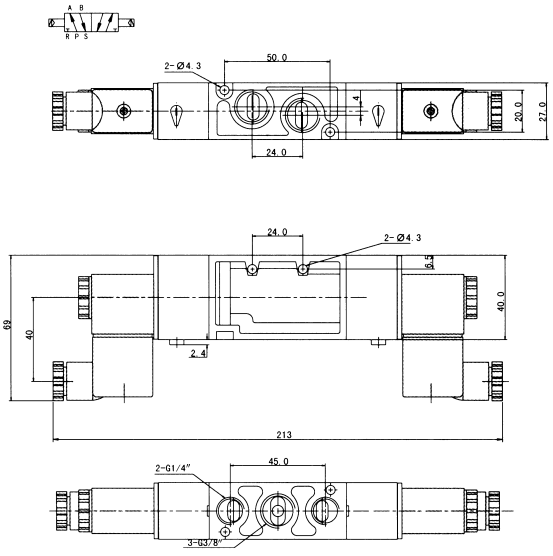
SDPC®

Dimension(mm):

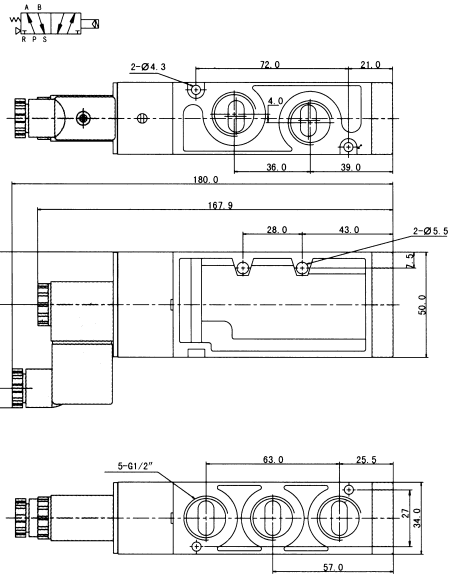
25310–10



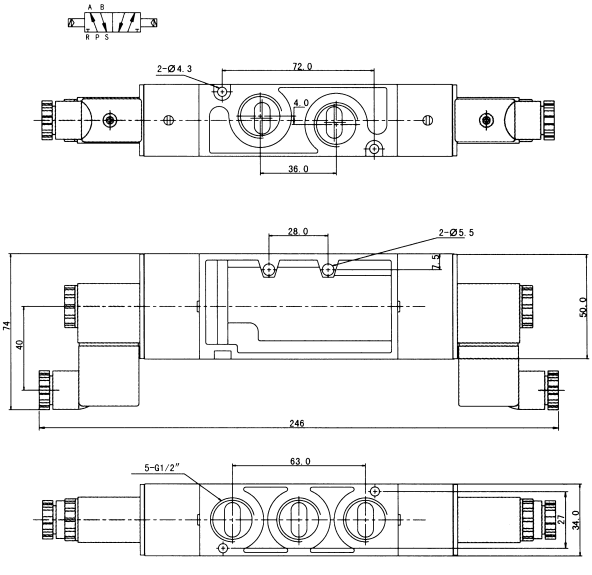
25320–10



25410–15

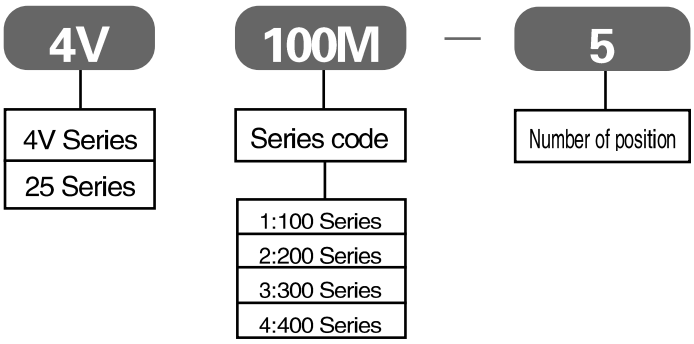


25420–15



Manifold

How to order:



Dimension(mm):

Position number

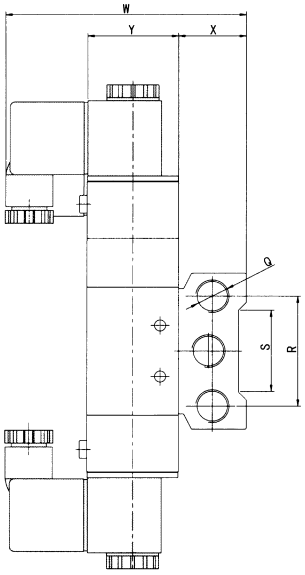
Fluid

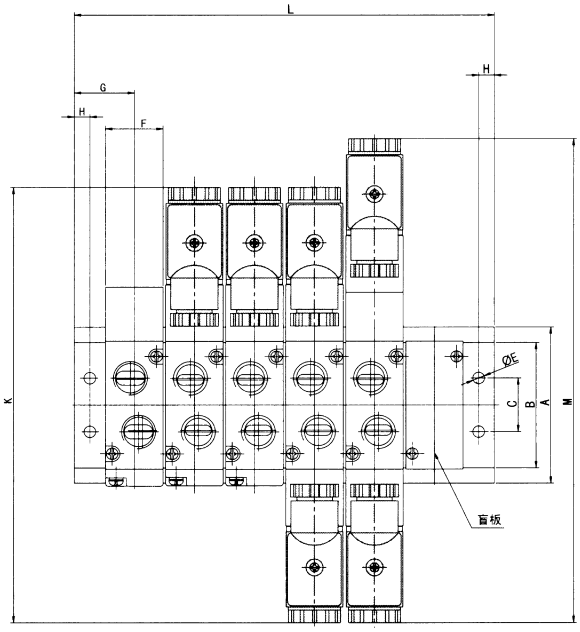
Acting type

Working pressure MPa

Ambient temperature ℃

Voltage range





Type	A	B	C	E	F	G	H	K	L	M	Q	R	S	W	X	Y
100M□F	58	44	20	4.2	18.3	19	5	140	(n–1)*19+38	155	G1/4	40	30	78.5	25	27
200M□F	61	52	21	4.3	22.4	23	6	170	(n–1)*23+46	189	G1/4	43	32	92.5	26	35
300M□F	75	65	26	4.5	27.3	27	6	189	(n–1)*28+54	208	G3/8	53	48	99	30	40
400M□F	104	95	32	5.5	34.3	31.5	7	222	(n–1)*35+63	243	G1/2	68	67	112	38	50

SDPC®

Solenoid Valve

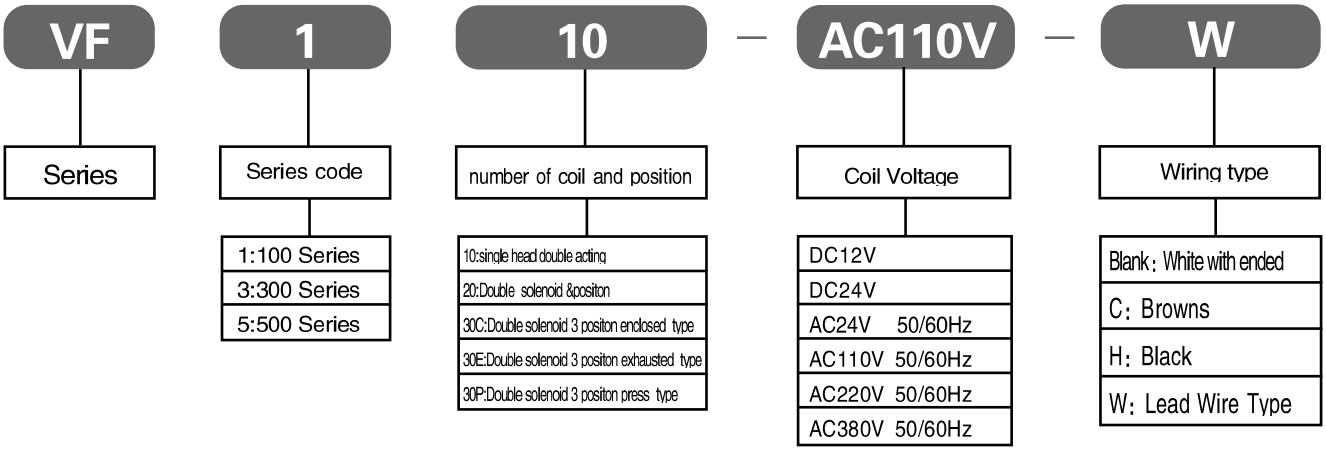
Characteristic:

- Service life:10million cycle times.
- The bodies are mirror finished and hardending treated.
- Equipped with imported oil seals with smaller friction and longer service life.
- With imported coils,low power consumption,speedy response.
- Capable of long service time without being damaged.

Specification:

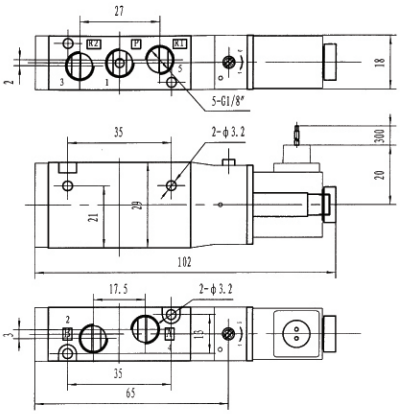
Type	VF110 VF120	VF310 VF320	VF510 VF520
Position number	2 Positon 5 Way		
Fluid	Compressed Air		
Acting type	Internally pilot-actuated		
Working pressure MPa	0.2~0.8		
Ambient temperature ℃	-5~50		
Voltage range	± 10%		

How to order:

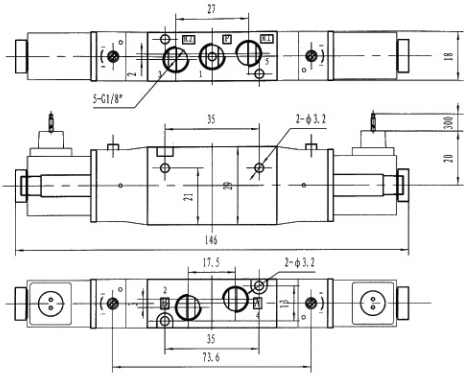


Dimension(mm):

VF110

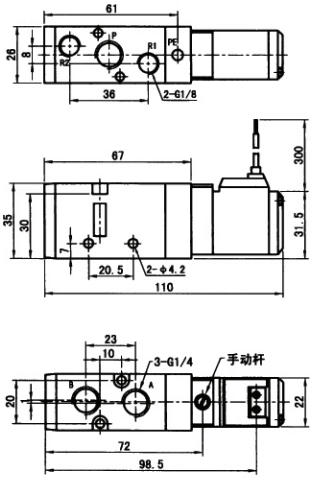


VF120

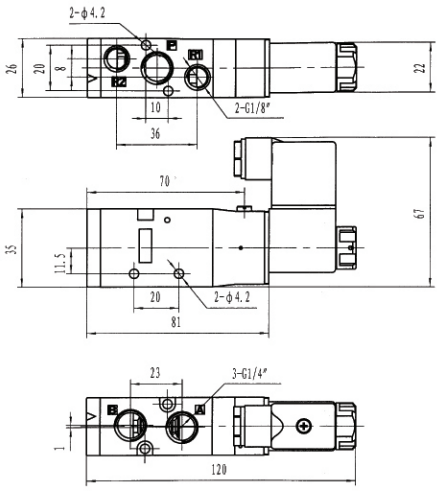


VF310

Direct guide line

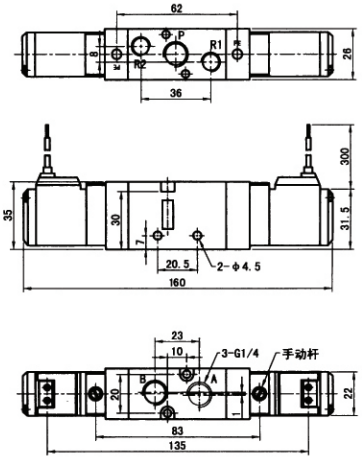


Socket type

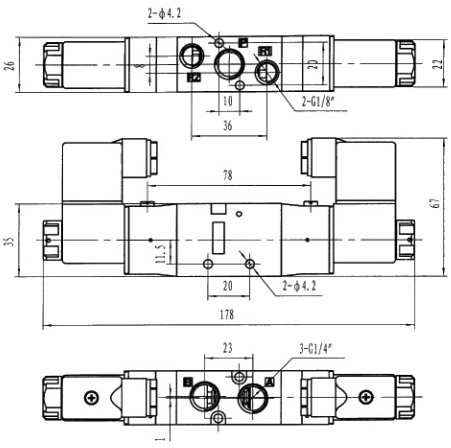


VF320

Direct guide line



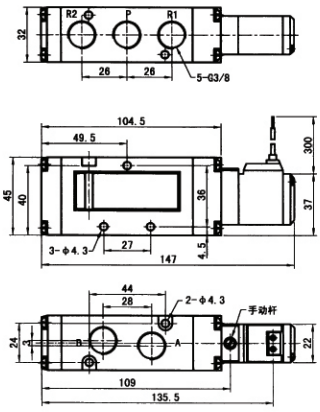
Socket type



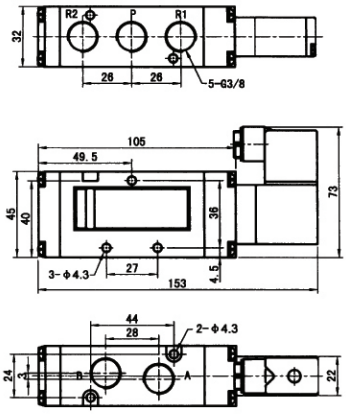
Dimension(mm):

VF510

Direct guide line

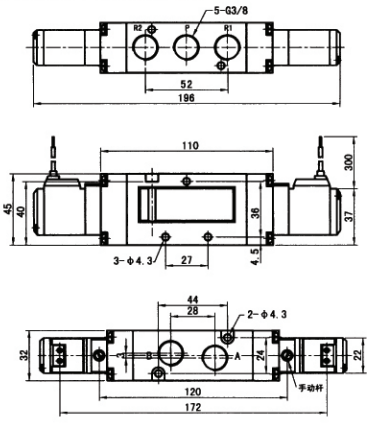


Socket type

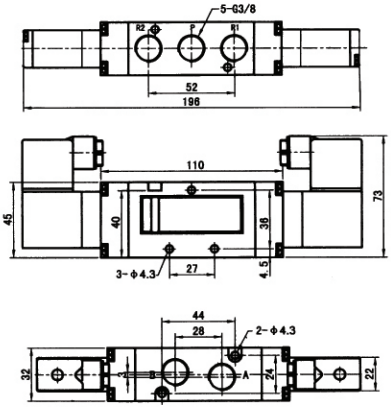


VF520

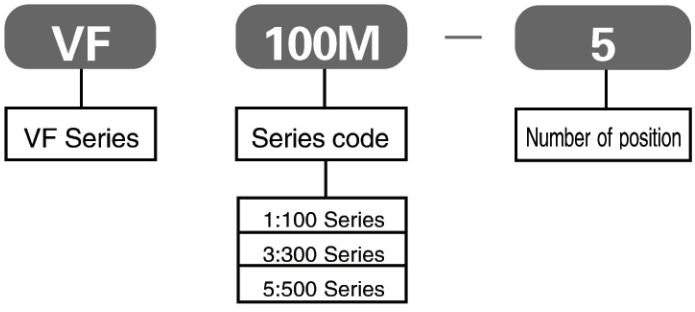
Direct guide line



Socket type

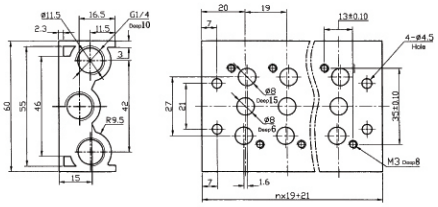


Manifold **How to order:**

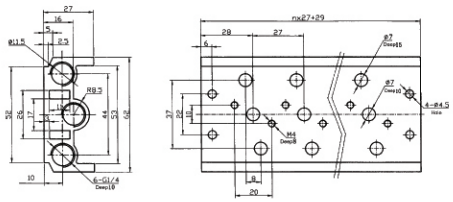


Dimensions(mm):

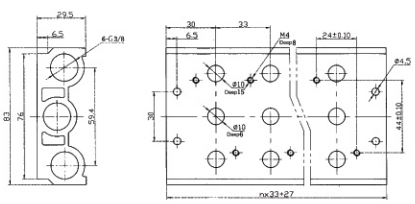
VF100



VF300



VF500



Solenoid Valve

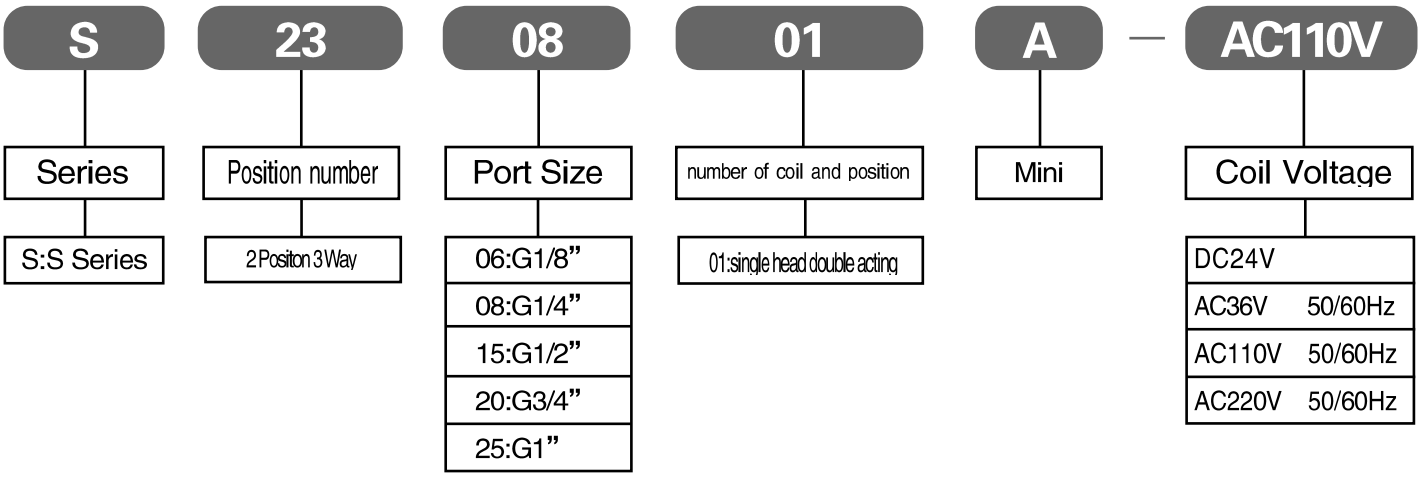
Characteristic:

- High flow rate.
- The bodies are the mirror finished and hardening treated.
- Equipped with imported oil seals with smaller friction and longer service life.

Specification:

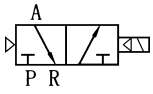
Type	S230601A	S230801A	S230801	S231501
Position number	2 Positon 3 Way			
Acting type	Internally pilot–actuated			
Port size G	1/8"	1/4"	1/4"	1/2"
Fluid	Compressed Air			
Operating pressure range Mpa	0.2~0.8			
Ambient temperature	–5~60℃			
Voltage range	± 10%			

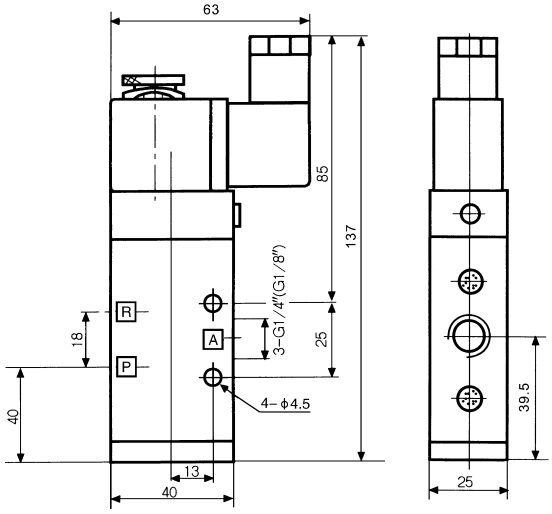
How to order:



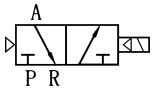
Dimension(mm):

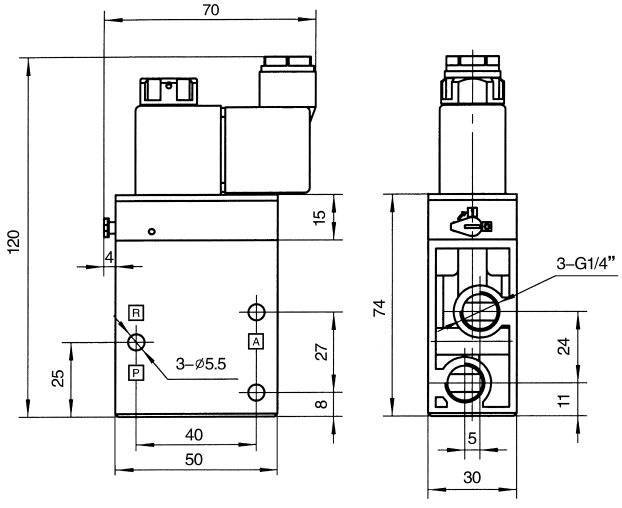
S230601A
S230801A



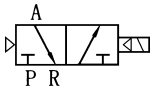


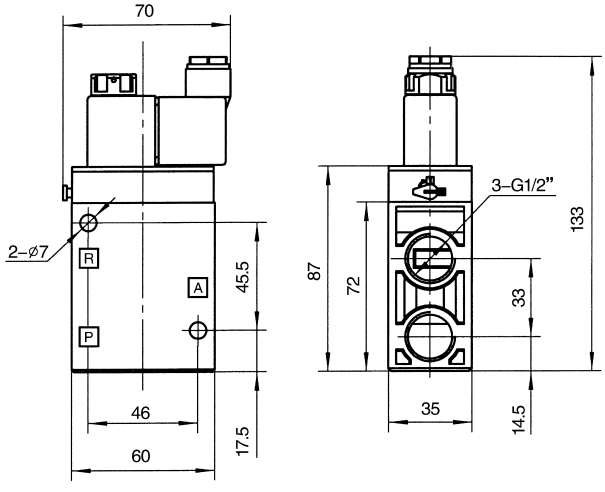
S230801





S231501





Solenoid Valve

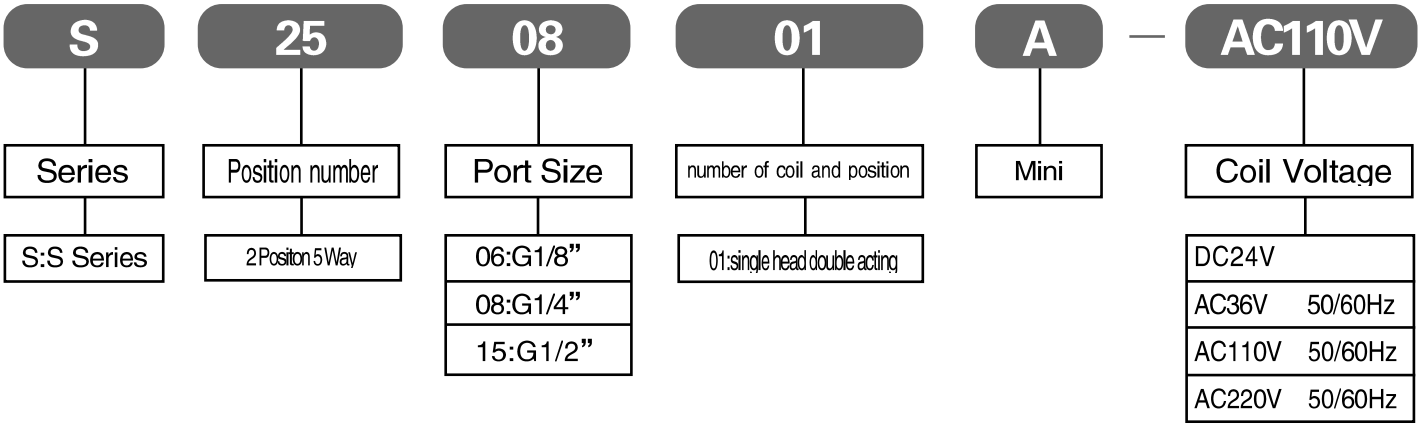
Characteristic:

- High flow rate.
- The bodies are the mirror finished and hardening treated.
- Equipped with imported oil seals with smaller friction and longer service life.

Specification:

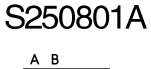
Type	S250601A	S250801A	S250801	S251501
Position number	2 Positon 5 Way			
Acting type	Internally pilot-actuated			
Port size G	1/8"	1/4"	1/4"	1/2"
Fluid	Compressed Air			
Operating pressure range Mpa	0.2~0.8			
Ambient temperature	-5~60℃			
Voltage range	± 10%			

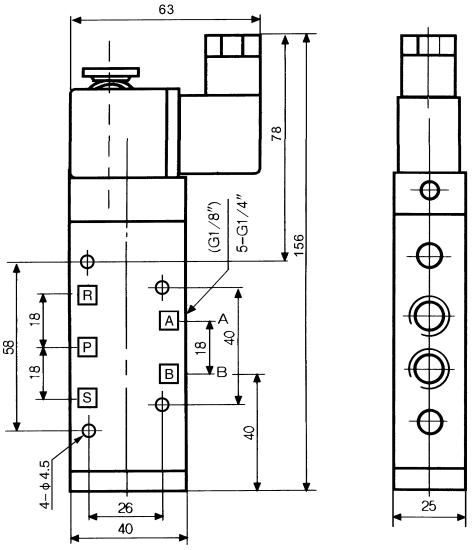
How to order:



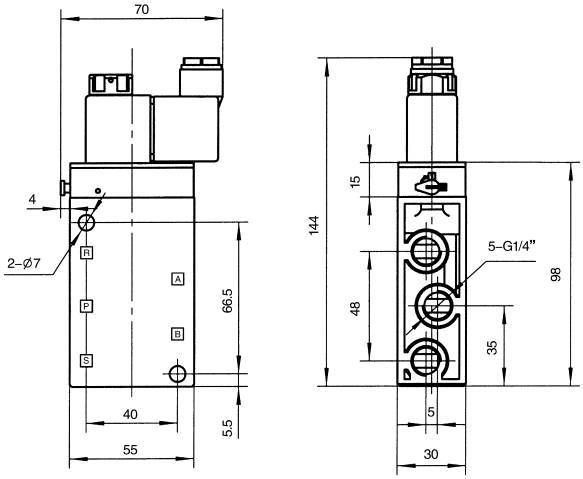
Dimension(mm):

S250601A
S250801A

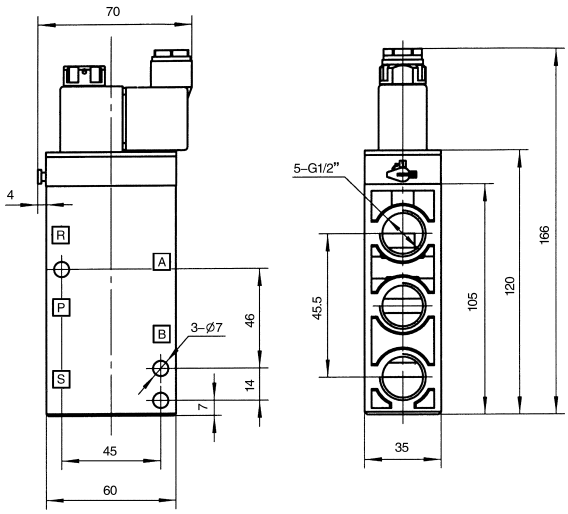




S250801



S251501



Solenoid Valve

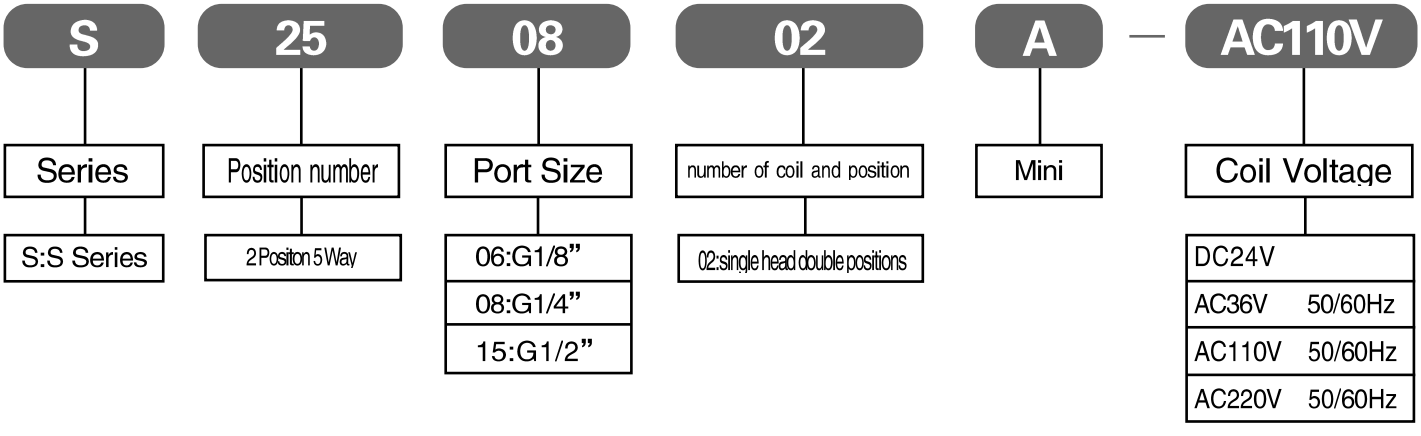
Characteristic:

- High flow rate.
- The bodies are the mirror finished and hardening treated.
- Equipped with imported oil seals with smaller friction and longer service life.

Specification:

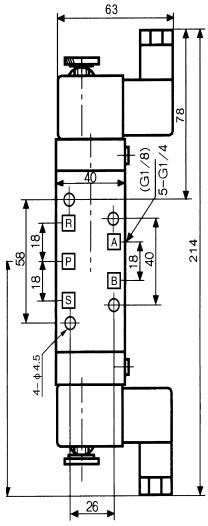
Type	S250602A	S250802A	S250802	S251502
Position number	2 Positon 5 Way			
Acting type	Internally pilot–actuated			
Port size G	1/8"	1/4"	1/4"	1/2"
Fluid	Compressed Air			
Operating pressure range Mpa	0.2~0.8			
Ambient temperature	–5~60℃			
Voltage range	± 10%			

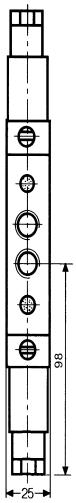
How to order:



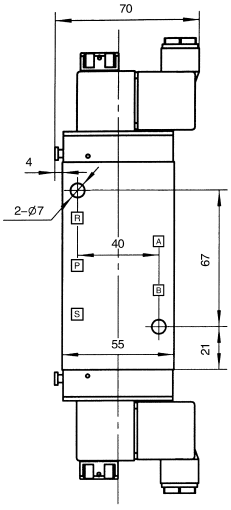
Dimension(mm):

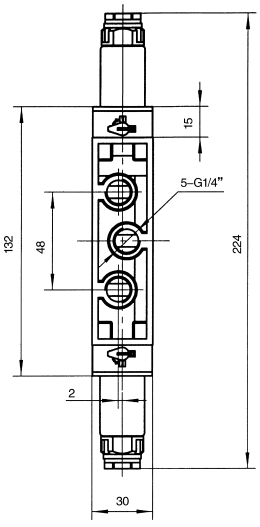
S250602A
S250802A



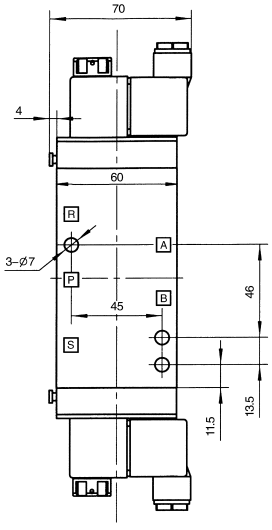


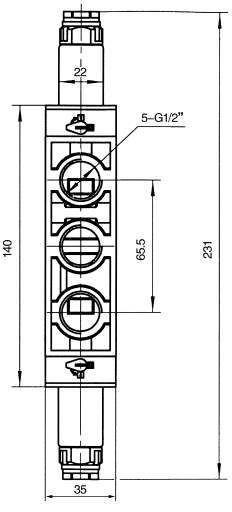
S250802





S251502





Solenoid Valve

Characteristic:

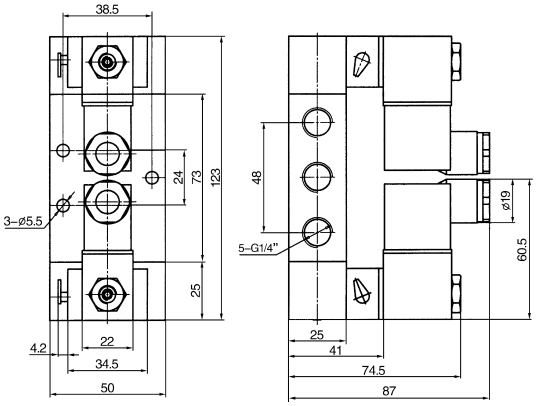
- The bodies are the mirror finished and hardening treated.
- Equipped with imported oil seals with smaller friction and longer service life.

Specification:

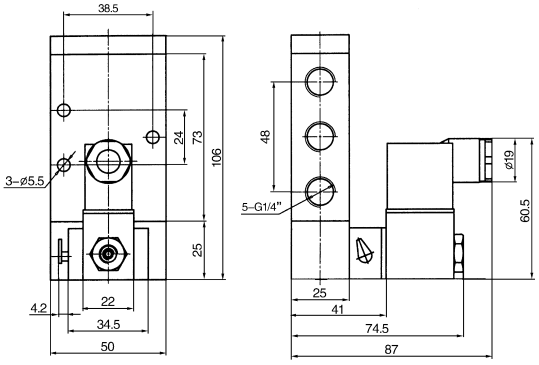
Type	SB250801	SB250802	SB251501	SB251502
Position number	2 Positon 5 Way			
Acting type	Internally pilot–actuated			
Port size G	1/4”		1/2”	
Fluid	Compressed Air			
Operating pressure range Mpa	0.2~0.8			
Ambient temperature	–5~60			
Voltage range	± 10%			

Dimension(mm):

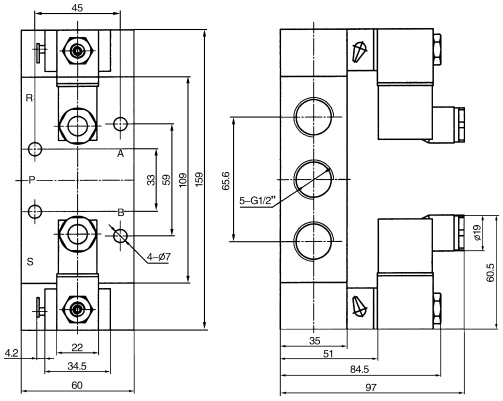
■ SB250802



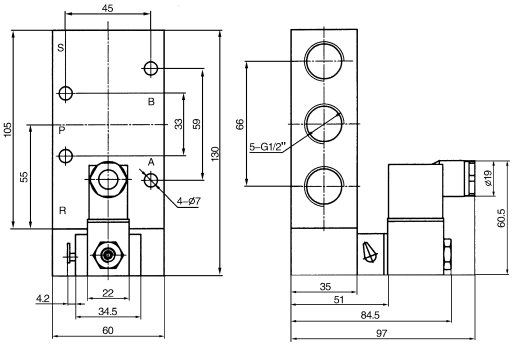
■ SB250801



■ SB251502



■ SB251501



SDPC®

Solenoid Valve

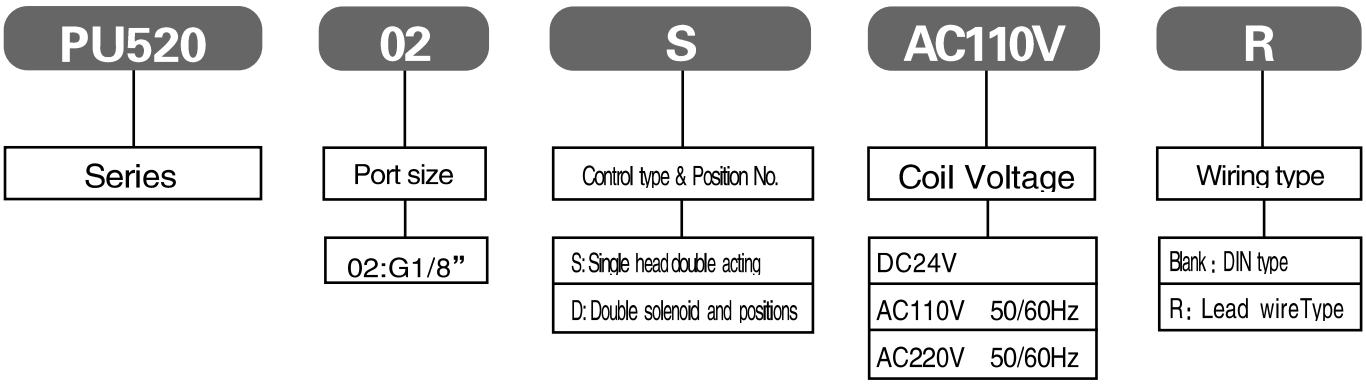
Characteristic:

- Low power consumption,longer service life,the life of product is 30 million cycle times under the regulated environment.
- The bodies are mirror finished and hardending treated.
- Equipped with imported oil seals with smaller friction and longer service life.
- With imported coils,low power consumption,speedy response.
- The product is pollution–free and widely used in food,pharmaqutical industry electronic industry etc.

Specification:

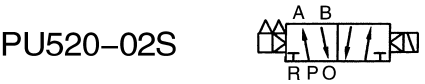
Type	PU520–02S	PU520–02D
Position number	2 Positon 5 Way	
Acting type	Internally pilot–actuated	
Effective sectional area	18mm^2	
Port size G	(P、A、B)为 G1/4”，(R、S)为 G1/8”	
Fluid	Compressed Air	
Operating pressure range Mpa	0.15~0.8	
Ambient temperature	–5~50	
Voltage range	± 10%	

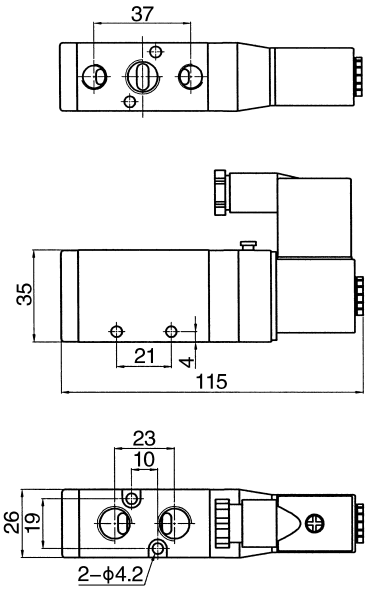
How to order:



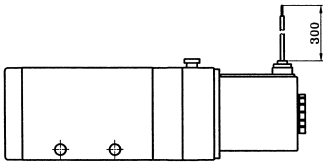
Dimension(mm):

PU520–02S

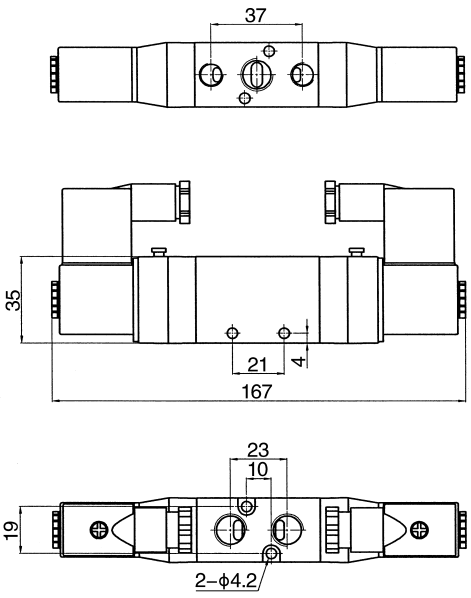




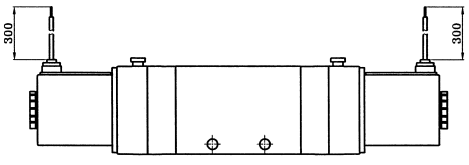
R Lead wire type



PU520–02D



R Lead wire type



High Pressure Solenoid Valve

Characteristic:

This series valve is the direction –changer valve, type stop structure ,stable performance, safety reliable comprehensively used all kinds of blower .

Specification:

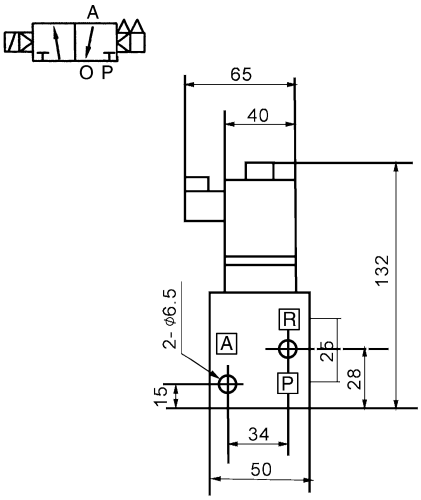
Type	SD23JD–08	SD23JD–15
Acting type	Internally pilot–actuated	
Position number	2 Positon 3 Way	
Port size G	1/4"	1/2"
Fluid	Compressed Air	
Operating pressure range Mpa	0.2~1.6	
Ambient temperature	–5~60℃	
Voltage range	± 10%	

How to order:

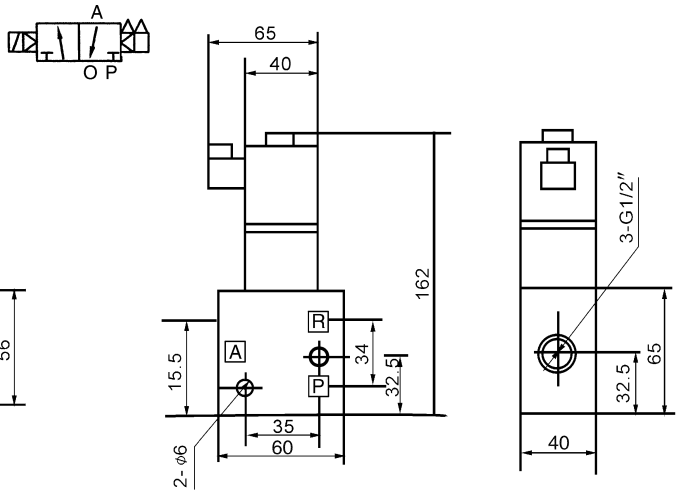
SD	23	JD	—	8
Series	Position number	Struction		Port size
High Solenoid Valve	2 position 3 way	Poppet		08:G1/4" 15:G1/2"

Dimension(mm):

■ SD23JD-08



■ SD23JD-15



High Pressure Solenoid Valve

Characteristic:

This series valve is the direction –changer valve, type stop structure ,stable performance, safety reliable comprehensively used all kinds of blower .

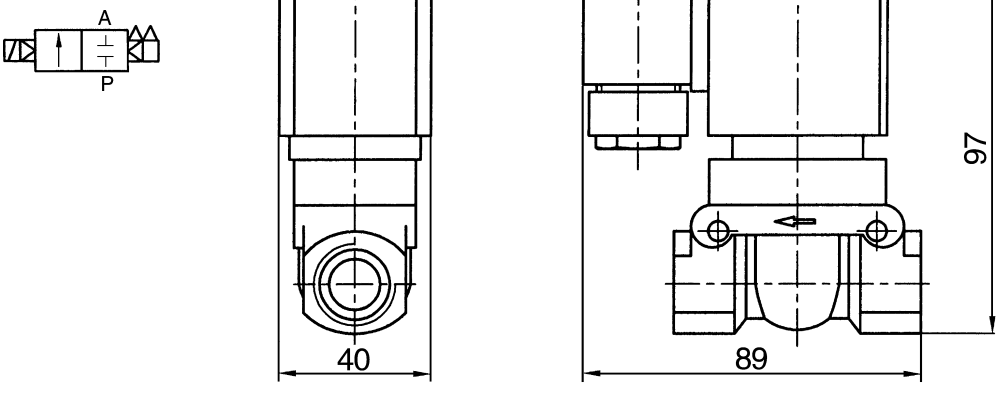
Specification:

Type	SVH23JD–08	SVH23JD–15
Acting type	Internally pilot–actuated	
Position number	2 Positon 3 Way	
Fluid	Compressed Air	
Port size G	1/4"	1/2"
Operating pressure range Mpa	0.2~3	
Ambient temperature	–5~60℃	
Voltage range	± 10%	

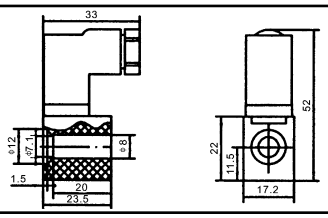
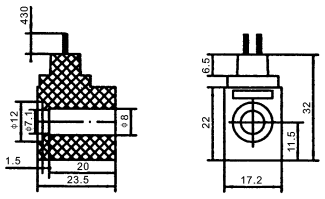
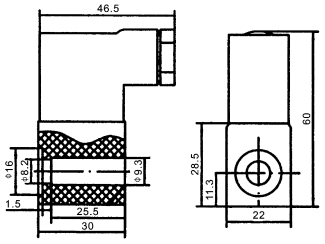
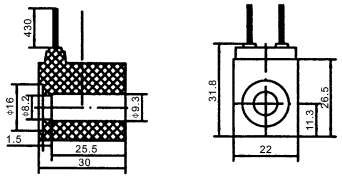
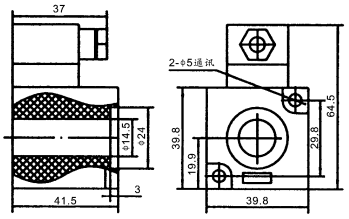
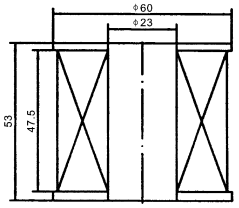
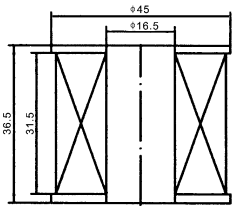
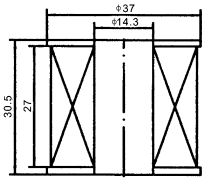
How to order:

SD	23	JD	—	8
Series	Position number	Struction		Port size
High Solenoid Valve	2 position 3 way	Poppet		08:G1/4" 15:G1/2"

Dimension(mm):



Coil

Type	Photo	Dimension	Appliable range
110C			4V110–06 25110–06
110C–W			
210C			4V2000 Series 4V3000 Series 4V4000 Series S–A Series VF Series
210C–W			
200C			SD23JD–8, 15
2LC			2L170–15, 2L170–20 2L200–25, 2L300–35 2L300–40, 2L500–50
2W160C			2W160–15, 2W200–20 2W250–25, 2W350–35 2W400–40, 2W500–50
2W025C			2W025, 2W040

Solenoid Valve

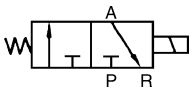
Specification:

Type	3V1–06	3V1–06A
Fluid	Compressed Air(Filtered 40mm)	
Acting type	Directly operated	
Positon number	2 postion 3 way	
Port sizeG	1/8”	
Orifice (mm)	1.2	
Operating pressure range Mpa	0~0.8	
Ambient temperature	–5~60	
Voltage range	± 10%	

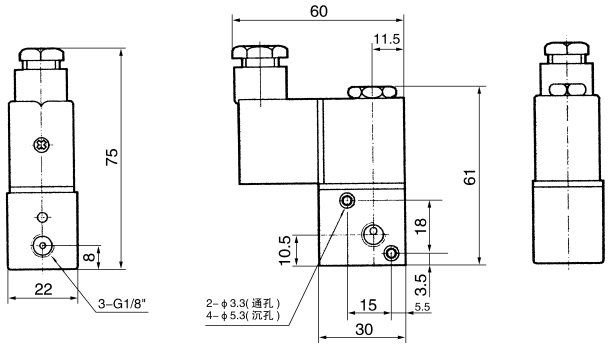
Characteristic:

- Service life:10 million cycle times.
- With import coils,low power consumption.
- Capable of long service time without being damaged.

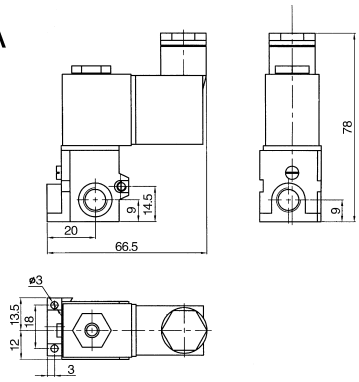
Dimension(mm):



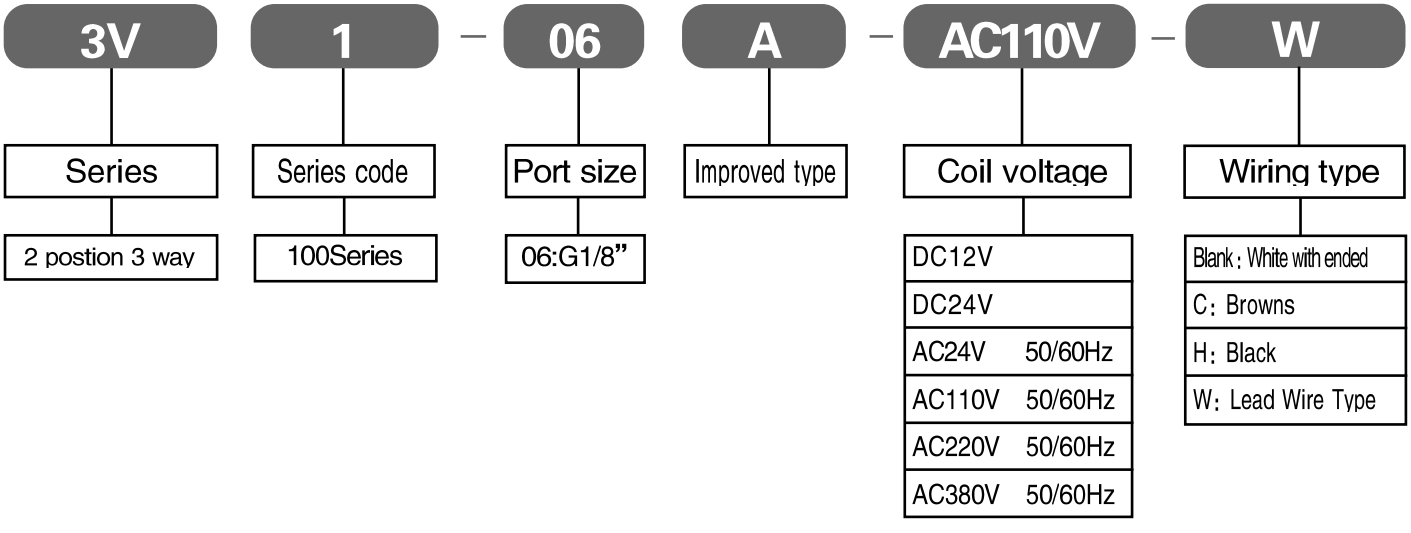
■ 3V1–06



■ 3V1–06A



How to order:



Solenoid Valve

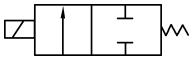
Characteristic:

- Service life:10 million cycle times.
- With import coils,low power consumption.
- Capable of long service time without being damaged.

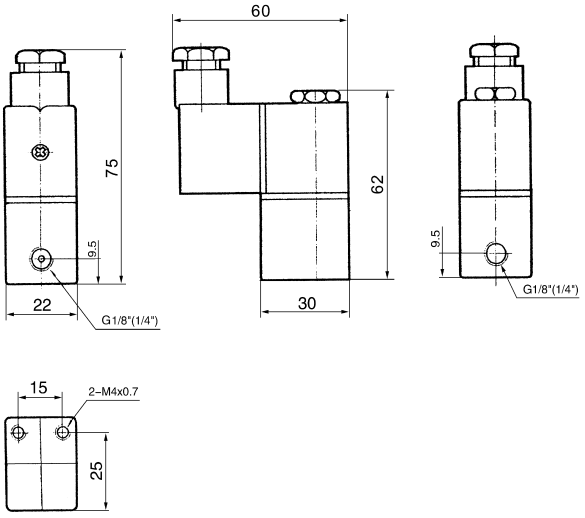
Specification:

Type	2V025–06	2V025–08
Medium	Air、Water、Oil	
Acting type	Directly oerated	
Type	Normally closed	
Port diameter(mm)	2.5	
Port size(G)	1/8″	1/4″
Operating pressure(Mpa)	0–0.8	
Temperature range	–5~60℃	
Voltage range	± 10%	

Dimension(mm):



■ 2V025–06、08



How to order:

2V	025	— 06	— AC110V	— W
Series	Port diameter	Port size	Coil voltage	Wiring type
2 position 2 way	025:2.5mm	06:G1/8” 08:G1/4”	DC12V DC24V AC24V 50/60Hz AC110V 50/60Hz AC220V 50/60Hz AC380V 50/60Hz	Blank：White with ended C：Browns H：Black W：Lead Wire Type

Solenoid Valve

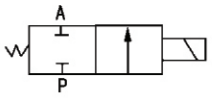
Characteristic:

- Service life:10 million cycle times.
- With import coils,low power consumption.
- Capable of long service time without being damaged.

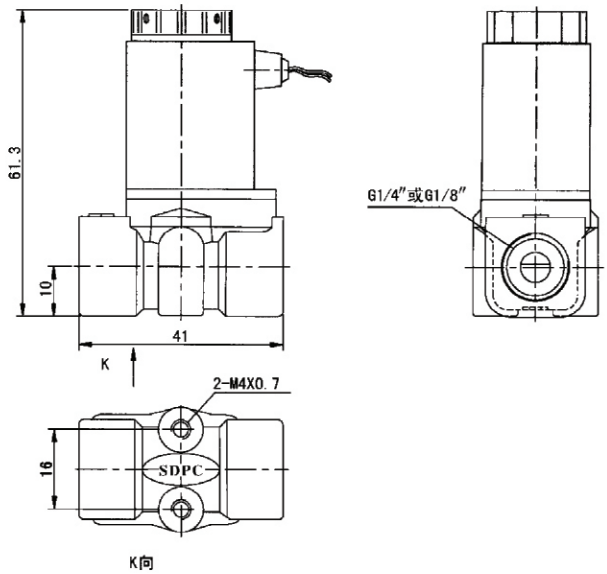
Specification:

Tpye	2P025-08
Fluid	Air,oil,water,gas
Acting type	Directly operated
Type	Normally closed
Port diameter mm	2.5
Port size G	1/4"
Voltage range	± 10%
Operating pressure Mpa	0-0.7
Ambient temperature	-5~60

Dimension(mm):



■ 2P025-08



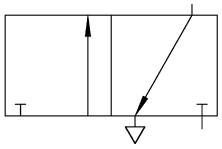
How to order:

2P	025	—	06	—	AC110V	—	W
Series	Port diameter		Port size		Coil voltage		Wiring type
2 position 2 way	025:2.5mm		06:G1/8" 08:G1/4"		DC12V DC24V AC24V 50/60Hz AC110V 50/60Hz AC220V 50/60Hz AC380V 50/60Hz		Blank: White with ended C: Browns H: Black W: 引线式

Solenoid Valve

Characteristic:

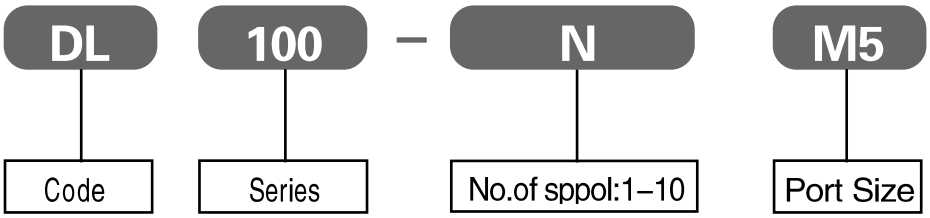
- Two position three way solenoid valve .
- Convenience for assembing on plate and manifold.



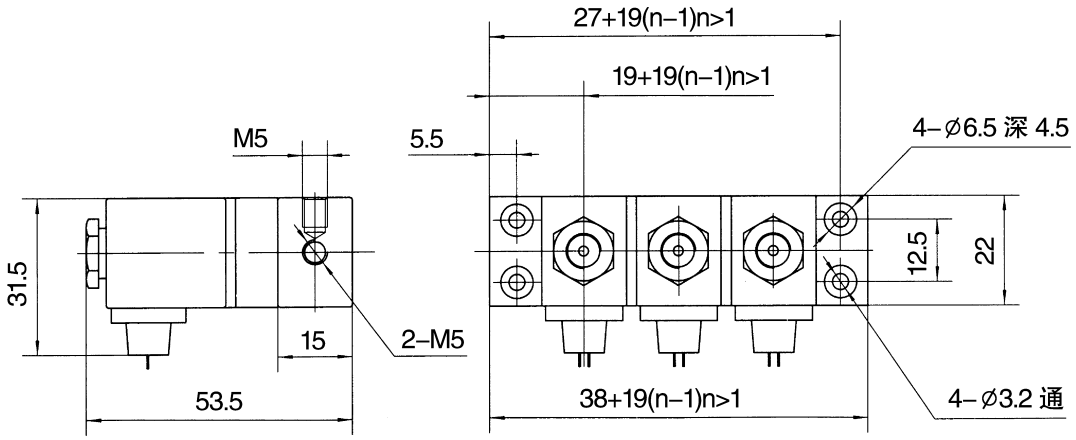
Specification:

Type	Parameter
Fluid	Compressed Air
Operating pressure range MPa	0.15~0.8
Ambient temperature℃	–5~60
Voltage rang	± 10%
Port diameter mm	0.8
Position number	Two Positon Three Way

How to order:



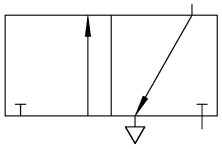
Dimension(mm):



Solenoid Valve

Characteristic:

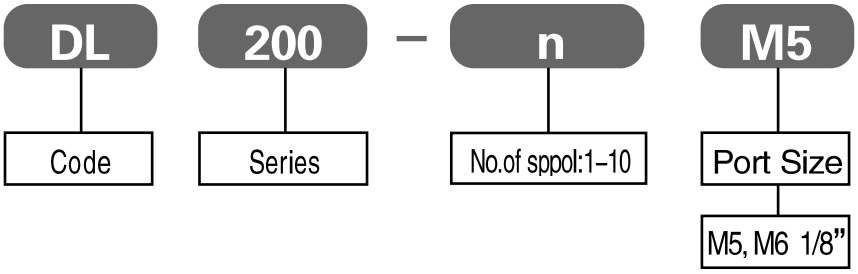
- Two position three way solenoid valve .
- Convenience for assembing on plate and manifold.
- Manual adjustment.



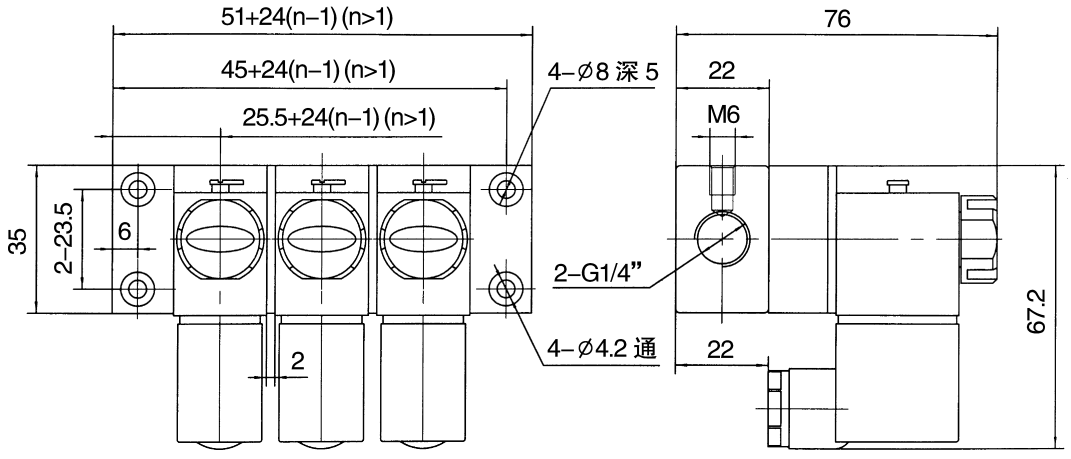
Specification:

Type	Parameter
Fluid	Compressed Air
Operating pressure range MPa	0.15~0.8
Ambient temperature℃	–5~60
Voltage rang	± 10%
Port diameter mm	1
Position number	2 Positon 3 Way

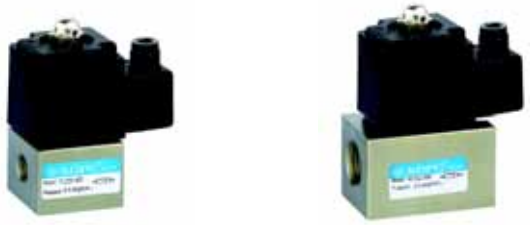
How to order:



Dimension(mm):



Solenoid Valve



Specification:

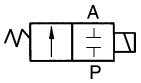
Type	PV–06	PV–08	PV–10	PV–15
Medium	Compressed Air			
Acting type	Directly oerated			
Type	Normally closed			
Port size(G)	1/8”	1/4”	3/8”	1/2”
Operating pressure(Mpa)	0~0.8			
Temperature range	–5~80			

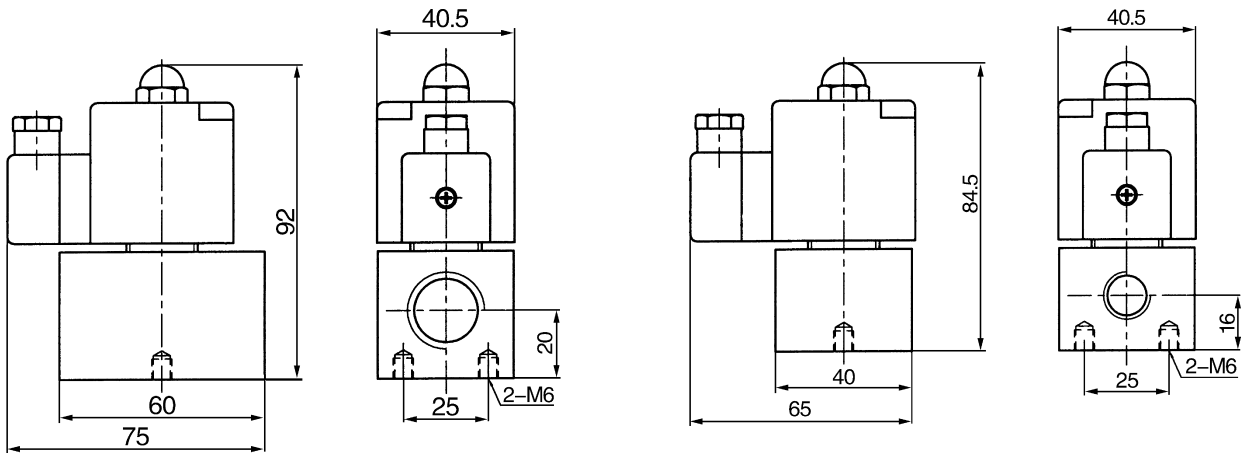
How to order:

PV — **06** — **AC110V**

Series	Port diameter	Coil voltage
2 position 3 way	06:G1/8”	DC24V
	08:G1/4”	AC110V 50/60Hz
	10:G3/8”	AC220V 50/60Hz
	15:G1/2”	AC380V 50/60Hz

Dimension(mm):



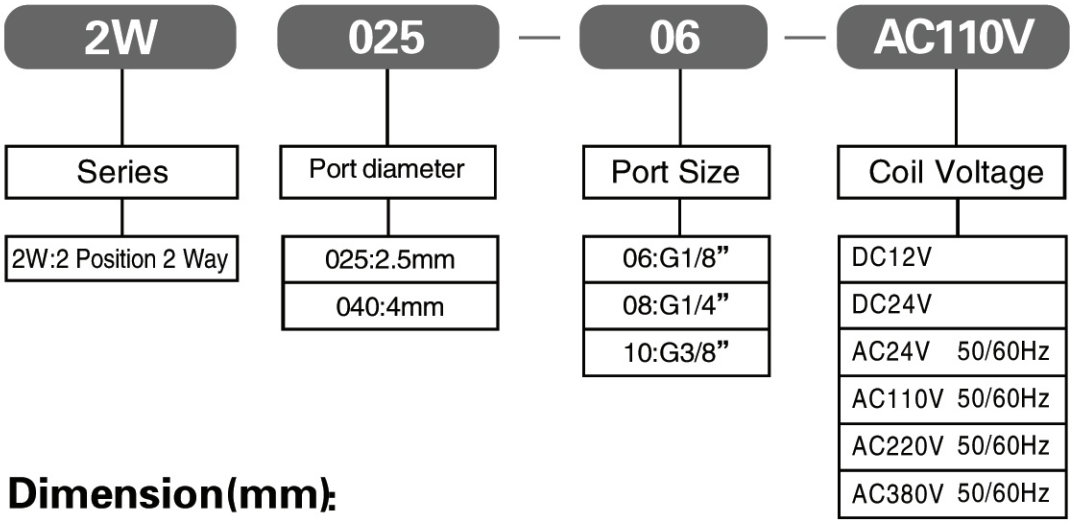


Solenoid Valve

Specification:

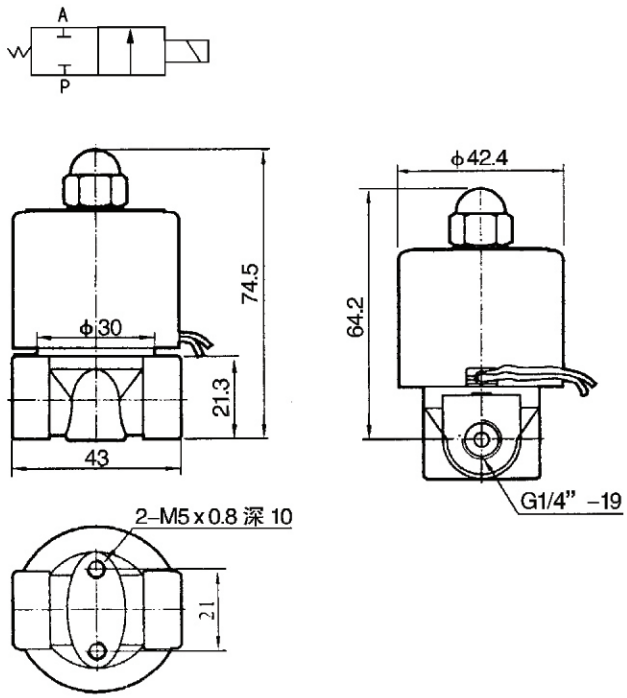
Type	2W025-06	2W025-08	2W040-10
Port size(G)	1/8″	1/4″	3/8″
Fluid	Air、Water、Oil		
Temperature range	-5~80℃		
Operating pressure(Mpa)	0~0.8		

How to order:

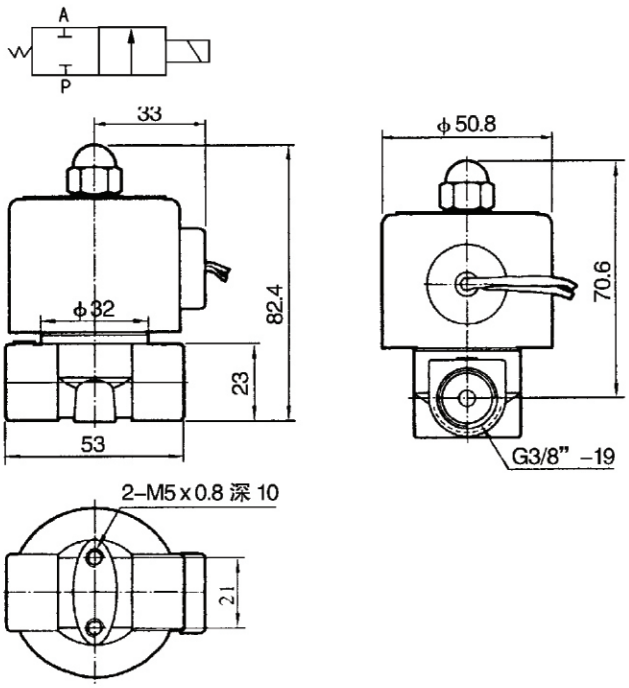


Dimension(mm):

■ 2W025-06、08



■ 2W040-10



Solenoid Valve

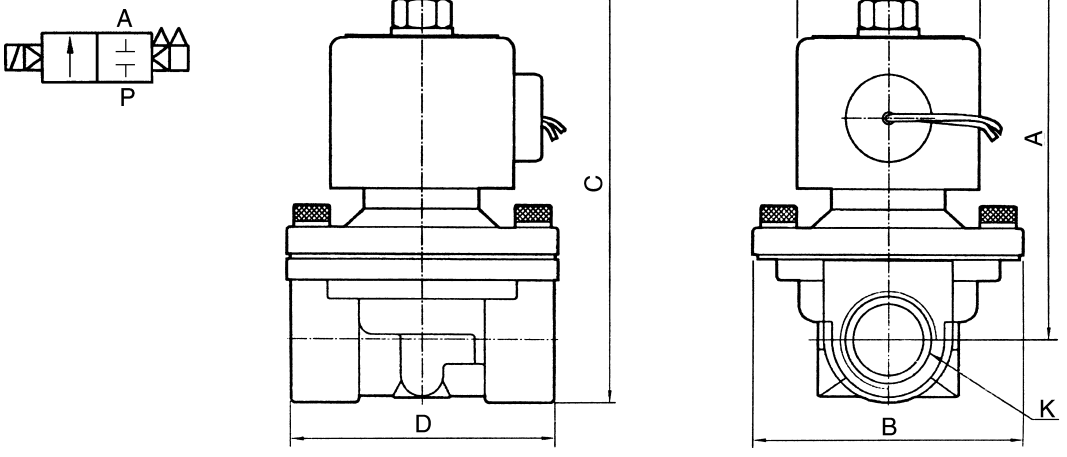
Specification:

Type	2W160-15	2W200-20	2W250-25	2W350-35	2W400-40	2W500-50
Port size G	1/2"	3/4"	1"	1¼"	1½"	2"
Fluid	Air,Water,Oil					
Ambient temperature	-5~60℃					
Operating pressure Mpa	Air：0~0.8；Water：0~0.5；Oil：0~0.5					

How to order:

2W	160	—	15	—	AC110V
Series	Port diameter		Port size		Coil voltage
2W:2 positon 2 way	160:16mm		15:G1/2"		DC12V
	200:20mm		20:G3/4"		DC24V
	250:25mm		25:G1"		AC24V 50/60Hz
	350:35mm		35:G1¼"		AC110V 50/60Hz
	400:40mm		40:G1½"		AC220V 50/60Hz
	500:50mm		50:G2"		AC380V 50/60Hz

Dimension(mm):



Type	A	B	C	D	E	K
2W160-15	93	57	106.5	69	50.4	G1/2"
2W200-20	100	57	116.4	73	50.4	G3/4"
2W250-25	105	73.4	126	99	50.4	G1"
2W350-35	142	95	172	123	70.2	G1¼"
2W400-40	142	95	172	123	70.2	G1½"
2W500-50	172	123	209	168	70.2	G2"

Solenoid Valve

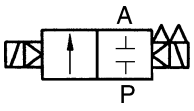
Specification:

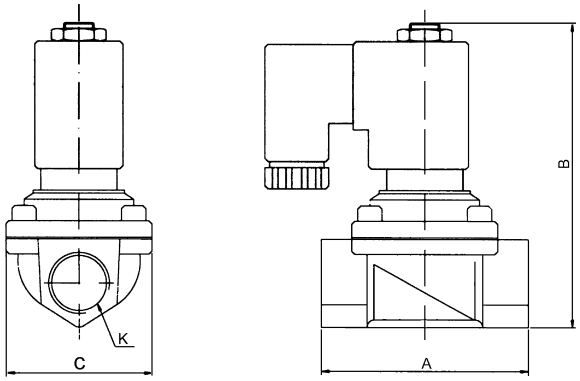
Type	PU220–06	PU220–08	PU220–10	PU220–15	PU220–20	PU220–25
Fluid	Air ,Water,Oil					
Acting type	Directly operated					
Type	Normally closed					
Port size G	1/8”	1/4”	3/8”	1/2”	3/4”	1”
Operating pressure MPa	0~0.8					
Ambient temperaure	–5~80℃					

How to order:

PU	220	—	06	—	AC110V	—	E
Series	Acting type		Port size		Coil voltage		Oil seal symbol
2 Position 2 way	220:Directly operated		06:G1/8” 08:G1/4” 10:G3/8” 15:G1/2” 20:G3/4” 25:G1”		DC12V DC24V AC24V 50/60Hz AC110V 50/60Hz AC220V 50/60Hz AC380V 50/60Hz		Blank：NBR E:EPDM V:VITON

Dimension:





Type	A	B	C	K
PU220–06	22	72	22	G1/8”
PU220–08	35	75.5	25.4	G1/4”
PU220–10	55	79.5	30	G3/8”
PU220–15	66.5	101	48	G1/2”
PU220–20	71	107	48	G3/4”
PU220–25	96	120	70	G1”

2/2 Way Stop Valve

Specification:

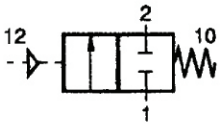
Type	ARKV-15 NC	ARKV-20 NC	ARKV-25 NC	ARKV-40 NC	ARKV-50 NC
Fluid	Compressed air, neutral gase, presswater				
Port size(G)	1/2"	3/4"	1"	1 1/2"	2"
Operating pressure temperature(Mpa)	0~0.63				
Ambient temperature ℃	-5~60				

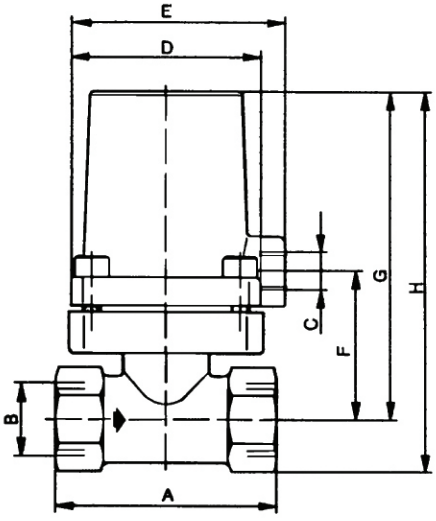
How to order:

ARKV — **15**

Series	Port size
2 position 2 way	15:G1/2"
	20:G3/4"
	25:G1"
	40:G1 1/2"
	50:G2"

Dimension(mm):





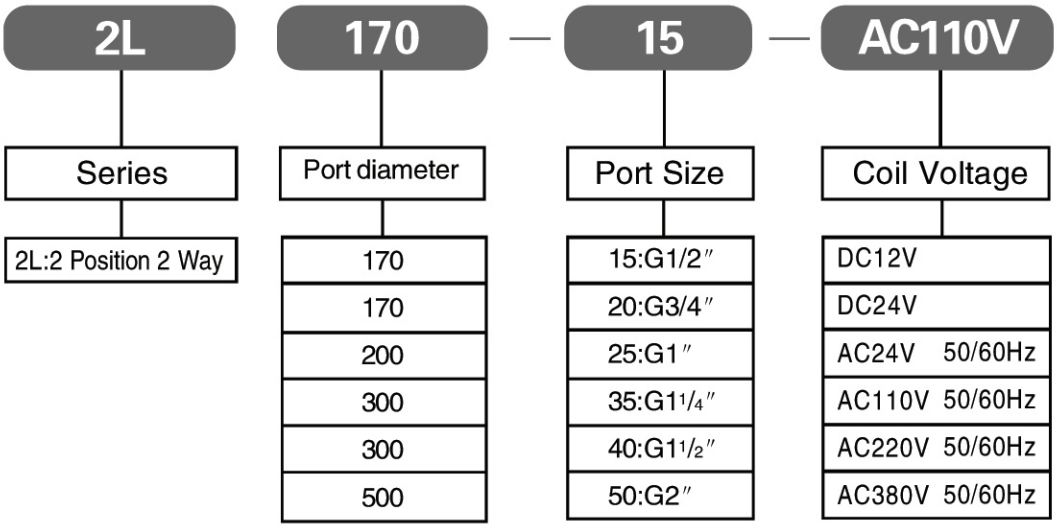
Type	A	B	C	D	E	F	G	H
ARKV-15 NC	65	G1/2	G1/8	55	61	41.5	95	109.5
ARKV-20 NC	76	G3/4	G1/4	65	75	50	112	129
ARKV-25 NC	91	G1	G1/4	65	75	57	119	139
ARKV-40 NC	123	G1 1/2	G1/4	110	112	67	137	167.5
ARKV-50 NC	150	G2	G1/4	130	134	75	153	190

Solenoid Valve

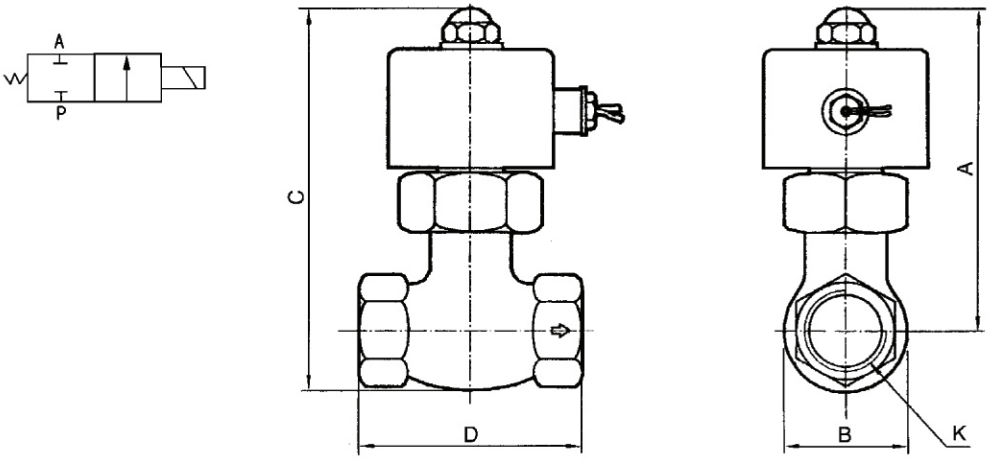
Specification:

Type	2L170-15	2L170-20	2L200-25	2L300-35	2L300-40	2L500-50
Port sizeG	1/2"	3/4"	1"	1¼"	1½"	2"
Fluid	Air、Water、Vapor					
Ambient temperature	-5~80℃					
Operating pressure Mpa	0.2~1.5					

How to order:



Dimension(mm):



Type	A	B	C	D	K
2L170-15	125	42	146	82	G 1/2"
2L170-20	125	42	146	82	G 3/4"
2L200-25	136	52	162	90.5	G 1"
2L300-35	148	74	185	111	G 1¼"
2L300-40	147	74	183	111	G 1½"
2L500-50	175	86	223	163	G 2"

Angle–seat Valve

Characteristic:

Open/close air source pipeline to control main valve
External pilot ensure long service life.
Safe operate with 5 million times, no–need maintenance
The self–adjusting seal gland between flash port and sliding block,improves the sealing performance
Used for air and neutral gas

Specification:

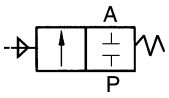
DN — **15** **F**

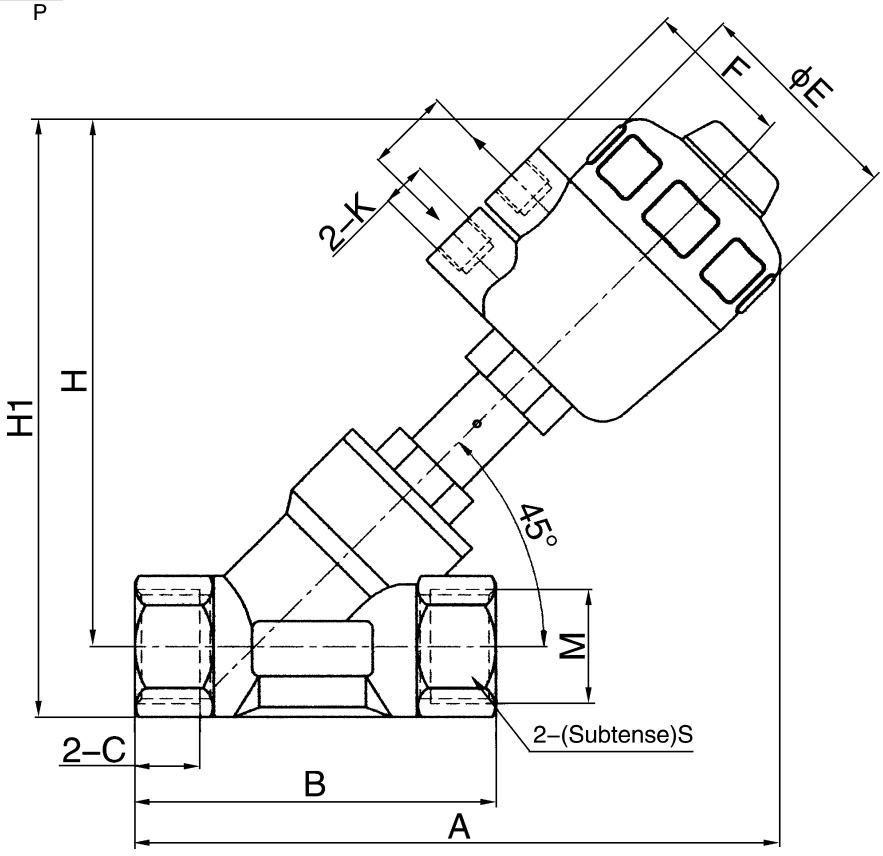
Series	Port Size		Mounting Type
DN:Angle–seat Valve	15:G1/2”	40:G1½”	Blank: Screw thread
	20:G3/4”	50:G2”	F: Flange
	25:G1”	65:G2½”	
	32:G1¼”	80:G3”	

How to order:

Type	Screw thread	DN–15	DN–20	DN–25	DN–32	DN–40	DN–50	DN–65	DN–80
	Flange	DN–15F	DN–20F	DN–25F	DN–32F	DN–40F	DN–50F	DN–65F	DN–80F
Valve body Material		Stainless steel							
Motion		Piston Guide Type							
Medium		Air,Water,Oil(Below 50CST),Steam							
Port Size		G1/2”	G3/4”	G1”	G1¼”	G1½”	G2”	G2½”	G3”
Nominal diameter		13	20	25	32	40	50	65	80
CV Value m^3/h		4.2	8	19	27.5	42	55	90	115
Working Pressure Range MPa		0~1.6	0~1.1	0~1.1	0~1.5	0~1.25	0~1.1	0~1.5	0~1.5
Min Control Pressure MPa		0.39	0.39	0.42	0.5	0.44	0.32	0.32	0.5

Dimension(mm):





Type	A	B	C	ϕ E	F	G	H	H1	K	M	S
DN-15	173	85	12	64.5	44	24	137	154	G1/4	G1/2	37
DN-20	178	95	14	64.5	44	24	145	160	G1/4	G3/4	32
DN-25	212	105	18	80.5	52	24	173	196.5	G1/4	G1	41
DN-32	226	120	18	80.5	52	24	186	208.5	G1/4	G1¼	50
DN-40	230	130	18	80.5	52	24	189	214	G1/4	G1½	55
DN-50	250	150	20	80.5	52	24	205	237.5	G1/4	G2	70
DN-65	298	185	25	101.5	60	24	241	283.5	G1/4	G2½	85

Plus Valve

Product brief intro.:

This vale is the switch to pulse bag type dust–wiper system, controlled by the signal of pulse con–troller , warrant the processing capacity and efficiency.

Assembly ways:

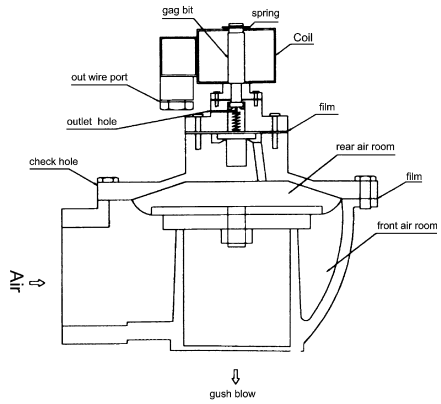
Connect the valve's end(IN) with the pipe of air storage tank, and output end with blowy tube if the dust–wiper bin, use PTFE as stuff seal between threads.

Directly connect with the air bag and make better blow ,and coast little air ,applied in broad pressure circumstance.

How to order:

UM — **25** — **AC220V**

Series	Port Size	Standard Voltage
	25:G1”	DC12V
	40:G1½”	DC24V
	50:G2”	AC24V 50/60Hz
	65:G2½”	AC110V 50/60Hz
		AC220V 50/60Hz
		AC380V 50/60Hz

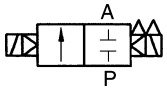


Specification:

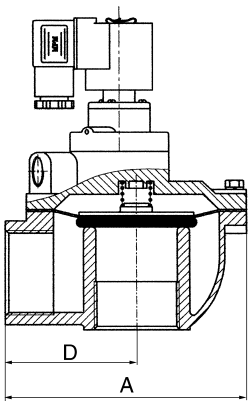
Type	UM–25	UM–40	UM–50	UM–65
Body meterial	Aluminum alloy			
Acting type	Film directed advance			
Operating pressure MPa	0.35~0.7			
Ambient temperature ℃	–5~60℃			
Voltage range	± 10%			

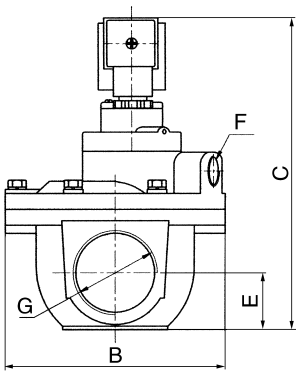
Type mm	Port	Length(mm)	Wideth(mm)	Hight(mm)
UM–25	size	110	85	125
UM–40	G1”	140	125	170
UM–50	G1½”	210	190	200
UM–65	G2”	210	190	225

Dimension(mm):



Type	A	B	C	D	E	F	G
UM–20	89.5	74	121	52.5	20.5	–	G3/4
IM–25	89.5	74	121	52.5	20.5	–	G1
UM–40	123	112	191	74	31.5	G3/8	G1½
UM–50	205	184	214	113	40	G3/8	G2
UM–62	210	184	233	118	47	G3/8	G2½





Inundate Valve

How to order:

UME — **50** — **AC220V**

- UME — Series
- 50 — Port Size
  - 50:G2”
  - 62:G2½”
  - 76:G3”
- AC220V — Standard Voltage

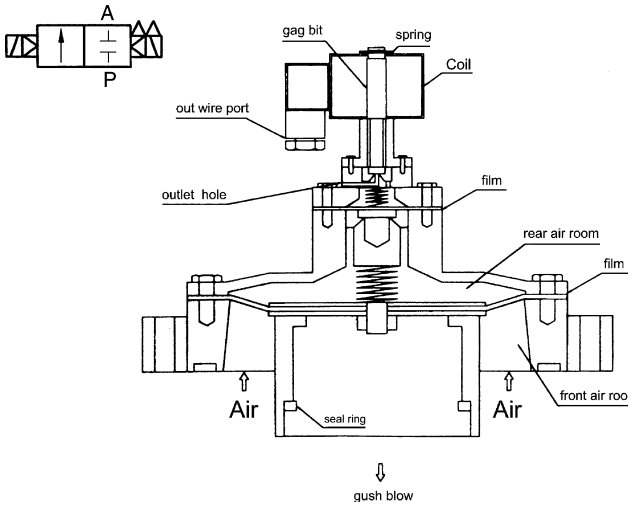
Product brief intro.:

Being mounted with the air bag Directly, less air source lose, be suitable in the condition of a wide air pressure range.

Specification:

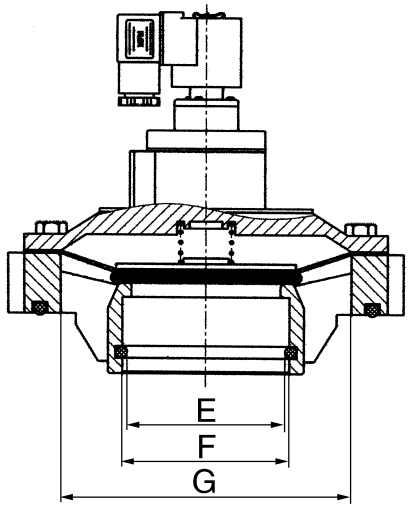
Type	UME–50	UME–62	UME–76
Body meterial	Aluminum alloy		
Acting type	Film directed advance		
Operating pressure MPa	0.35~0.7		
Ambient temperature ℃	–5~60℃		
Rated voltage	AC12V,AC24V,AC36V,AC110V,AC220V,AC380V,DC12V,DC24V,DC110V		
Voltage range	± 10%		

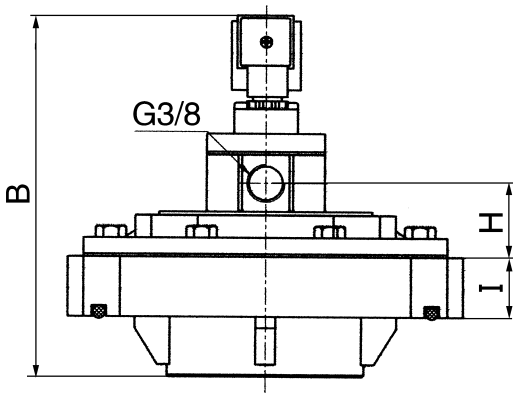
Dimension(mm):

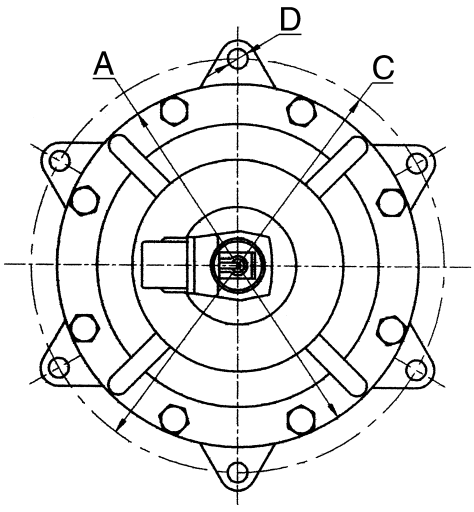


Type (mm)	Port size	Length(mm)	Wideth (mm)	Hight (mm)
UME–50	G2”	250	250	210
UME–62	G2½”	230	230	200
UME–76	G3”	210	190	200

Dimension(mm):







Type	A	B	C	D	E	F	G	H	I
UME-50	184	210	208	11	58	61	145.5	47	27
UME-62	184	210	208	11	73	76	145.5	47	27
UME-76	200	213	228	11	87	90	153	55	27

Hand Valve

Specification:

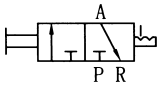
Type	3L110-06	3L210-08	3L310-10
Medium	Compressed Air		
Position number	2 Position 3 Way		
Port size(G)	1/8″	1/4″	3/8″
Valid mm² (Cv)	12(0.67)	16(0.89)	30(1.67)
Applicable pressure(MPa)	0.2~0.8		
Ambient temperature range	-5~ 60℃		

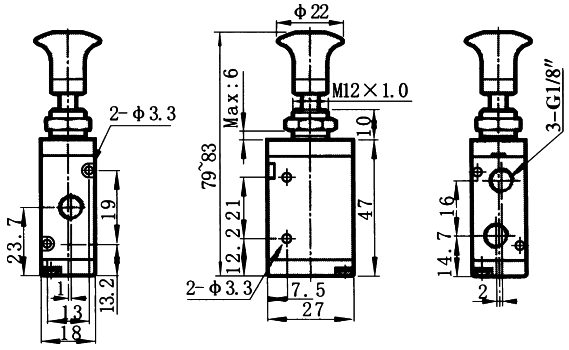
How to order:

3L	1	10	—	06
Series	1:100 Series 2:200 Series 3:300 Series	Position number		Port Size
3L:2 Position 3 Way Pull Valve		10:Double positions		06:G1/8″ 08:G1/4″ 10:G3/8″

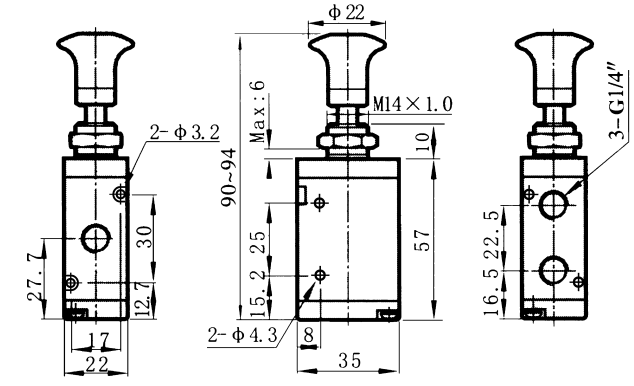
Dimension(mm):

■ 3L110

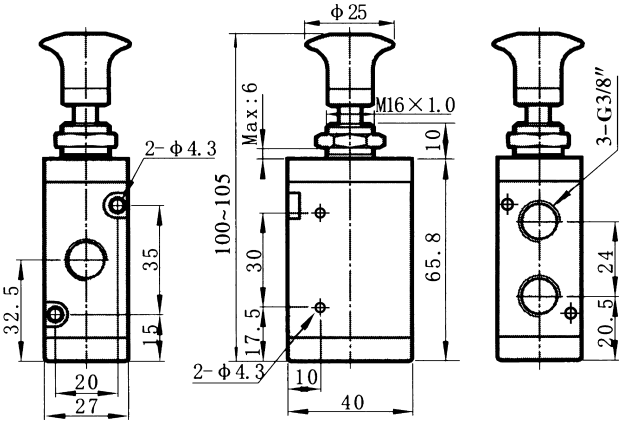




■ 3L210



■ 3L310



Hand Valve

Specification:

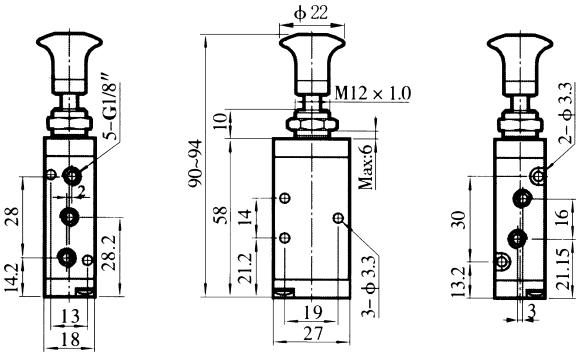
Type	4L110–06	4L210–08	4L310–10
Medium	Compressed Air		
Position number	2 Position 5 Way		
Port size(G)	1/8″	1/4″	3/8″
Valid mm² (Cv)	12(0.67)	16(0.89)	30(1.67)
Applicable pressure(MPa)	0.2~0.8		
Ambient temperature range	–5~ 60℃		

How to order:

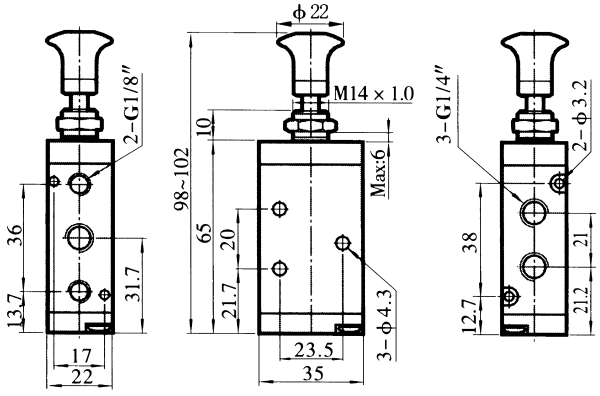
4L	1	10	—	06
Series	1:100 Series 2:200 Series 3:300 Series	Position number		Port Size
4L:2 Position 5 Way Pull Valve		10:Double positions		06:G1/8″ 08:G1/4″ 10:G3/8″

Dimension(mm):

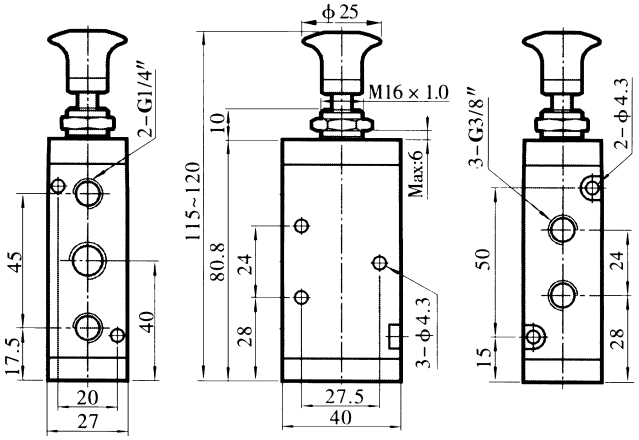
■ 4L110



■ 4L210



■ 4L310

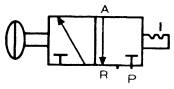


Hand Valve

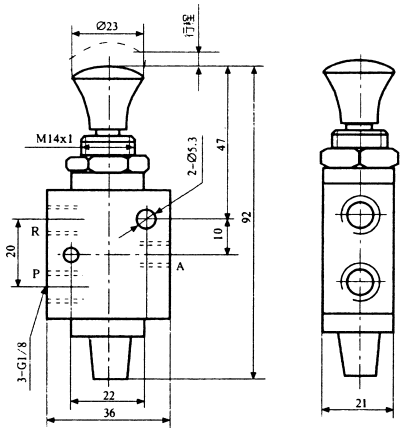
Specification:

Type	S230605A	S230805A	S230805	S231505
Acting type	2 positon 3 way			
Port size G	1/8"	1/4"		1/2"
Fluid	Compressed Air			
Ambient temperature	–5~60℃			
Operating pressureMpa	0.2~0.8			

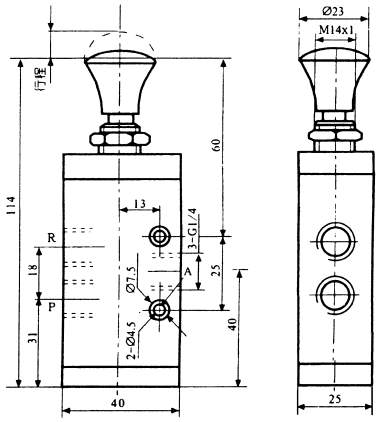
Dimension(mm):



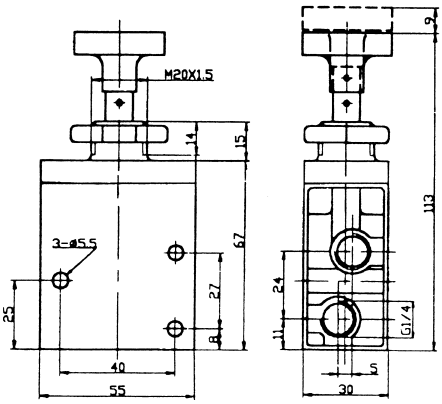
S230605A



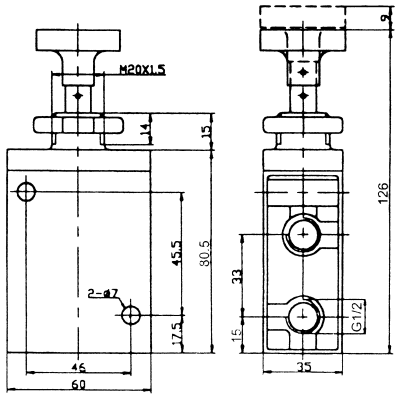
S230805A



S230805



S231505

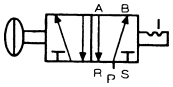


Hand–draw Valve

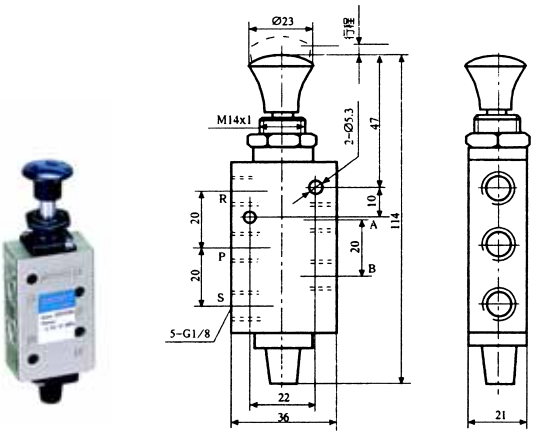
Specification:

Type	S250605A	S250805A	S250805	S251505
Acting type	2 positon 5 way			
Port size G	1/8"	1/4"		1/2"
Fluid	Compressed Air			
Ambient temperature	–5~60℃			
Operating pressureMpa	0.2~0.8			

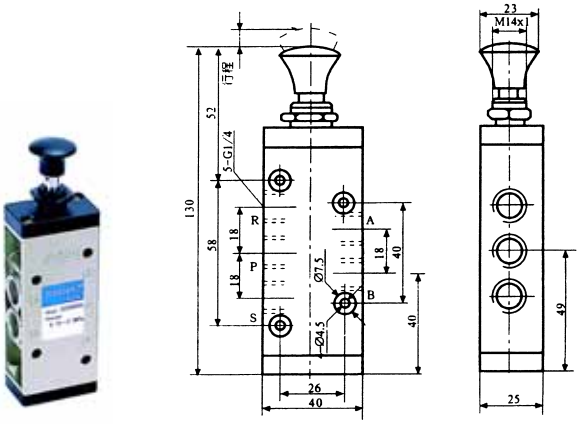
Dimension(mm) :



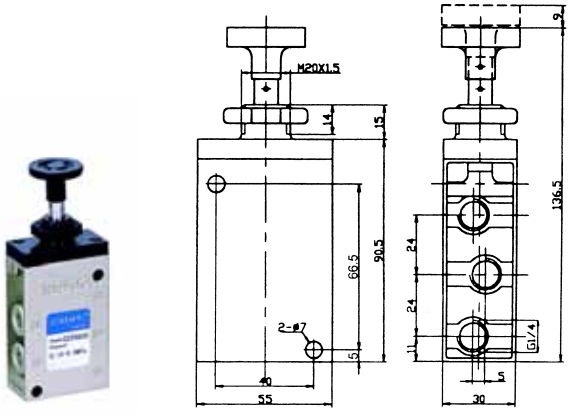
S250605A



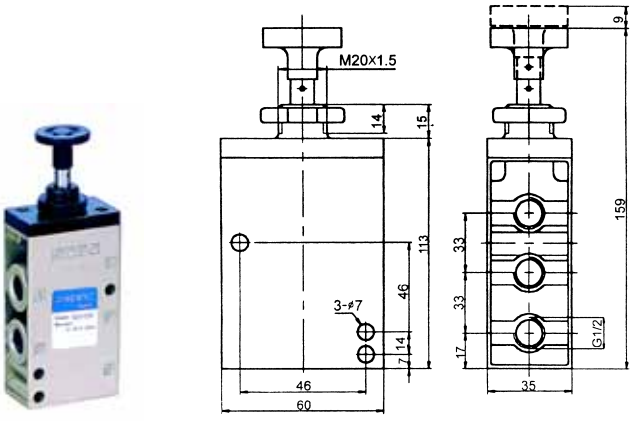
S250805A



S250805



S251505



SDPC®

Hand–pull Valve

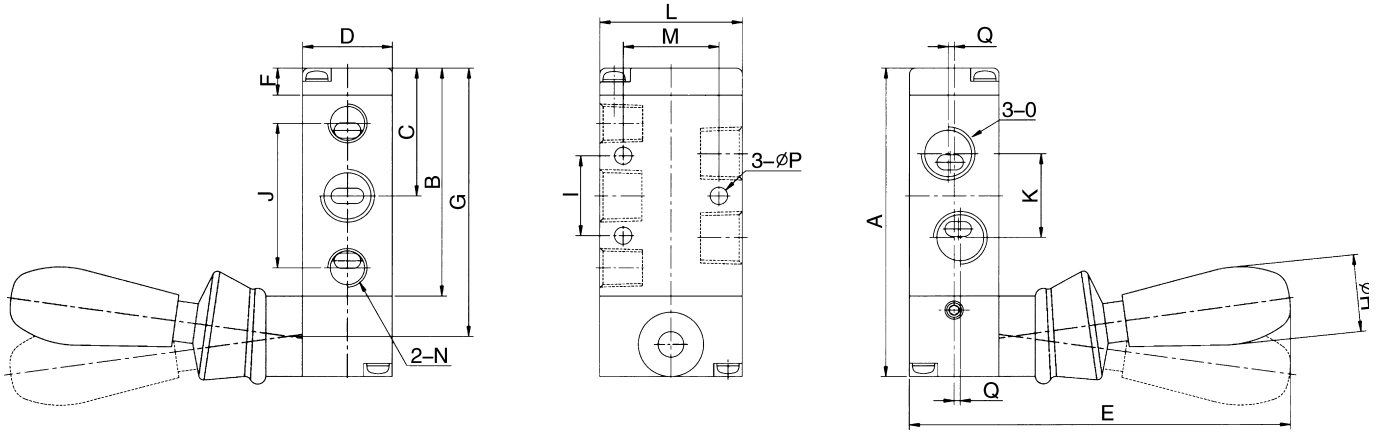
Specification:

Type	4H210–06	4H210–08	4H230–08	4H310–08	4H310–10	4H330–10	4H410–15	4H430–15
Position number	2 position 5 way		3 position 5 way	2 position 5 way		3 position 5 way	2 position 5 way	3 position 5 way
Fluid	Compressed Air(Filtered, 40um)							
Acting type	Directly							
Port size	input=output=exhausted =G1/8"	input=output=G1/4" exhausted=G1/8"		input=output=exhausted =G1/4"	input=output=G3/8" exhausted=G1/4"		input=output=exhausted =G1/2"	
Operating pressure range	0.2~0.8							
Ambient temperature	–5~60							

How to order:

4H	2	10	–	06	B
Series	Series code	Position number		Port size	Dimension
2/3 position 5 way	2:200 Seires 3:300 Seires 4:400 Seires	10:Double positon 30:Three positon		06:G1/8" 08:G1/4" 10:G3/8" 15:G1/2"	B: Panel Type

Dimension(mm):



Type	4H210–08(06)	4H230–08(06) (Auto–restoration)	4H310–10(08)	4H330–10(08) (Auto–restoration)	4H410–15	4H430–15 (Auto–restoration)
A	76	95	96	115	126	147
B	56.5	75.5	72	91	102	123
C	31.5	31.5	40	60	55.5	76.5
D	22	22	27	27	34	34
E	95	95	100	100	110	110
F	6.5	6.5	7.5	7.5	7.5	7.5
G	66.5	85.5	84	103	114	135
H	18	18	18	18	18	18
I	20	20	24	24	28	28
J	36	36	45	45	63	63
K	21	21	24	24	36	36
L	35	35	40	40	50	50
M	21	21	27	27	35	35
N	G1/8	G1/8	G3/8	G3/8	G1/2	G1/2
O	G1/4(G1/8)	G1/4(G1/8)	G3/8(G1/4)	G3/8(G1/4)	G1/2	G1/2
P	4.3	4.3	4.3	4.3	5.5	5.5
Q	1.5(–)	1.5(–)	2(–)	2(–)	–	–

Hand Valve

Specification:

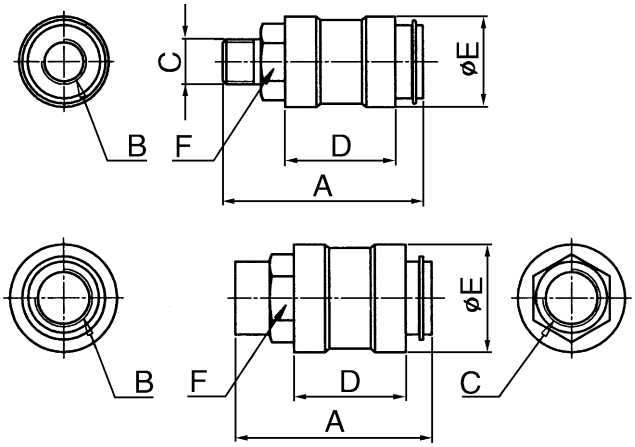
Type	HSV、HSN–08	HSV、HSN–10	HSV、HSN–15	HSV、HSN–20
Port size G	1/4”	3/8”	1/2”	3/4”
Fluid	Compressed Air			
Operation pressure MPa	0.2~0.8			
Ambient temperature	5~60℃			

How to order:

HSV — 08

Series	Port size
HSV: Outside thread	08:G1/4”
HSN: Inside thread	10:G3/8”
	15:G1/2”
	20:G3/4”

Dimension(mm):



Type	A	B	C	D	E	F
HSV、HSN–08	58	G1/4”	G1/4”	32	26	19
HSV、HSN–10	57	G3/8”	G3/8”	32	31	22
HSV、HSN–15	91	G1/2”	G1/2”	49	38.5	27
HSV、HSN–20	91	G3/4”	G3/4”	49	42	35

Hand–Switching Valve

Specification:

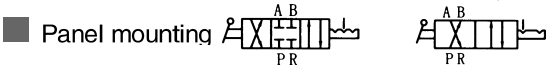
Type	HV2□□–08	HV3□□–08	HV3□□–10	HV3□□–15
Medium	Compressed Air			
Position number	2 Position 4 Way/3 Position 4 Way			
Port size(G)	1/4″	3/8″	1/2”	
Operating pressure(Mpa)	0.2~0.8			
Ambient temperature range	–5~ 60℃			
Operating angle	90°			

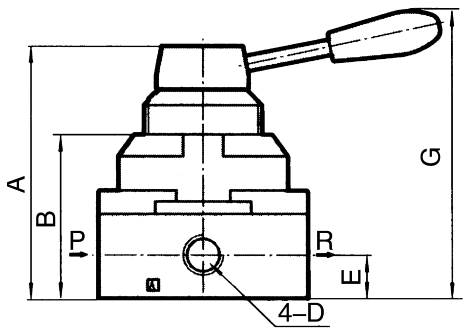
How to order:

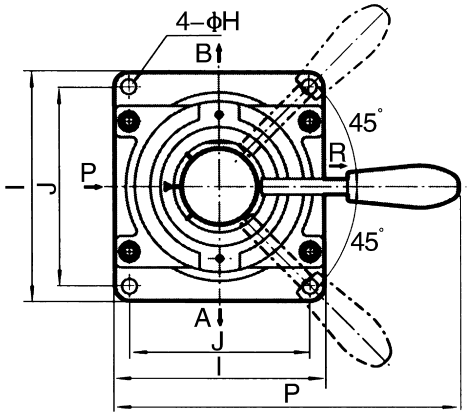
HV	2	30	08
Series	2：2 Series 3：3 Series	Position number	Port Size
HV:Hand Lever Valve		10:2 Position 4 Way 30:3 Position 4 Way	08:G1/4″ 10:G3/8″ 15:G1/2″

Dimension(mm):

■ Panel mounting







Type	A	B	D	E	G	H	I	J	P
HV2□□–08	72.6	45	G1/4	11.5	92.5	5	62	49	120
HV3□□–08	88.5	56	G1/4	13.5	104	6.6	74	62	140
HV3□□–10	88.5	56	G3/8	13.5	104	6.6	74	62	140
HV3□□–15	88.5	56	G1/2	13.5	104	6.6	74	62	140

Mechanical Valve

Specification:

Type	MOV-01、02、03、04
Port size(G)	1/8″
Fluid	Compressed Air
Temperature range	-5-60℃
Operating pressure(Mpa)	0.2-0.8

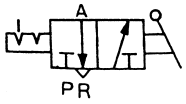
How to order:

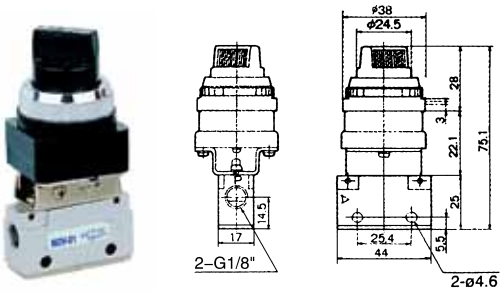
MOV — **01**

Series	type	
G1/8″ 2 Position 3 Way Mechanical Valve	01:Selective	03:Mushroom button
	02:Single direction knurl	04:Flat headed button

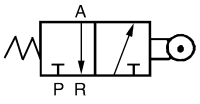
Dimension(mm):

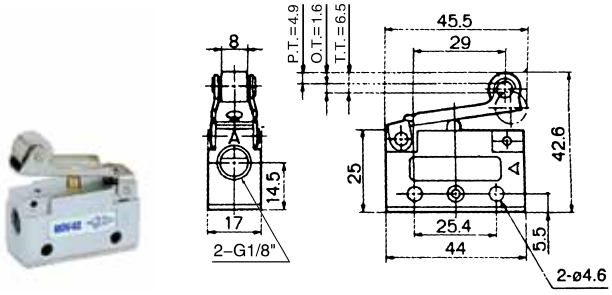
MOV-01



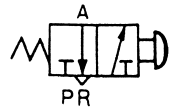


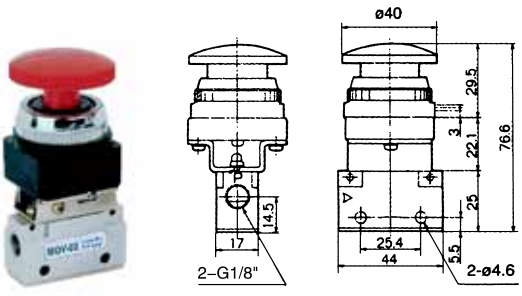
MOV-02



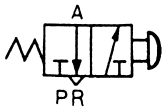


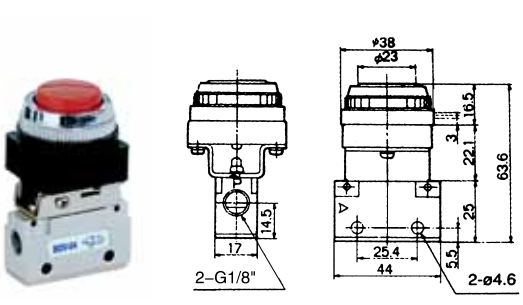
MOV-03





MOV-04



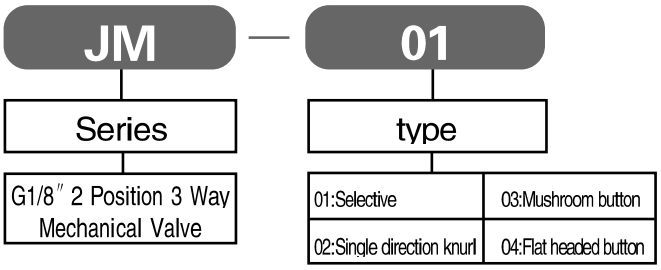


Mechanical Valve

Specification:

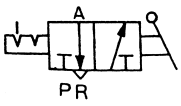
Type	JM–01、02、03、04
Port size(G)	1/8″
Fluid	Compressed Air
Temperature range	–5–60℃
Operating pressure(Mpa)	0.2–0.8

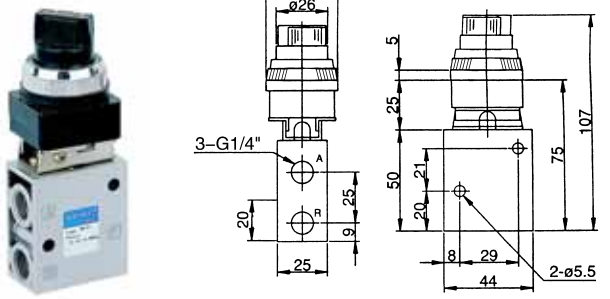
How to order:



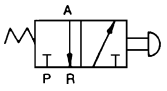
Dimension(mm):

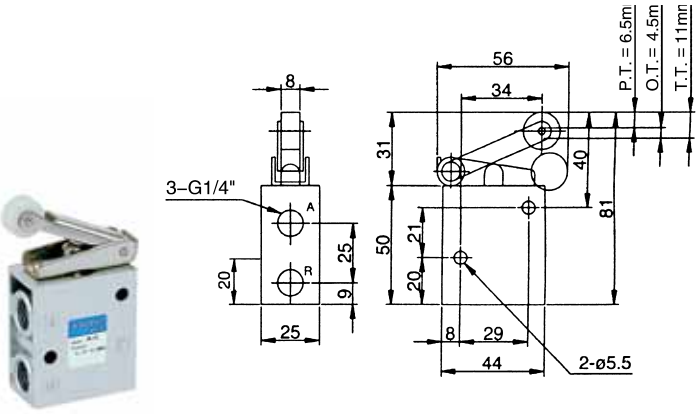
■ JM–01



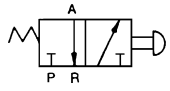


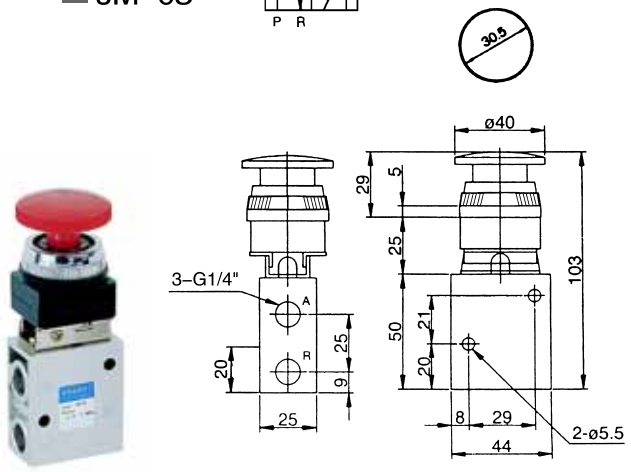
■ JM–02



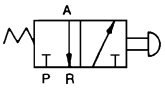


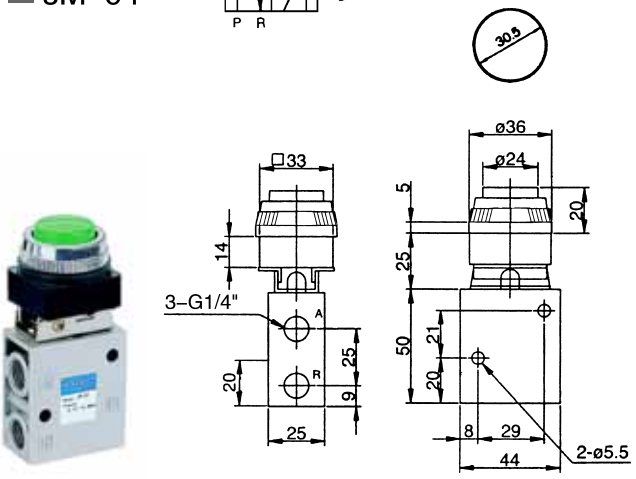
■ JM–03





■ JM–04





SDPC®

Mechanical Valve

Specification:

Type	JMJ–01、02、03、04
Port size(G)	1/4″
Fluid	Compressed Air
Temperature range	–5–60℃
Operating pressure(Mpa)	0.2–0.8

How to order:

JMJ — **01**

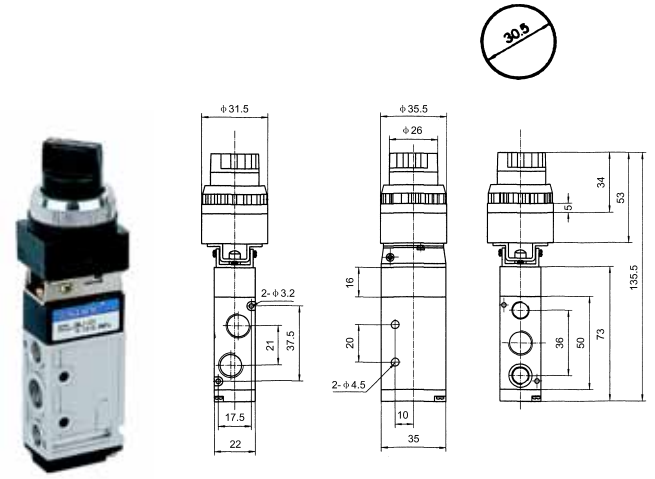
Series: G1/8″ 2 Position 3 Way Mechanical Valve

type:

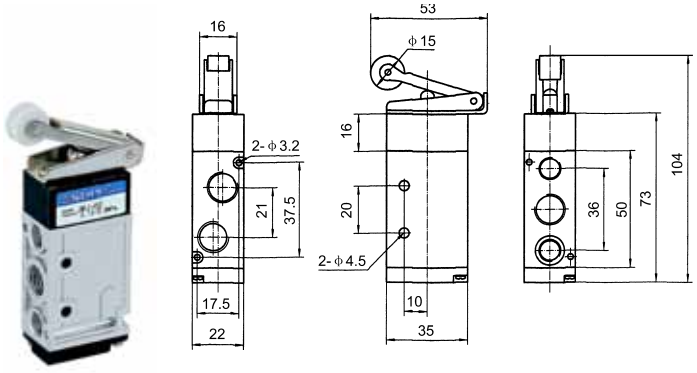
01:Selective	03:Mushroom button
02:Single direction knurl	04:Flat headed button

Dimension(mm):

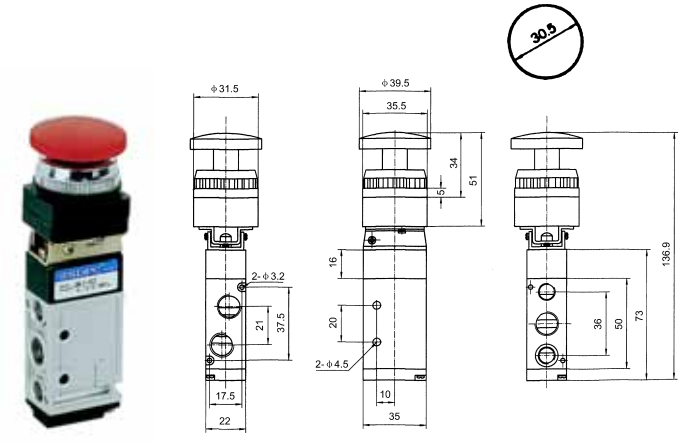
■ JMJ–01



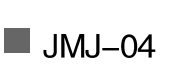
■ JMJ–02

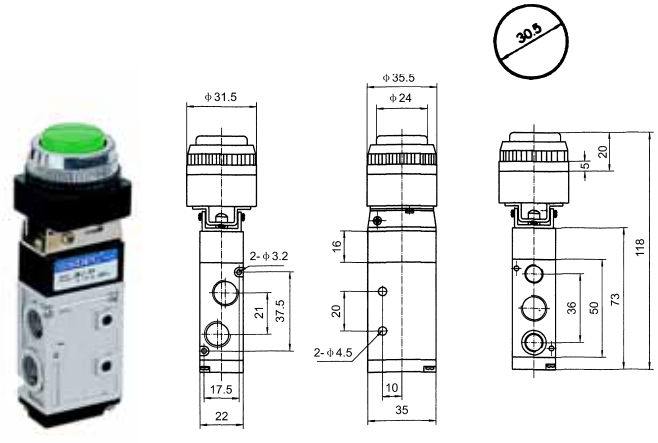


■ JMJ–03



■ JMJ–04



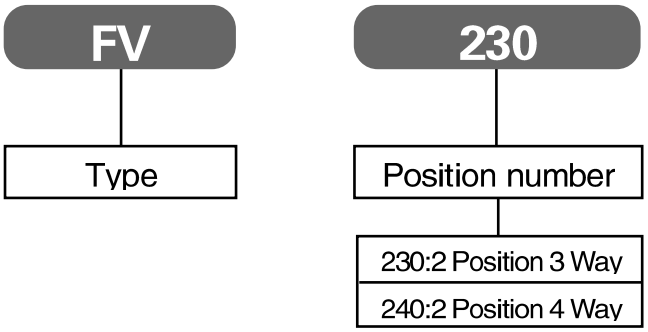


Foot Valve

Specification:

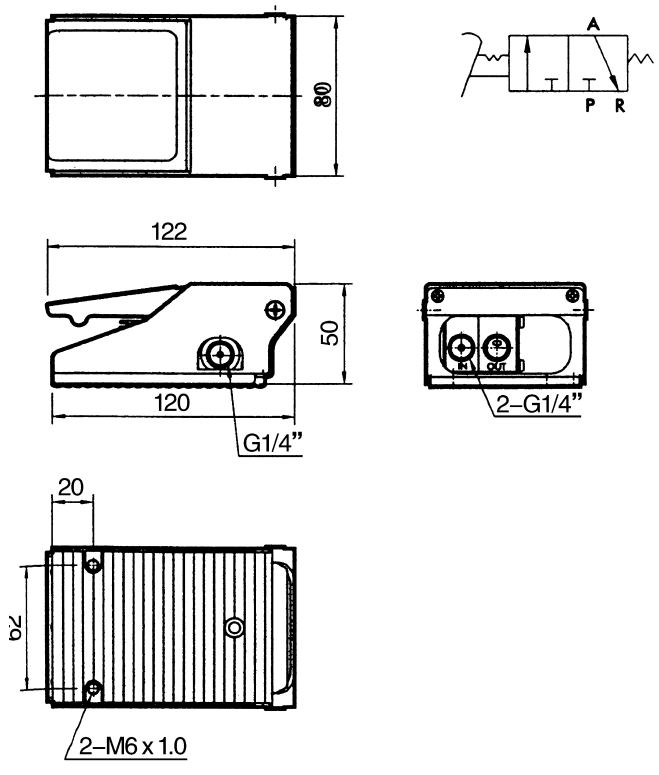
Type	FV230	FV240
Position number	2 Position 3 Way	2 Position 4 Way
Port size(G)	1/4″	
Fluid	Compressed Air	
Operating pressure(Mpa)	0.2~0.7	
Temperature range	5~60℃	

How to order:

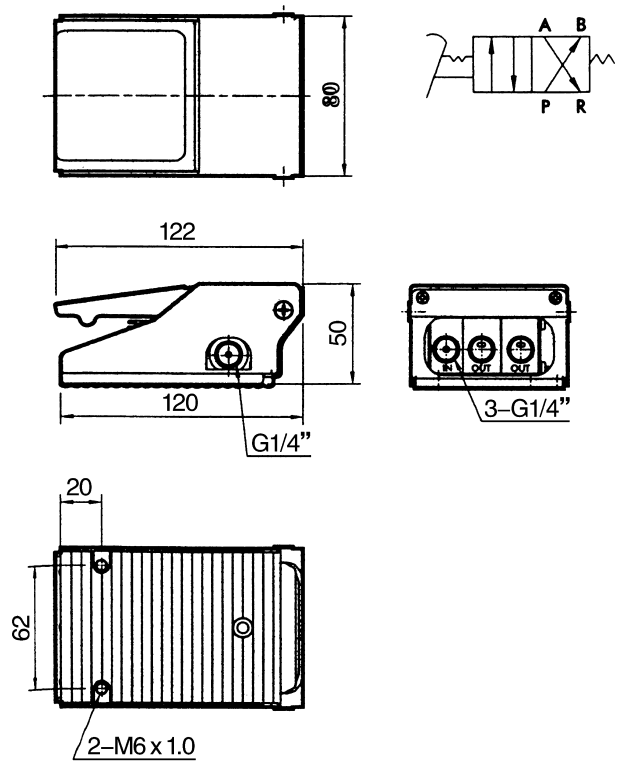


Dimension(mm):

FV230



FV240



Foot Valve

Specification:

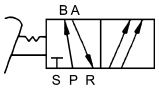
Type	4F210–08	4F210–08L	4F210–08G	4F210–08LG
Port size(G)	1/4″			
Fluid	Compressed Air			
Acting type	Directly operated			
Operating pressure(Mpa)	0.2~0.8			
Temperature range	0~60℃			

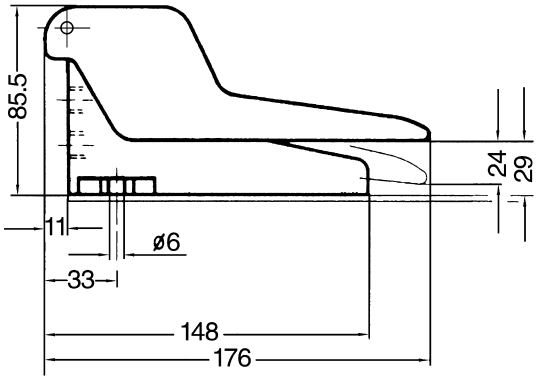
How to order:

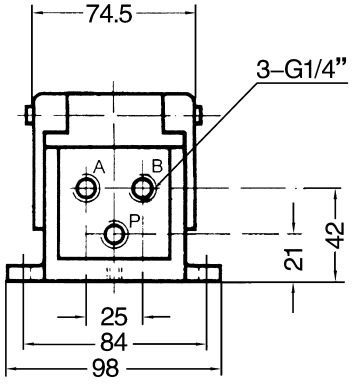
4F	2	10	—	08	L
Series	Series code	Positon number		Port size	Accessories
2 Position 5 way foot valve	2:200 Series	10:2 Position 5 way		08:G1/4”	L:Lock G:Guard LG:Lock&Guard

Dimensions(mm):

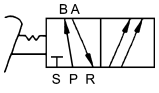
■ 4F210–08

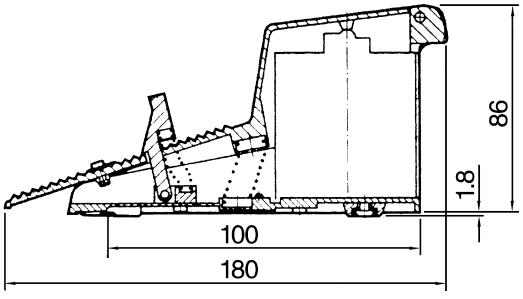


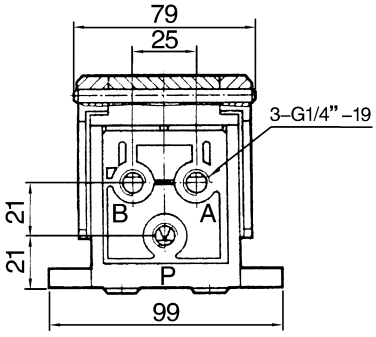




■ 4F210–08L

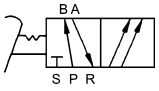


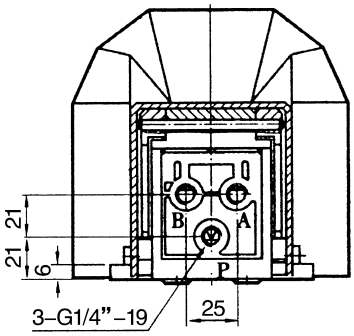


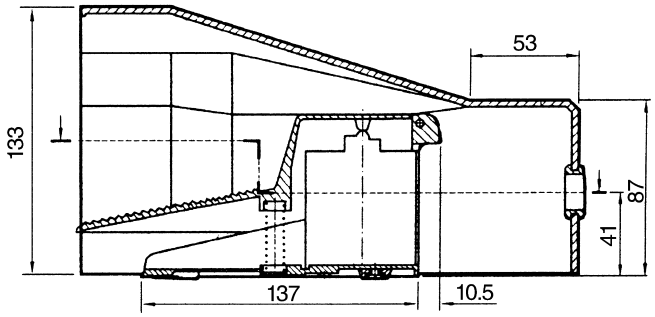


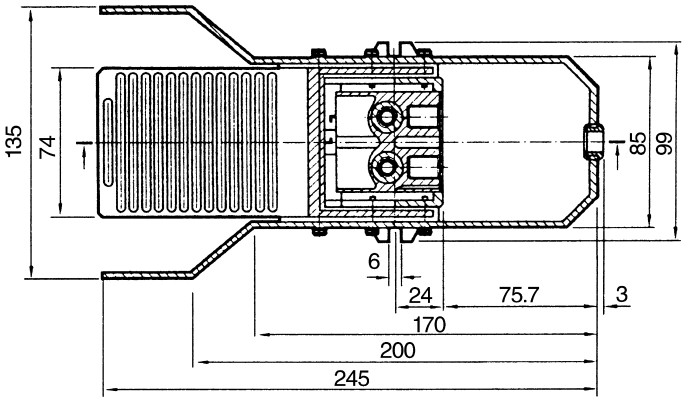
Dimension(mm):

4F210–08G

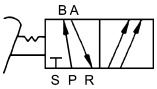


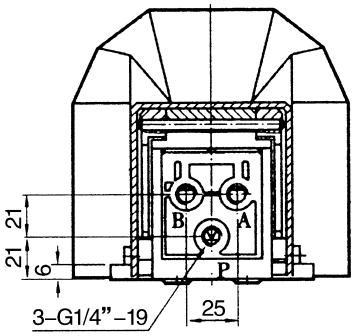


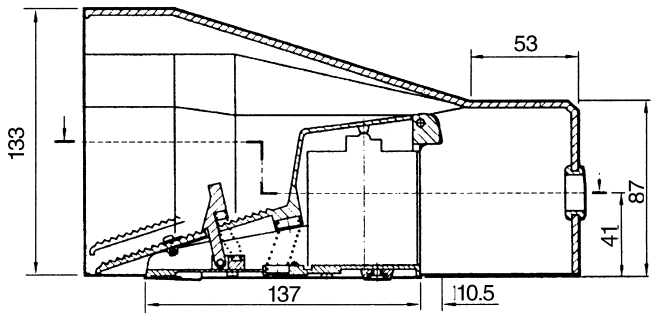


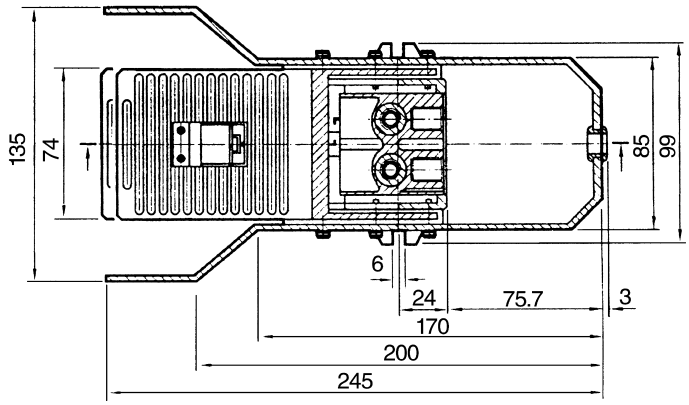


4F210–08LG









SDPC®

Vibrator

Specification:

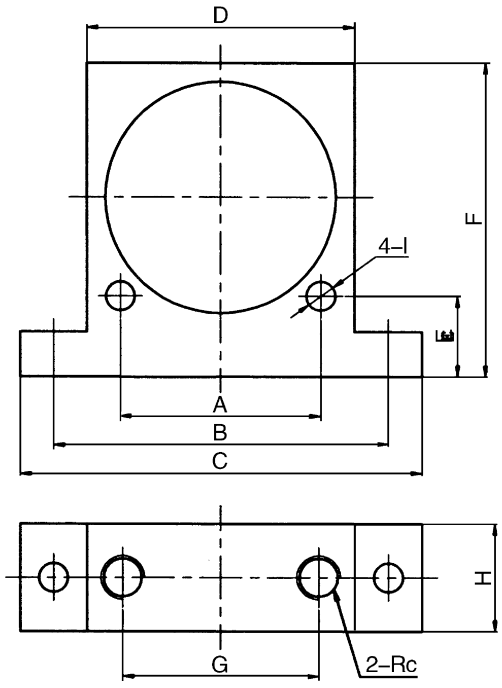
Type	NK–08	NK–10
Port size(G)	1/4”	3/8”
Operating pressure(Mpa)	0.15~0.8	
Temperature range ℃	–5~60	

How to order:

NK — **08**

- NK → Series
- 08 → Port Size
  - 08:G1/4”
  - 10:G3/8”

Dimension(mm):



Type	Medium	Working pressure range Mpa	A	B	C	D	E	F	G	H	I	Rc
NK–08	Air	0.2~1	45	75	90	60	18	70	44	24	6.5	G1/4”
NK–10			70	105	120	88	20	100	65	32	7	G3/8”

Check Valve

Specification:

Type	KA–06	KA–08	KA–10	KA–15	KA–20	KA–25
Fluid	Compressed Air					
Calibre Code	06	08	10	15	20	25
Port size(G)	G1/8”	G1/4”	G3/8”	G1/2”	G3/4”	G1”
Operating pressure (Mpa)	0.2~0.8					
Ambient temperature ℃	–5~60					

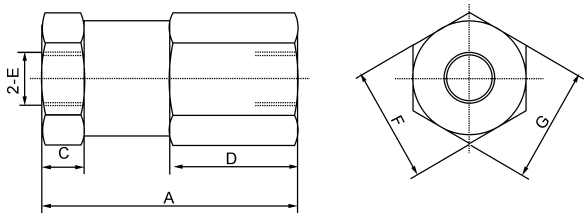
How to order:

KA — **08**

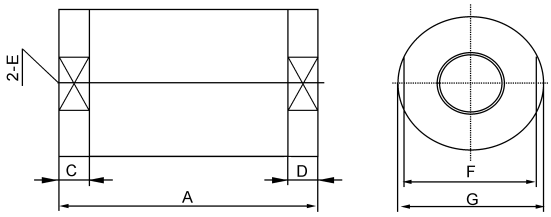
Series	Port size
KA: One–direction Valve	06:G1/8”
	08:G1/4”
	10:G1/8”
	15:G1/2”
	20:G3/4”
	25:G1”

Dimension(mm):

■ KA–06、08



■ KA–10、15、20、25



Type	A	C	D	E	F	G
KA–06	48	8	24	G1/8”	21	21
KA–08	48	8	24	G1/4”	21	21
KA–10	68.5	8	8	G3/8”	32	ϕ 35
KA–15	68.5	8	8	G1/2”	32	ϕ 35
KA–20	95.5	8	8	G3/4”	47	ϕ 50
KA–25	95.5	8	8	G1”	47	ϕ 50

Speedy Exhaust Valve

Specification:

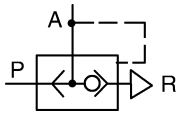
Type	SE–06	SE–08	SE–10	SE–15
Fluid	Compressed Air			
Calibre Code	06	08	10	15
Port size(G)	G1/8"	G1/4"	G3/8"	G1/2"
Operating pressure(Mpa)	0.2~0.8			
Ambient temperature ℃	–5~60			

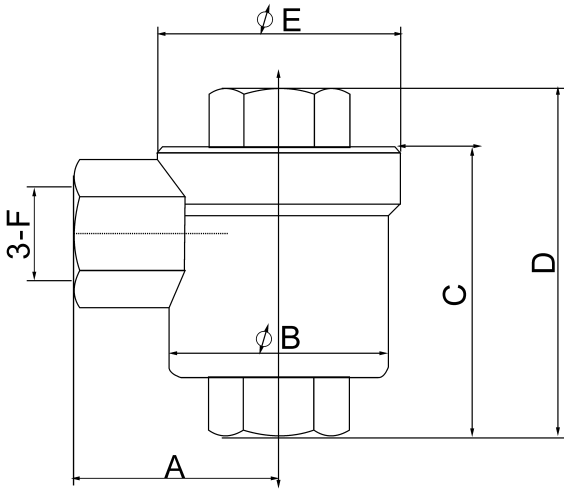
How to order:

SE — **06**

Series	Port size
SE: Speedy Exhaust Valve	06:G1/8"
	08:G1/4"
	10:G1/8"
	15:G1/2"

Dimension(mm):





Type	A	B	C	D	E	F
SE–06	27	30	42	50	ϕ 32	G1/8"
SE–08	27	30	42	50	ϕ 32	G1/4"
SE–10	36	41	51	62	ϕ 45	G3/8"
SE–15	44	48	64	76	ϕ 55	G1/2"

Flow Rate Control

How to order:

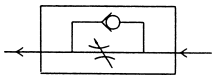
KLA — **10**

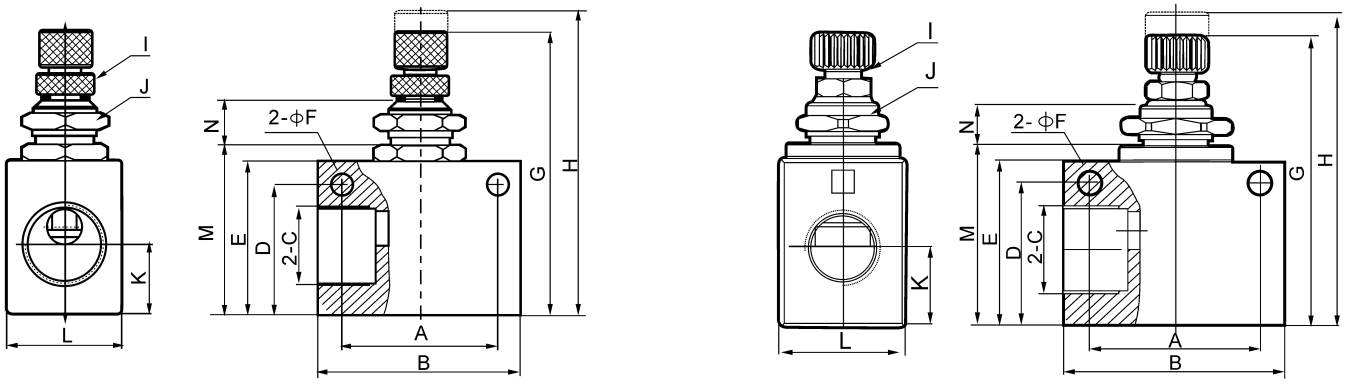
Series	Port size
KLA:Flow Rate Control	06:G1/8”
	08:G1/4”
	10:G3/8”
	15:G1/2”

Specification:

Type	KLA–06	KLA–08	KLA–10	KLA–15
Fluid	Compressed Air			
Port size(G)	1/8”	1/4”	3/8”	1/2”
Operating pressure (Mpa)	0.05~0.8			
Ambient temperature ℃	–5~60			
Material	Aluminum alloy			

Dimension(mm):

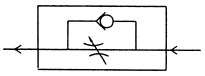


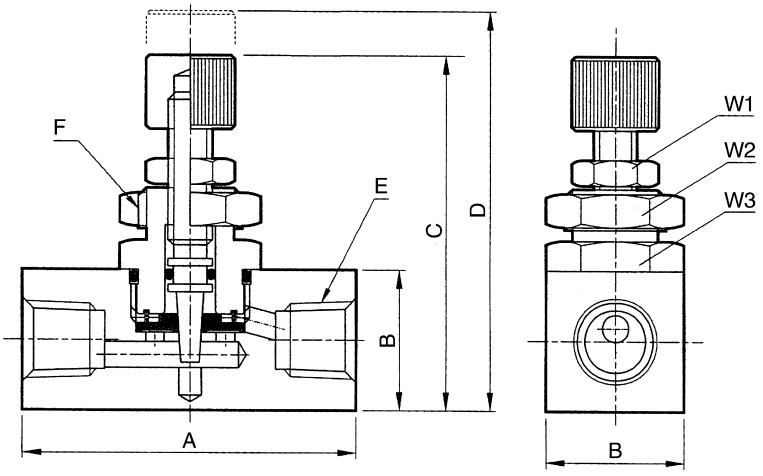


Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N
KLA–06	26	36	G1/8”	23	27	4.3	50.8	56.3	M6 × 0.5	M12 × 0.75	13.5	18	30	8.6
KLA–08	26	36	G1/4”	23	27	4.3	50.8	56.3	M6 × 0.5	M12 × 0.75	13.5	18	30	8.6
KLA–10	35	50	G3/8”	32	37	5.3	65	74	M8 × 0.75	M16 × 1	17.5	28	40	10.2
KLA–15	35	50	G1/2”	32	37	5.3	65	74	M8 × 0.75	M16 × 1	17.5	28	40	10.2

RE Flow capacity control valve

Dimension:

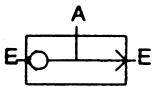




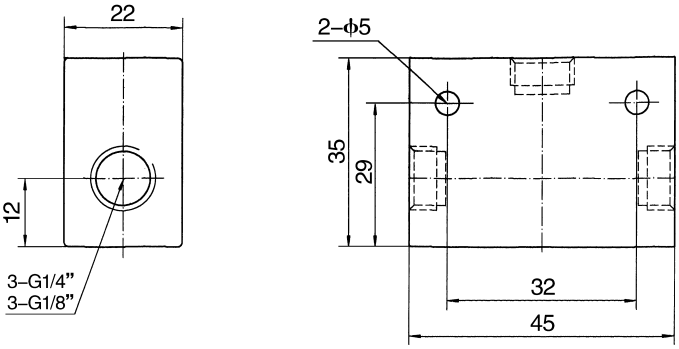
Item No.	A	B	C	D	E	F	W1	W2	W3
RE–06	45	19	46	53	G1/8	M14 × 1	11	17	17
RE–08	45	19	46	53	G 1/4	M14 × 1	11	17	17
RE–10	55	25	52	59	G 3/8	M18 × 1	11	17	23
RE–15	55	25	52	59	G 1/2	M18 × 1	11	17	23

ST Shuttle valve

Dimension:



■ ST–06、08



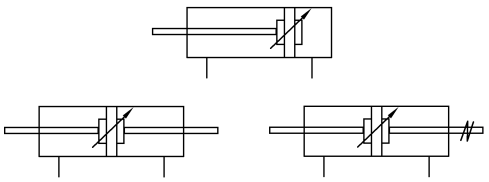
VDMA/ISO6431 Cylinder

Characteristic:

- Front and rear caps are finished by aluminum alloy die–casting,CNC mechanically processed with high precision.
- Aluminum tube is imported, stainless forever with friction& corrosion resistance
- Adopt imported none lubrication, long time service and no need lubrication maintenance.
- Unique cushion technique makes smooth action.
- May add the sensor equipment to easily control.
- In terms of DNC series,pull–rod is hidden inside.

Specification:

Type	32	40	50	63	80	100	125
Motion	Double acting						
Series	DNC,DNCD,DNCJ						
Fluid	Compressed Air						
Operating pressure range(Mpa)	0.1~1						
Operating speed(mm/sec)	50~500						
Ambient temperature(℃)	–10~70						
Cushion	Adjustable cushion at both ends						
Port size (G)	1/8"	1/4"		3/8"		1/2"	

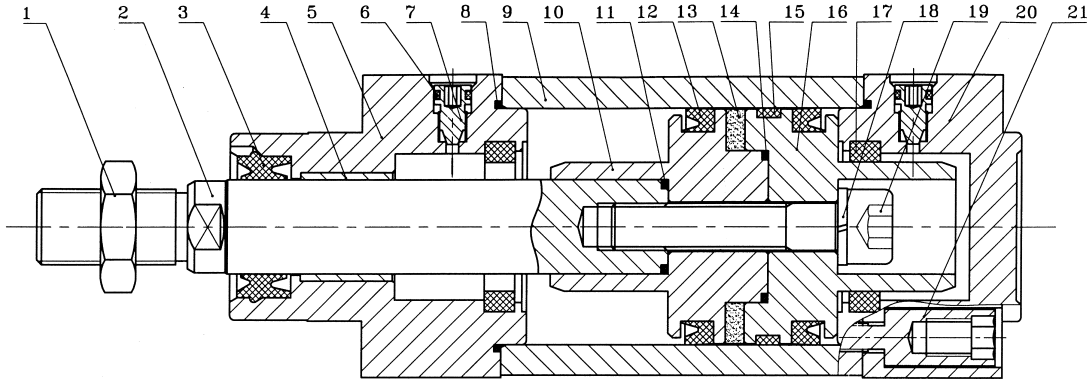


How to order:

DNC × **50** × **100** **FA** **S** **2**

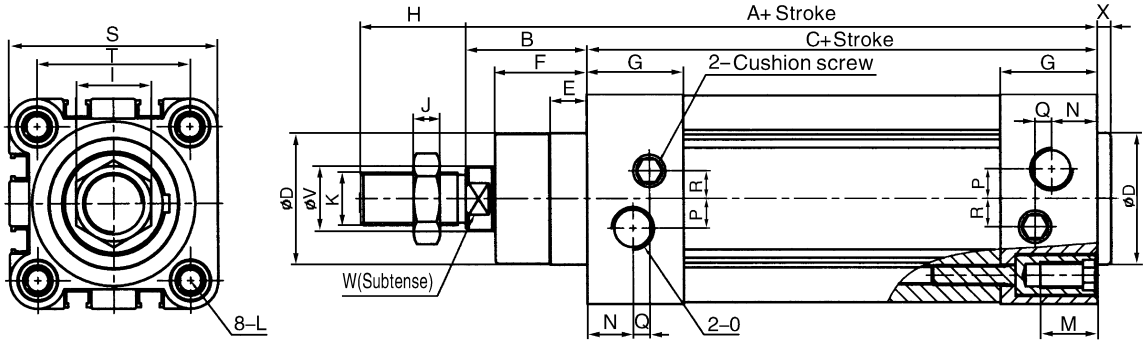
Series	Bore	stroke	Mounting type	with magnet	Sensor
DNC Standard Cylinder	ϕ 32		Blank(Standard)	S:with magnet	1:1pcs
DNCD Double axial Cylinder	ϕ 40		FA / CB	Blank without magnet	2:2pcs
DNCJ Double adjustable Cylinder	ϕ 50		FB / LB		
	ϕ 63		CA / TC		
	ϕ 80				
	ϕ 100				
	ϕ 125				

Inner structure drawing:



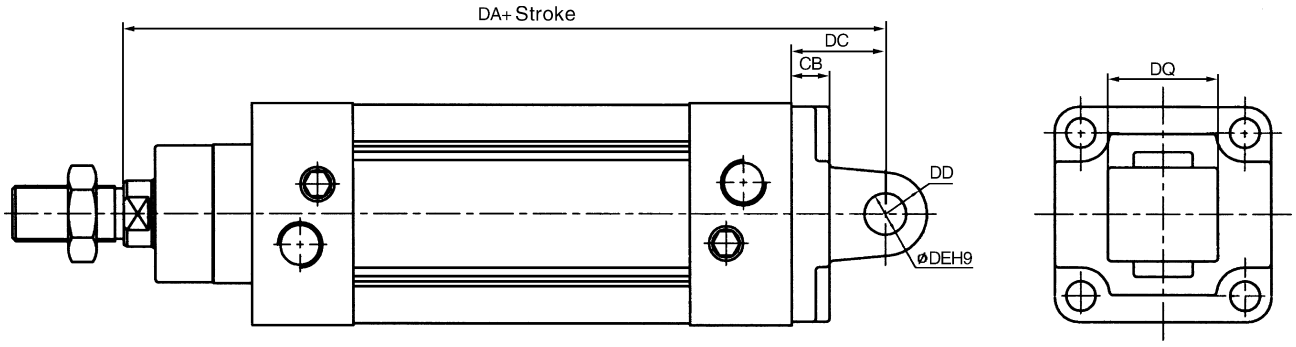
1	hexagon nut	7	cushion adjusting bolt	13	magnet	19	inner hexagon bolt
2	piston ring	8	O–ring	14	O –ring	20	rear cover
3	compages seal	9	tube	15	guard seals	21	cover nut
4	oiled bearing	10	piston 1	16	piston 2		
5	front cover	11	O ring	17	compages seal		
6	O –ring	12	Y seal	18	spring washer		

DNC Series

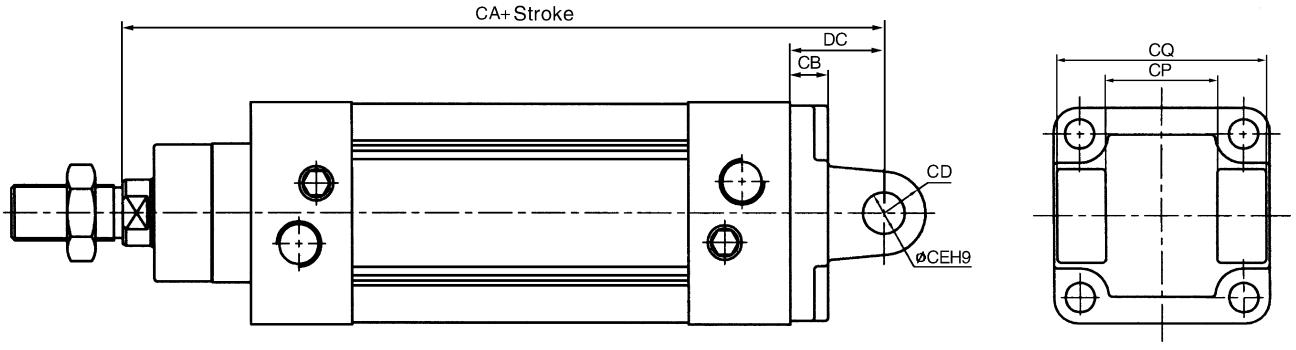


Bore \ stroke	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	V	W	X
32	120	26	94	30	10	18	25	22	17	6	M10x1.25	M6	16	14	G1/8	6	3	5	45	32.5	12	10	4
40	135	30	105	35	10	21.5	30	24	17	7	M12x1.25	M6	16	14	G1/4	6	3	6	54	38	16	13	4
50	143	37	106	40	12	28	29.5	32	23	8	M16x1.5	M8	17	14	G1/4	9	5	8	65	46.5	20	17	4
63	158	37	121	45	12	28.5	35.5	32	23	8	M16x1.5	M8	17	17	G3/8	11	6	10	74	56.5	20	17	4
80	174	46	128	45	16	34.5	36	40	26	10	M20x1.5	M10	17	17	G3/8	12	10	10	93	72	25	22	4
100	189	51	138	55	16	38	40	40	26	10	M20x1.5	M10	17	19	G1/2	12	10	10	110	89	25	22	4
125	225	65	160	60	20	46	45.5	54	38	11	M27x2	M12	22	19	G1/2	13	14	10	135	110	32	27	6

CA–Single–ear mounting type

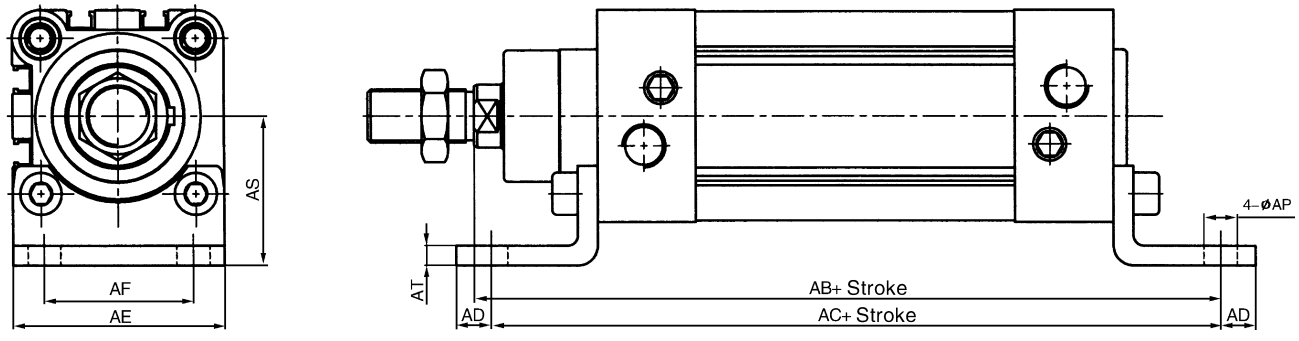


CB–Double–ear mounting type

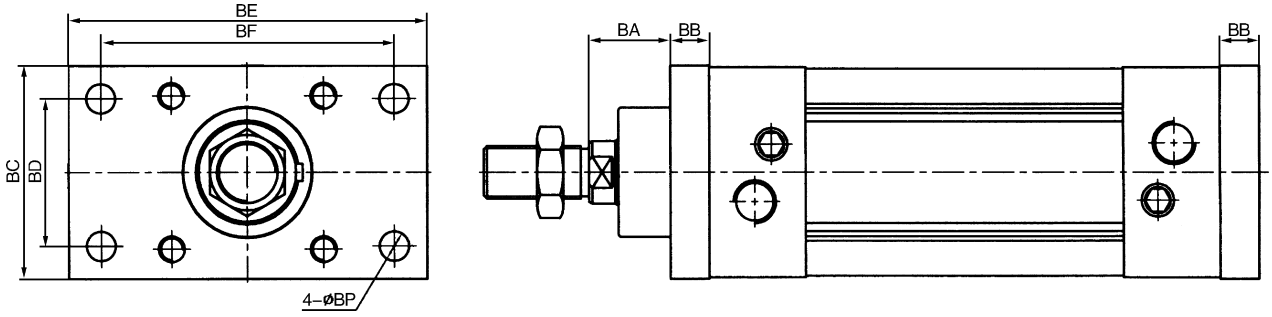


Bore \ stroke	DA	DC	CB	DD	ϕ DE	DQ	CA	CC	CB	CD	ϕ CE	CP	CQ
32	142	22	9	10	10	26	142	22	9	10	10	26	44.5
40	160	25	9	12	12	28	160	25	9	12	12	28	51.5
50	170	27	11	12	12	32	170	27	11	12	12	32	60
63	190	32	11	16	16	40	190	32	11	16	16	40	70
80	210	36	14	16	16	50	210	36	14	16	16	50	90
100	230	41	14	20	20	60	230	41	14	20	20	60	106
125	275	50	20	30	25	70	275	50	20	30	25	70	130

LB–Foot bracket mounting type



FA、FB–Front&rear flange mounting type



Bore \ stroke	AB	AC	AD	AE	AF	AP	AS	AT	BA	BB	BC	BD	BE	BF	BP
32	144	142	6.5	45	32	7	32	5	16	10	50	32	80	64	7
40	163	161	9	54	36	10	36	5	20	10	55	36	90	72	9
50	175	170	10.5	64	45	10	45	6	25	12	65	45	110	90	9
63	190	185	12.5	75	50	10	50	6	25	12	75	50	125	100	9
80	215	210	15	93	63	12	63	6	30	16	100	63	154	126	12
100	230	220	17.5	110	75	14.5	71	6	35	16	120	75	186	150	14
125	270	250	22	131	90	16.5	90	8	45	20	150	90	220	180	16

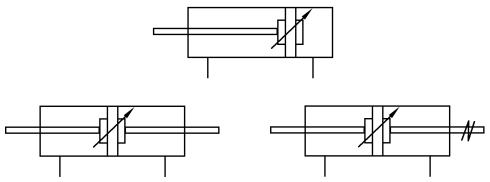
VDMA/ISO6431 Cylinder

Characteristic:

- Front and rear caps are finished by aluminum alloy die–casting,CNC mechanically processed with high precision.
- Aluminum tube is imported, stainless forever with friction& corrosion resistance.
- Adopt imported none lubrication, long time service and no need lubrication maintenance.
- Unique cushion technique makes smooth action.
- May add the sensor equipment to easily control.
- In terms of DNGU series,pull–rod is hidden inside.

Specification:

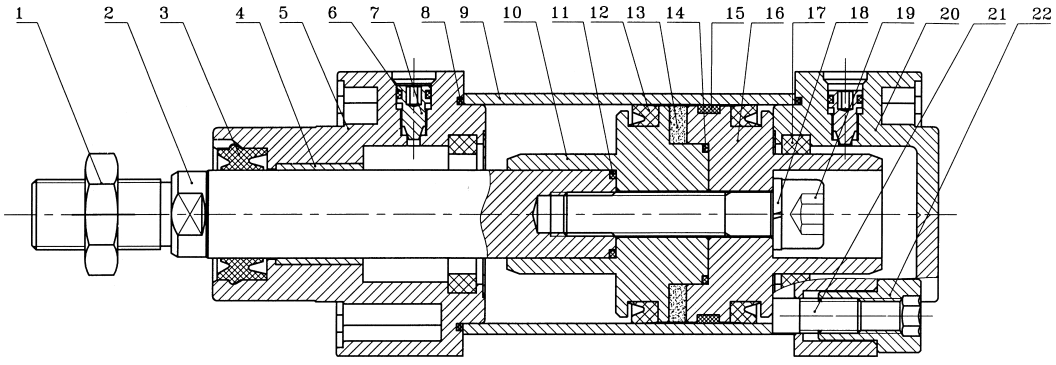
Type	32	40	50	63	80	100	125	160
Motion	Double acting							
Series	DNG,DI,DNGD,DNGJ							
Fluid	Compressed Air							
Operating pressure range(Mpa)	0.1~1							
Operating speed(mm/sec)	50~500							
Ambient temperature(℃)	–10~70							
Cushion	Adjustable cushion at both ends							
Port size (G)	1/8”	1/4”			3/8”			1/2”



How to order:

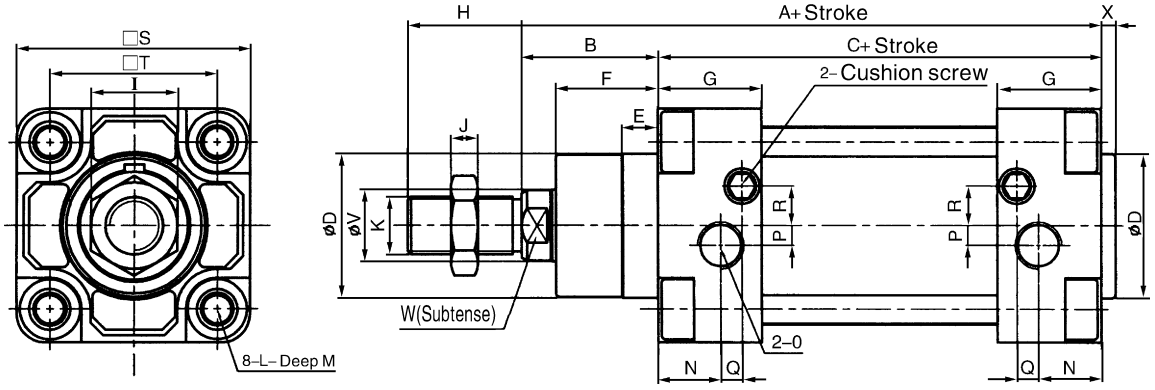
DNG	50	×	100	FA	S	2
Series	Bore		stroke	Mounting type	with magnet	Sensor
DNG Standard Cylinder	ϕ 32			Blank(Standard)	S:with magnet	1:1pcs
DI Tie–rod hidden Cylinder	ϕ 40			FA / CB	Blank without magnet	2:2pcs
DNGD Double axial Cylinder	ϕ 50			FB / LB		
DNGJ Stroke adjustable Cylinder	ϕ 63			CA / TC		
	ϕ 80					
	ϕ 100					
	ϕ 125					
	ϕ 160					

Inner structure drawing:



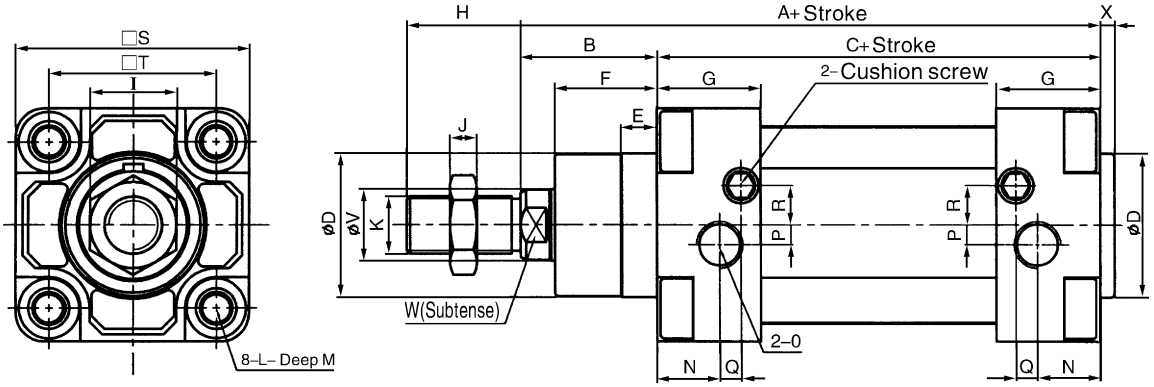
1	hexagon nut	7	cushion adjusting bolt	13	magnet	19	inner hexagon bolt
2	piston ring	8	O–ring	14	O –ring	20	rear cover
3	compages seal	9	tube	15	guard seals	21	pull–rod
4	oiled bearing	10	piston 1	16	piston 2	22	pull–rod nut
5	front cover	11	O ring	17	compages seal		
6	O –ring	12	Y seal	18	spring washer		

DNG Series



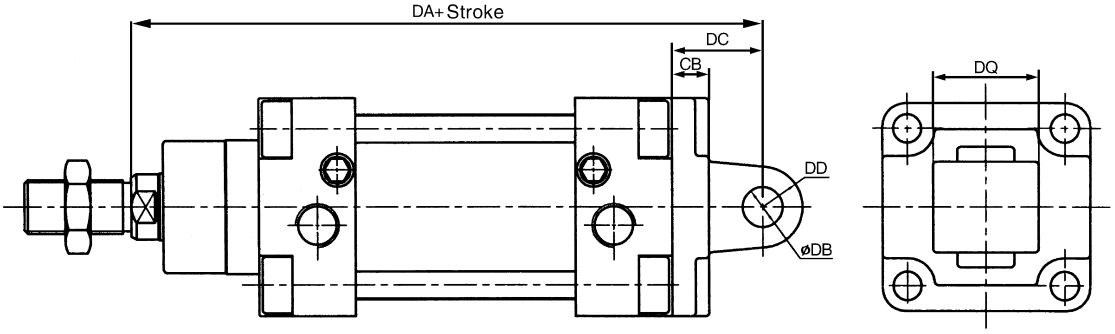
Bore \ stroke	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	V	W	X
32	120	26	94	30	10	19	25	22	17	6	M10x1.25	M6	16	9	G1/8	2	7	7	50	32.5	12	10	4
40	135	30	105	35	10	21.5	26	24	17	7	M12x1.25	M6	12	11	G1/4	2	5	9	55	38	16	13	4
50	142	38	104	40	12	28.5	29	32	23	8	M16x1.5	M8	14.5	17	G1/4	5	2	11	65	46.5	20	17	4
63	158	37	121	45	12	28.5	35.5	32	23	8	M16x1.5	M8	18	18	G3/8	6	5	14	75	56.5	20	17	4
80	174	46	128	45	16	34.5	35.5	40	26	10	M20x1.5	M10	19	18	G3/8	7	8	15	93	72	25	22	4
100	189	51	138	55	16	37.5	38.5	40	26	10	M20x1.5	M10	19	18	G1/2	8	11	14	110	89	25	22	4
125	225	65	160	60	20	44.5	46.5	54	41	11	M27x2	M12	25	18	G1/2	8	14	13	138	110	32	27	6
160	260	80	180	65	20	48	48	72	55	13	M36x2	M16	25	24	G3/4	12	14	22	180	140	40	36	6

DNGU Series

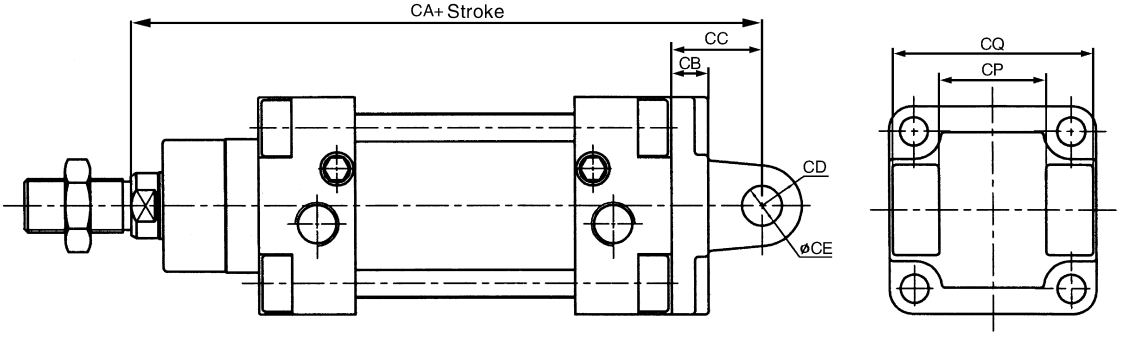


Bore \ stroke	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	V	W	X
32	120	26	94	30	10	19	26	22	17	6	M10x1.25	M6	16	9	G1/8	2	7	7	50	32.5	12	10	4
40	135	30	105	35	10	21.5	26	24	17	7	M12x1.25	M6	16	11	G1/4	2	5	9	55	38	16	13	4
50	142	38	104	40	12	28.5	29	32	23	8	M16x1.5	M8	20	17	G1/4	5	2	11	65	46.5	20	17	4
63	158	37	121	45	12	28.5	35.5	32	23	8	M16x1.5	M8	20	18	G3/8	6	5	14	75	56.5	20	17	4
80	174	46	128	45	16	34.5	35.5	40	26	10	M20x1.5	M10	25	18	G3/8	7	8	15	93	72	25	22	4
100	189	51	138	55	16	37.5	38.5	40	26	10	M20x1.5	M10	28	18	G1/2	8	11	14	110	89	25	22	4
125	225	65	160	60	20	44.5	46.5	54	38	11	M27x2	M12	30	18	G1/2	8	14	13	138	110	32	27	6
160	260	80	160	65	20	48	50	72	50	13	M36x2	M16	35	24	G3/4	12	14	22	180	140	40	36	6

CA–Single–ear mounting type

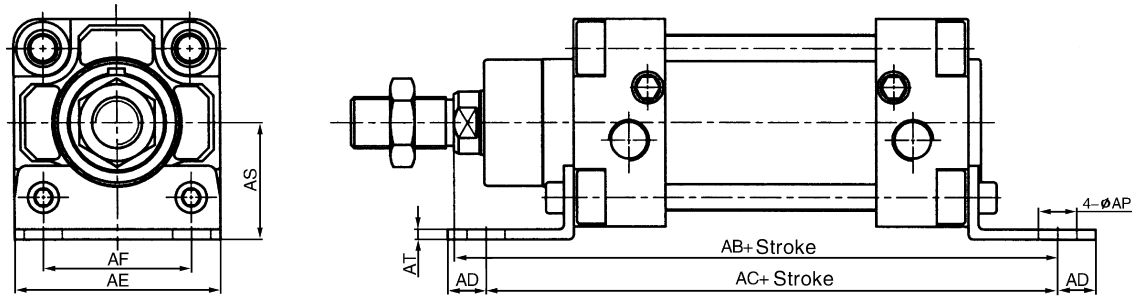


CB — Double–ear mounting type

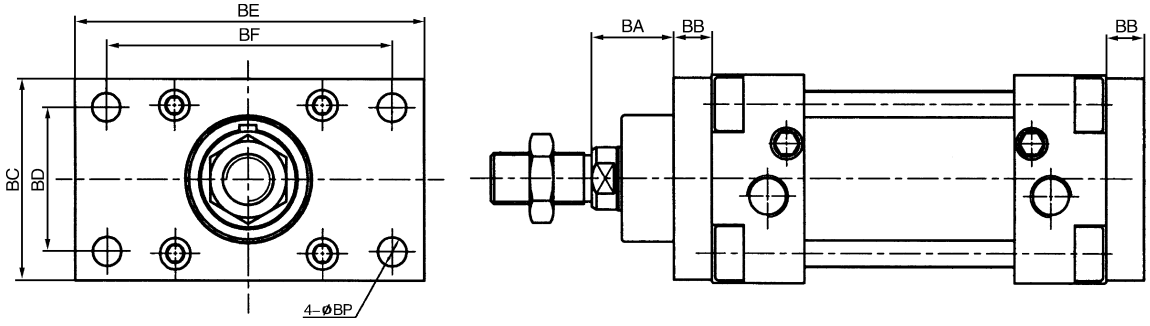


Bore \ stroke	DA	DC	CB	DD	ϕ DE	DQ	CA	CC	CB	CD	ϕ CE	CP	CQ
32	142	22	9	10	10	26	142	22	9	10	10	26	44.5
40	160	25	9	12	12	28	160	25	9	12	12	28	51.5
50	169	27	11	12	12	32	169	27	11	12	12	32	60
63	190	32	11	16	16	40	190	32	11	16	16	40	70
80	210	36	14	16	16	50	210	36	14	16	16	50	90
100	230	41	14	20	20	60	230	41	14	20	20	60	106
125	275	50	20	25	25	70	275	50	20	25	25	70	130
160	315	55	20	25	30	90	315	55	20	25	30	90	175

LB — Foot bracket mounting type



FA、FB–Front and rear flange mounting type



Bore \ stroke	AB	AC	AD	AE	AF	AP	AS	AT	BA	BB	BC	BD	BE	BF	BP
32	144	142	8	48	32	7	32	5	16	10	50	32	80	64	7
40	163	161	12	53	36	10	36	5	20	10	55	36	90	72	9
50	175	170	13	63	45	10	45	6	26	12	65	45	110	90	9
63	190	185	13	73	50	10	50	6	25	12	75	50	125	100	9
80	215	210	19	93	63	12	63	6	30	16	93	63	154	126	12
100	230	220	19	110	75	14.5	71	6	35	16	110	75	186	150	14
125	270	250	20	138	90	16.5	90	8	45	20	138	90	220	180	16
160	320	300	15	184	115	18.5	115	9	60	20	180	115	280	230	18

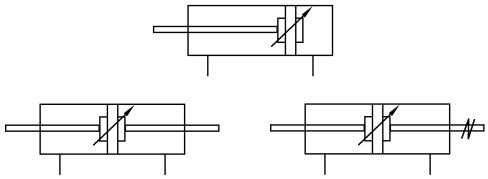
Standard Cylinder

Characteristic:

- Front and rear caps are finished by aluminum alloy die–casting,CNC mechanically processed with high precision.
- Aluminum tube is imported, stainless forever with friction& corrosion resistance .
- Adopt imported none lubrication, long time service and no need lubrication maintenance.
- Unique cushion technique makes smooth action.
- May add the sensor equipment to easily control.
- In terms of SC series,pull–rod is hidden inside.

Specification:

Mode	32	40	50	63	80	100	125	160	200
Motion	Double acting								
Series	SC, SCD, SCJ, SU								
Fluid	Compressed Air								
Operating pressure range(Mpa)	0.1~1								
Operating speed mm/sec	50~500								
Ambient temperature ℃	–10~70℃								
Cushion	adjustable cushion at both ends								
Port size	1/8”	1/4”		3/8”		1/2”			



How to order:

SC	50	×	100	FA	S	2
series	bore		stroke	mounting type	with magnet	Sensor

SC standard cylinder
SC double axial cylinder
SCJ stroke adjustable cylinder
SU pull–rod hidden cylinder

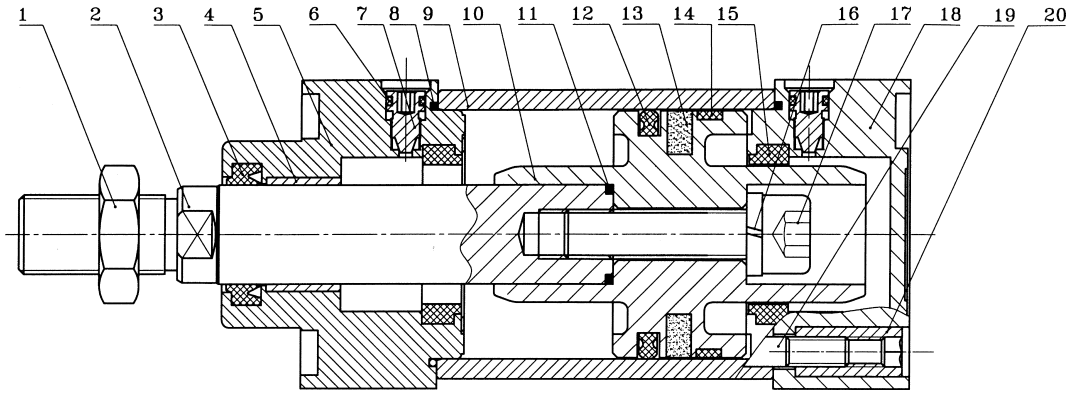
ϕ 32	ϕ 100
ϕ 40	ϕ 125
ϕ 50	ϕ 160
ϕ 63	ϕ 200
ϕ 80	

blank(standard)	
FA	CB
FB	LB
CA	TC

S:with magnet
blank: without magnet

1:1
2:2

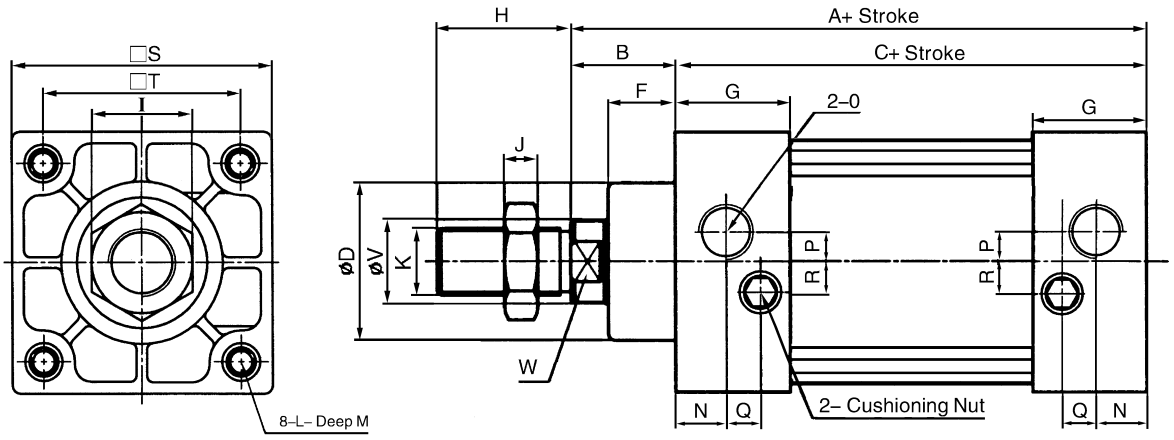
Inner structure drawing:



1	hexagon nut	6	O –ring	11	O –ring	16	spring washer
2	piston ring	7	cushion adjusting bolt	12	C –ring	17	inner hexagon bolt
3	compages seal	8	O–ring	13	magnet	18	rear cover
4	oiled bearing	9	tube	14	guard seals	19	pull–rod
5	front cover	10	piston	15	compages seal	20	pull–rod nut

Standard Dimension:

■ ϕ 32~ ϕ 200

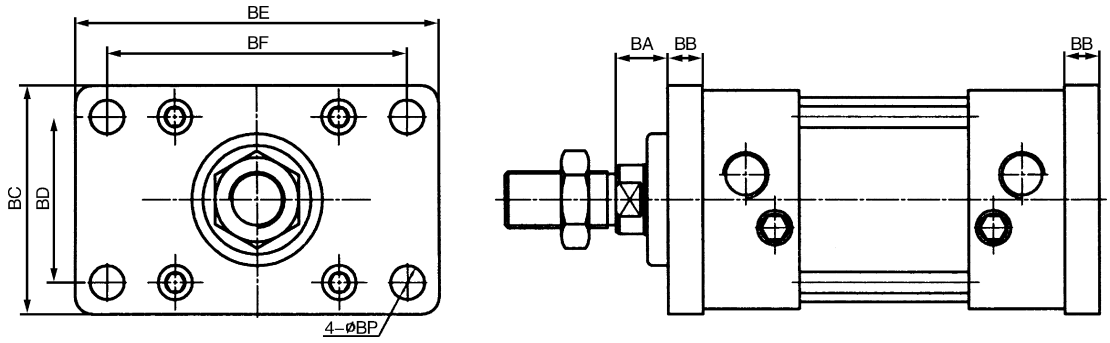


bore/stroke	A	B	C	D	F	G	H	I	J	K	L
32	118	25	93	28	15	27.5	22	17	6	M10 × 1.25	M6
40	118	25	93	32	15	27.5	24	17	7	M12 × 1.25	M6
50	118	25	93	38	16	27.5	32	23	8	M16 × 1.5	M6
63	121	26	96	38	16	27.5	32	23	8	M16 × 1.5	M8
80	143	35	108	43	21	33	40	26	10	M20 × 1.5	M10
100	148	35	113	43	21	33	40	26	10	M20 × 1.5	M10
125	171	47	124	56	32	32	45	41	11	M27 × 2	M12
150	195	55	140	75	35	40	50	46	11	M30 × 1.5	M16
160	195	50	145	64	32	40	50	55	13	M36 × 2	M16
200	202	54	148	66	35	41	60	55	13	M36 × 2	M16

bore/stroke	M	N	O	P	Q	R	S	T	V	W
32	13	12	G1/8”	6	8	6	45.5	33	12	10
40	13	12	G1/4”	6	8	7	50	37	16	13
50	13	12	G1/4”	7	8	8	62	47	20	17
63	13	14	G3/8”	7	8	8	75	56	20	17
80	14	16	G3/8”	10	10	14	94	70	25	22
100	16	16	G1/2”	10	10	11	112	84	25	22
125	15	17	G1/2”	11	6	11	140	110	32	27
150	18	29	G1/2”	11	9	22	170	134	40	36
160	18	24	G1/2”	11	5	12	178	140	40	36
200	18	24	G1/2”	12	6	11	220	175	40	36

FA、FB Dimension：

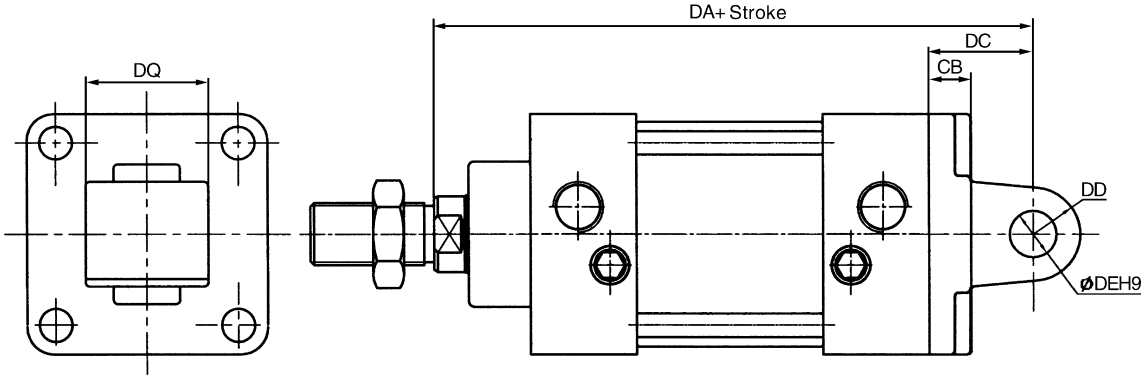
■ ϕ 32~ ϕ 200



bore/stroke	BA	BB	BC	BD	BE	BF	BP
32	15	10	48	33	73	58	6.5
40	15	10	52	36	83	70	6.5
50	14	11	65	47	104	86	6.5
63	15	11	75	56	117	98	9
80	19	16	94	70	143	119	11
100	19	16	115	84	162	138	11
125	27	20	140	90	215	180	16
160	30	20	180	115	270	230	18
200	29	25	220	135	315	270	22

CA Dimension：

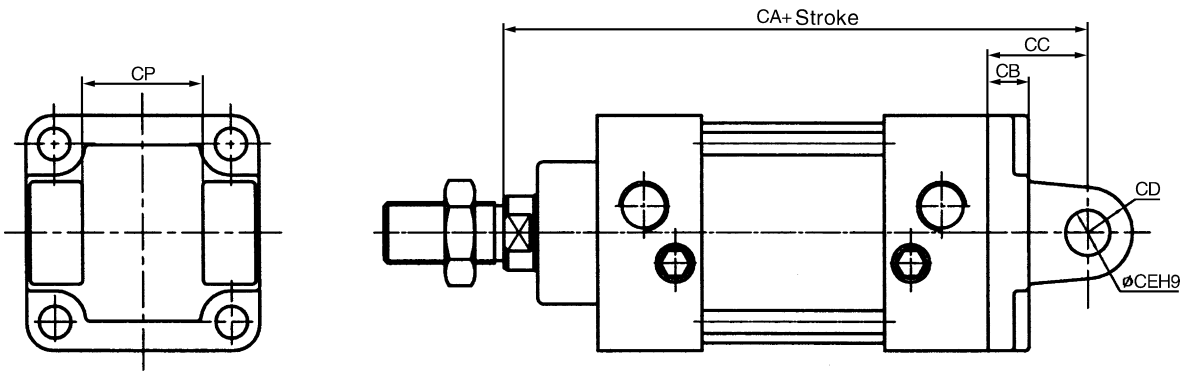
■ ϕ 32~ ϕ 200



bore/stroke	DA	DC	CB	DD	ϕ DE	DQ
32	140	22	9	10	10	26
40	143	25	9	12	12	28
50	145	27	11	12	12	32
63	153	32	11	16	16	40
80	179	36	14	16	16	50
100	189	41	14	20	20	60
125	224	53	20	25	25	70
160	252	57	20	30	30	90
200	262	60	25	30	30	90

CB Dimension:

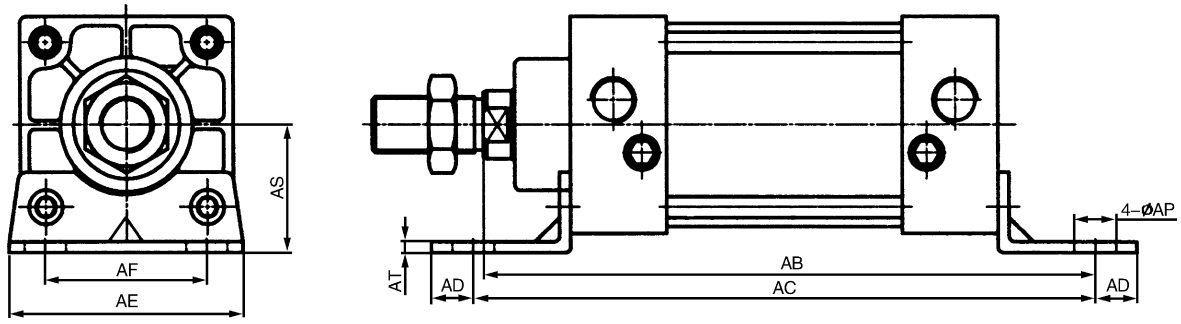
■ ϕ 32~ ϕ 200



bore/stroke	CA	CC	CB	CD	ϕ CE	CP
32	140	22	9	10	10	26
40	143	25	9	12	12	28
50	145	27	11	12	12	32
63	153	32	11	16	16	40
80	179	36	14	16	16	50
100	189	41	14	20	20	60
125	221	50	20	25	25	70
160	248	53	20	30	30	90
200	264	62	25	30	30	90

LB Dimension:

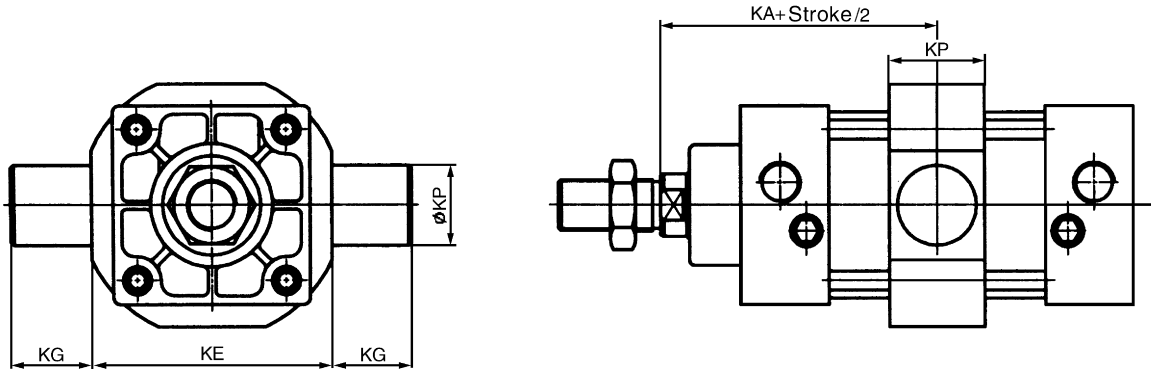
■ ϕ 32~ ϕ 200



bore/stroke	AB	AC	AD	AE	AF	AS	AT	AP
32	138.5	134	9.5	50	33	28	3	9
40	141.5	140	14.5	57	36	30	3	12
50	146	149	12	68	47	36.5	3	12
63	153	158	13	80	56	41	3	12
80	172.5	167	16	97	70	49	4	14
100	178	173	16	112	84	57	4	14
125	206	194	25	140	110	90	5	16
160	230.5	216	25	178	140	115	5	18
200	265.5	275	30	220	175	135	6	22

TC Dimension:

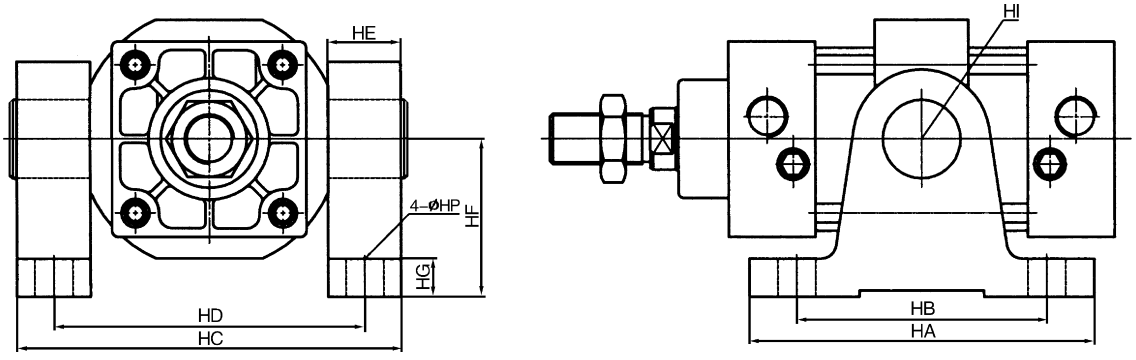
■ ϕ 32~ ϕ 200



bore/stroke	KE	KG	KP	KA
32	53	12	12	71.5
40	63	25	25	71.5
50	76	25	25	71.5
63	89	25	25	73
80	114	27	25	89
100	133	25	25	92
125	165	25	30	109
160	207	29	32	120
200	243	36	36	130

TC Foot mounting type Dimension:

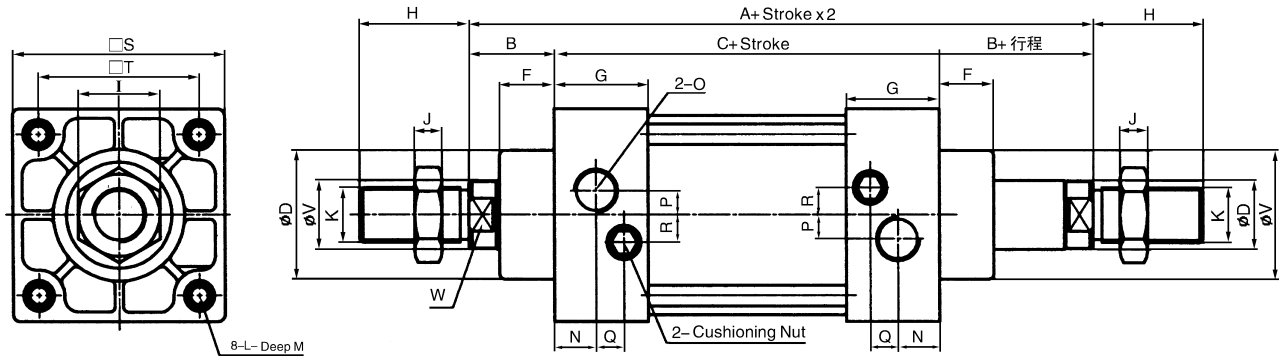
■ ϕ 40~ ϕ 100



bore/stroke	HA	HB	HC	HD	HE	HF	HG	HI	HP
40	110	80	109	86	23	50	12	22	12
50	110	80	122	99	23	50	12	22	12
63	110	80	134	111	23	50	12	22	12
80	120	80	160	137	23	70	14	22	14
100	120	80	178	155	23	70	14	22	14

Standard Dimension:

■ ϕ 32~ ϕ 200

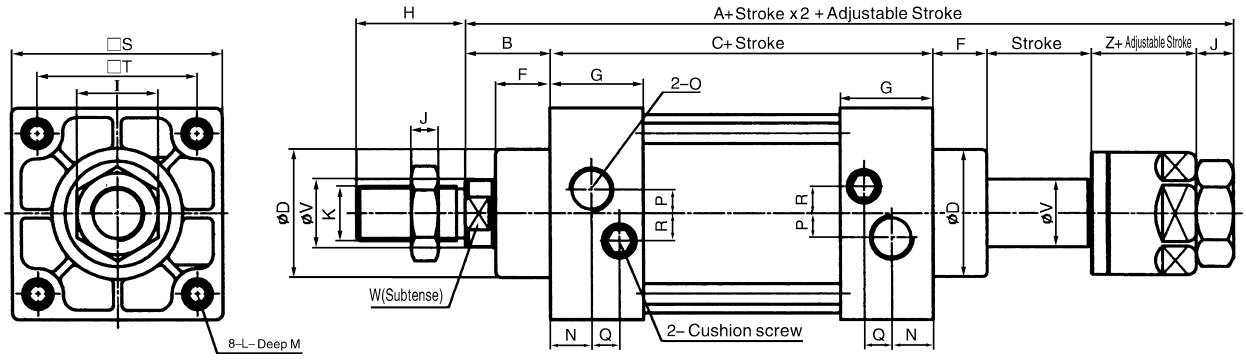


bore/stroke	A	B	C	D	F	G	H	I	J	K	L
32	143	25	93	28	15	27.5	22	17	6	M10 × 1.25	M6
40	143	25	93	32	15	27.5	24	17	7	M12 × 1.25	M6
50	143	25	93	38	16	27.5	32	23	8	M16 × 1.5	M6
63	147	26	96	38	16	27.5	32	23	8	M16 × 1.5	M8
80	178	35	108	43	21	33	40	26	10	M20 × 1.5	M10
100	183	35	113	43	21	33	40	26	10	M20 × 1.5	M10
125	218	47	124	56	32	32	45	41	11	M27 × 2	M12
160	245	50	145	64	32	40	50	55	13	M36 × 2	M16
200	256	54	148	66	35	41	60	55	13	M36 × 2	M16

bore/stroke	M	N	O	P	Q	R	S	T	V	W
32	13	12	G1/8”	6	8	6	45.5	33	12	10
40	13	12	G1/4”	6	8	7	50	37	16	13
50	13	12	G1/4”	7	8	8	62	47	20	17
63	13	14	G3/8”	7	8	8	75	56	20	17
80	14	16	G3/8”	10	10	14	94	70	25	22
100	16	16	G1/2”	10	10	11	112	84	25	22
125	15	17	G1/2”	11	6	11	140	110	32	27
160	18	24	G1/2”	11	5	12	178	140	40	36
200	18	24	G1/2”	12	6	11	220	175	40	36

Standard Dimension:

■ ϕ 32~ ϕ 200



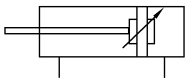
bore/stroke	A	B	C	D	F	G	H	I	J	K	L
32	160	25	93	28	15	27.5	22	17	6	M10 × 1.25	M6
40	161	25	93	32	15	27.5	24	17	7	M12 × 1.25	M6
50	165	25	93	38	16	27.5	32	23	8	M16 × 1.5	M6
63	168	26	96	38	16	27.5	32	23	8	M16 × 1.5	M8
80	203	35	108	43	21	33	40	26	10	M20 × 1.5	M10
100	208	35	113	43	21	33	40	26	10	M20 × 1.5	M10
125	249	47	124	56	32	32	45	41	11	M27 × 2	M12
160	280	50	145	64	32	40	50	55	13	M36 × 2	M16
200	290	54	148	66	35	41	60	55	13	M36 × 2	M16

bore/stroke	M	N	O	P	Q	R	S	T	V	W	Z
32	13	12	G1/8”	6	8	6	45.5	33	12	10	21
40	13	12	G1/4”	6	8	7	50	37	16	13	21
50	13	12	G1/4”	7	8	8	62	47	20	17	23
63	13	14	G3/8”	7	8	8	75	56	20	17	23
80	14	16	G3/8”	10	10	14	94	70	25	22	29
100	16	16	G1/2”	10	10	11	112	84	25	22	29
125	15	17	G1/2”	11	6	11	140	110	32	27	35
160	18	24	G1/2”	11	5	12	178	140	40	36	40
200	18	24	G1/2”	12	6	11	220	175	40	36	40

Standard Cylinder

Characteristic:

- Front and rear caps are finished by aluminum alloy die-casting,CNC mechanically processed with high precision.Quality meet international standard.
- Aluminum tube is imported,stainless forever with friction &corrosion resistance.
- Adopt imported none lubrication,long time service and no need lubrication maintenance.
- Unique cushion technique makes smooth action.
- May add the sensor equipment to easily control.



Specification:

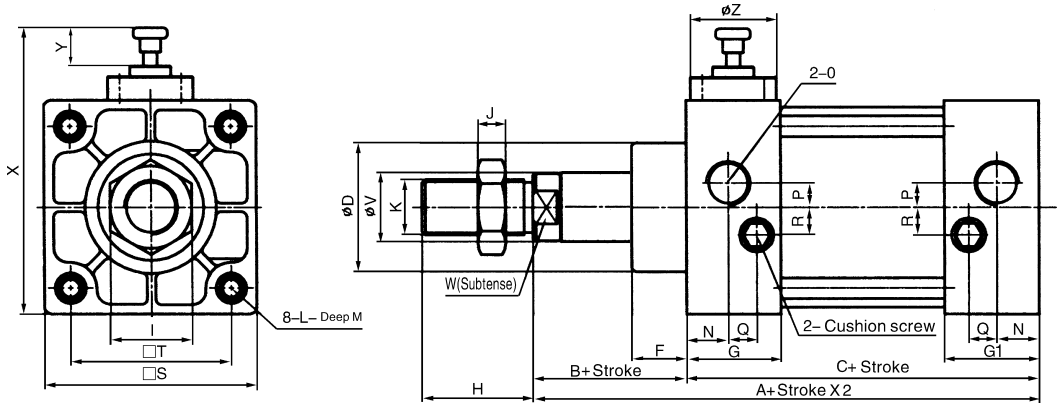
Mode	40	50	63	80	100	125	160	200
Motion	Double acting							
Series	SZA, SZB							
Fluid	Compressed Air							
Operating pressure range (Mpa)	0.1~1							
Operating speed mm/sec	50~500							
Ambient temperature ℃	-10~70℃							
Cushion	adjustable cushion at both ends							
Port size	1/4"		3/8"		1/2"			

How to order:

SZA	50	×	100	FA	S	2
series	bore		stroke	mounting type	with magnet	Sensor
SZA Front cover with lock SZB Back cover with lock	ϕ 40 ϕ 100 ϕ 50 ϕ 125 ϕ 63 ϕ 160 ϕ 80 ϕ 200			blank(standard)	S:with magnet blank: without magnet	1:1 2:2

SZA Dimension:

■ ϕ 40~ ϕ 200

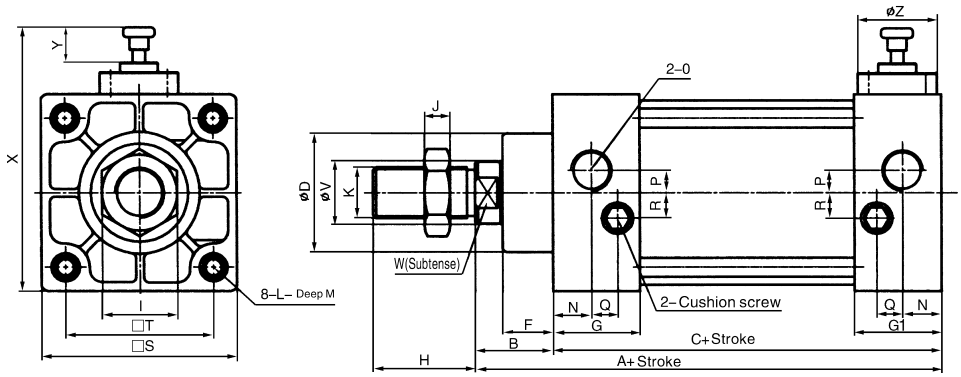


bore/stroke	A	B	C	D	F	G	G1	H	I	J	K	L
40	118	25	95.5	32	15	30	27.5	24	17	7	M12 × 1.25	M6
50	118	25	97	38	16	31.5	27.5	32	23	8	M16 × 1.5	M6
63	121	26	99	38	16	31.5	27.5	32	23	8	M16 × 1.5	M8
80	143	35	113	43	21	39	33	40	26	10	M20 × 1.5	M10
100	148	35	116	43	21	39	33	40	26	10	M20 × 1.5	M10
125	181	47	134	56	32	42	32	45	41	11	M27 × 2	M12
160	197	50	147	64	32	42	40	50	55	13	M36 × 2	M16
200	211	54	157	66	35	50	42	60	55	13	M36 × 2	M16

bore/stroke	M	N	O	P	Q	R	S	T	V	W	X	Y	Z
40	16	12	G1/4”	6	8	7	50	37	16	13	71	10	25
50	16	12	G1/4”	7	8	8	62	47	20	17	83	10	30
63	16	14	G3/8”	7	8	8	75	56	20	17	96	8	30
80	18	16	G3/8”	10	10	14	94	70	25	22	116	8	33
100	18	16	G1/2”	10	10	11	112	84	25	22	134	8	33
125	15	17	G1/2”	11	6	11	140	110	32	27	165	10	40
160	18	24	G1/2”	11	5	12	178	140	40	36	205	10	40
200	18	24	G1/2”	12	6	11	220	175	40	36	247	10	47

SZB Dimension:

■ ϕ 40~ ϕ 200



bore/stroke	A	B	C	D	F	G	G1	H	I	J	K	L
40	118	25	95.5	32	15	27.5	30	24	17	7	M12 × 1.25	M6
50	118	25	97	38	16	27.5	31.5	32	23	8	M16 × 1.5	M6
63	121	26	99	38	16	27.5	31.5	32	23	8	M16 × 1.5	M8
80	143	35	113	43	21	33	39	40	26	10	M20 × 1.5	M10
100	148	35	116	43	21	33	39	40	26	10	M20 × 1.5	M10
125	181	47	134	56	32	32	42	45	41	11	M27 × 2	M12
160	197	50	147	64	32	40	42	50	55	13	M36 × 2	M16
200	211	54	157	66	35	42	50	60	55	13	M36 × 2	M16

bore/stroke	M	N	O	P	Q	R	S	T	V	W	X	Y	Z
40	16	12	G1/4”	6	8	7	50	37	16	13	71	10	25
50	16	12	G1/4”	7	8	8	62	47	20	17	83	10	30
63	16	14	G3/8”	7	8	8	75	56	20	17	96	8	30
80	18	16	G3/8”	10	10	14	94	70	25	22	116	8	33
100	18	16	G1/2”	10	10	11	112	84	25	22	134	8	33
125	15	17	G1/2”	11	6	11	140	110	32	27	165	10	40
160	18	24	G1/2”	11	5	12	178	140	40	36	205	10	40
200	18	24	G1/2”	12	6	11	220	175	40	36	247	10	47

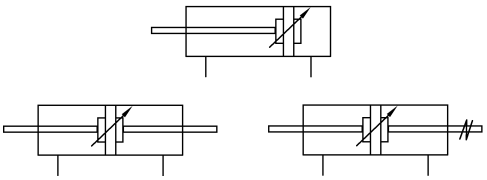
Standard Cylinder

ISO International standard aluminium alloy cylinder:

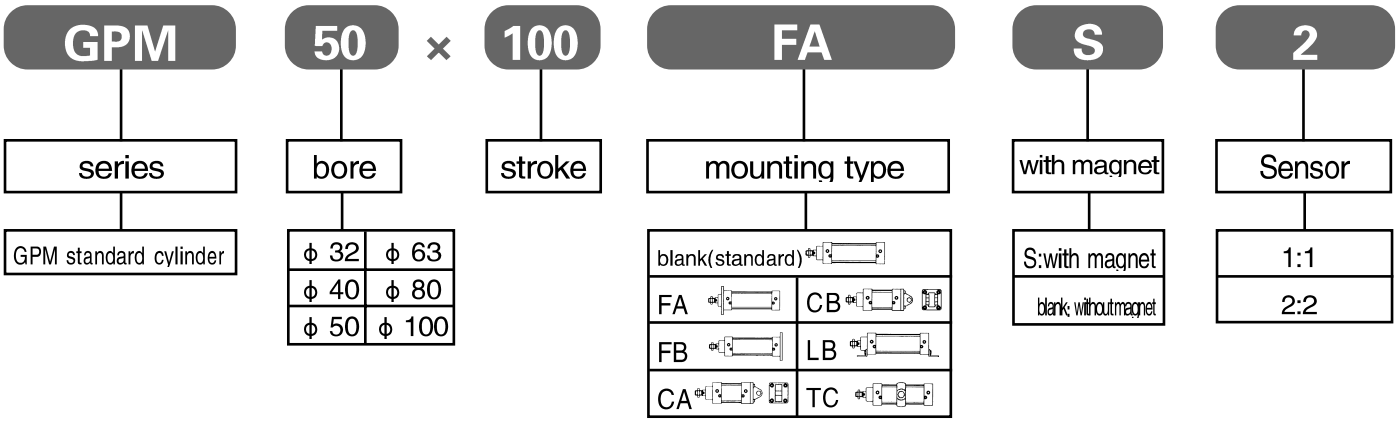
- Front and rear caps are finished by aluminum alloy die–casting,CNC mechanically processed with high precision.Quality meet international standard.
- Aluminum tube is imported,stainless forever with friction &corrosion resistance.
- Adopt imported none lubrication,long time service and no need lubrication maintenance.
- Unique cushion technique makes smooth action.
- May add the sensor equipment to easily control.

Specification:

Mode	32	40	50	63	80	100
Motion	Double acting					
Series	GPM					
Fluid	Compressed Air					
Operating pressure range (Mpa)	0.1~1					
Operating speed mm/sec	50~500					
Ambient temperature ℃	–10~70℃					
Cushion	adjustable cushion at both ends					
Port size	1/8”	1/4”		3/8”		1/2”

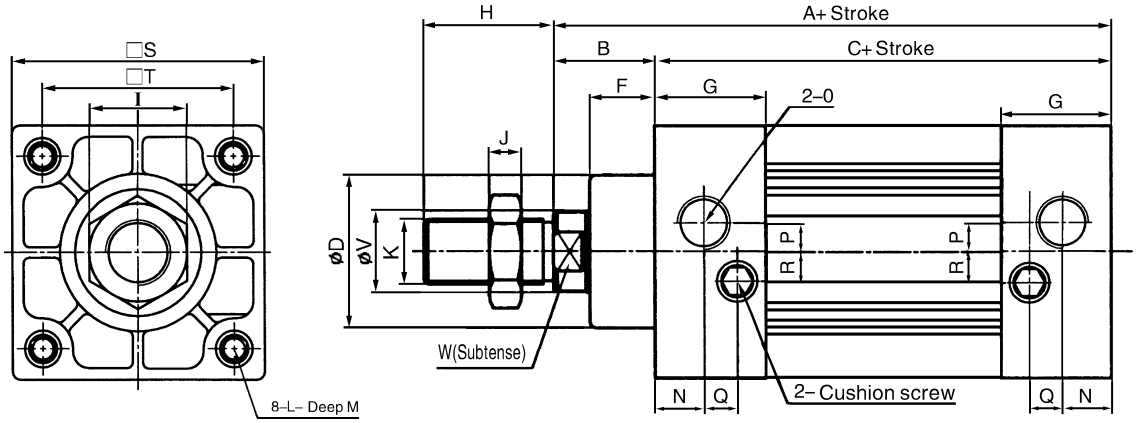


How to order:



Standard Dimension:

■ ϕ 32~ ϕ 100



bore/stroke	A	B	C	D	F	G	H	I	J	K	L
32	118	25	93	28	15	27.5	22	17	6	M10 × 1.25	M6
40	118	25	93	32	15	27.5	24	17	7	M12 × 1.25	M6
50	118	25	93	38	16	27.5	32	23	8	M16 × 1.5	M6
63	121	26	96	38	16	27.5	32	23	8	M16 × 1.5	M8
80	143	35	108	43	21	33	40	26	10	M20 × 1.5	M10
100	148	35	113	43	21	33	40	26	10	M20 × 1.5	M10

bore/stroke	M	N	O	P	Q	R	S	T	V	W
32	13	12	G1/8”	6	8	6	45.5	33	12	10
40	13	12	G1/4”	6	8	7	50	37	16	13
50	13	12	G1/4”	7	8	8	62	47	20	17
63	13	14	G3/8”	7	8	8	75	56	20	17
80	14	16	G3/8”	10	10	14	94	70	25	22
100	16	16	G1/2”	10	10	11	112	84	25	22

Note:The sizes of accessories are same as SC ' s

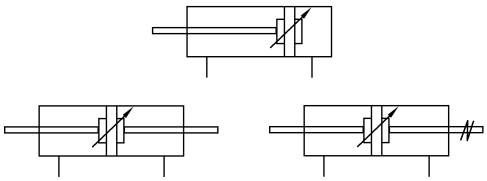
Standard Cylinder

ISO International standard aluminium alloy cylinder:

- Finished by aluminum alloy die–casting,CNC mechanically processed with high precision.Quality meet international standard.
- Aluminum tube is imported,stainless forever with friction&corrosion resistance.
- Adopt imported none lubrication,long time service and no need lubrication maintenance.
- Unique cushion technique makes smooth action.
- May add the sensor equipment to easily control.

Specification:

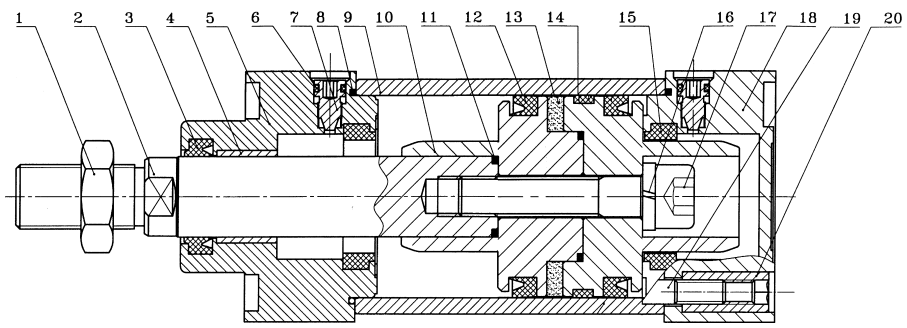
Mode	32	40	50	63	80	100	125	160
Motion	Double acting							
Series	QGB							
Fluid	Compressed Air							
Operating pressure range(Mpa)	0.1~1							
Operating speed mm/sec	50~500							
Ambient temperature ℃	–10~70℃							
Cushion	adjustable cushion at both ends							
Port size	1/8"	1/4"		3/8"	1/2"			3/4"



How to order:

QGB	50 ×	100	FA	S	2
series	bore	stroke	mounting type	with magnet	Sensor
QGB standard cylinder	ϕ 32 / ϕ 40 / ϕ 50 / ϕ 63 / ϕ 80 / ϕ 100 / ϕ 125 / ϕ 160		blank(standard) / FA / CB / FB / LB	S:with magnet / blank :without magnet	1:1 / 2:2

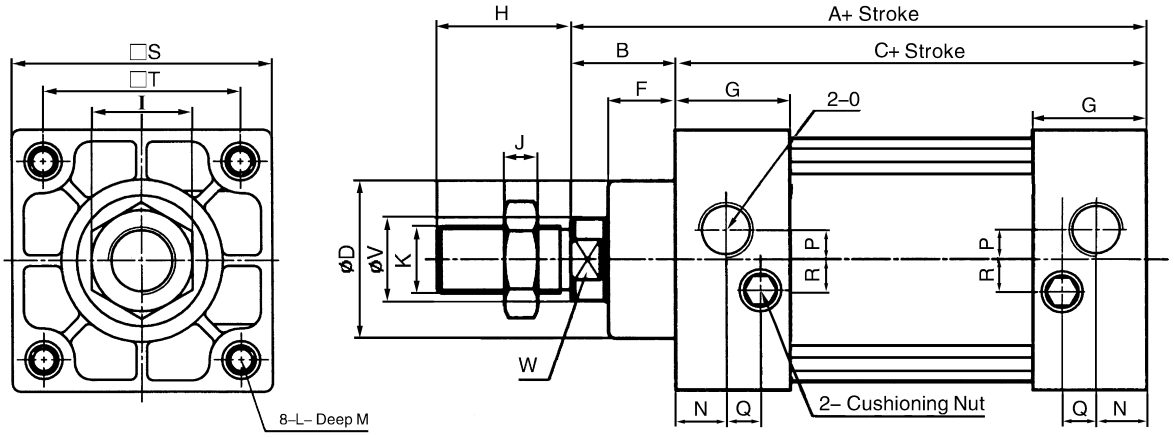
Inner structure drawing:



1	hexagon nut	11	O –ring
2	Piston Rod	12	C –ring
3	compages seal	13	magnet
4	oiled bearing	14	guard seals
5	front cover	15	compages seal
6	O –ring	16	spring washer
7	cushion adjusting bolt	17	inner hexagon bolt
8	O–ring	18	rear cover
9	tube	19	pull–rod
10	piston	20	pull–rod nut

Standard Dimension:

■ ϕ 32~ ϕ 200



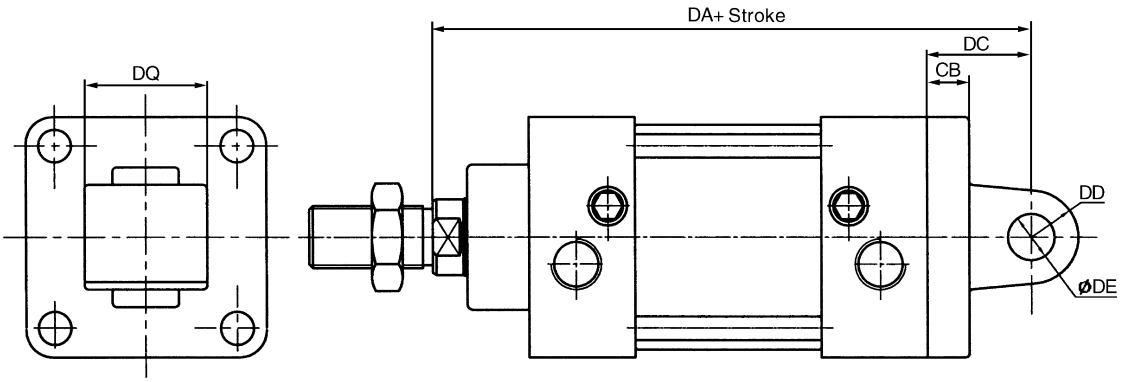
bore/stroke	A	B	C	D	F	G	H	I	J	K	L
32	118	25	93	28	15	27.5	22	16	6	M10 × 1.25	M6
40	135	30	105	30	23	28	24	18	7	M12 × 1.25	M6
50	145	35	110	35	25	28	32	24	8	M16 × 1.5	M6
63	158	37	121	40	25	32	32	24	8	M16 × 1.5	M8
80	174	46	128	50	30	32	40	30	10	M20 × 1.5	M10
100	189	51	138	50	35	37.5	40	30	10	M20 × 1.5	M10
125	225	65	160	60	44.5	46.5	54	41	11	M27 × 2	M12
160	260	80	180	65	48	50	72	55	13	M36 × 2	M16

bore/stroke	M	N	O	P	Q	R	S	T	V	W
32	14	11	G1/8”	6	9	6	45.5	33	12	10
40	14	11	G1/4”	7	9	7	53	40	16	13
50	14	11	G1/4”	7	9	7	65	48	20	17
63	14	14	G3/8”	8	10	8	80	58	20	17
80	16	14	G1/2”	12	10	10	100	75	25	22
100	17	16	G1/2”	12	13	10	120	90	25	22
125	18	23	G1/2”	12	13	18	136	110	32	27
160	18	24	G3/4”	12	13	22	180	145	40	36

Note:The sizes of accessories are same as SC ' s

CA Dimension:

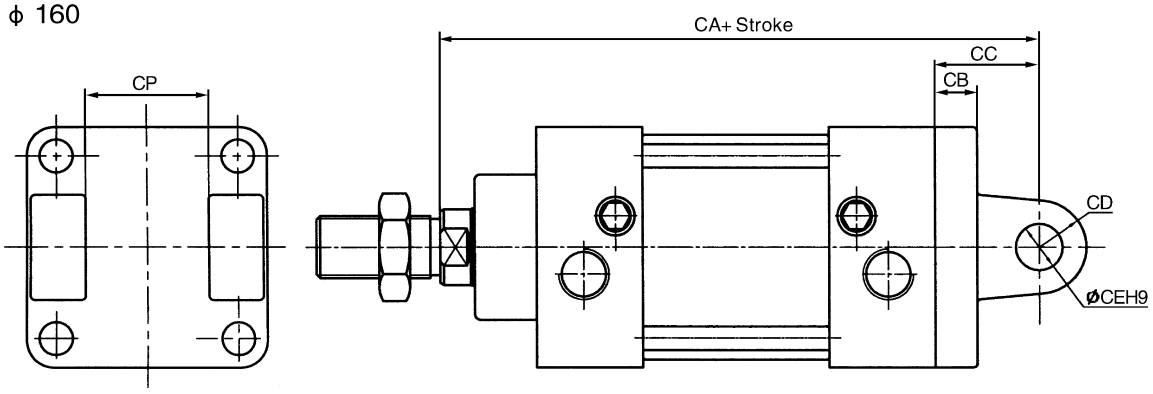
■ ϕ 32~ ϕ 160



bore/stroke	DA	DC	CB	DD	ϕ DE	DQ
32	140	22	10	10	10	26
40	160	25	10	12	12	28
50	170	25	10	12	12	32
63	190	32	12	15	16	40
80	210	36	16	15	16	50
100	230	41	16	20	20	60
125	275	53	20	25	25	70
160	315	57	20	30	30	90

CB Dimension:

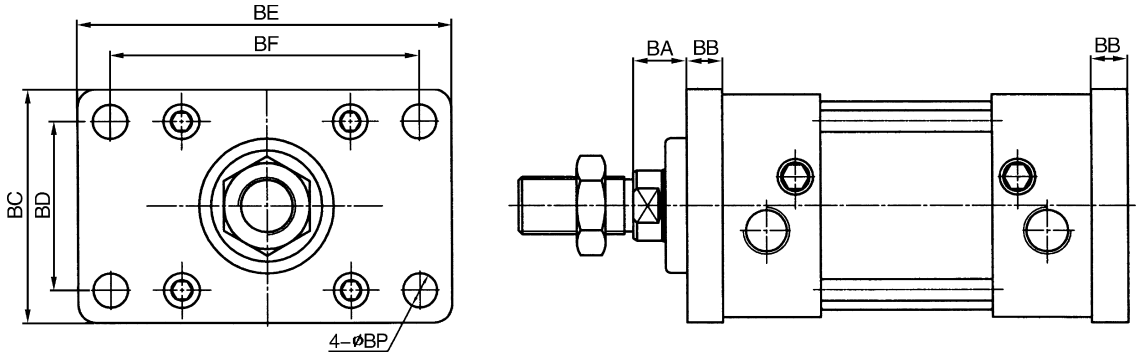
■ ϕ 32~ ϕ 160



bore/stroke	DA	DC	CB	DD	ϕ CE	CP
32	140	22	10	10	10	26
40	160	25	10	12	12	28
50	170	25	10	12	12	32
63	190	32	12	15	16	40
80	210	36	16	15	16	50
100	230	41	16	20	20	60
125	275	53	20	25	25	70
160	315	57	20	30	30	90

FA Dimension:

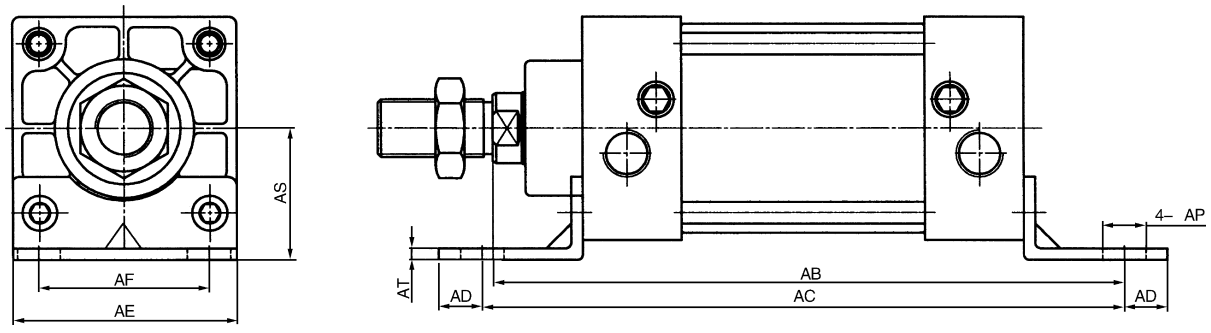
■ ϕ 32~ ϕ 160



bore/stroke	C	BA	BB	BC	BD	BE	BF	BP
32	93	15	10	48	33	80	64	7
40	105	20	10	55	36	90	72	9
50	110	25	10	65	45	110	90	9
63	121	25	12	80	50	25	100	9
80	128	30	16	100	63	155	126	12
100	138	35	16	115	75	180	150	14
125	160	45	20	145	90	215	180	16
160	180	60	20	190	115	270	230	18

LB Dimension:

■ ϕ 32~ ϕ 160



bore/stroke	AB	AC	AD	AE	AF	AP	AS	AT
32	142.5	142	11	48	32	7	32	4
40	163	161	12	55	36	9	36	5
50	175	170	15	65	45	9	45	6
63	190	185	13	80	50	9	50	6
80	215	210	19	100	63	12	63	8
100	230	220	19	115	75	14	75	8
125	270	250	25	145	90	16	90	8
160	320	300	30	190	115	18	115	10

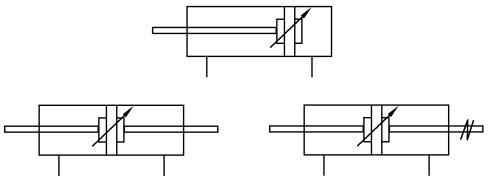
Standard Cylinder

ISO International standard aluminium alloy cylinder:

- CNC mechanically processed with high precision.Quality meet international standard.
- Adopt imported none lubrication,long time service and no need lubrication maintenance.
- Unique cushion technique makes smooth action.

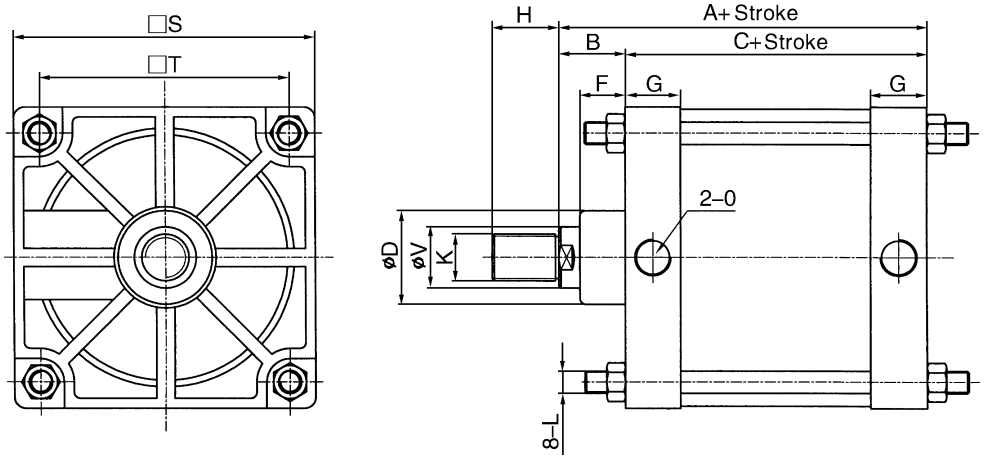
Specification:

Mode	250	320	400
Motion	Double acting		
Series	QGB		
Fluid	Compressed Air		
Operating pressure range (Mpa)	0.1~1		
Operating speed mm/sec	50~500		
Ambient temperature ℃	–10~70℃		
Cushion	adjustable cushion at both ends		
Port size	1 ”		



Dimension(mm):

■ ϕ 250~ ϕ 400

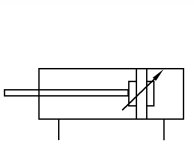


bore/stroke	A	B	C	D	F	G	H	K	L	O	S	T	V
250	231	61	170	84	41	50	60	M42 × 2	M20	G 1 ”	270	225	55
320	325	110	215	105	75	60	75	M48 × 2	M24	G1”	350	280	63
400	355	115	240	125	120	65	100	M60 × 2	M30	G1”	430	350	80

Cylinder

Characteristic:

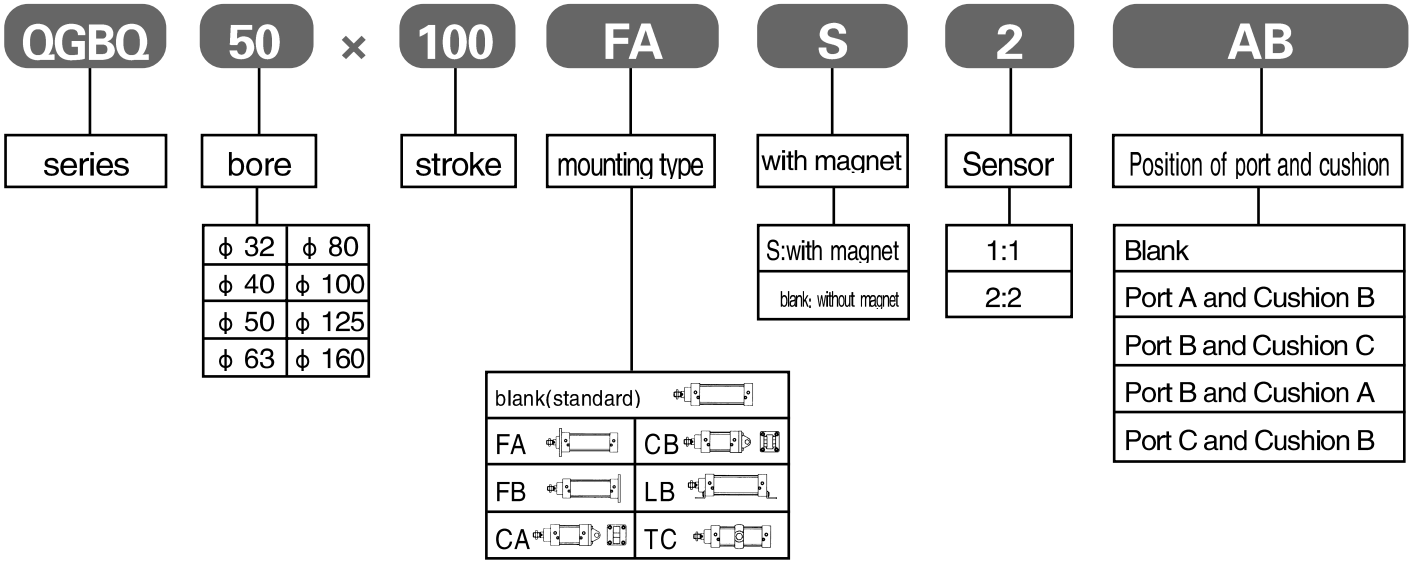
- Front and rear caps are finished by aluminum alloy die–casting,CNC mechanically processed with high precision.
- Aluminum tube is imported, stainless forever with friction& corrosion resistance .
- Adopt imported none lubrication, long time service and no need lubrication maintenance.
- Unique cushion technique makes smooth action.
- May add the sensor equipment to easily control.
- In terms of SC series,pull–rod is hidden inside.



Specification:

Mode	32	40	50	63	80	100	125	160
Motion	Double acting							
Fluid	Compressed Air							
Operating pressure range(Mpa)	0.1~1							
Operating speed mm/sec	50~500							
Ambient temperature ℃	–10~70							
Cushion	adjustable cushion at both ends							
Port size	1/8"	1/4"		3/8"		1/2"		

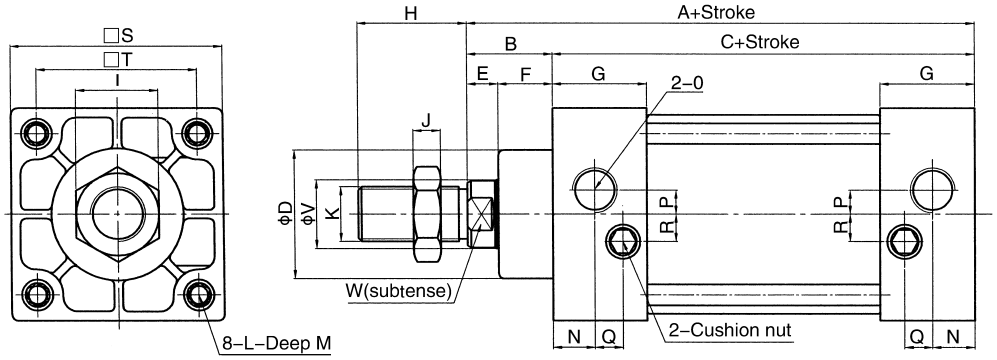
How to order:



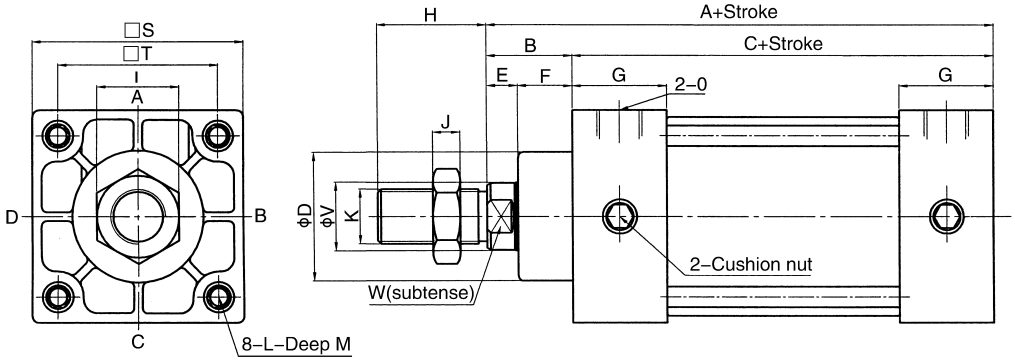
●The choice of port and cushion position is limited to QGBQ125 and QGBQ160

Standard Dimension:

■ ϕ 32~ ϕ 100



■ ϕ 125~ ϕ 160



bore/stroke	A	B	C	D	E	F	G	H	I	J	K	L
32	118	25	93	28	10	15	27.5	22	17	6	M10 × 1.25	M6
40	118	25	93	32	10	15	27.5	24	17	7	M12 × 1.25	M6
50	118	25	93	37.5	9	16	27.5	32	23	8	M16 × 1.5	M8
63	121	26	95	38	10	16	27.5	32	23	8	M16 × 1.5	M8
80	143	35	107	43	15.5	21	33	40	26	10	M20 × 1.5	M10
100	143	35	108	43	15.5	21	33	40	26	10	M20 × 1.5	M10
125	149	35	114	52	14	21	38	54	38	11	M27 × 2	M12
160	157	41	116	62	16	25	38	72	50	13	M36 × 2	M16

bore/stroke	M	N	O	P	Q	R	S	T	V	W
32	13	12	G1/8”	6	8	6	45.5	33	12	10
40	13	12	G1/4”	6	8	7	50	37	16	13
50	13	12	G1/4”	7	8	8	62	47	20	17
63	13	14	G3/8”	7	8	8	75	56	20	17
80	14	16	G3/8”	10	10	14	94	70	25	22
100	16	16	G1/2”	10	10	11	112	84	25	22
125	15	–	G1/2”	–	–	–	138	104	32	27
160	18	–	G1/2”	–	–	–	178	134	40	36

Clamp Cylinder

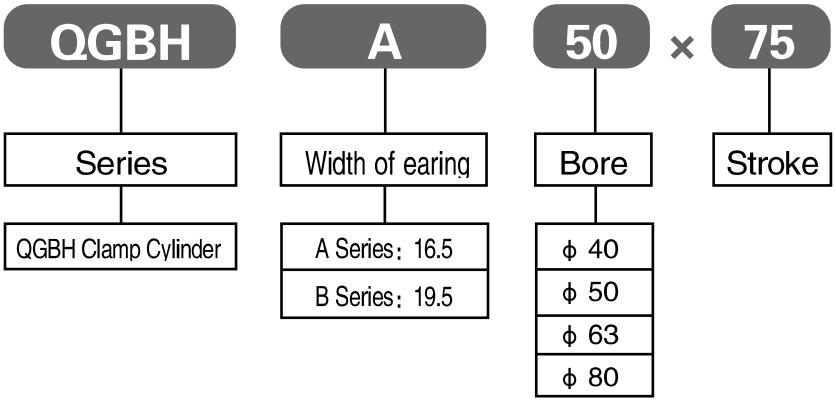
Characteristic:

Front and rear caps are finished by aluminum alloy die–casting, processed with high precision. Three side are settled air port,easy for installation,The flow–limiting valve in front and back sides,move–ment speed is adjustable . Adjustable air cushion in the front and back sides, Interface of double–toggle is special designing for welder when weld the car body.

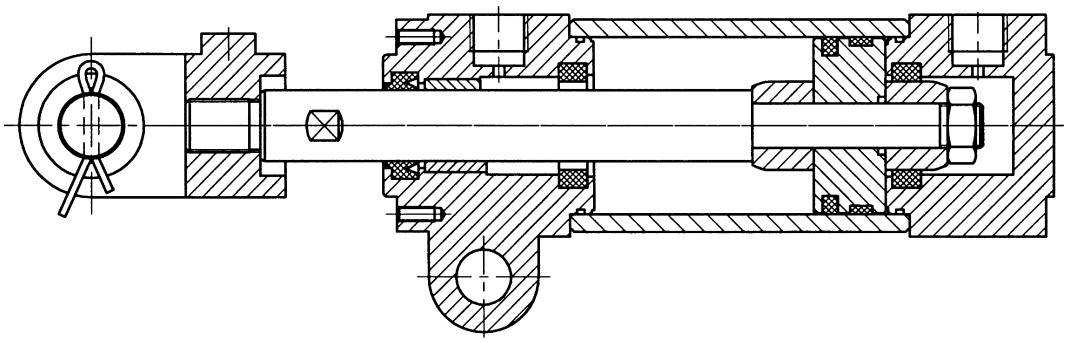
Specification:

Type	40	50	63	80
Port size	1/4"			3/8"
Fluid	Compressed Air			
Operating pressure Range Mpa	0.05~1.5			
Operating speed mm/sec	50~500			
Ambient temperature ℃	5~60			
Cushion	Attach Two Sides			
Oil	Luicbration Needless(Oil Spray Luicbration)			
Mounting	Two Ears			

How to order:



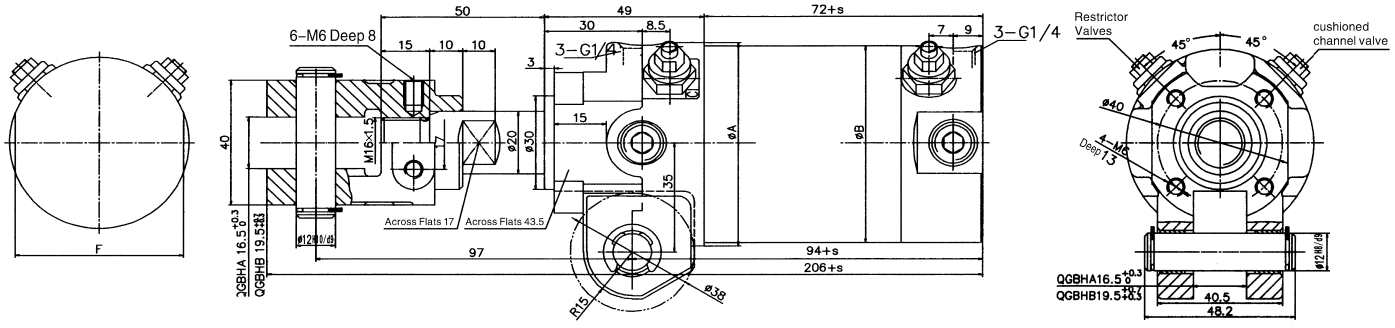
Inner structure drawing:



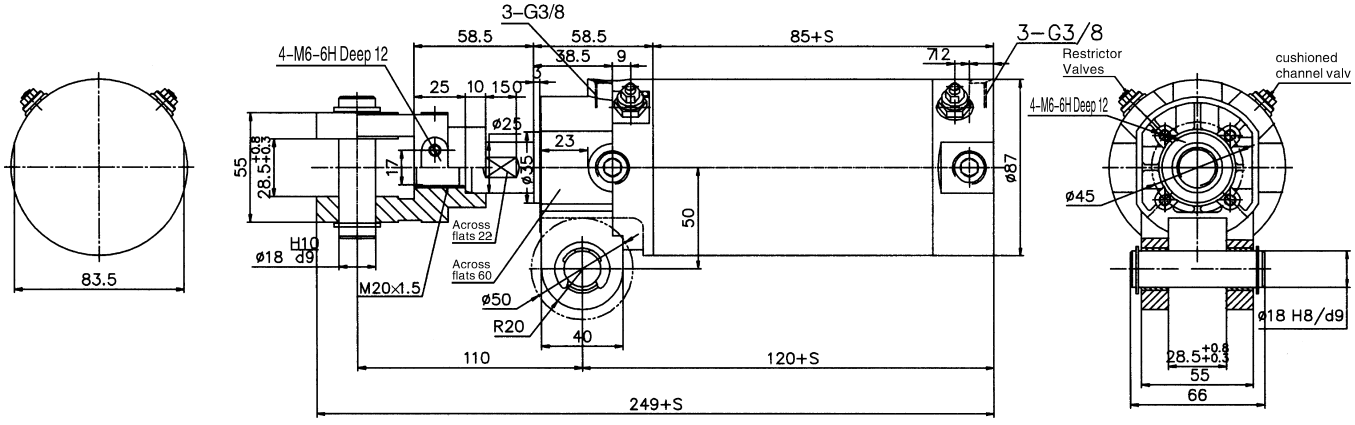
Dimension(mm):

Bore	F	ϕ A	ϕ B
ϕ 40	42	ϕ 52	ϕ 45
ϕ 50	51.5	ϕ 60	ϕ 55
ϕ 63	68.5	ϕ 74	ϕ 72

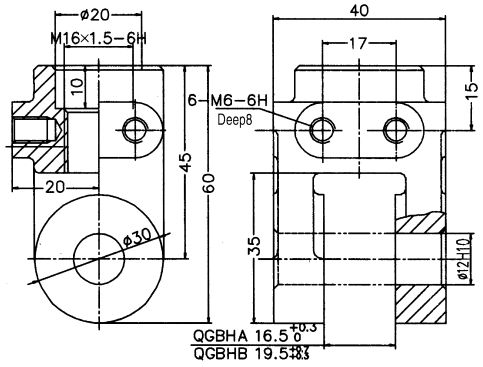
QGBH40、50、63



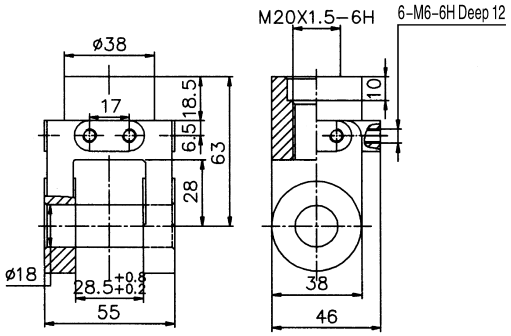
QGBH80



QGBH40、50、63 Dimension of joint shape



QGBH80 Dimension of joint shape



Clamp Modules Cylinder

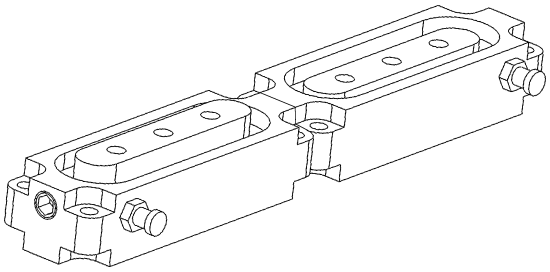
Characteristic:

EV series without piston rod, with diaphragm and a significantly shorter stroke, clamps workpiece quickly for surface roughness,suitable for all types of attaching & detaching tools. Flat structure and stronge clamp force,especially for slender workpiece. Only work with close fitting the workpiece and with reset function for high speed movement,due to no cushioning.

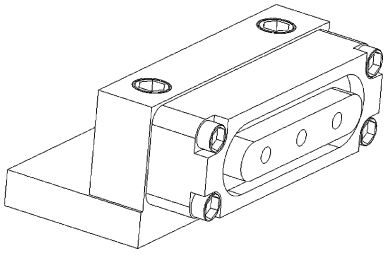
Specification:

Type	EV–20/75–5	EV–20/120–5
Fluid	Compressed Air	
Structure Feature	Diaphragm Cylinder	
Operating pressure range Mpa	0.5	
Ambient temperature ℃	–20~40	

Mounting type:

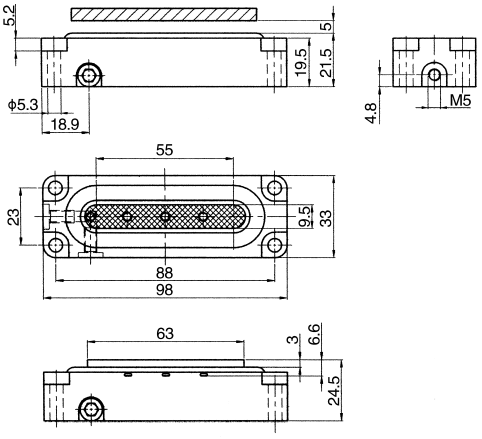


Accessories Mounting type:

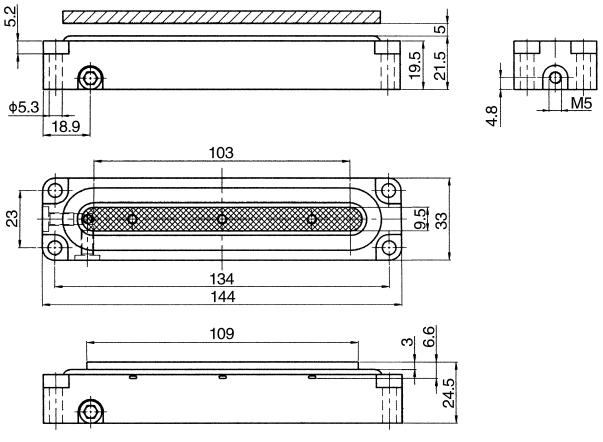


Dimension:

■ EV–20/75–5



■ EV–20/120–5



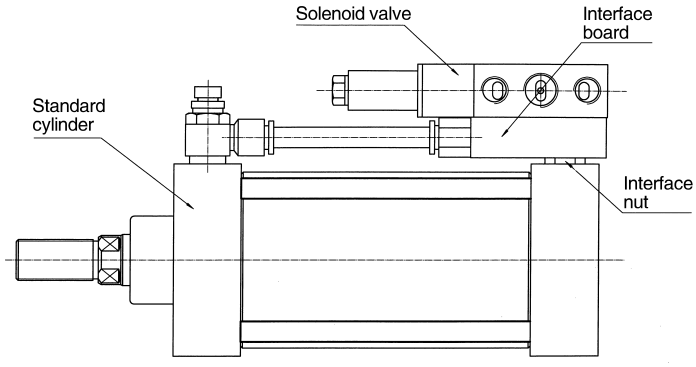
Cylinder with valve

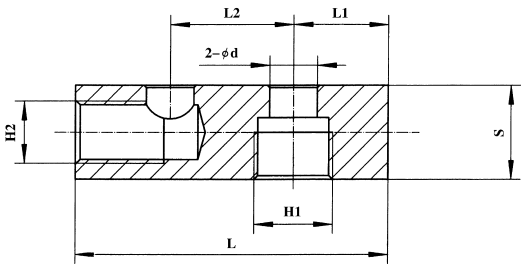
Character:

AVS assembly pedestal can directly set the valve on make one pneumatic working unit

Attention:Min.stroke 100mm

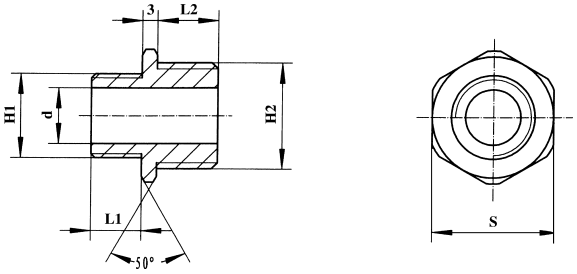
Assembly example





AVS Joint panel

Type	bore optional	d	G1	G2	L	L1	L2	S	Solenoid Valve optional
AVS2	32,40,50	7	1/4"	1/4"	50	13.5	23	20	4M210、4M220、4M230
AVS3	63,80	10	3/8"	3/8"	66	20	26	20	4M310、4M320、4M330
AVS4	100 以上	12	1/2"	1/2"	104	29	36	34	4M410、4M420、4M430



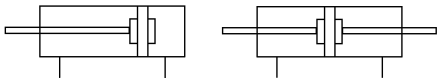
AVSJ Connector

No	H1	H2	d	L1	L2	S
AVSJ1	1/4"	1/8"	5	7	7	14
AVSJ2	1/4"	1/4"	9	7	7	14
AVSJ3	3/8"	3/8"	11	7	10	17
AVSJ4	1/2"	1/2"	12	14	14	22

Stainless Steel Cylinder

Character:

- Use imported non–lubrication oil seal,fits for high speed movement.
- No draw rod type,tube and covers made by roll extrusion.
- Has non–lubrication bearing,no maintenance for long time work with longer life than usual one.
- Magnet in piston,whole series can be attached with sensor switch.



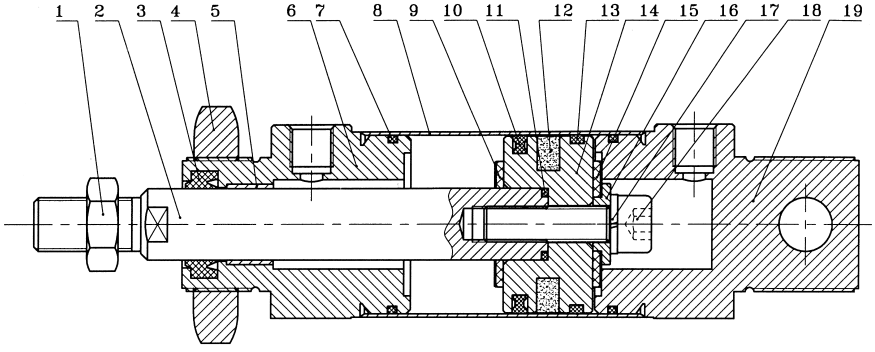
Specification:

Mode	12	16	20	25	32	40
Motion	Double acting					
Series	MS, MSD					
Fluid	Compressed Air					
Operating pressure range(Mpa)	0.1~0.9					
Operating speed(mm/sec)	50~500					
Ambient temperature(℃)	–10~70℃					
Port size	M5		1/8”			

How to order:

MS	20	×	100	LB	S	2
series	bore		stroke	mounting type	with magnet	sensor
MS:stainless steel cylinder MSD:Double rod stainless steel cylinder	ϕ 12 ϕ 16 ϕ 20 ϕ 25 ϕ 32 ϕ 40			LB FA/FB	S:with magnet blank: without magnet	1:1 2:2

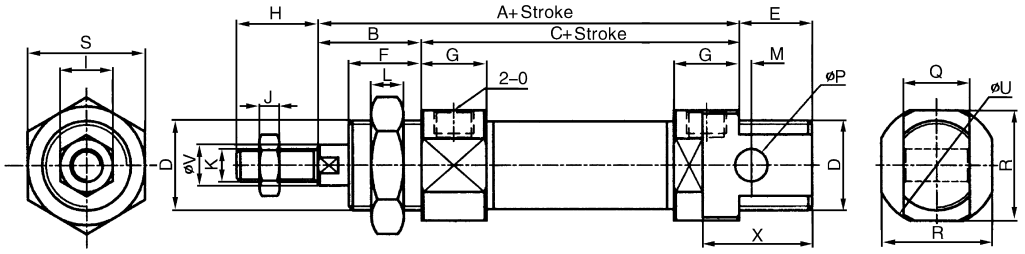
Inner structure drawing:



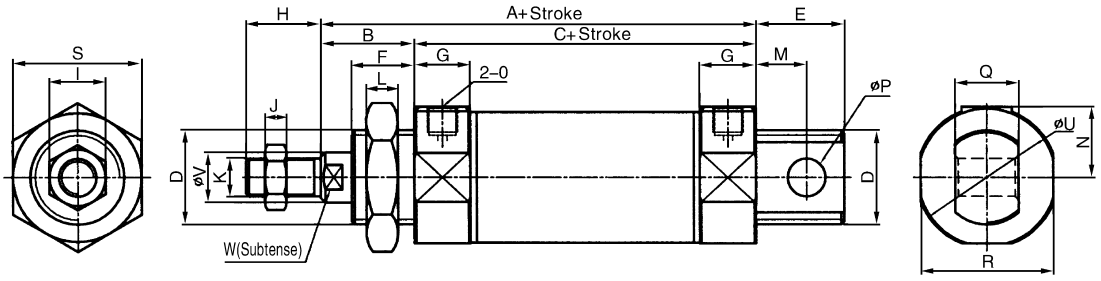
1	hexagon nut	11	O –ring
2	piston ring	12	magnet
3	compages seal	13	guard seals
4	hexagon nut	14	piston
5	oiled bearing	15	crashworthy washer
6	front cover	16	washer
7	O –ring	17	spring washer
8	tube	18	inner hexagon bolt
9	crashworthy washer	19	rear cover
10	C –ring		

Standard Dimension:

■ ϕ 12~ ϕ 20

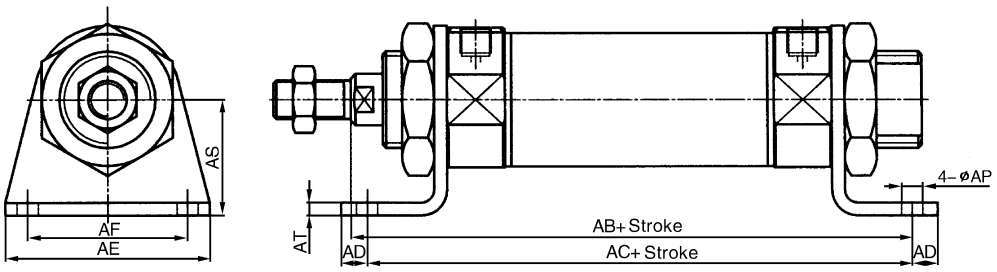


■ ϕ 25~ ϕ 40



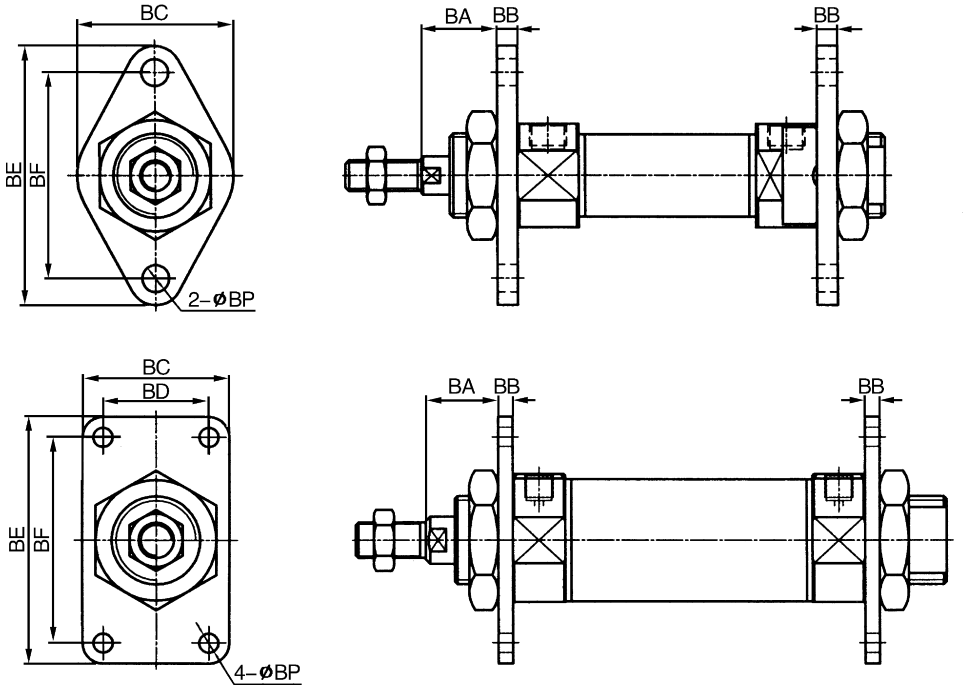
bore/stroke	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	U	V	W	X
12	72	22	50	M16 × 1.5	16	17	11.5	16	10	4	M6	6	5	–	M5	6	12	19	22	21	6	–	23
16	79	22	57	M16 × 1.5	16	17	12	16	10	4	M6	6	5	–	M5	6	12	19	22	21	6	–	23
20	92	24	68	M22 × 1.5	18	18	16	20	13	5	M8	8	3	15	G1/8”	8	16	27	27	30	8	7	27
25	96	27	68	M22 × 1.5	20	20	16	22	17	6	M10 × 1.25	8	8	15	G1/8”	8	16	27	27	30	10	9	–
32	106	30	76	M24 × 1.5	24	20	18	22	17	6	M10 × 1.25	10	14	19	G1/8”	10	16	35	32	38	12	10	–
40	114	30	84	M30 × 1.5	28	20	18	24	19	7	M12 × 1.25	10	16	22.4	G1/8”	12	20	42	41	45	16	14	–

Foot bracket(LB)



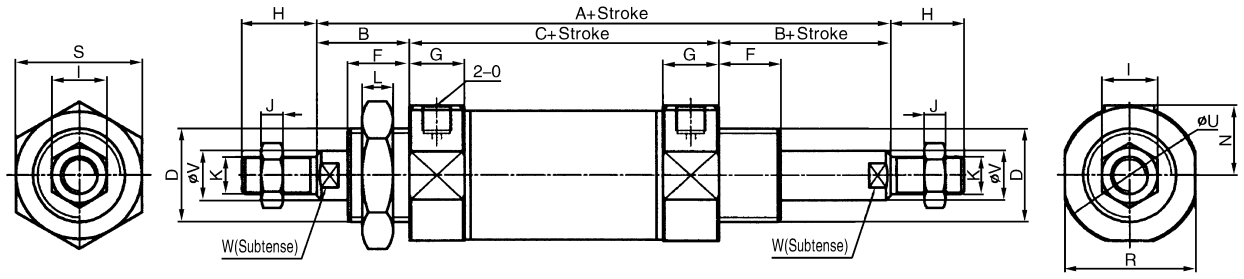
bore/stroke	AB	AC	AD	AE	AF	AP	AS	AT
12	85	76	6	43	32	5.5	20	3
16	91.5	82	6	43	32	5.5	20	3
20	108	100	7.5	53	40	6.6	25	3
25	112	100	7.5	53	40	6.6	25	3
32	130	124	8	59	45	6.6	32	4
40	139	124	8	64	50	6.6	36	4

Front flange(FA)
Rear flange (FB)



bore/stroke	BA	BB	BC	BD	BE	BF	BP
12	19	3	28	–	51	40	5.5
16	19	3	28	–	51	40	5.5
20	19	5	38	–	63	50	6.6
25	23	5	38	–	63	50	6.6
32	25	5	47	33	72	58	6.6
40	25	5	50	36	84	70	6.6

Double shaft (MSD)



bore/stroke	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	R	S	U	V	W
12	94	22	50	M16 x 1.5	16	17	11.5	16	10	4	M6	6	5	–	M5	6	19	22	21	6	–
16	101	22	57	M16 x 1.5	16	17	12	16	10	4	M6	6	5	–	M5	6	19	22	21	6	–
20	116	24	68	M22 x 1.5	18	18	16	20	13	5	M8	8	3	15	G1/8"	8	27	27	30	8	7
25	124	27	68	M22 x 1.5	20	20	16	22	17	6	M10 x 1.25	8	8	15	G1/8"	8	27	27	30	10	9
32	136	30	76	M24 x 1.5	24	20	18	22	17	6	M10 x 1.25	10	14	19	G1/8"	10	35	32	38	12	10
40	144	30	84	M30 x 1.5	28	20	18	24	19	7	M12 x 1.25	10	16	22.4	G1/8"	12	42	41	45	16	14

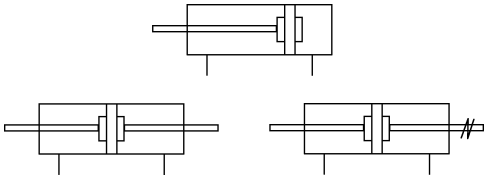
Aluminum Mini Cylinder

Character:

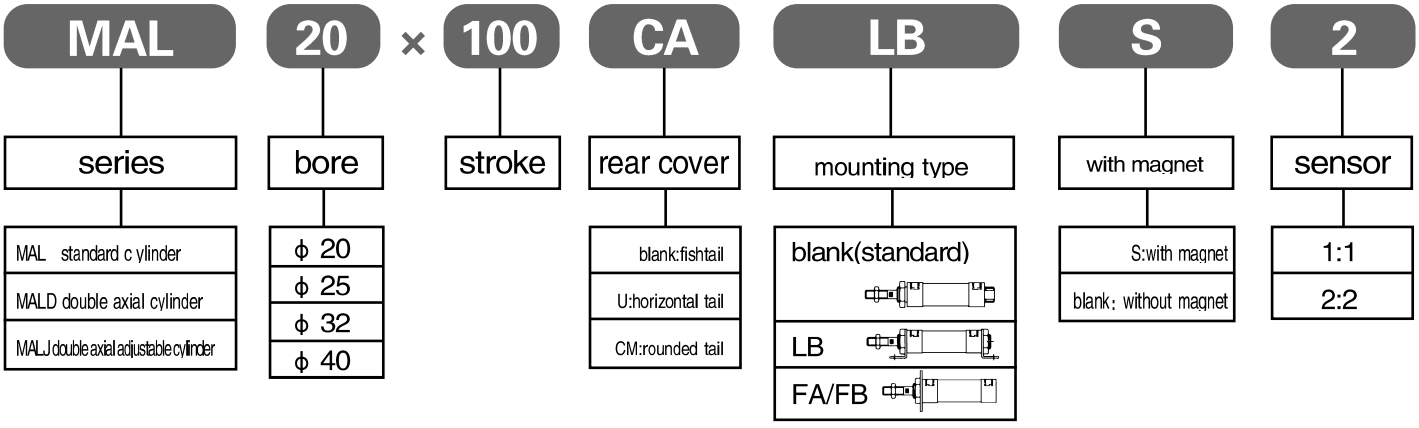
- Adopt imported aluminum alloy tube,light,precise,friction & corrosion endurable.
- Use imported non–lubrication oil seal,fits for high speed movement.
- Has aluminum alloy covers,CNC machined,surface anodized , better anti–corrosion.
- Has non–lubrication bearing,no maintenance for long time working with long life than usual one.
- Magnet in piston,whole series can be attached with sensor switch

Specification:

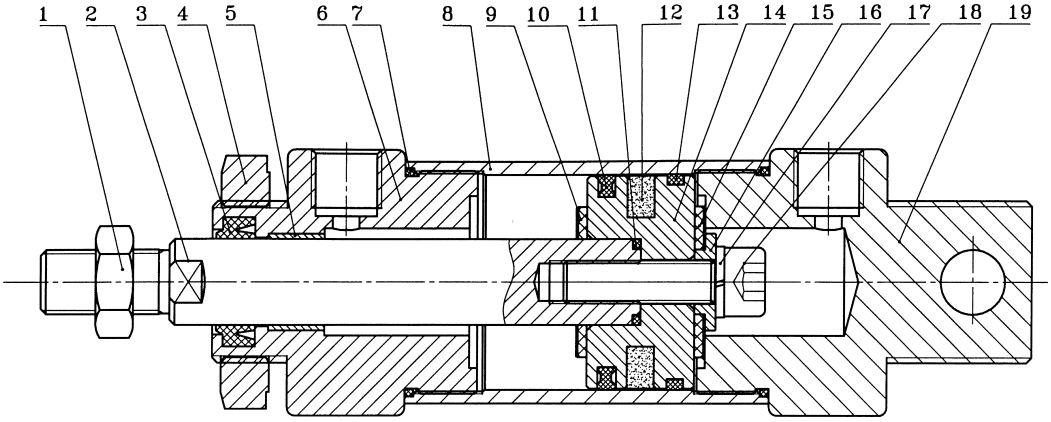
Mode	20	25	32	40
Motion	Double acting			
Series	MAL,MALD,MALJ			
Fluid	Compressed Air			
Operating pressure range(Mpa)	0.1~1			
Operating speed(mm/sec)	50~500			
Ambienttemperature(℃)	–10~70℃			
Port size	1/8”			1/4”



How to order:



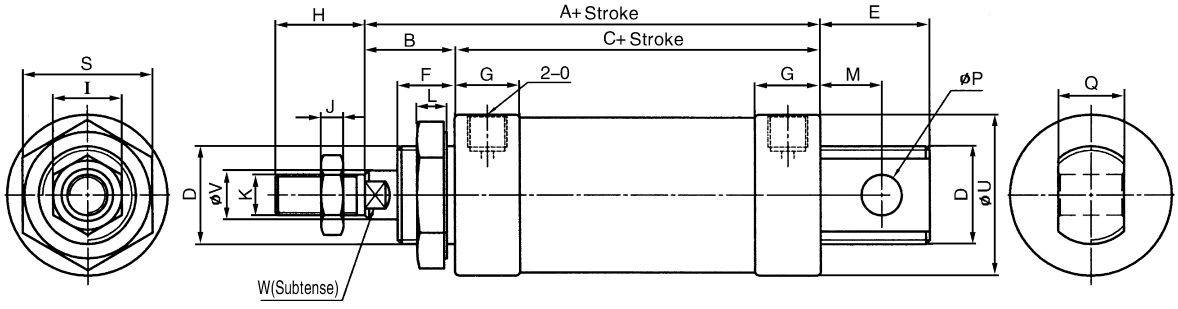
Inner structure drawing:



1	hexagon nut	6	front cover	11	O –ring	16	washer
2	piston ring	7	O –ring	12	magnet	17	spring washer
3	compages seal	8	tube	13	guard seals	18	inner hexagon bolt
4	hexagon nut	9	crashworthy washer	14	piston	19	rear cover
5	oiled bearing	10	C –ring	15	crashworthy washer		

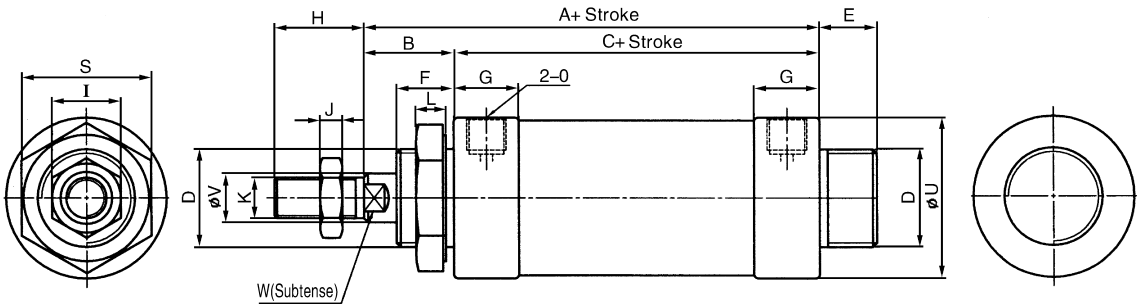
Standard Dimension:

■ Fishtail



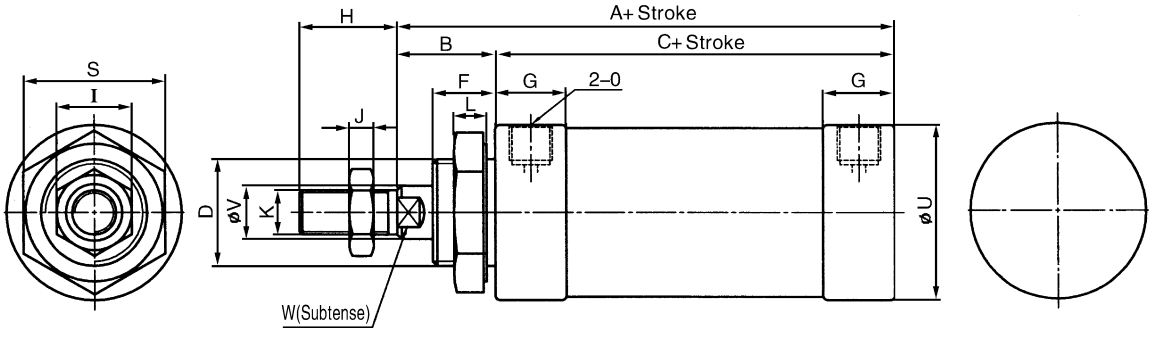
bore/stroke	A	B	C	D	E	F	G	H	I	J	K	L	M	O	P	Q	S	U	V	W
16	75.6	20	55.6	M16 x 1.5	14	12	11	17	10	5	M6	7	5	M5	6	12	24	22	6	–
20	90	20	70	M22 x 1.5	21	12	16	20	12	6	M8 x 1.25	12	3	G1/8"	8	16	29	29	8	6
25	92	22	70	M22 x 1.5	21	14	16	22	17	6	M10 x 1.25	12	8	G1/8"	8	16	34	34	10	8
32	92	22	70	M24 x 2	27	14	16	22	17	6	M10 x 1.25	15	14	G1/8"	10	16	39.5	39.5	12	10
40	114	22	92	M30 x 2	27	14	22	24	17	7	M12 x 1.25	15	16	G1/4"	12	20	49.5	49.5	16	14

Rounded



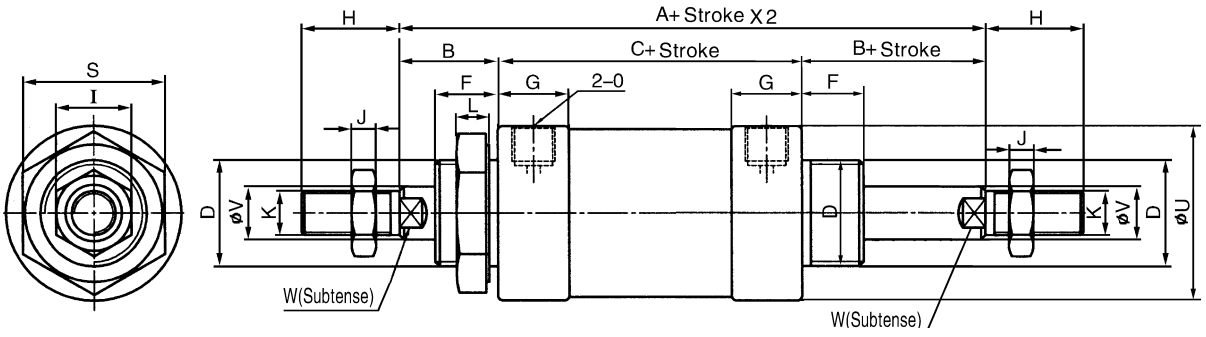
bore/stroke	A	B	C	D	E	F	G	H	I	J	K	L	O	S	U	V	W
16	75.6	20	55.6	M16 x 1.5	14	12	11	17	10	5	M6	7	M5	24	22	6	–
20	90	20	70	M22 x 1.5	21	12	16	20	12	6	M8 x 1.25	12	G1/8”	29	29	8	6
25	92	22	70	M22 x 1.5	21	14	16	22	17	6	M10 x 1.25	12	G1/8”	29	34	10	8
32	92	22	70	M24 x 2	27	14	16	22	17	6	M10 x 1.25	15	G1/8”	32	39.5	12	10
40	114	22	92	M30 x 2	27	14	22	24	17	7	M12 x 1.25	15	G1/4”	41	49.5	16	14

Horizonal



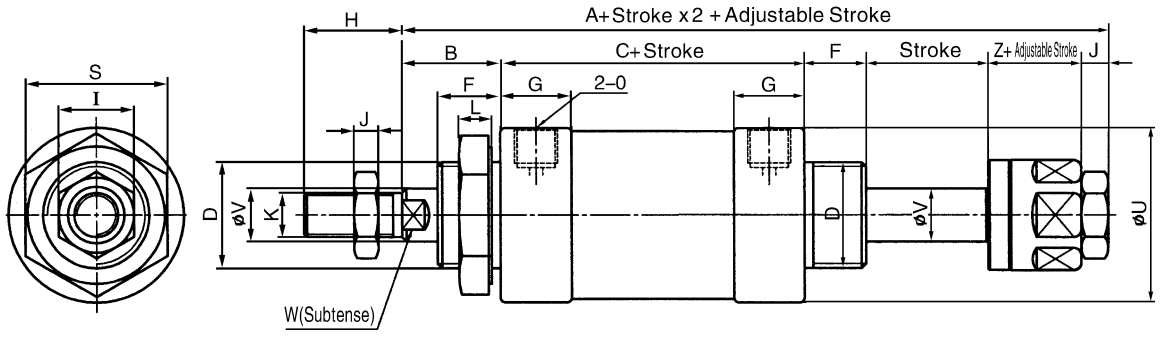
bore/stroke	A	B	C	D	F	G	H	I	J	K	L	O	S	U	V	W
16	75.6	20	55.6	M16 x 1.5	12	11	17	10	5	M6	7	M5	24	22	6	–
20	90	20	70	M22 x 1.5	12	16	20	12	6	M8 x 1.25	12	G1/8”	29	29	8	6
25	92	22	70	M22 x 1.5	14	16	22	17	6	M10 x 1.25	12	G1/8”	29	34	10	8
32	92	22	70	M24 x 2	14	16	22	17	6	M10 x 1.25	15	G1/8”	32	39.5	12	10
40	114	22	92	M30 x 2	14	22	24	17	7	M12 x 1.25	15	G1/4”	41	49.5	16	14

MALD Type



bore/stroke	A	B	C	D	F	G	H	I	J	K	L	O	S	U	V	W
16	95.6	20	55.6	M16 x 1.5	12	11	17	10	5	M6	7	M5	24	22	6	–
20	110	20	70	M22 x 1.5	12	16	20	12	6	M8 x 1.25	12	G1/8”	29	29	8	6
25	116	22	70	M22 x 1.5	14	16	22	17	6	M10 x 1.25	12	G1/8”	29	34	10	8
32	114	22	70	M24 x 2	14	16	22	17	6	M10 x 1.25	15	G1/8”	32	39.5	12	10
40	136	22	92	M30 x 2	14	22	24	17	7	M12 x 1.25	15	G1/4”	41	49.5	16	14

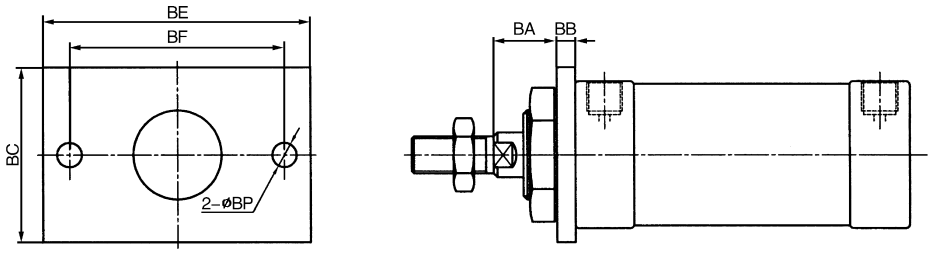
MALJ Type



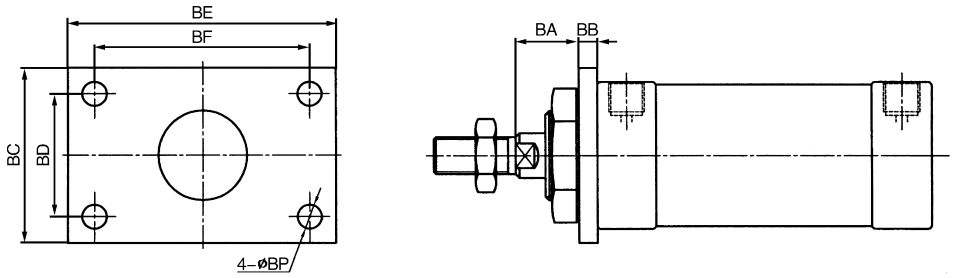
bore/stroke	A	B	C	D	F	G	H	I	J	K	L	O	S	U	V	W	Z
16	111.6	20	55.6	M16 x 1.5	12	11	17	10	5	M6	7	M5	24	22	6	–	19
20	127	20	70	M22 x 1.5	12	16	20	12	6	M8 x 1.25	12	G1/8”	29	29	8	6	19
25	133	22	70	M22 x 1.5	14	16	22	17	6	M10 x 1.25	12	G1/8”	29	34	10	8	21
32	133	22	70	M24 x 2	14	16	22	17	6	M10 x 1.25	15	G1/8”	32	39.5	12	10	21
40	156	22	92	M30 x 2	14	22	24	17	7	M12 x 1.25	15	G1/4”	41	49.5	16	14	21

FA Dimension:

■ ϕ 20~25

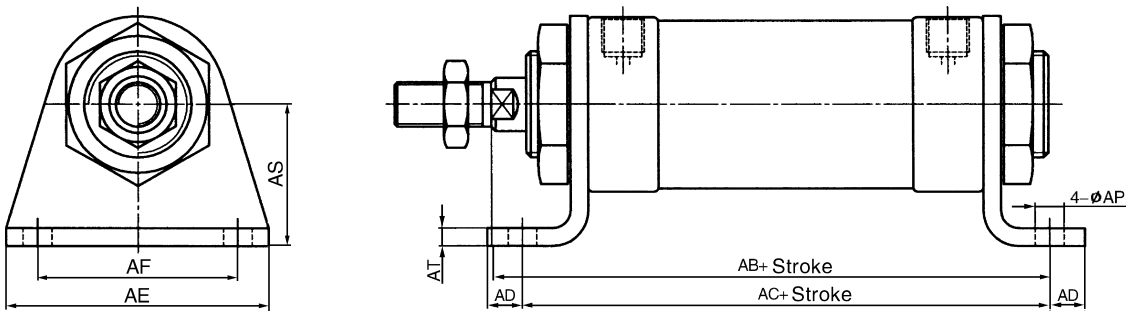


■ ϕ 32~40



bore/stroke	BA	BB	BC	BD	BE	BF	BP
20	16	4	38	–	64	50	6.5
25	18	4	38	–	64	50	6.5
32	18	4	47	33	72	58	6.5
40	18	4	50	36	84	119	6.5

LB Dimension:



bore/stroke	AB	AC	AC	AE	AF	AP	AS	AT
20	105	100	8	54	40	6.5	25	3
25	107	100	8	54	40	6.5	25	3
32	117	120	8	59	45	6.5	32	4
40	139	142	8	64	50	6.5	36	4.5

Aluminum Cylinder(Big bore)

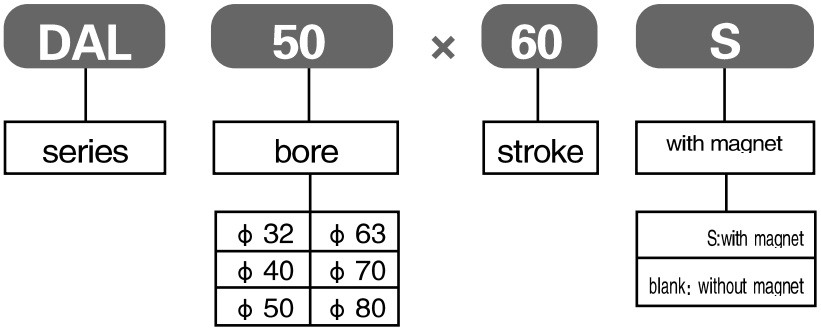
Character:

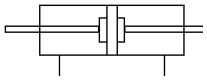
- Shorter 1/5 than ISO cylinder.
- Seal with long life ,low friction.
- Magnet in piston,whole series can be attached with sensor.

Specification:

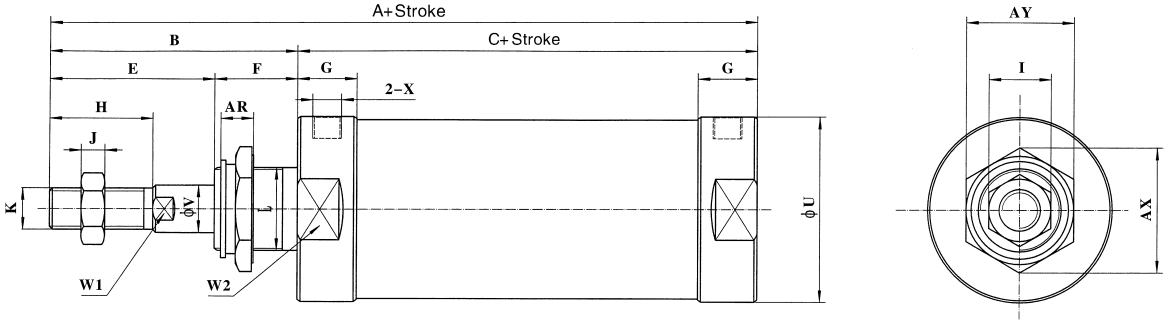
Mode	32	40	50	63	70	80
Motion	double acting					
Fluid	Compressed Air					
Operating pressure range (Mpa)	0.1~1					
Ambienttemperature(℃)	-10~70℃					
port size	1/4"					

How to order:





Dimension:



bore/stroke	A	B	C	E	F	G	H	I	J	K	V	X	W1	W2	AR	AX	AY
32	114	43	71	26	17	16	23	17	6	M10 × 1.5	12	G1/8"	10	35	7	37	32
40	127	53	74	31	22	15	22	17	6	M10 × 1.5	12	G1/8"	10	45	12	47	41
50	141	56	85	34	22	15	25	17	6	M10 × 1.5	12	G1/8"	10	52	12	53	46
63	145	63	82	38	25	16	30	22	8	M14 × 2	16	G1/8"	14	68	13	60	52
70	152	70	82	42	28	16	30	22	8	M14 × 2	16	G1/8"	14	74	13	60	52
80	185	80	105	52	28	20	35	22	8	M14 × 2	16	G1/8"	14	84	13	60	52

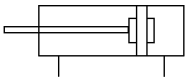
Round line Cylinder

Character:

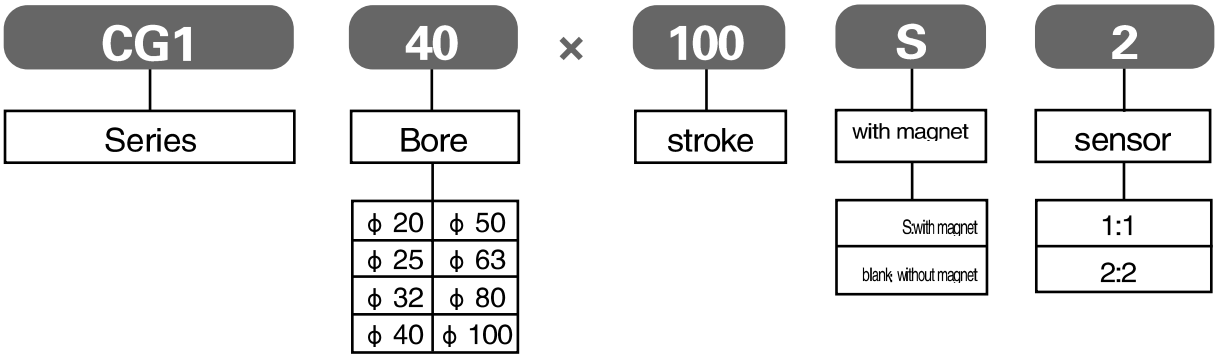
- CNC mechanically processed with high precision.Quality meet international standard.
- Adopt imported none lubrication,long time service and no need lubrication maintenance.
- Unique cushion technique makes smooth action.
- May add the sensor equipment to easily control.

Specification:

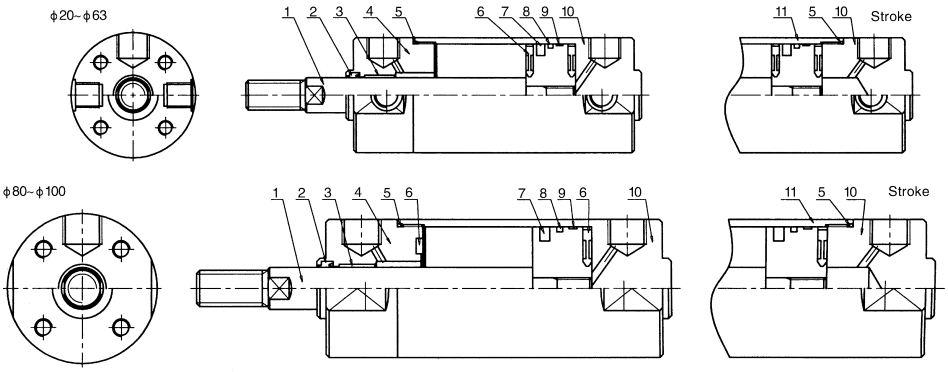
Mode	20	25	32	40	50	63	80	100
Motion	Double acting							
Series	CG1							
Fluid	Compressed Air							
Operating pressure range(Mpa)	0.05~1							
Operating speed(mm/sec)	50~1000						50~700	
Ambient temperature(℃)	-10~60							
Port size	1/8"				1/4"		3/8"	1/2"



How to order:

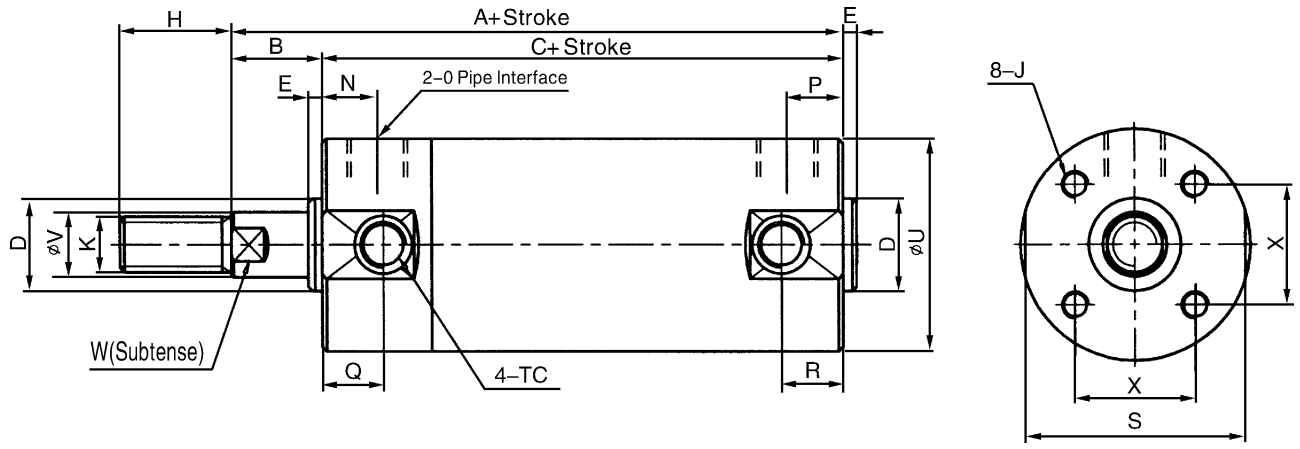


Inner structure drawing:



1	Piston rod	7	magnet
2	compages seal	8	C-ring
3	Oiled bearing	9	guard seals
4	front cover	10	rear cover
5	O-ring	11	tube
6	crashworthly washer		

Dimension:



symbol/bore	Bore(mm)	A	B	C	D	E	H	J	K	N	O	P	Q	R	S	U	V	W	X
20	~200	86	17	69	12	2	18	M4 x 0.7 deep7	M8 x 1.25	12	G1/8	12	11	11	24	26	8	6	14
25	~300	87	18	69	14	2	22	M5 x 0.8 deep7.5	M10 x 1.25	12	G/18	12	11	11	29	31	10	8	16.5
32	~300	89	18	71	18	2	22	M8 x 0.8 deep8	M10 x 1.25	12	G1/8	11	11	10	36	38	12	10	20
40	~300	98	20	78	25	2	30	M6 x 1 deep12	M14 x 1.5	13	G1/8	12	12	10	44	47	16	14	26
50	~300	113	23	90	30	2	35	M8 x 1.25 deep16	M18 x 1.5	14	G1/4	13	13	12	55	58	20	18	32
63	~300	113	23	90	32	2	35	M10 x 1.5 deep16	M18 x 1.5	14	G1/4	13	13	12	69	72	20	18	38
80	~300	139	31	108	40	3	40	M10 x 1.5 deep22	M22 x 1.5	20	G3/8	20	–	–	80	89	25	22	50
100	~300	139	31	108	50	3	40	M10 x 1.75 deep22	M22 x 1.5	20	G1/2	20	–	–	108	110	30	26	60

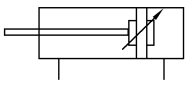
Adjustable aluminum alloy cylinder

Character:

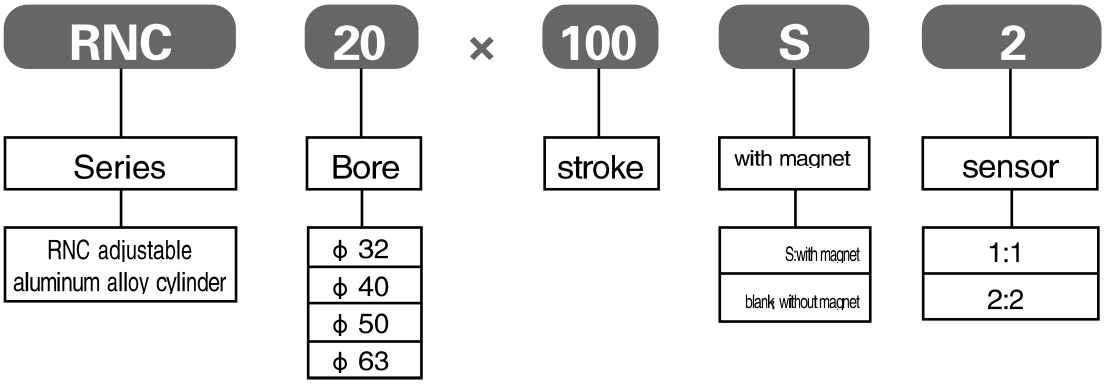
- Adjustable cushion,suitable for high speed movement.
- Front and rear caps are finished by aluminum alloy die–casting, CNC mechanically processed with high precision.Surface by anodizing,good corrosion resistance.
- Has non–lubrication bearing,no maintenace for long time work with longer life than usual one.
- Magnet in piston,whole series can be attached with sensor switch.

Specification:

Mode	32	40	50	63
Motion	Double acting			
Series	RNC			
Fluid	Compressed Air			
Operating pressure range(Mpa)	0.1~1			
Operating speed(mm/sec)	50~500			
Ambienttemperature(℃)	–10~70			
Port size	1/8"	1/4"		3/8"

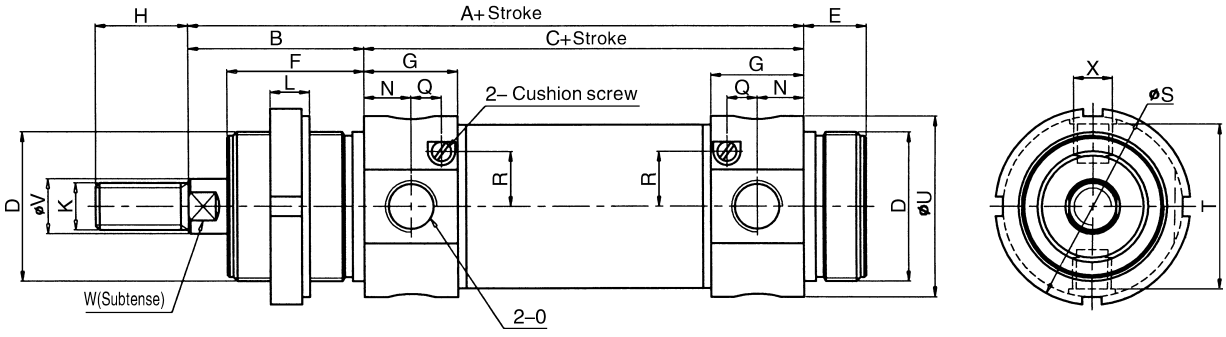


How to order:



Dimension:

■ ϕ 32~63

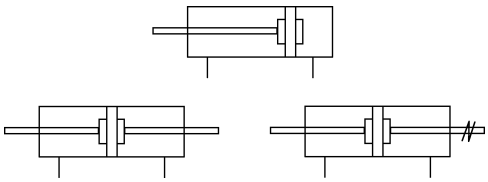


symbol/bore	A	B	C	D	E	F	G	H	K	L	N	O	Q	R	S	T	U	V	W	X
32	134	38	96	M30 × 1.5	14	30	22	20	M10	8	9	G1/8"	8	13	42	35	38	12	10	M8 × 1
40	158	45	113	M38 × 1.5	16	35	23.9	24	M12	10	12	G1/4"	7.75	14	50	42	46	14	12	M10 × 1
50	170	50	120	M45 × 1.5	18	38	23.9	32	M16	10	12	G1/4"	6.9	14	60	53	57	18	16	M12 × 1.5
63	175	51	124	M45 × 1.5	18	38	23.9	31	M16	10	13	G3/8"	4.9	18.5	60	66	70	18	16	M14 × 1.5

Thin Cylinder

Character:

- Has ultra thin designs,light weight,occupies smaller space than traditional cylinder.
- Easy maintenance and disassembly.
- Inner and outer thread design in piston ends which can adapts to all circustances.
- Non–lubrication design,may attached with sensor.



Specification:

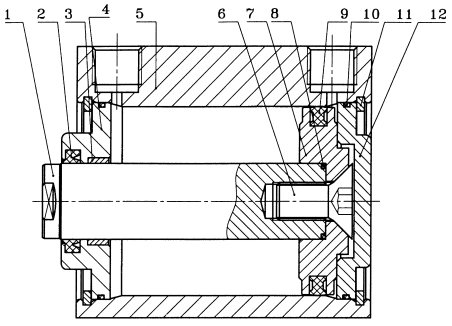
Mode	12	16	20	25	32	40	50	63	80	100
Motion	double acting									
Series	SDA, SDAD, SDAJ									
Fluid	Compressed Air									
Operating pressure range(Mpa)	0.1~0.9									
Operating speed(mm/sec)	50~500									
Ambienttemperature(℃)	–10~70℃									
Port size	M5				1/8”		1/4”		3/8”	

How to order:

SDA | **20** | × | **100** | – | **B** | **S** | **2**

series	bore		stroke	thread type	Magnet	sensor
SDA:Standard cylinder	ϕ 12	ϕ 40		blank:inner	S:with magnet	1:1
SDAD:Double axial cylinder	ϕ 16	ϕ 50		B:outerthread	blank:with out magnet	2:2
SDAJ:Double adjustable axial cylinder	ϕ 20	ϕ 63		N:withoutthread		
	ϕ 25	ϕ 80				
	ϕ 32	ϕ 100				

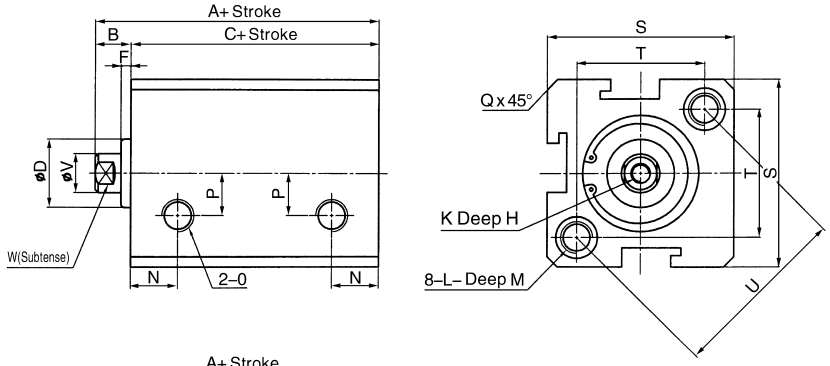
Inner structure drawing:



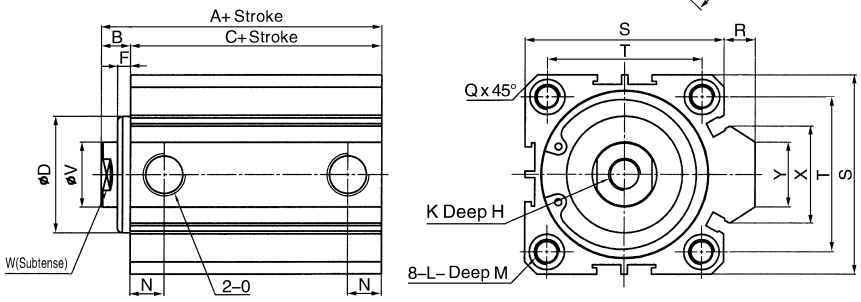
1	piston rod	7	piston
2	compages seal	8	O –ring
3	oiled bearing	9	C –ring
4	front cover	10	O –ring
5	tube	11	springiness washer
6	inner hexagon bolt	12	rear cover

Dimension:

■ ϕ 12~16



■ ϕ 20~100

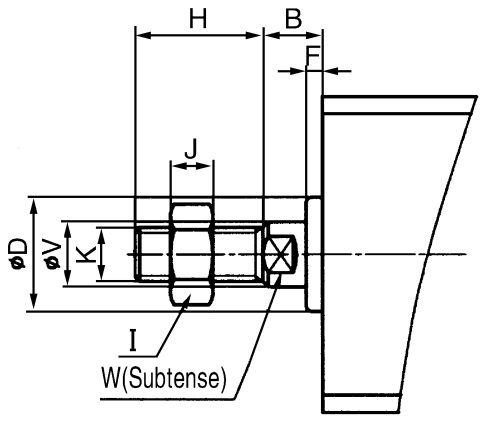


Type	standard			with magnet			D	F	H		K
symbol/bore	A	B	C	A	B	C			Stroke ⩽ 10	Stroke > 10	
12	22	5	17	32	5	27	10.2	1	6		M3
16	24	5.5	18.5	34	5.5	28.5	10.5	1.5	6		M3
20	25	5.5	19.5	35	5.5	29.5	15	1.5	8		M4
25	27	6	21	37	6	31	17	2	10		M5
32	31.5	7	24.5	41.5	7	34.5	22	3.5	12		M6
40	33	7	26	43	7	36	28	3	12		M8
50	37	9	28	47	9	38	36	5	15		M10
63	41	9	32	51	9	42	38	3.5	15		M10
80	52	11	41	62	11	51	45	4	15	20	M14 × 1.5
100	63	12	51	73	12	61	50	5	18	20	M18 × 1.5

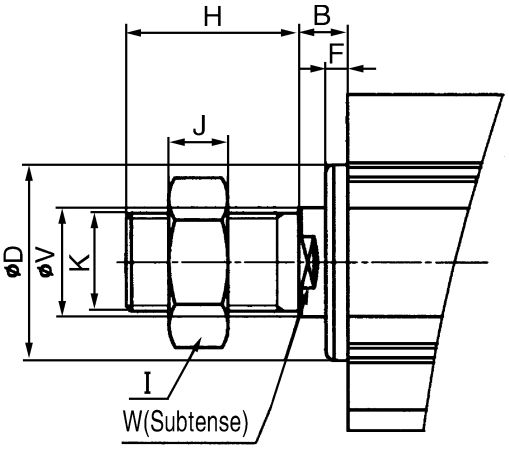
symbol/bore	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
12	M3	12	6.3	M5	6	1.6	–	25	16.2	23	6	5	–	–
16	M3	12	7.3	M5	6.5	1.6	–	29	19.8	28	6	5	–	–
20	M4	14	7.4	M5	–	2.1	2.2	34	24	–	8	6	11.3	10
25	M5	20.5	8.5	M6	–	3.1	2	40	28	–	10	8	12	10
32	M6	20.5	9	M6	–	2.1	6	43.7	34	–	12	10	18.3	15
40	M8	22.5	9.5	M8	–	2.2	6.7	52.1	40	–	16	14	21.3	16
50	M10	28.5	10.5	M8	–	4.2	9.7	61.8	48	–	20	17	30	20
63	M10	24	12	M8	–	3.2	9.7	74.6	60	–	20	17	28.7	20
80	M12	25	13	M12	–	3.6	10	94.4	74	–	25	22	36	26
100	M14	33	17	M14	–	3.6	10.1	114.4	90	–	32	27	35	26

Outer thread dimension:

■ ϕ 12~16



■ ϕ 20~100

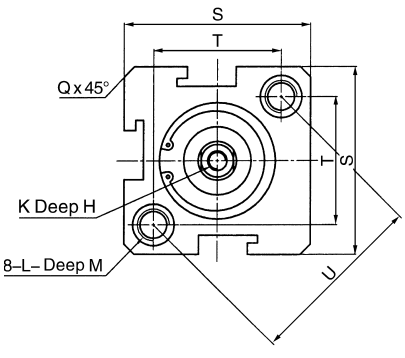


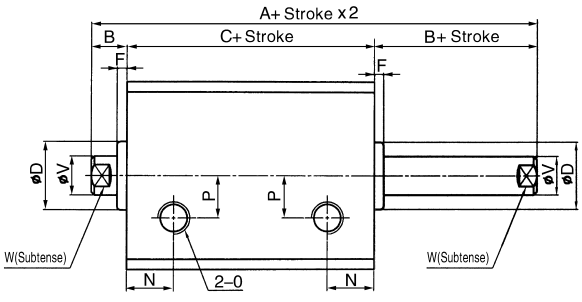
symbol/bore	B	D	F	H	I	J	K2	V	W
12	5	10.2	1	12	8	4	M5	6	5
16	5.5	10.2	1.5	12	8	4	M5	6	5
20	5/5	15	1.5	15	10	5	M6	8	6
25	6	17	2	17	12	6	M8	10	8
32	7	22	3.5	18	17	6	M10 × 1.25	12	10
40	7	28	3	28	19	8	M14 × 1.5	16	14
50	9	36	5	28	27	11	M18 × 1.5	20	17
63	9	38	3.5	28	27	11	M18 × 1.5	20	17
80	11	45	4	33	32	13	M22 × 1.5	25	22
100	12	50	5	38	36	13	M26 × 1.5	32	27

SDAD Series

Dimension:

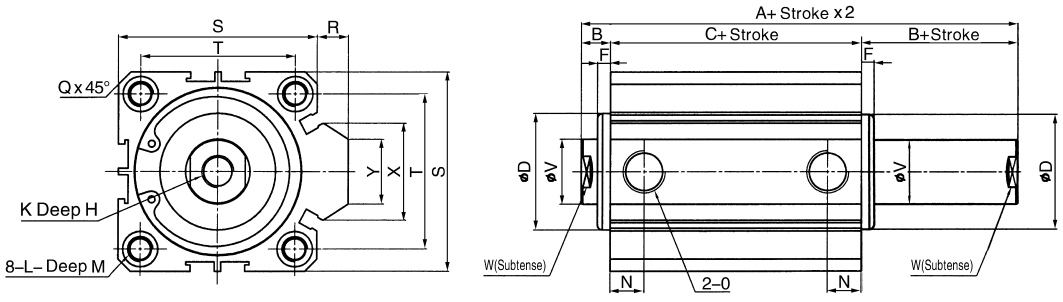
■ ϕ 12~16





Dimension:

■ ϕ 20~100



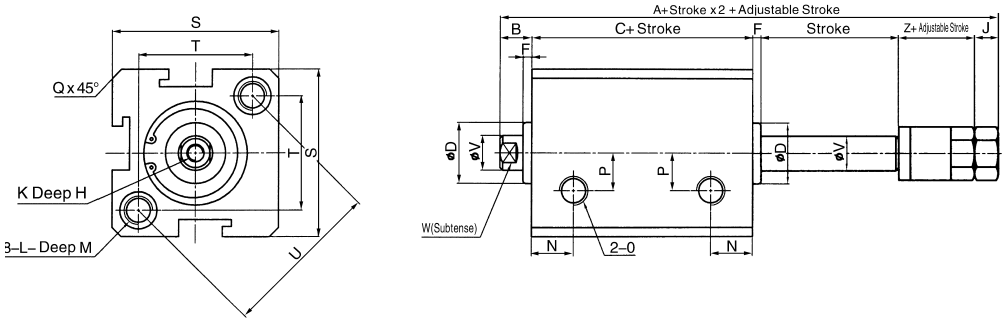
type	standard			with magnet			D	F	H		K
symbol/bore	A	B	C	A	B	C			stroke ≤ 10	stroke > 10	
12	27	5	17	37.5	5	27	10.2	1	6		M3 × 0.5
16	29.5	5.5	18.5	39.5	5.5	28.5	10.5	1.5	6		M3 × 0.5
20	30.5	5.5	19.5	40.5	5.5	29.5	15	1.5	8(stroke=5,be 6.5)		M4 × 0.7
25	33	6	21	43	6	31	17	2	10(stroke=5,be7)		M5 × 0.8
32	38.5	7	24.5	48.5	7	34.5	22	3.5	8	12	M6 × 1
40	40	7	26	50	7	36	28	3	9	12	M8 × 1.25
50	46	9	28	56	9	38	36	5	11	15	M10 × 1.25
63	50	9	32	60	9	42	38	3.5	11	15	M10 × 1.25
80	63	11	41	73	11	51	45	4	14	20	M14 × 1.5
100	75	12	51	85	12	61	50	5	18	20	M18 × 1.5

symbol/bore	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
12	M3 × 0.5	12	6.3	M5	6	1.6	–	25	16.2	23	6	5	–	–
16	M3 × 0.5	12	7.3	M5	6.5	1.6	–	29	19.8	28	6	5	–	–
20	M4 × 0.7	14	7.4	M5	–	2.1	2.2	34	24	–	8	6	11.3	10
25	M5 × 1	20.5	8.5	M5	–	3.1	2	40	28	–	10	8	12	10
32	M6 × 1	20.5	9	G1/8”	–	2.1	6	43.7	34	–	12	10	18.3	15
40	M8 × 1.25	22.5	9.5	G1/8”	–	2.2	6.7	52.1	40	–	16	14	21.3	16
50	M8 × 1.25	28.5	10.5	G1/4”	–	4.2	9.7	61.8	48	–	20	17	30	20
63	M8 × 1.25	24	12	G1/4”	–	3.2	9.7	74.6	60	–	20	17	28.7	20
80	M12 × 1.75	25	13	G3/8”	–	3.6	10	94.4	74	–	25	22	36	26
100	M14 × 2	33	17	G3/8”	–	3.6	10.1	114.4	90	–	32	27	35	26

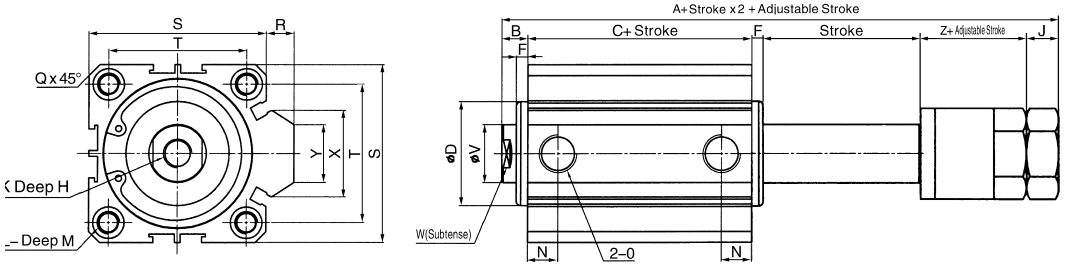
SDAJ Series

Dimension:

■ ϕ 12~16



■ ϕ 20~100



type	standard			with magnet			D	F	H		K
symbol/bore	A	B	C	A	B	C			stroke ≤ 10	stroke > 10	
12	40	5	17	50	5	27	10.2	1	6		M3 × 0.5
16	42.5	5.5	18.5	52.5	5.5	28.5	10.5	1.5	6		M3 × 0.5
20	47.5	5.5	19.5	57.5	5.5	29.5	15	1.5	8(stroke=5,be 6.5)		M4 × 0.7
25	54	6	21	64	6	31	17	2	10(stroke=5,be7)		M5 × 0.8
32	62	7	24.5	72	7	34.5	22	3.5	8	12	M6 × 1
40	65	7	26	75	7	36	28	3	9	12	M8 × 1.25
50	74	9	28	84	9	38	36	5	11	15	M10 × 1.25
63	76.5	9	32	86.5	9	42	38	3.5	11	15	M10 × 1.25
80	93	11	41	103	11	51	45	4	14	20	M14 × 1.5
100	105	12	51	115	12	61	50	5	18	20	M18 × 1.5

symbol/bore	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
12	M3 × 0.5	12	6.3	M5	6	1.6	–	25	16.2	23	6	5	–	–	13
16	M3 × 0.5	12	7.3	M5	6.5	1.6	–	29	19.8	28	6	5	–	–	13
20	M4 × 0.7	14	7.4	M5	–	2.1	2.2	34	24	–	8	6	11.3	10	16
25	M5 × 1	20.5	8.5	M5	–	3.1	2	40	28	–	10	8	12	10	19
32	M6 × 1	20.5	9	G1/8”	–	2.1	6	43.7	34	–	12	10	18.3	15	21
40	M8 × 1.25	22.5	9.5	G1/8”	–	2.2	6.7	52.1	40	–	16	14	21.3	16	21
50	M8 × 1.25	28.5	10.5	G1/4”	–	4.2	9.7	61.8	48	–	20	17	30	20	21
63	M8 × 1.25	24	12	G1/4”	–	3.2	9.7	74.6	60	–	20	17	28.7	20	21
80	M12 × 1.75	25	13	G3/8”	–	3.6	10	94.4	74	–	25	22	36	26	24
100	M14 × 2	33	17	G3/8”	–	3.6	10.1	114.4	90	–	32	27	35	26	24

Multi–position thin cylinder

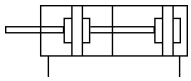
Character:

● Making the combined cylinder have multi–position.Connecting two cylinders which has the same bore,but different stroke. Pay attention to the stroke that the later acting longer than former acting,i.e.stroke2>stroke1,if special requirements,we can supply combination which have two or more cylinders ,total stroke not more than 2000mm.

attention: its pull force is similar to single cylinder.

Specification:

Mode	25	40	63	80	100
Fluid	Compressed Air				
structure character	type piston cylinder				
Operating pressure range (Mpa)	0.1~0.9				
Ambient temperature(℃)	–10~70℃				

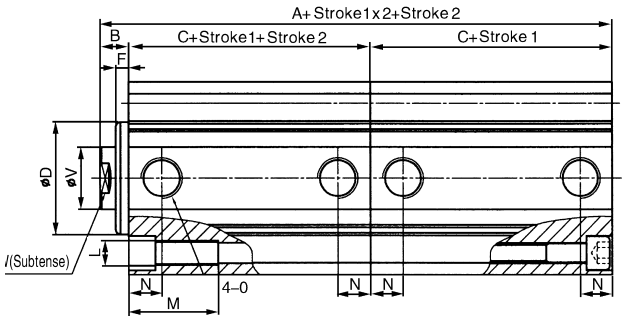


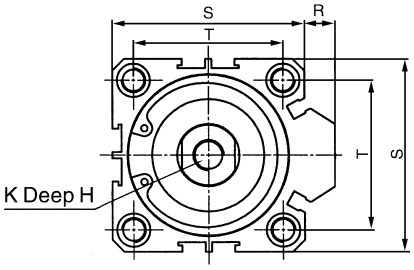
How to order:

SDAP — 40 × 50 + 60 — B — S

series	bore	stroke	stroke	thread	Magnet
	ϕ 25 / ϕ 40 / ϕ 63 / ϕ 80 / ϕ 100			blank::inner thread B:outer thread H: without thread	S:with magnet blank:without magnet

Dimension:



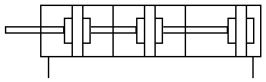


type	without magnet		with magnet		C1	D	E		F	G	K1	O	P	P1	P3	P4	S	T1	V	W
symbol/bore	A	C2	A	C2			≤ 10	> 10												
25	49	22	59	32	21	42	10		4	2	M5 × 0.8	M5 × 0.8	8.2	M6 × 1	15	5.5	40	28	10	8
40	60	27	70	37	26	59	12		4	3	M8 × 1.25	G1/8”	10	M8 × 1.25	20	7.5	52	40	16	14
63	74	33	84	43	32	84.5	15		5	4	M10 × 1.5	G1/4”	11	M8 × 1.25	25	8.5	75	60	20	17
80	94	42	104	52	41	104	15	20	6	5	M14 × 1.5	G3/8”	14	M12 × 1.75	25	10.5	94	74	25	22
100	115	52	125	62	51	124	18	20	7	5	M18 × 1.5	G3/8”	17.5	M14 × 2	30	13	114	90	32	27

Multi–pressure thin clinder

Character:

- By connecting 2,3 or 4 cylinders which have the same bore and stroke,make the push force as 2,3 or 4 times than one cylinder.
- Only need two air ports.
- Attention: Draw–in force is the same as one cylinder.



Specification:

Mode	25	40	63	80	100
Fluid	Compressed Air				
structure character	type piston cylinder				
Operating pressure range(Mpa)	0.1~1				
Ambient temperature(℃)	–10~70℃				

How to order:

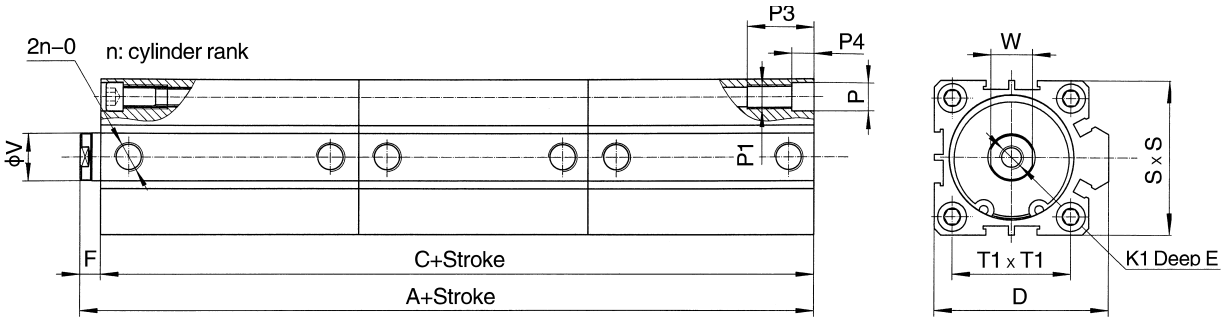
SDAT (series) **40** (bore) × **50** (stroke) – **3** (cylinder qty) – **B** (thread) – **S** (Magnet)

bore	
ϕ 25	ϕ 40
ϕ 63	ϕ 80
ϕ 100	

thread
blank::inner thread
B:outer thread
N: without thread

Magnet
S:with magnet
blank:without magnet

Dimension:



mode	without magnet		with magnet		D	E		F	K1	O	P	P1	P3	P4	S	T1	V	W
symbol/bore	A	C	A	C		⩽10	>10											
25	22n+5	22n–1	22n+15	22n+9	42	10		6	M5 × 0.8	M5 × 0.8	8.2	M6 × 1	15	5.5	40	28	10	8
40	27n+6	27n–1	27n+16	27n+9	59	12		7	M8 × 1.25	G1/8”	10	M8 × 1.25	20	7.5	52	40	16	14
63	33n+8	33n–1	33n+18	33n+9	84.5	15		9	M10 × 1.5	G1/4”	11	M8 × 1.25	25	8.5	75	60	20	17
80	42n+10	42n–1	42n+20	42n+9	104	15	20	11	M14 × 1.5	G3/8”	14	M12 × 1.75	25	10.5	94	74	25	22
100	52n+11	52n–1	52n+21	52n+9	124	18	20	12	M18 × 1.5	G3/8”	17.5	M14 × 2	30	13	114	90	32	27

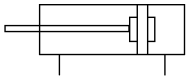
Thin Cylinder

Character:

- Has ultra thin designs,light weight,occupies smaller space than traditional cylinder.
- Easy maintenance and disassembly.
- Inner and outer thread design in piston ends which can adapts to all circustances.
- Non–lubrication design,may attached with sensor.

Specification:

Mode	12	16	20	25	32	40	50	63	80	100	125
Acting type	double acting										
Series	CQ										
Fluid	Compressed Air										
Operating pressure range(Mpa)	0.1~0.9										
Operating speed(mm/sec)	50~500										
Ambient temperature(℃)	–10~70℃										
Port size	M5				1/8”		1/4”		3/8”		

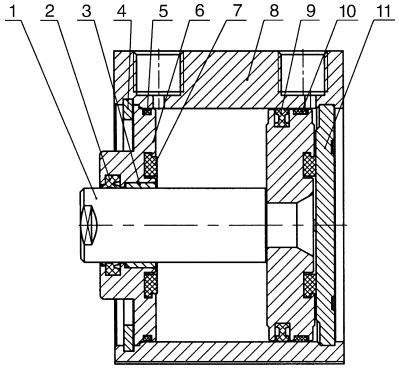


How to order:

CQ × 20 – 100 – B S 2

series	bore	stroke	thread type	Magnet	sensor
CQ Standard Cylinder	ϕ 12		blank:inner	S:with magnet	1:1
CQD Double axial Cylinder	ϕ 16		B:outerthread	blank:with out magnet	2:2
	ϕ 20		N:withoutthread		
	ϕ 25				
	ϕ 32				
	ϕ 40				
	ϕ 50				
	ϕ 63				
	ϕ 80				
	ϕ 100				
	ϕ 125				

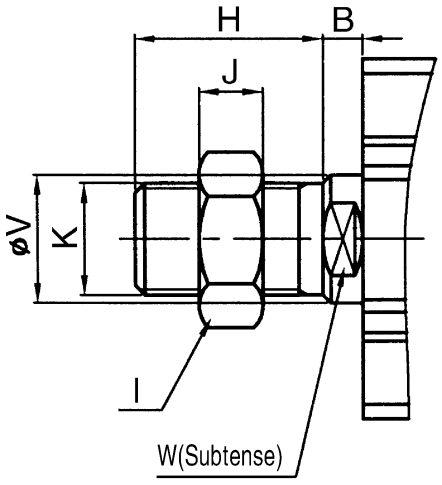
Inner structure drawing:



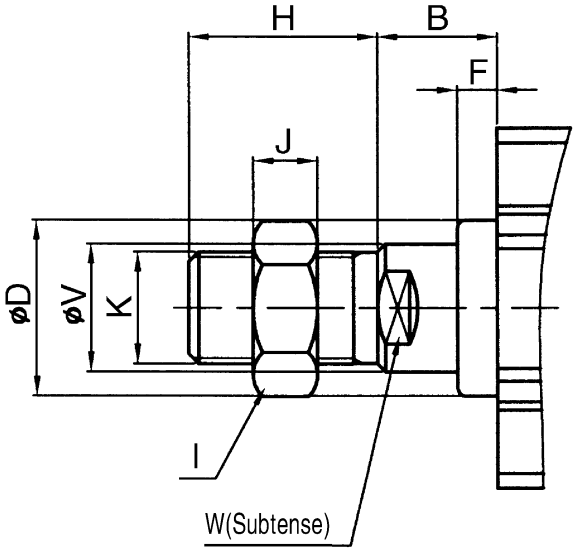
1	Piston rod	7	crashworthly washer
2	compages seal	8	tube
3	Oiled bearing	9	C–ring
4	Springiness washer	10	guard seals
5	O–ring	11	rear cover
6	front cover	12	

Outer thread dimension:

■ ϕ 12~125



■ ϕ 32~125

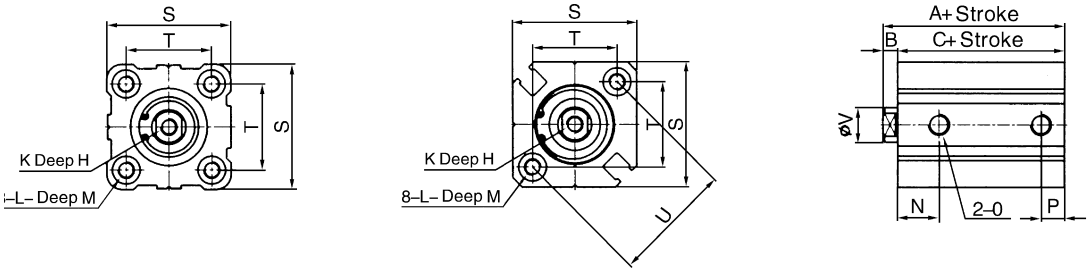


symbol/bore	B	H	I	J	K	V	W
12	3.5	10.5	8	4	M5	6	5
16	3.5	12	10	5	M6	8	6
20	4.5	14	12	6	M8	10	8
25	5	17.5	17	6	M10 × 1.25	12	10
32	5	23.5	19	8	M14 × 1.5	16	14
40	5	23.5	19	8	M14 × 1.5	16	14
50	5	28.5	27	11	M18 × 1.5	20	17
63	5	28.5	27	11	M18 × 1.5	20	17
80	8	35.5	32	13	M22 × 1.5	25	22
100	13	35.5	36	13	M26 × 1.5	32	27
125	–	45	46	14	M30 × 1.5	36	32

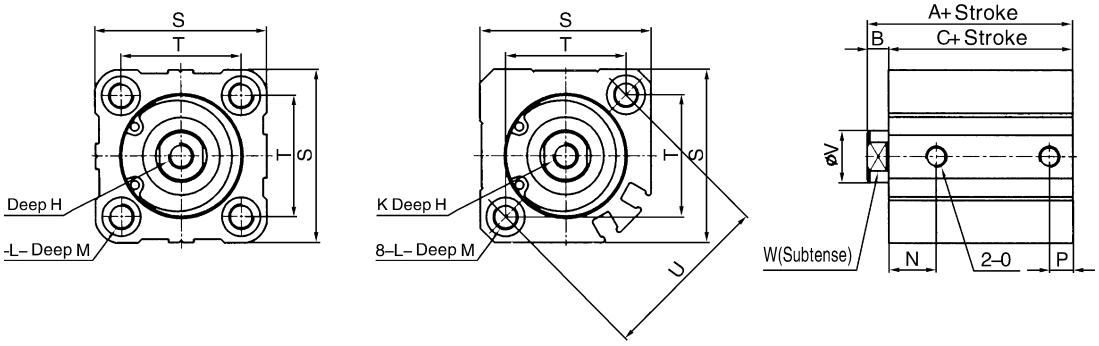
symbol/bore	B	D	F	H	I	J	K	V	W
32	15	22	5	23.5	19	8	M14 × 1.5	16	14
40	15	28	5	23.5	19	8	M14 × 1.5	16	14
50	15	35	5	28.5	27	11	M18 × 1.5	20	17
63	15	35	5	28.5	27	11	M18 × 1.5	20	17
80	18	43	5	35.5	32	13	M22 × 1.5	25	22
100	18	59	5	35.5	36	13	M26 × 1.5	32	27
125	18	63	5	45	46	14	M30 × 1.5	36	32

Standard Dimensions:

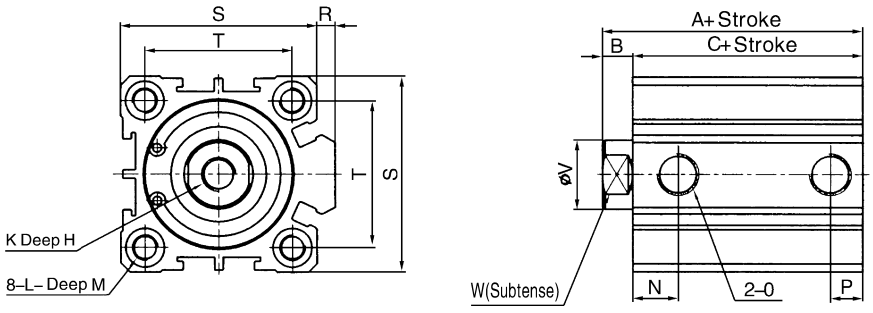
■ ϕ 12~16



■ ϕ 20~25



■ ϕ 32~125
(Stroke ⩽ 100)

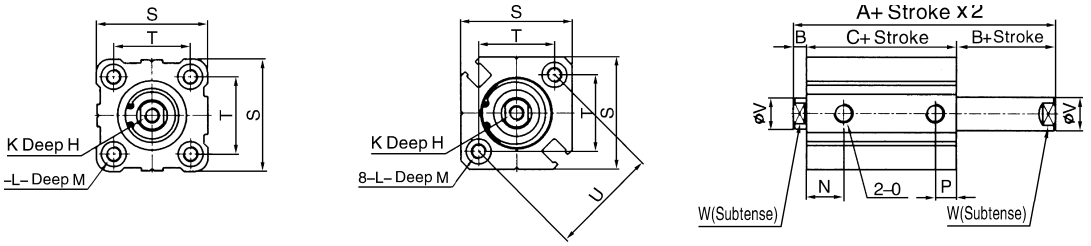


type		standard				with magnet		B	H	K	L
symbol/bore		A		C		A	C				
		stroke ⩽ 50	stroke ⩾ 60	stroke ⩽ 50	stroke ⩾ 60						
12		12	–	17	–	31.5	28	3.5	6	M3	11
16		16	–	18.5	–	34	30.5	3.5	8	M4	11
20		20	34	19.5	29.5	36	31.5	4.5	7	M5	17
25		25	37.5	22.5	32.5	37.5	32.5	5	12	M6	17
32	stroke=5 stroke>5	32	40	23	33	40	33	7	13	M8	17
40		40	46.5	29.5	39.5	46.5	39.5	7	13	M8	17
50	stroke=5 stroke>5	50	48.5	30.5	40.5	48.5	40.5	8	15	M10 × 1.5	22
63	stroke=5 stroke>5	63	54	36	46	54	46	8	15	M10 × 1.5	28
80		80	63.5	43.5	53.5	63.5	53.5	10	20	M16 × 2	35
100		100	75	53	63	75	63	12	26	M20 × 2.5	35
125		99		83		99	83	16	30	M22 × 2.5	35

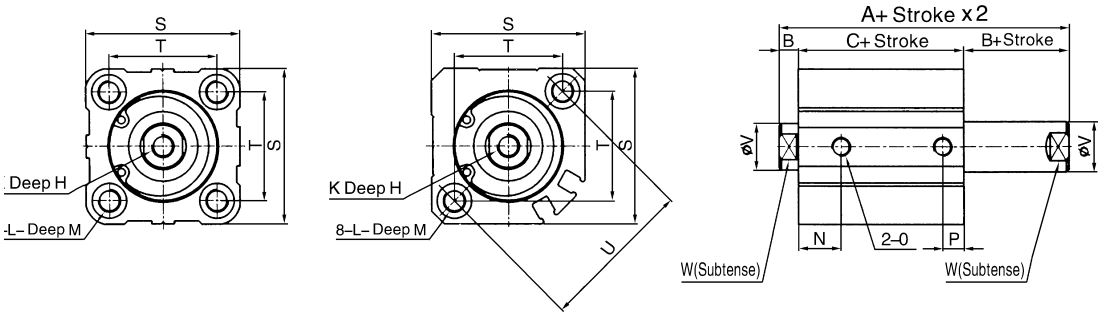
type / symbol/bore		M	N standard	N with magnet	O	P standard	P with magnet	R	S	T	U	V	W
12		11	7.5	9	12	5	7	–	25	15.5	22	6	5
16		11	8	9.5	16	5.5		–	29	20	28	8	6
20		17	9	9.5	20	5.5		–	36	25.5	36	10	8
25		17	11		25	5.5		–	40	28	40	12	10
32	Stroke=5	17	7.5	10.5	32	6.5	7.5	4.5	45	34	–	16	14
	Stroke>5		10.5			7.5							
40		17	11		40	8		4	53	40	–	16	14
50	Stroke=5	22	9	10.5	50	9	10.5	7	64	50	–	20	17
	Stroke>5		10.5			10.5							
63	Stroke=5	28	14	15	63	9.5	10.5	7	77	60	–	20	17
	Stroke>5		15			10.5							
80		35	16		80	14		6	98	77	–	25	22
100		35	20		100	17.5		6.5	117	94	–	32	27
125		35	24.5		125	24.5		11	142	114	–	36	32

CQD Dimensions:

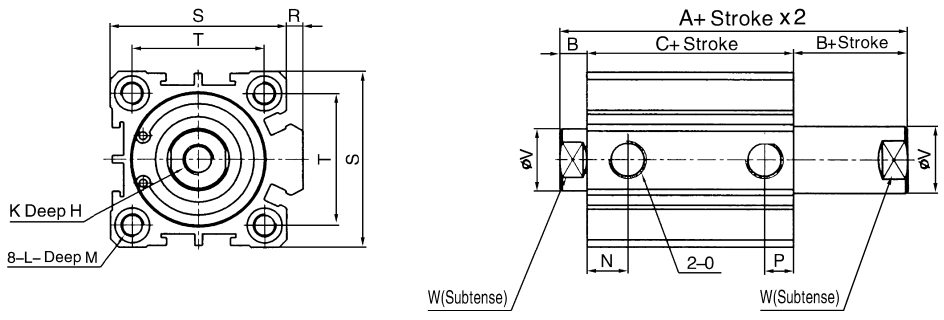
■ ϕ 12~16



■ ϕ 20~25



■ ϕ 32~125
(Stroke ⩽ 100)



type / symbol/bore		standard A	standard C	with magnet A	with magnet C	B	H	K	L
12		32.2	25.2	39.4	32.4	3.5	6	M3	M4
16		33	26	43	36	3.5	8	M4	M4
20		35	26	47	38	4.5	7	M5	M6
25		39	29	49	39	5	12	M6	M6
32		44.5	30.5	54.5	40.5	7	13	M8	M6
40		54	40	64	50	7	13	M8	M6
50		56.5	40.5	66.5	50.5	8	15	M10	M8
63	Stroke=5	58	42	68	52	8	12	M10	M10
	Stroke ≤ 10								
	Other						15		
80	Stroke ≤ 15	71	51	81	61	10	14	M16	M12
	Other						20		
100	Stroke ≤ 15	84.5	60.5	94.5	60.5	12	18	M20	M12
	Other						26		
125	Stroke ≤ 15	115		115		16	22.5	M22	M14
	Other						30		

type / symbol/bore		N	O	R	S	T	U	V	W
12		3.5	M5	–	25	15.5	6	6	5
16		3.5	M5	–	29	20	8	8	6
20		4.5	M5	–	36	25.5	7	10	7
25		5	M5	–	40	28	12	12	10
32		7	G1/8”	4.5	45	34	13	16	14
40		7	G1/8”	4	53	40	13	16	14
50		8	G1/4”	7	64	50	15	20	17
63	Stroke=5	12	G1/4”	7	77	60	–	20	17
	Stroke ≤ 10	16							
	Other								
80	Stroke ≤ 15	16	G3/8”	6	98	77	–	25	22
	Other								
100	Stroke ≤ 15	21	G3/8”	6.5	117	94	–	32	27
	Other								
125	Stroke ≤ 15	24.5	G3/8”	11	142	114	–	36	32
	Other								

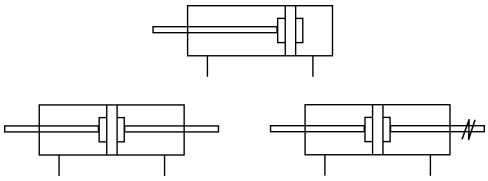
Compact Cylinder

Character:

- Has ultra thin designs,light weight,occupies smaller space than traditional cylinder.
- Easy maintenance and disassembly.
- Inner and outer thread design in piston ends which can adapts to all circustances.
- Non–lubrication design,may attached with sensor.

Specification:

Mode	20	25	32	40	50	63	80	100	125
Motion	double acting								
Series	ADVU,ADVUB,ADVUD,ADVUJ								
Fluid	air								
Operating pressure range(Mpa)	0.1~0.9								
Operating speed(mm/sec)	50~500								
Ambienttemperature(℃)	–10~70℃								
Port size	M5		1/8”		1/4”		3/8”		

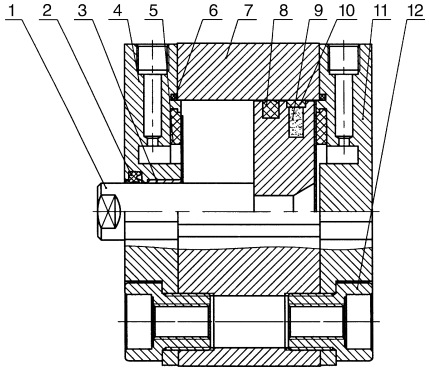


How to order:

ADVU | **50** × **40** – **B** | **S** | **2**

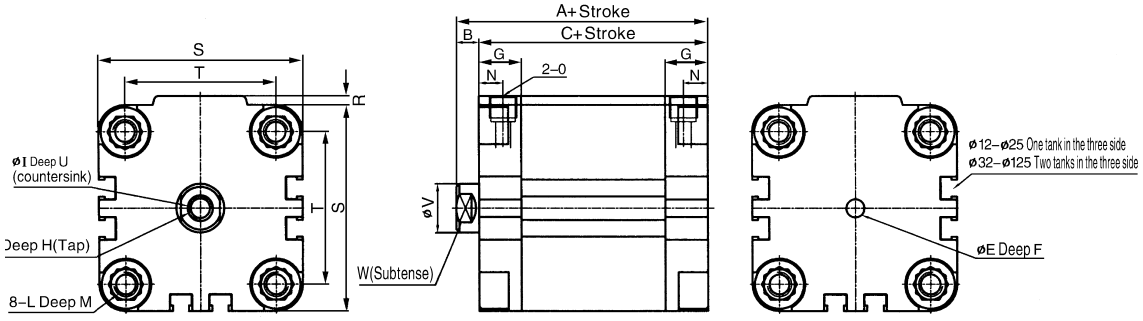
series	bore	stroke	thread type	Magnet	sensor
ADVU Standard Cylinder	ϕ 20 ϕ 63		blank:inner	S:with magnet	1:1
ADVUD Double axial Cylinder	ϕ 25 ϕ 80		B:outerthread	blank:with out magnet	2:2
ADVUJ Double adjustable axial cylinder	ϕ 32 ϕ 100		N:withoutthread		
	ϕ 40 ϕ 125				
	ϕ 50				

Inner structure drawing:



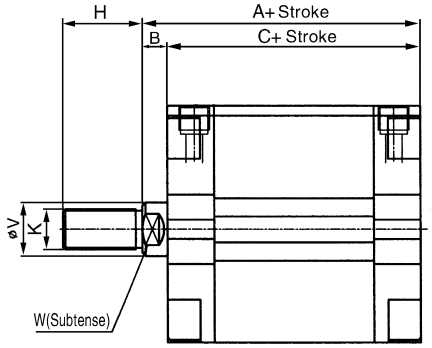
1	Piston rod	7	tube
2	compages seal	8	C–ring
3	Oiled bearing	9	Magnet ring
4	front cover	10	guard seals
5	crashworthly washer	11	rear cover
6	O–ring	12	End screw

Dimension:



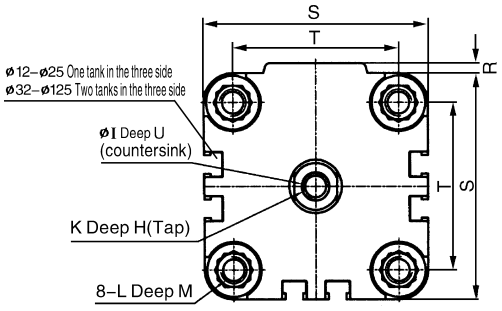
symbol/bore	A	B	C	E	F	G	H	I	K	L	M	N	O	R	S	T	U	V	W
20	42.5	4.5	38	6	4	11.5	12	5.5	M5	M5	18.5	7	M5	1.5	36	22	2	10	8
25	45	5.5	39.5	6	4	11.5	12	5.5	M5	M5	18.5	7	M5	1.5	40	25	2	10	8
32	50.5	6	44.5	6	4	14	14	6.5	M6	M6	21.5	8	G1/8”	2	50	32	2.6	12	10
40	52	6.5	45.5	6	4	14	14	6.5	M6	M6	21.5	8	G1/8”	2.5	60	42	2.6	12	10
50	53	7.5	45.5	6	4	14	16	8.5	M8	M8	22	8	G1/8”	3	68	50	3.3	16	13
63	57.5	7.5	50	8	4	15	16	8.5	M8	M10	24.5	8	G1/8”	4	87	62	3.3	16	13
80	64	8	56	8	4	16	20	10.5	M10	M10	27.5	8.5	G1/8”	4	107	82	4.7	20	17
100	76.5	10	66.5	8	4	19	24	12.5	M12	M10	32.5	10.5	G1/4”	5	128	103	6.1	25	22
125	92	11	81	8	4	20	24	12.5	M12	M10	32.5	10.5	G1/4”	–	134	110	6.1	25	22

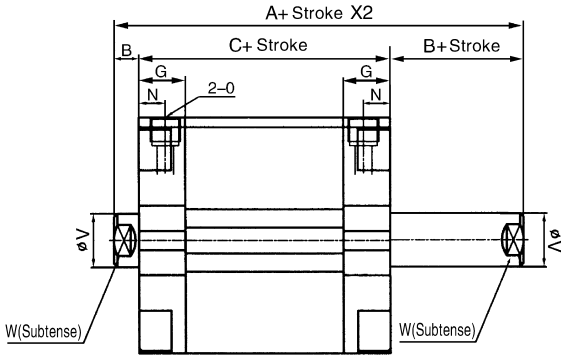
ADVUB dimension:



symbol/bore	A	B	C	H	K	V	W
20	42.5	4.5	38	22	M10 × 1.25	10	8
25	45	5.5	39.5	22	M10 × 1.25	10	8
32	50.5	6	44.5	22	M10 × 1.25	12	10
40	52	6.5	45.5	22	M10 × 1.25	12	10
50	53	7.5	45.5	24	M12 × 1.25	16	13
63	57.5	7.5	50	24	M12 × 1.25	16	13
80	64	8	56	32	M16 × 1.5	20	17
100	76.5	10	66.5	40	M20 × 1.5	25	22
125	92	11	81	40	M20 × 1.5	25	22

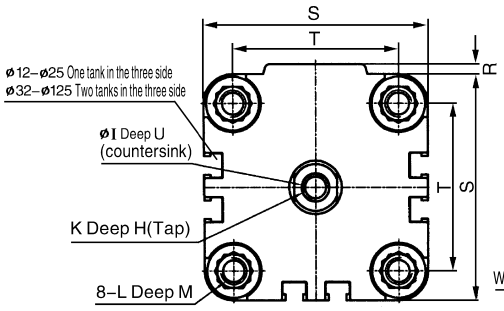
ADVUD dimension:

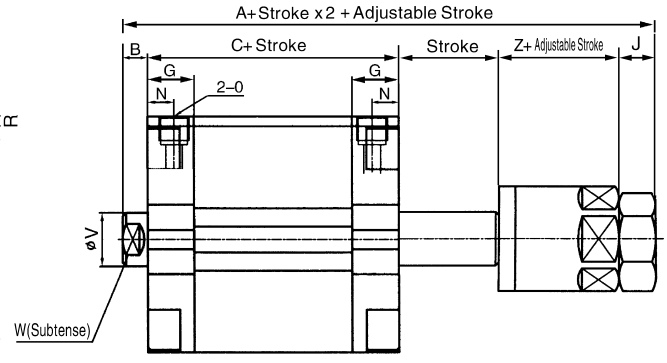




symbol/bore	A	B	C	G	H	I	K	L	M	N	O	R	S	T	U	V	W
12	47	4.5	38	11.5	8	3.3	M3	M4	18.5	7	M5	1	29	18	1.5	6	5
16	47	4.5	38	11.5	10	4.5	M4	M4	18.5	7	M5	1	29	18	1.5	8	6
20	47	4.5	38	11.5	12	5.5	M5	M5	18.5	7	M5	1.5	36	22	2	10	8
25	50.5	5.5	39.5	11.5	12	5.5	M5	M5	18.5	7	M5	1.5	40	25	2	10	8
32	56.5	6	44.5	14	14	6.5	M6	M6	21.5	8	G1/8”	2	50	32	2.6	12	10
40	58.5	6.5	45.5	14	14	6.5	M6	M6	21.5	8	G1/8”	2.5	60	42	2.6	12	10
50	60.5	7.5	45.5	14	16	8.5	M8	M8	22	8	G1/8”	3	68	50	3.3	16	13
63	65	7.5	50	15	16	8.5	M8	M10	24.5	8	G1/8”	4	87	62	3.3	16	13
80	72	8	56	16	20	10.5	M10	M10	27.5	8.5	G1/8”	4	107	82	4.7	20	17
100	86.5	10	66.5	19	24	12.5	M12	M10	32.5	10.5	G1/4”	5	128	103	6.1	25	22
125	103	11	81	20	24	12.5	M12	M10	32.5	10.5	G1/4”	–	134	110	6.1	25	22

ADVUJ dimension:





symbol/bore	A	B	C	G	H	I	K	L	M	N	O	R	S	T	U	V	W	Z
12	63.5	4.5	38	11.5	8	3.3	M3	M4	18.5	7	M5	1	29	18	1.5	6	5	16
16	67.5	4.5	38	11.5	10	4.5	M4	M4	18.5	7	M5	1	29	18	1.5	8	6	19
20	69.5	4.5	38	11.5	12	5.5	M5	M5	18.5	7	M5	1.5	36	22	2	10	8	21
25	72	5.5	39.5	11.5	12	5.5	M5	M5	18.5	7	M5	1.5	40	25	2	10	8	21
32	77.5	6	44.5	14	14	6.5	M6	M6	21.5	8	G1/8”	2	50	32	2.6	12	10	21
40	79	6.5	45.5	14	14	6.5	M6	M6	21.5	8	G1/8”	2.5	60	42	2.6	12	10	21
50	81	7.5	45.5	14	16	8.5	M8	M8	22	8	G1/8”	3	68	50	3.3	16	13	21
63	85.5	7.5	50	15	16	8.5	M8	M10	24.5	8	G1/8”	4	87	62	3.3	16	13	21
80	95	8	56	16	20	10.5	M10	M10	27.5	8.5	G1/8”	4	107	82	4.7	20	17	23
100	115.5	10	66.5	19	24	12.5	M12	M10	32.5	10.5	G1/4”	5	128	103	6.1	25	22	29
125	131	11	81	20	24	12.5	M12	M10	32.5	10.5	G1/4”	–	134	110	6.1	25	22	29

How to order:

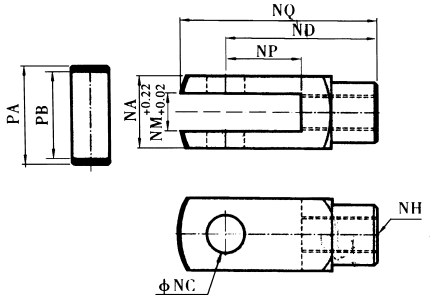
Y — **M16 × 1.5**

Joint Type — Threaded Joint

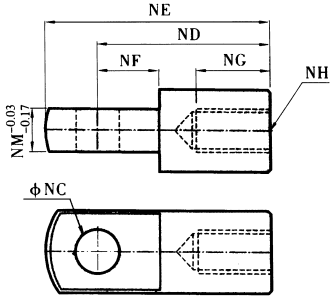
Y:Y Joint	F:Float and Joint
SG:SG Type Y Joint	U:Fish eye Joint
I : I Joint	

Joint Dimentsion:

Y Joint

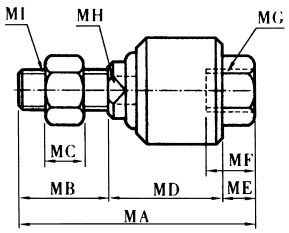


I Joint



Type	Threaded Joint(M)	NA	NC	ND	NE	NG	NM	NP	NQ	PA	PB
Y–M10 × 1.25	M10 × 1.25	19	10	40	52	20	10	20	52	26.2	20
Y–M12 × 1.25	M12 × 1.25	25.4	12	48	67	20	12	24	62	32.8	26.5
Y–M16 × 1.5	M16 × 1.5	33	16	64	89	23	16	32	83	39.3	33
Y–M16 × 1.5	M16 × 1.5	33	16	64	89	23	16	32	83	39.3	33
Y–M20 × 1.5	M20 × 1.5	44.4	20	80	112	30	20	40	105	53.3	45
Y–M20 × 1.5	M20 × 1.5	44.4	20	80	112	30	20	40	105	53.3	45
Y–M27 × 2	M27 × 2	64	20	102	119	56	32	50	119	73	67
Y–M36 × 2	M36 × 2	82	28	125	155	72	41	60	155	90	83
Y–M36 × 2	M36 × 2	82	28	125	155	72	41	60	155	90	83

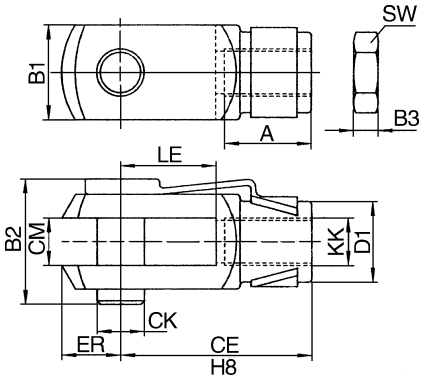
Float and Joint



Type	Threaded Joint (M)	MA	MB	MC	MD	ME	MH	MI
F–M10 × 1.25	M10 × 1.25	73	20	6	45	8	12	M10 × 1.25
F–M12 × 1.25	M12 × 1.25	77	24	7	46	7	12	M12 × 1.25
F–M16 × 1.5	M16 × 1.5	106	32	8	62	12	19	M16 × 1.5
F–M16 × 1.5	M16 × 1.5	106	32	8	62	12	19	M16 × 1.5
F–M20 × 1.5	M20 × 1.5	122	40	10	68	14	19	M20 × 1.5
F–M20 × 1.5	M20 × 1.5	122	40	10	68	14	19	M20 × 1.5
F–M27 × 2	M27 × 2	147	54	13.5	77	16	24	M27 × 2
F–M36 × 2	M36 × 2	251	72	18	161	18	36	M36 × 2
F–M36 × 2	M36 × 2	251	72	18	161	18	36	M36 × 2

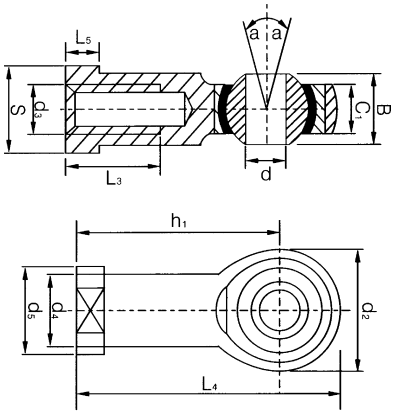
Joint Dimentsion:

SG Type Y Joint



Type	Threaded Joint(M)	A	B1	B2	B3	CE/H8	CK	CM	D1	ER	LE	SW
SG–M6	M6	12	12	16	3.2	24	6	6	6	7	12	10
SG–M8	M8	16	16	21.5	4	32	8	8	8	10	16	13
SG–M10	M10	20	20	26	5	40	10	10	10	12	20	17
SG–M10 × 1.25	M10 × 1.25	20	20	26	5	40	10	10	10	12	20	17
SG–M12	M12	24	24	31	6	48	12	12	12	14	24	19
SG–M12 × 1.25	M12 × 1.25	24	24	31	6	48	12	12	12	14	24	19
SG–M16	M16	32	32	39	8	64	16	16	16	19	32	24
SG–M16 × 1.5	M16 × 1.5	32	32	39	8	64	16	16	16	19	32	24
SG–M20	M20	24	40	53	10	60	20	20	20	24	36	30
SG–M20 × 1.5	M20 × 1.5	40	40	53	10	80	20	20	20	25	40	30
SG–M27 × 2–B	M27 × 2–B	56	55	74	13.5	110	30	30	30	38	54	41
SG–M36 × 2	M36 × 2	56	70	90.5	18	144	35	35	35	44	72	55

Fish eye Joint



Type	Threaded Joint(M)	d	d2	d5	S	B	L5	C1	h1	L3	d4	L4
U–M6 × 1	M6 × 1	6	20	13	11	9	5	6.75	30	12	10	45
U–M8 × 1.25	M8 × 1.25	8	24	16	14	12	5	9	36	16	12.5	48
U–M10 × 1.25	M10 × 1.25	10	28	19	17	14	6.5	10.5	43	20	15	57
U–M12 × 1.75	M12 × 1.75	12	32	22	19	16	6.5	12	50	22	17.5	66
U–M14 × 2	M14 × 2	14	36	25	22	19	8	13.5	57	25	20	75
U–M16 × 2	M16 × 2	16	40	27	22	21	8	15	64	28	22	84
U–M18 × 1.5	M18 × 1.5	18	46	31	27	23	10	16.5	71	32	25	94
U–M20 × 1.5	M20 × 1.5	20	50	34	30	25	10	18	77	33	27.5	102
U–M22 × 1.5	M22 × 1.5	22	54	37	32	28	12	20	84	37	30	111
U–M24 × 2	M24 × 2	25	60	42	30	31	12	22	94	42	33.5	124
U–M27 × 2	M27 × 2	28	66	46	41	35	14	26	103	41	37	136
U–M36 × 2	M36 × 2	30	70	50	41	37	15	25	110	51	40	145

Double shaft cylinder

Theroretic force output formulate:

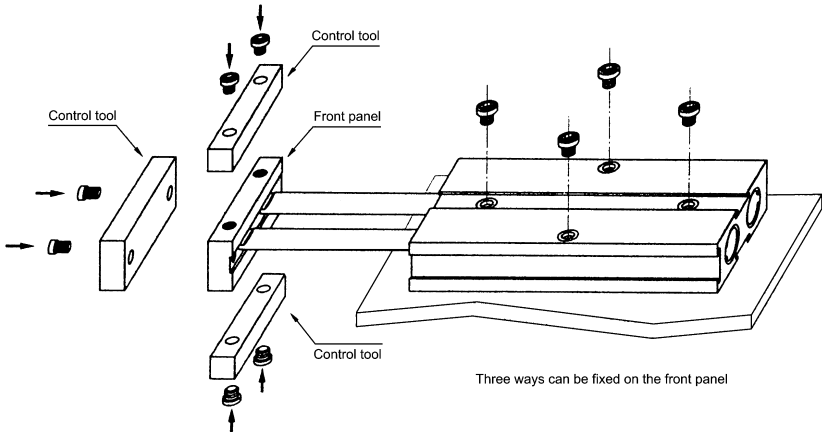
$$F = 2 \times P \times A$$

- A — Piston area pressured (cm^2)
- P — Operating pressure (Kgf/cm^2)
- F — Theroretic force output (Kgf)

Theroretic force output fig.:

boremm	piston rod dia.mm	acting type		compressed area (cm^2)	Air pressure (kgf/cm^2)						
					1	2	3	4	5	6	7
10	6	double acting	push side	1.57	–	3.14	4.70	6.28	7.84	9.42	10.98
			draw side	1.00	–	2.00	3.00	4.00	5.00	6.00	7.00
16	8	double acting	push side	4.02	4.02	8.04	12.06	16.08	20.10	24.12	28.14
			draw side	3.01	3.01	6.02	9.03	12.04	15.05	18.06	21.07
20	10	double acting	push side	6.28	6.28	12.56	18.84	25.12	31.40	37.68	43.96
			draw side	4.71	4.71	9.42	14.13	18.84	23.55	28.26	32.97
25	12	double acting	push side	9.81	9.81	19.62	29.43	39.24	49.05	58.86	68.67
			draw side	7.55	7.55	15.10	22.65	30.20	37.75	45.30	52.85
32	16	double acting	push side	16.07	16.07	32.14	48.21	64.28	80.35	96.42	112.49
			draw side	12.05	12.05	24.10	36.15	48.20	60.25	72.30	84.35

Mounting type:



Double shaft cylinder

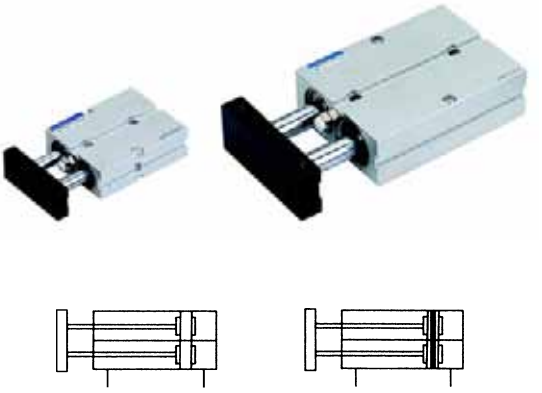
Character:

● Double piston rods make good anti–bend and torsion , warrant its life and preeminent guiding performance.

● Assemble the groove in advance,make it easier when assemble,set and adjust sensor switch.

● No need parts and save the space.

● Has simple design and easy naitenance and disassembly.



Specification:

Mode	10	16	20	25	32
Motion	double acting				
Fluid	Compressed Air				
Pressure range Kgf/cm²	0.1~0.9				
Warrant endure–pressure Kgf/cm²	1				
Ambient temperature range ℃	–5~60				
Speed range mm/s	100~500				
Stroke adjustable mm	–10~0				
Cushion type	no	cushion sheet			
Port size	M5 × 0.8				G1/8”

How to order:

TN | **20** × **50** | **S** | **2**

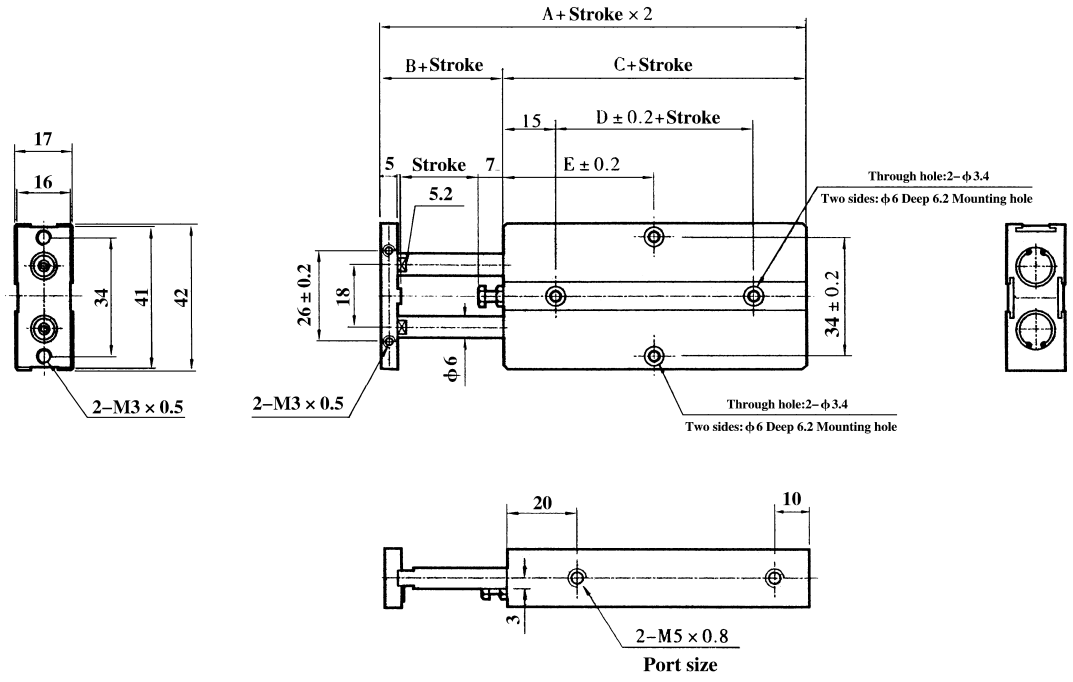
- **TN** — series: TN:Double shaft& acting
- **20** — bore: ϕ 10, ϕ 16, ϕ 20, ϕ 25, ϕ 32
- **50** — stroke
- **S** — Magnet: S:with magnet; blank:without magnet
- **2** — sensor: 1:1, 2:2

Stroke:

Bore(mm)	standard stroke												max. stroke	stroke permitted
10	10	20	30	40	50	60	70						70	100
16	10	20	30	40	50	60	70	80	90	100	125	150	150	200
20	10	20	30	40	50	60	70	80	90	100	125	150	150	200
25	10	20	30	40	50	60	70	80	90	100	125	150	150	200
32	10	20	30	40	50	60	70	80	90	100	125	150	150	200

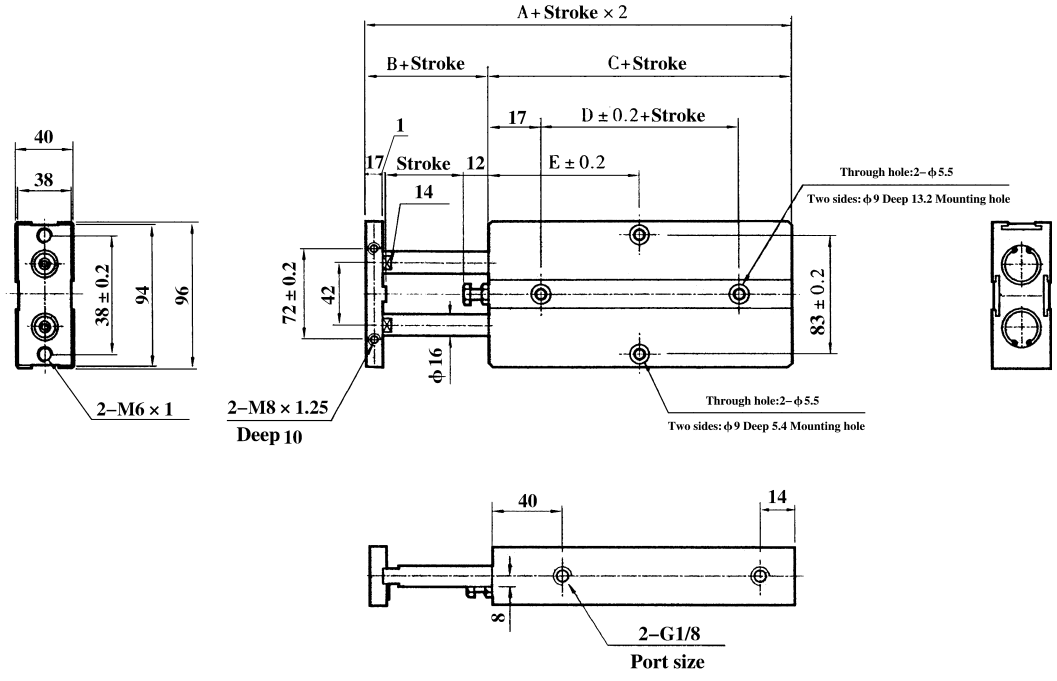
Dimension:

■ ϕ 10



symbol / bore/symbol	A	B	C	D	E						
					10	20	30	40	50	60	70
10	58	12	46	10	30	30	35	40	45	50	55

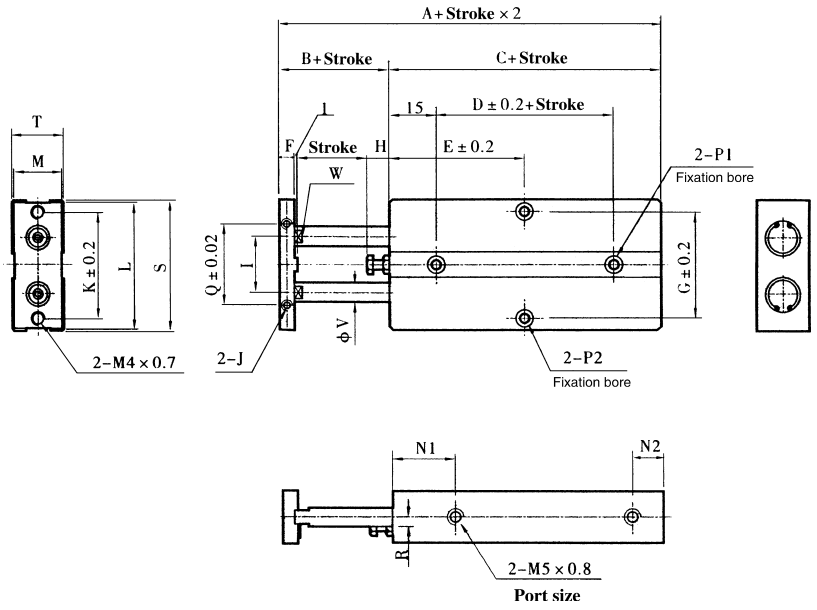
■ ϕ 10



symbol / bore/symbol	A	B	C	D	E											
					10	20	30	40	50	60	70	80	90	100	125	150
32	108	30	78	35	45	50	55	60	65	70	75	80	85	90	102.5	115

Dimension:

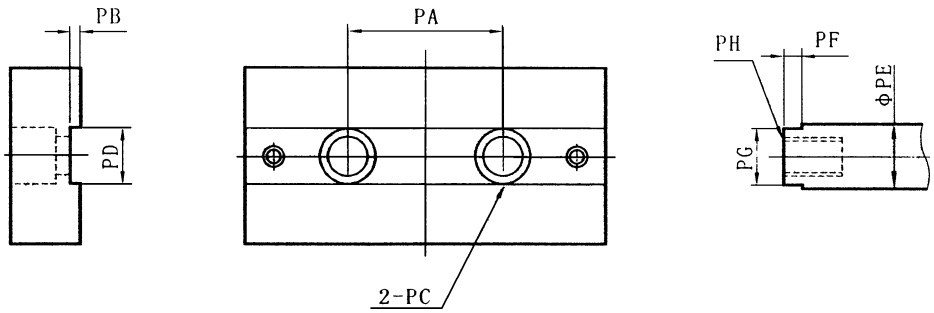
■ ϕ 10~ ϕ 25



symbol / bore/symbol	A	B	C	D	E												F	G	H	I
					10	20	30	40	50	60	70	80	90	100	125	150				
16	68	15	53	20	30	35	40	45	50	55	60	65	70	75	87.5	100	8	47	6	24
20	78	20	58	20	35	35	40	45	50	55	60	65	70	75	87.5	100	10	55	9	28
25	81	19	62	30	40	40	45	50	55	60	65	70	75	80	92.5	105	10	66	8	34

symbol	J	K	L	M	N1	N2	P1	P1	Q	R	S	T	V	W
16	M4 x 0.7 depth 5	47	53	20	22	10	Double: ϕ 7.5 depth 7.2mm, Clearance: ϕ 4.5	Double: ϕ 8 depth 4.4mm, Clearance: ϕ 4.5	34	4	54	21	8	6.2
20	M4 x 0.7 depth 5	55	61	24	25	12	Double: ϕ 7.5 depth 7.2mm, Clearance: ϕ 4.5	Double: ϕ 8 depth 4.4mm, Clearance: ϕ 4.5	44	6	62	25	10	8.2
25	M4 x 0.8 depth 6	66	72	29	30	12	Double: ϕ 7.5 depth 7.2mm, Clearance: ϕ 4.5	Double: ϕ 8 depth 4.4mm, Clearance: ϕ 4.5	56	7	73	30	12	10.2

Front board dimension:



symbol/bore	PA	PB	PC	PD	PE	PF	PG	PH
10	18	0.5	ϕ 6.2 depth 3.5mm, Clearance: ϕ 4.5	5.2	6	3	5.2	M3 × 0.5 depth 5mm
16	24	1	ϕ 7.8 depth 4.6mm, Clearance: ϕ 4.5	6.2	8	3	6.2	M4 × 0.7 depth 6mm
20	28	1	ϕ 11 depth 6.8mm, Clearance: ϕ 4.5	8.2	10	3	8.2	M6 × 1 depth 8mm
25	34	1	ϕ 11 depth 6.8mm, Clearance: ϕ 4.5	10.2	12	3	10.2	M6 × 1 depth 8mm
32	42	2	ϕ 17 depth 12mm, Clearance: ϕ 4.5	14	16	3	14	M10 × 1.5 depth 14mm

Oriented Equipment of Standard Cylinder

Character:

- Oriented equipment can avoid piston rod rotating and can afford higher loaden torque.
- Oriented equipments show high precision guide on workpiece transmission and another applications.
- Two guiding forms: rolling bearings and sliding bearings.
- There's an installing port with multiplicate direction for multiplicate– directed install.
- Oriented equipment can be connected with ISO6432 cylinder or ISO6431 cylidner when using.

How to order:

GDS

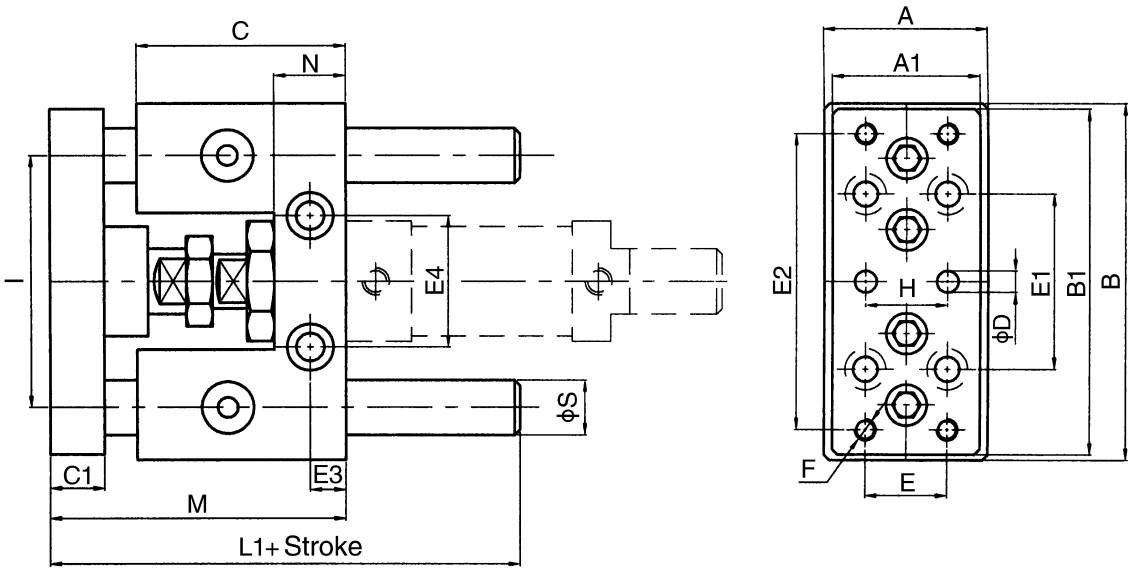
Series
GDS
GDH
GDM

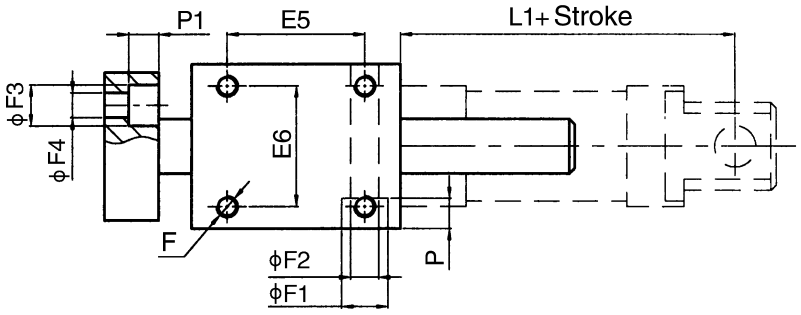
50

Bore	
12	40
16	50
20	63
25	80
32	100

GDS Dimension:

■ ϕ 12~ ϕ 16



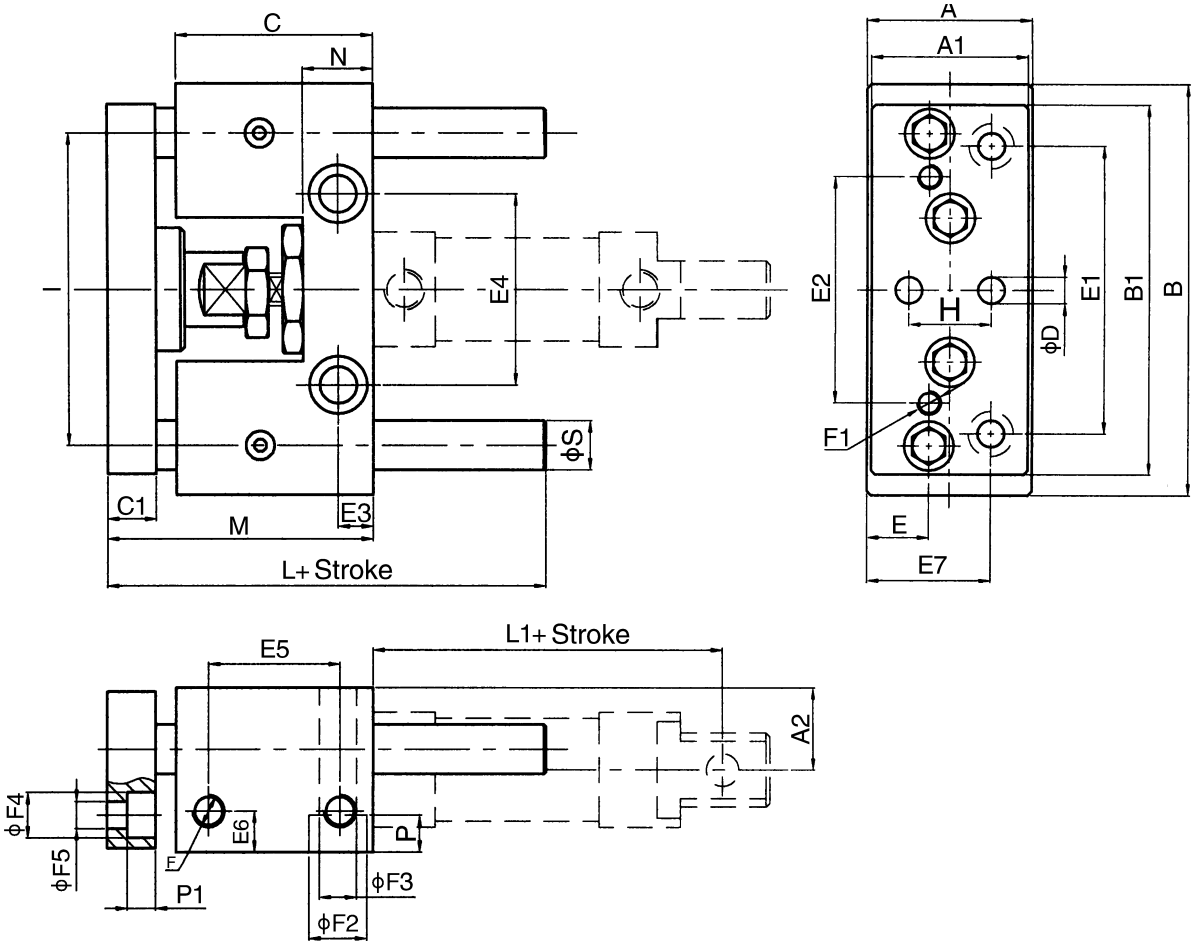


symbol/bore	A	A1	B	B1	C	C1	D	E	E1	E2	E3	E4	E5
12	30	27	65	63	38	10	4	15	32	54	6.5	24	25
16	30	27	65	63	38	10	4	15	32	54	6.5	24	25

symbol/bore	E6	F	F1	F2	F3	F4	H	I	L	L1	M	N	P	S
12	22	M4	8.5	5.1	7.5	4.5	15	46	70	53	54	13	5.5	10
16	22	M4	8.5	5.1	7.5	4.5	15	46	70	60	54	13	5.5	10

GDS Dimension:

■ ϕ 20~ ϕ 25

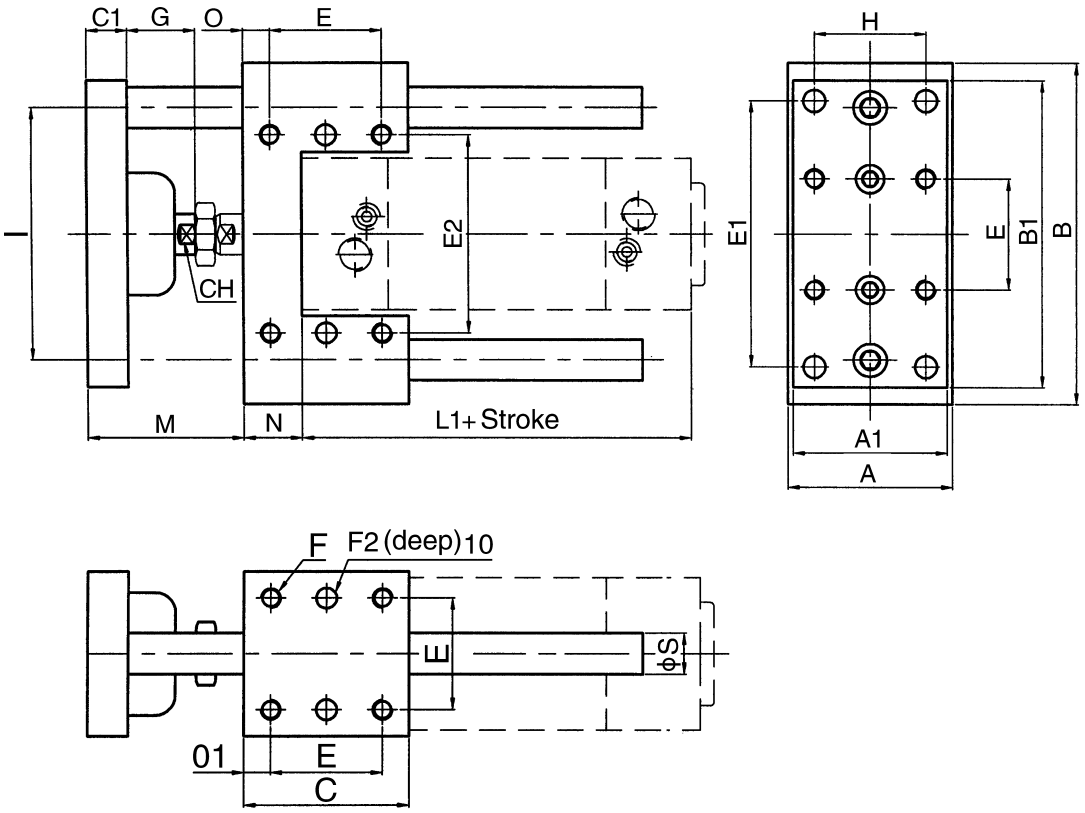


symbol/bore	A	A1	A2	B	B1	C	C1	D	E	E1	E2	E3	E4	E5	E6
20	40	38	24	100	90	48	12	6	15	70	55	8.5	46.5	32	10
25	40	38	24	100	90	48	12	6	15	70	55	8.5	46.5	32	10

symbol/bore	E7	F	F1	F2	F3	F4	F5	H	I	L	L1	M	N	P	S
20	30	M8	M6	14	9	11	6.5	20	76	77	71	65	17	9	12
25	30	M8	M6	14	9	11	6.5	20	76	77	76	71	17	9	12

GDS Dimension:

■ ϕ 32~ ϕ 100

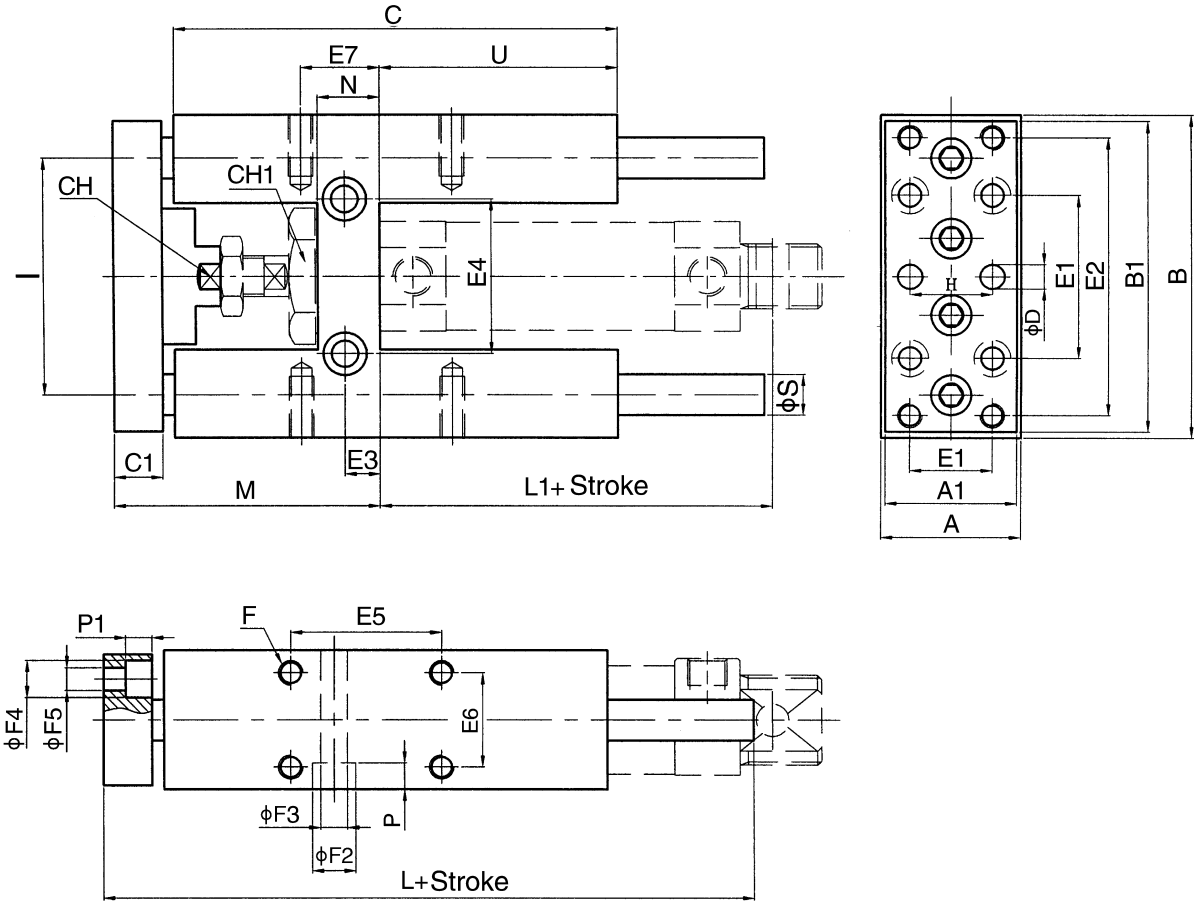


symbol/bore	A	A1	B	B1	C	C1	CH	D	E	E1	E2	F
32	48	45	100	90	48	12	12	6	32.5	78	58	M6
40	56	53	106	105	58	15	15	6	38	84	64	M6
50	66	63	125	120	59	15	16	6	46.5	100	80	M8
63	76	73	132	127	76	15	16	6	56.5	105	95	M8
80	98	95	165	160	90	16	20	6	50	130	130	M10
100	118	115	185	180	110	16	20	6	70	150	150	M10

symbol/bore	F1	F2	G	H	I	L	L1	M	N	O	O1	S
32	6.5	6	20	31	74	108	94	46	17	7.8	7.8	12
40	6.5	6	21	36	80	120	105	52	21	10	10	12
50	8.5	6	24	45	96	130	106	65	25	6.3	6.3	16
63	8.5	6	24	45	104	145	121	65	25	9.8	9.8	16
80	11	6	31	56	130	170	128	71	34	20	9	20
100	11	6	31	56	152	190	138	71	39	20	10.5	20

GDH、GDM Dimension：

■ ϕ 12~ ϕ 25

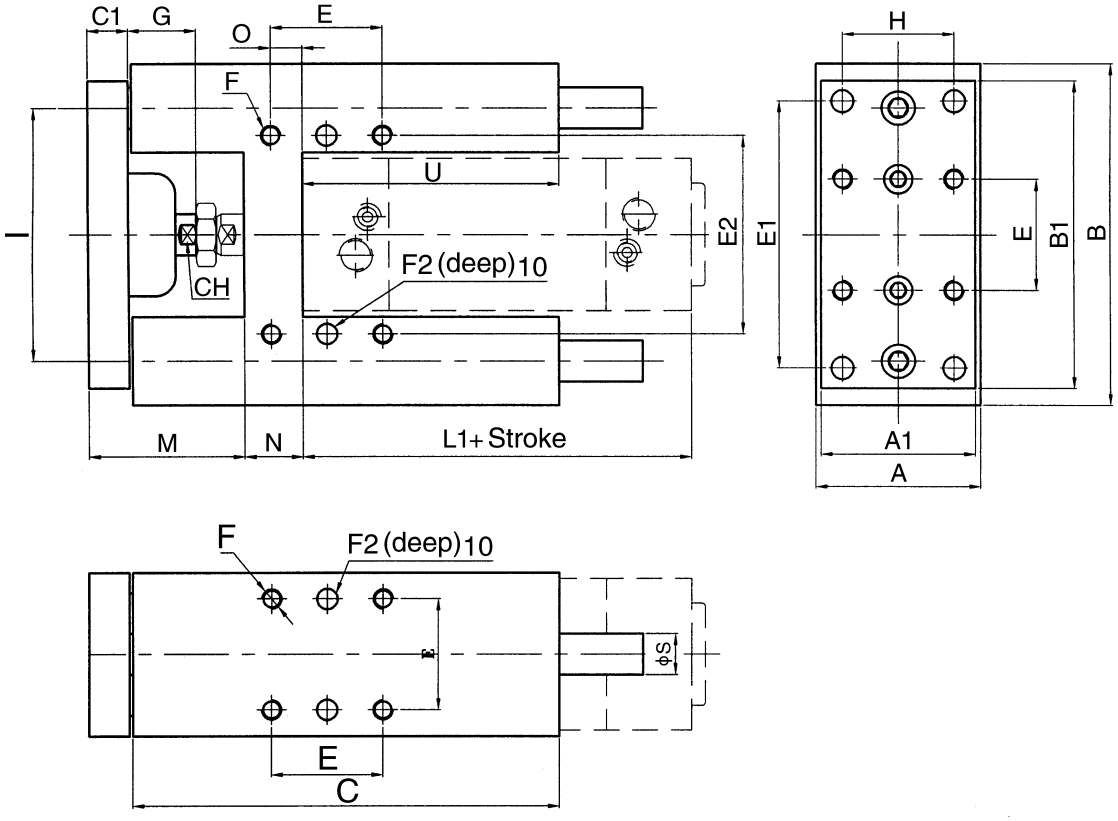


symbol/bore	A	A1	B	B1	C	C1	CH	CH1	D	E	E1	E2	E3	E4	E5	E6
12	30	27	65	63	75	10	8	19	4	15	32	54	6.5	15	24	22
16	30	27	65	63	75	10	8	19	4	15	32	54	6.5	15	24	22
20	34	32	79	76	108	12	12	27	6	20	40	68	8.5	20	38	23
25	34	32	79	76	108	12	12	27	6	20	40	68	8.5	20	38	23

symbol/bore	E7	F1	F2	F3	F4	F5	G	H	I	L	L1	M	N	P	S	U
12	M4	M4	8.5	5.1	7.5	4.5	12	15	46	130	53	51	15	5.5	8	37
16	M4	M4	8.5	5.1	7.5	4.5	12	15	46	130	60	51	15	5.5	8	37
20	M6	M5	10.5	6.5	9	5.5	22	20	58	159	71	65	15	6.5	10	58
25	M6	M5	10.5	6.5	9	5.5	17	20	58	159	76	65	15	6.5	10	58

GDH、GDM Dimension:

■ ϕ 32~ ϕ 100



symbol/bore	A	A1	B	B1	C	C1	D	E	E1	E2	F	F1
32	49	45	97	90	125	12	6	32.5	78	61	M6	6.5
40	58	54	115	110	139	15	6	38	84	69	M6	6.5
50	69	63	137	130	148	15	6	46.5	100	85	M8	8.5
63	85	79	152	145	182	15	6	56.5	105	100	M8	8.5
80	105	99	189	180	215	20	6	72	130	130	M10	11
100	129	120	213	200	220	20	6	89	150	150	M10	11

symbol/bore	F2	G	H	I	L	L1	M	N	O	ϕ S	CH	U
32	6	18	31	74	177	94	47	17	4.3	12	13	76
40	6	21	36	87	192	105	53	21	11	12	15	81
50	6	24	45	104	205	106	63	26	18.5	16	22	78
63	6	24	45	119	237	121	62	26	15.3	16	22	111
80	6	31	56	148	280	128	76	34	21	20	27	128
100	6	31	56	173	280	138	76	39	24.5	20	27	128

Screw thread cylinder

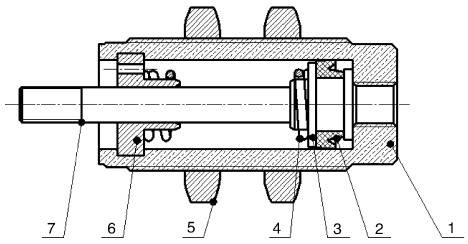
Specification:

Mode	6	8	10	16
Motion	Single acting type			
Fluit	Compressed Air			
Operating pressure range(Mpa)	5,10,15			
Stroke	0.2~0.8			
Ambienttemperature(℃)	–10~60			
Port size	M5 × 0.8			

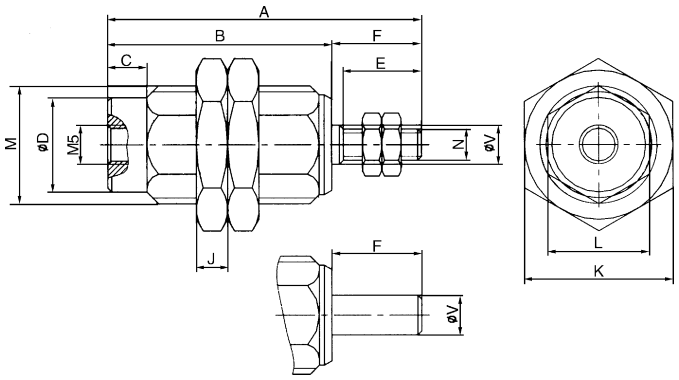
How to order:

LWD	6	×	10	–	M
Type	Bore		Stroke		screw thread type
	ϕ 6 ϕ 8 ϕ 10 ϕ 16		5 10 15		M: top of piston without screw thread blank: top of piston with screw thread

Inner structure drawing:



Dimension:



①	Cu tube with nickel
②	NBR Y –ring
③	AL piston
④	Stainless steel spring
⑤	steel screw cap with nickel
⑥	Cu axial with nickel
⑦	Stainless steel piston rod

Bore	A	B	C	D	E	F	J	K	L	M	N	V
LWD6 × 5	29.5	21	4	8.5	7	8.5	3	14	9	M10 × 1	M3 × 0.5	3
LWD6 × 10	34.5	26	4	8.5	7	8.5	3	14	9	M10 × 1	M3 × 0.5	3
LWD6 × 15	41.5	33	4	8.5	7	8.5	3	14	9	M10 × 1	M3 × 0.5	3
LWD8 × 5	31	21	4	10	7	10	3.2	14	11	M12 × 1	M4 × 0.7	5
LWD8 × 10	39	29	4	10	7	10	3.2	14	11	M12 × 1	M4 × 0.7	5
LWD8 × 15	44	34	4	10	7	10	3.2	14	11	M12 × 1	M4 × 0.7	5
LWD10 × 5	35	23.5	5	12	10	11.5	4	19	13	M15 × 1.5	M4 × 0.7	5
LWD10 × 10	40	28.5	5	12	10	11.5	4	19	13	M15 × 1.5	M4 × 0.7	5
LWD10 × 15	47	35.5	5	12	10	11.5	4	19	13	M15 × 1.5	M4 × 0.7	5
LWD16 × 5	38	23	7	19.5	12	15	5	27	20	M22 × 1.5	M5 × 0.8	6
LWD16 × 10	48.5	33.5	7	19.5	12	15	5	27	20	M22 × 1.5	M5 × 0.8	6
LWD16 × 15	53.5	38.5	7	19.5	12	15	5	27	20	M22 × 1.5	M5 × 0.8	6

Mini Cylinder

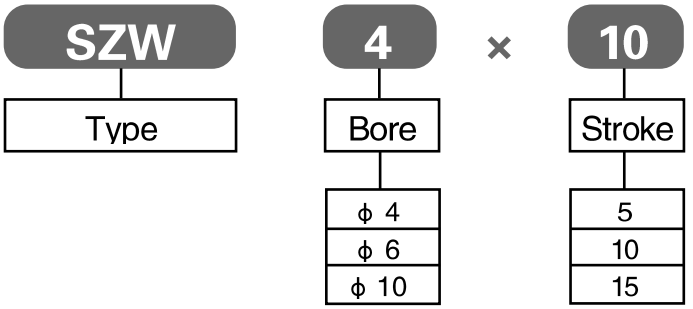
Character:

- Adopt Stainless steel tube,light ,precise,friction &corrosion endurable.
- Use imported non-lubrication oil seal, fits for high speed movement.
- Tube and covers made by roll extrusion.
- Unique design and assembly warrant its in line.

Specification:

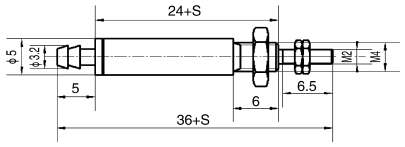
Mode	4	6	10
Motion	Single acting type		
Fluit	Compressed Air		
Series	SZW		
Operating pressure range (Mpa)	0.15~0.7		
Operating speed mm/sec	50~500		
Ambient temperature(℃)	-10~70		
Port size	M5		

How to order:

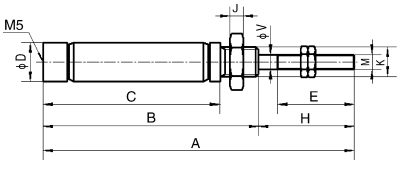


Dimension:

SZW4 × Stroke(5、10MM)



SZW6~10 × Stroke(5、10、15MM)



Specifiction	A	B	C	D	E	H	J	K	M	V
SZW6X10	65	45	37	8	16	20	4.5	M6	M3	3
SZW6X15	70	50	42	8	16	20	4.5	M6	M3	3
SZW10X10	74	54	46	11	15	20	3	M8X1	M4	4
SZW10X15	79	59	51	11	15	20	3	M8X1	M4	4

Air Oil Pressure transition Cylinder

Character:

- Provide a simple source of power for low pressure hydraulic cylinders.
- Suitable for slow, stable movement.
- The tanks must be mounted vertically at the highest point of the circuit.
- Fill oil into the tanks not over 80% of the full volume.
- Flow controls are recommended to avoid excessive foaming in tanks.

Specification:

Acting type	Air Oil Pressure transition Cylinder
Series	KZ
Bore	ϕ 63, ϕ 80, ϕ 100
Fluid	ISOVG32
Operating pressure range (Mpa)	0.07~0.99
Resistance (MPa)	1.5
Ambient temperature(℃)	–10~70

How to order:

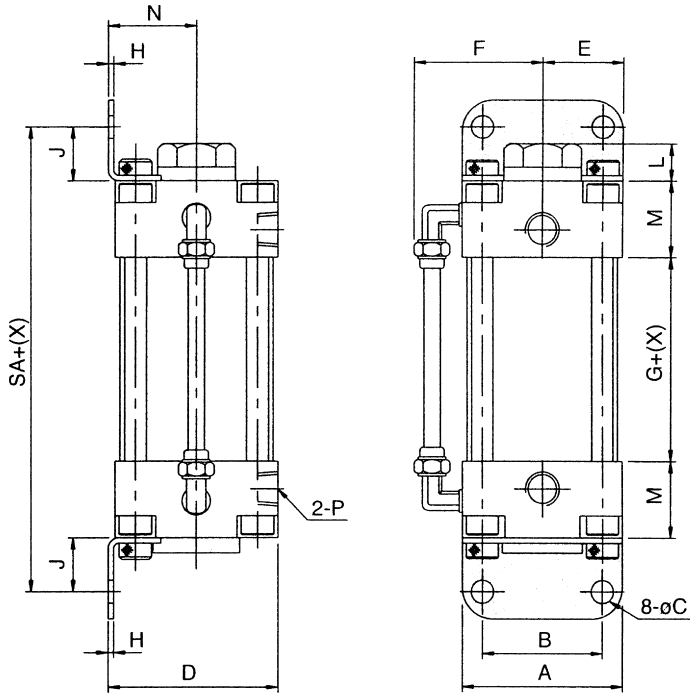
KZ	80	×	100	LB
Series	Bore		Longness	fittings
KZ standard type	ϕ 63		50~250mm	LB
	ϕ 80		100~300mm	FB
	ϕ 100		100~300mm	

Optional:

Bore		Φ 63						Φ 80						Φ 100					
longness (X)		50	75	125	150	200	250	100	125	150	200	250	300	100	125	150	200	250	300
Cylinder stroke range																			
Bore	Φ 40	100 under	101–125	101–150	151–200		251–300	201–250		301–350									
	Φ 50	50 under	75 under	51–100			151–200	101–150			251–300			201–250					
	Φ 63		50 under		75 under			51–100		101–150			201–250		151–200	251–300			
	Φ 80				50 under				75 under				101–150	51–100				101–150	151–200
	Φ 100								50 under				51–100						101–150

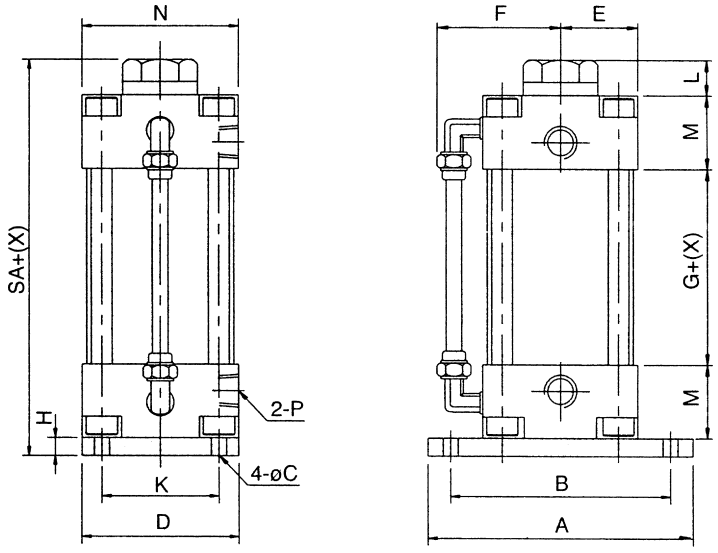
Dimension:

Foot bracket(LB)



Bore	A	B	C	D	E	F	G	H	J	L	M	N	P	S
ϕ 63	80	56	12	79	37.5	56.5	32	3.2	31	14	32	41	PT3/8”	12
ϕ 80	97	70	14	96	47	69	39	4	30	15	36	49	PT3/8”	12
ϕ 100	112	85	14	114	56.6	76.5	39	4	30	15.5	36	57	PT1/2”	12

Rear flanges(FB)



Bore	A	B	C	D	E	F	G	H	J	L	M	N	P	S
ϕ 63	120	100	9	80	37.5	56.5	32	14	50	14	32	75	PT3/8”	12
ϕ 80	154	126	12	96	47	69	39	16	63	15	36	94	PT3/8”	12
ϕ 100	180	150	14	120	56.5	76.5	39	16	75	15.5	36	113	PT1/2”	12

Air–Oil power cylinder

Operational principle:

BS series air–oil power cylinder,drives by pure air pressure.Use scale of sectional area which from big and small piston,converts the low air pressure to high pressure oil,the output rate of supercharging reach around 25:1. Mainly for stamping work,such as stamping,riveting,bending and so on.

Characteristic:

- The speed of pneumatic system and stability of hydraulic system integrates air–oil power cylinder
- Driven by pressured air ,produce power 1–40T
- Without shake and noise when working,improves quality of workpiece and life of mold.
- Design to save energy when continue pressure or stop action,not like pure hydraulic system
- Simple device,easy to control and maintain.
- Driven by pneumatic source,clean working environment,servicing easily.
- Simple and light,easy to handle.
- Stroke of capacity is limited
- Mainly for stamping work,such as bending,shear,pulling,riveting, marking and pressure assembly etc.

Installation and maintenance:

- Adopt multi–directional mounting,general use flange mounting,power axis is downward
- In using,the piston should avoids big radial load
- After install,run 2–3times in the work pressure range and without load
- The power source from filter of compressed dry air,pressure about 2–7kg/cm2
- The temperature range is –5~+60C for air–oil power cylinder,special requirements with OEM.
- It will be loss power oil after use of long–term,it need add in time.

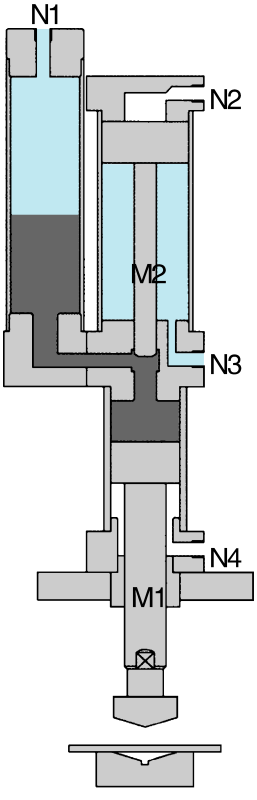
Instructions:

Compressed Air

Hydraulic Fluid

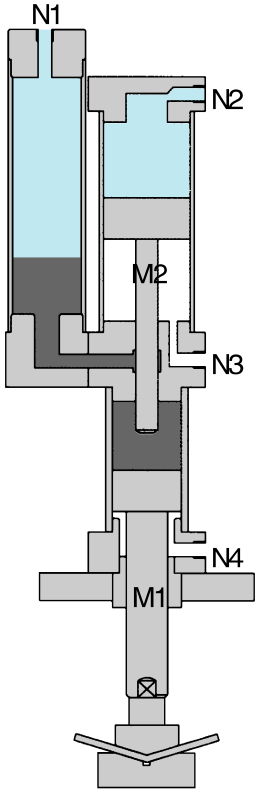
First step:Preloading

N1 Admission air
M1 Fall
N4 Exhaust air



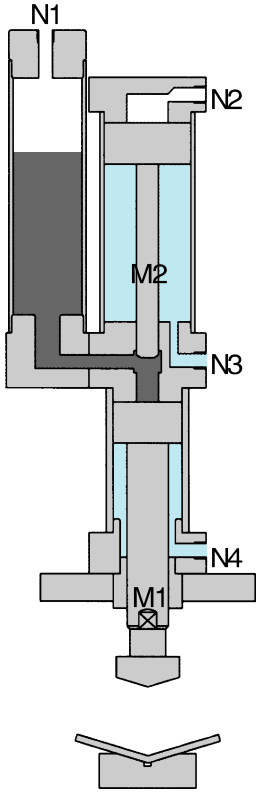
Second step:Boost

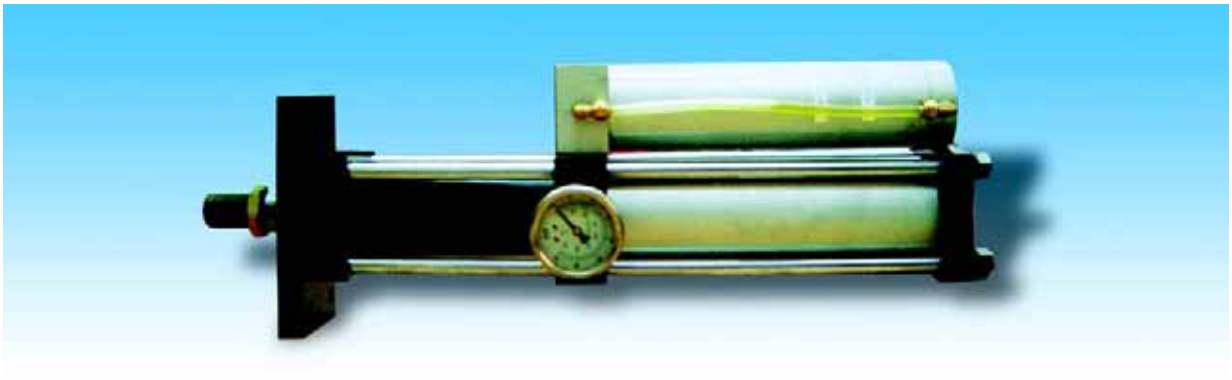
N2 Admission air
M2 fall boost
N3 Exhaust air



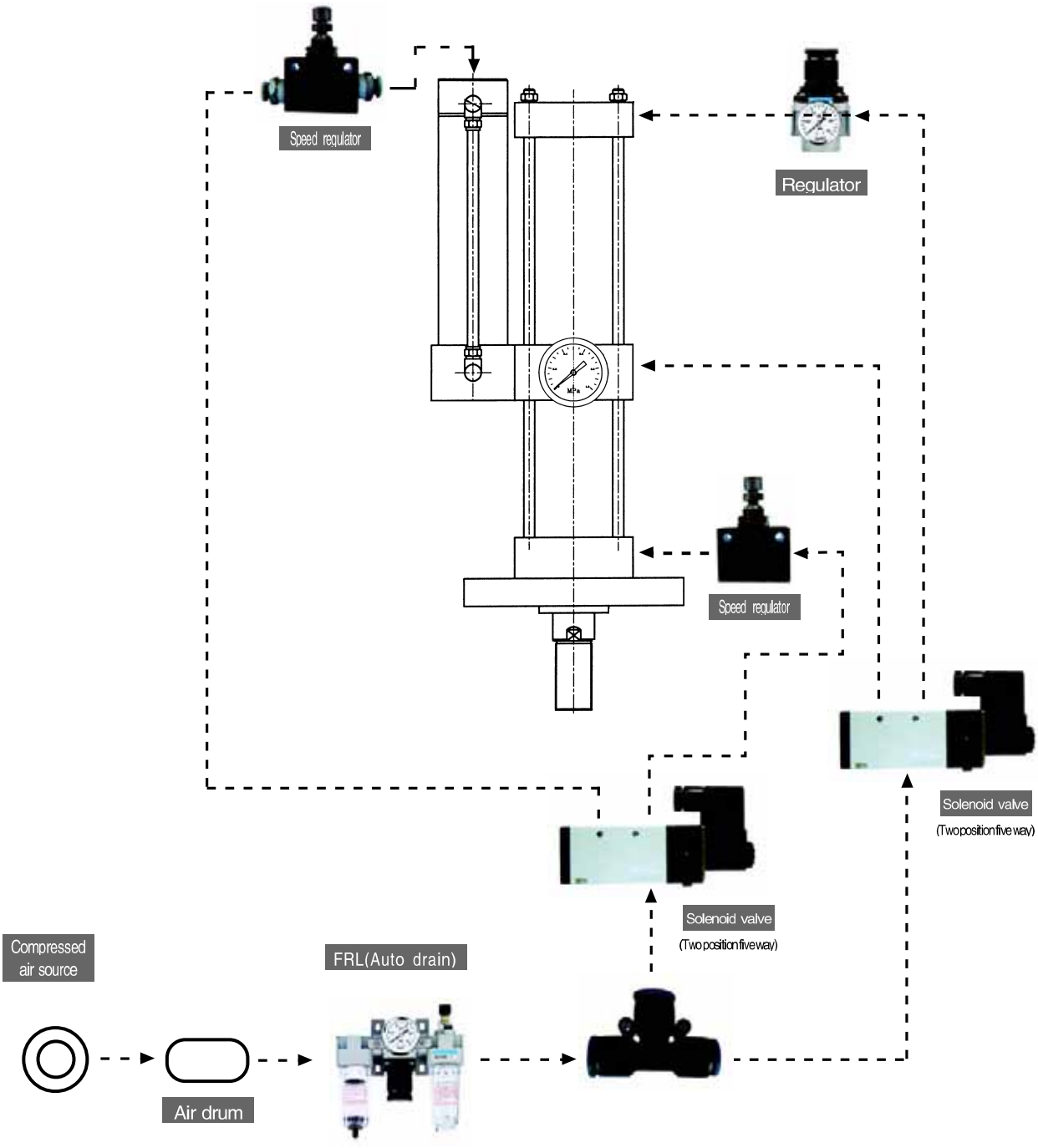
Third step:Reset

N3 N4 Admission air
M1 M2 Reset
N1 N2 Exhaust air



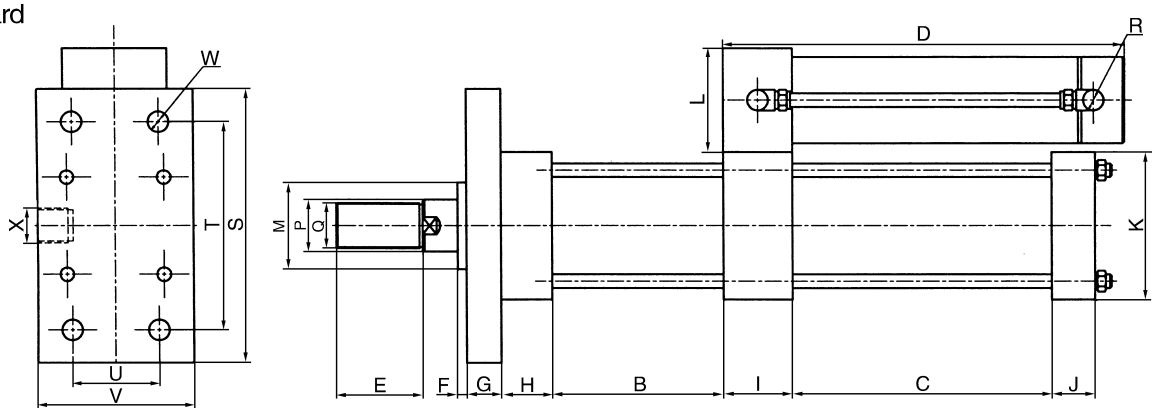


Recommend circuit diagram for standard air-oil power pressure



Dimension:

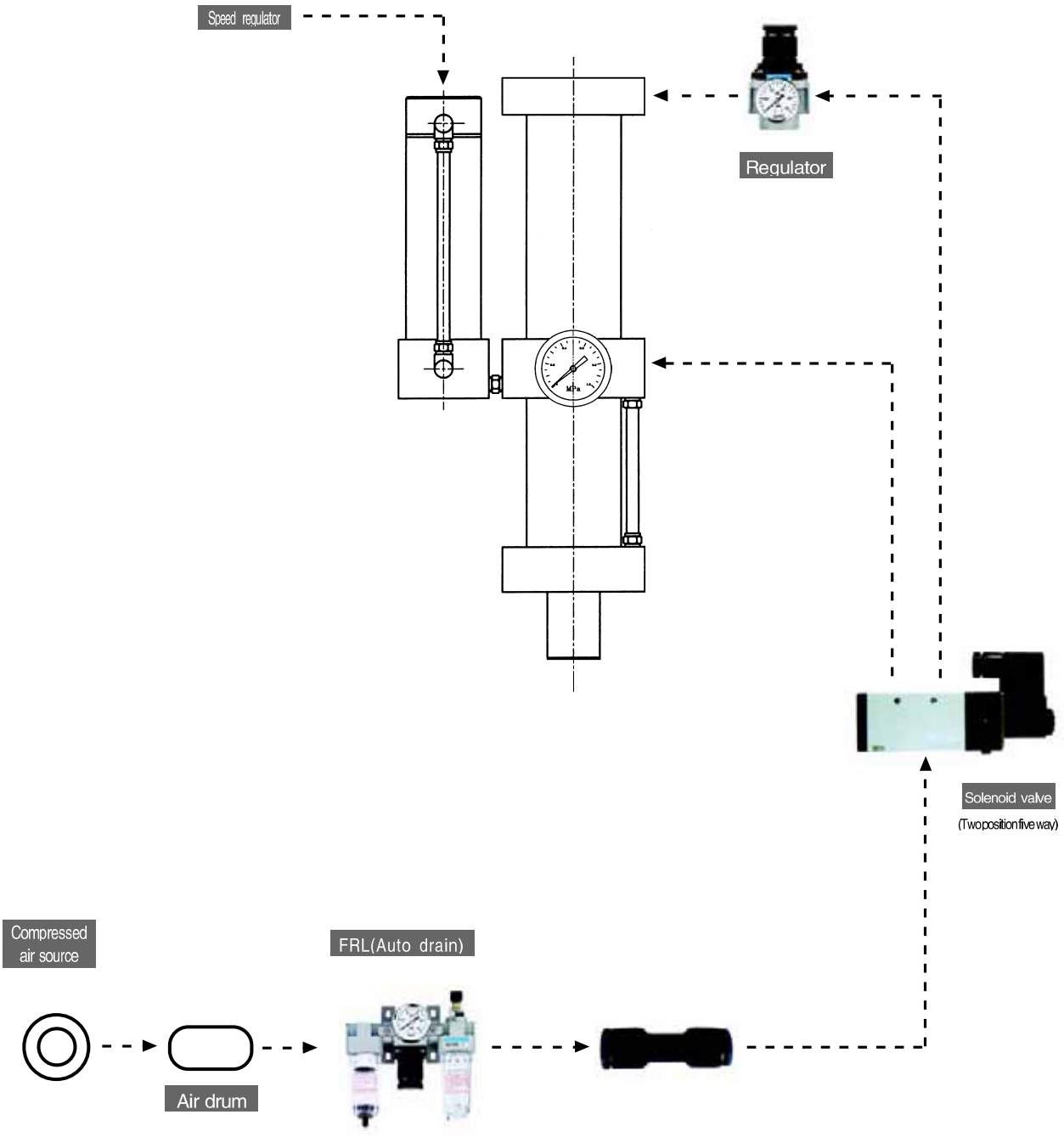
■ Standard



Inner diameter of oil cylinder(T)	E	F	G	H	I	J	K	L	M	N	P	Q	R	S	T	U	V	W	X
50(1T)	50	5	20	30	30	25	85 × 85	60 × 60	ϕ 50	75	ϕ 30	M26 × 1.5	G1/4"	156	120	90	50	ϕ 12	G1/4"
63(3T)	50	5	20	35	40	25	100 × 100	69 × 69	ϕ 55	75	ϕ 35	M30 × 1.5	G3/8"	190	150	105	65	ϕ 14	G3/8"
80(5T)	50	5	20	35	40	25	114 × 114	90 × 90	ϕ 55	90	ϕ 35	M30 × 1.5	G3/8"	220	170	120	70	ϕ 16	G3/8"
100(10T)	55	5	25	40	40	30	140 × 140	112 × 112	ϕ 65	90	ϕ 45	M40 × 2	G1/2"	250	200	145	80	ϕ 20	G1/2"
100(13T)	55	5	25	40	40	30	140 × 140	112 × 112	ϕ 65	90	ϕ 45	M40 × 2	G1/2"	250	200	145	80	ϕ 20	G1/2"
125(15T)	55	5	25	40	50	30	180 × 180	112 × 112	ϕ 80	90	ϕ 60	M50 × 2	G1/2"	320	250	190	120	ϕ 22	G1/2"
125(20T)	55	5	25	40	50	30	180 × 180	112 × 112	ϕ 80	90	ϕ 60	M50 × 2	G1/2"	320	250	190	120	ϕ 22	G1/2"
160(30T)	55	5	30	40	60	40	210 × 210	140 × 140	ϕ 100	90	ϕ 60	M63 × 2	G3/4"	355	290	218	140	ϕ 30	G3/4"
160(40T)	55	5	40	40	60	40	250 × 250	140 × 140	ϕ 100	90	ϕ 80	M63 × 2	G3/4"	390	320	240	160	ϕ 35	G3/4"

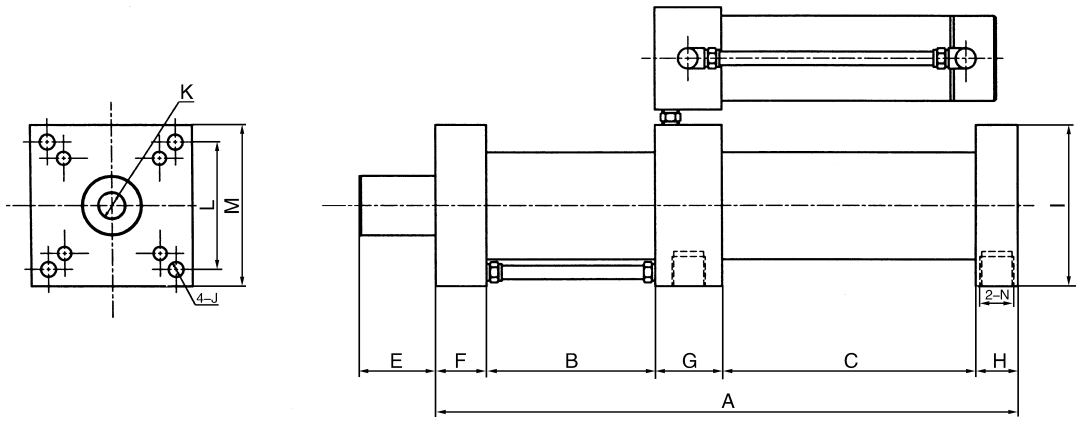
Tonnage	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D
1T	50	5	350	105	110	260	100	5	400	105	110	310	155	5	450	205	110	360	200	5	500	255	110	410
		10	400		160			10	450		160			10	500		160			10	550		160	
		15	450		210			15	500		210			15	550		210			15	600		210	
		20	500		260			20	550		260			20	600		260			20	650		260	
3T	50	5	360	110	110	260	100	5	410	110	110	310	160	5	460	210	110	360	200	5	510	260	110	410
		10	410		160			10	460		160			10	510		160			10	560		160	
		15	460		210			15	510		210			15	560		210			15	610		210	
		20	510		260			20	560		260			20	610		260			20	660		260	
5T	50	5	380	110	130	290	100	5	430	110	130	340	160	5	480	210	130	390	200	5	500	260	130	440
		10	445		195			10	495		195			10	545		195			10	550		195	
		15	510		260			15	560		260			15	610		260			15	600		260	
		20	575		325			20	625		325			20	675		325			20	650		325	
10T	50	5	360	125	130	295	100	5	465	125	130	345	175	5	515	225	130	395	200	5	565	275	130	445
		10	410		195			10	530		195			10	580		195			10	630		195	
		15	460		260			15	595		260			15	645		260			15	695		260	
		20	510		325			20	660		325			20	710		325			20	760		325	
13T	50	5	430	125	145	295	100	5	480	125	145	310	175	5	530	225	145	395	200	5	580	275	145	445
		10	510		225			10	560		225			10	610		225			10	660		225	
		15	590		305			15	640		305			15	690		305			15	740		305	
		20	670		385			20	720		385			20	770		385			20	820		385	
15T	50	5	443	130	138	295	100	5	493	130	138	345	180	5	543	230	138	395	200	5	593	280	138	445
		10	508		203			10	558		203			10	608		203			10	658		203	
		15	573		268			15	623		268			15	673		268			15	723		268	
		20	638		333			20	668		333			20	738		333			20	788		333	
20T	50	5	468	130	163	295	100	5	518	130	163	345	180	5	568	230	163	395	200	5	618	280	163	445
		10	558		253			10	608		253			10	658		253			10	708		253	
		15	648		343			15	698		343			15	748		343			15	798		343	
		20	738		433			20	788		433			20	838		433			20	888		433	
30T	50	5	526	130	191	300	100	5	576	130	191	350	180	5	626	230	191	400	200	5	676	280	191	450
		10	631		296			10	681		296			10	731		296			10	781		296	
		15	738		401			15	786		401			15	836		401			15	886		401	
		20	841		506			20	891		506			20	941		506			20	991		506	
40T	50	5	536	130	191	300	100	5	586	130	191	350	180	5	636	230	191	400	200	5	686	280	191	450
		10	641		296			10	691		296			10	741		296			10	791		296	
		15	746		401			15	796		401			15	846		401			15	896		401	
		20	851		506			20	901		506			20	951		506			20	1001		506	

Recommend circuit diagram for vertical compression air-oil power pressure



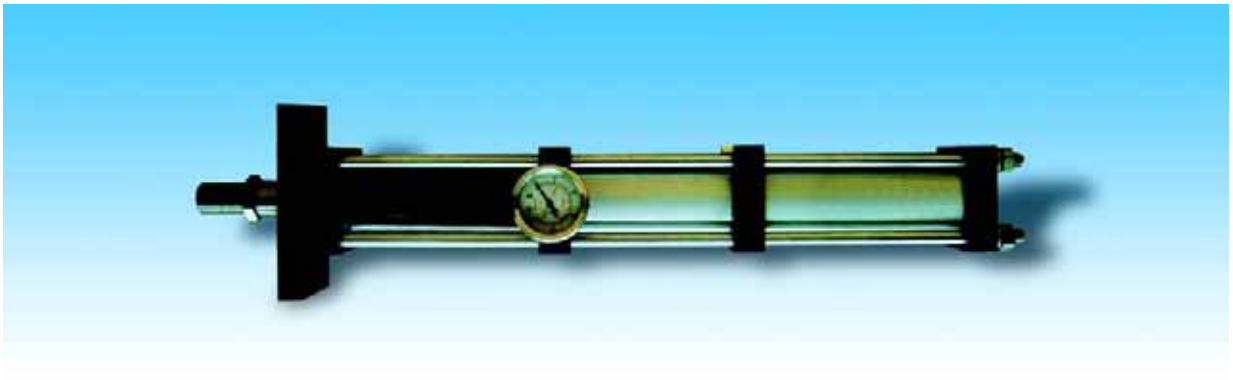
Dimension:

■ vertical compression

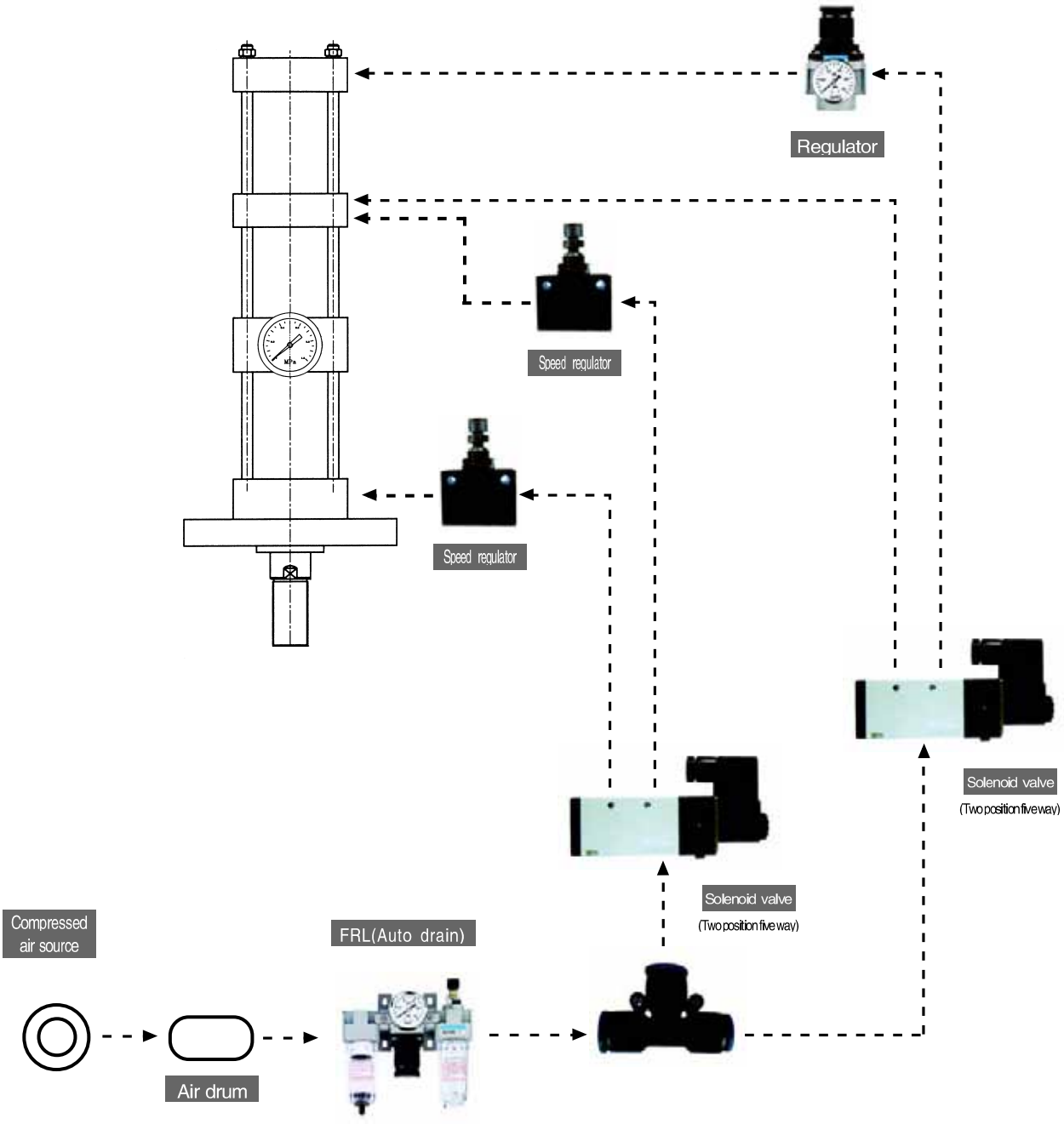


Inner diameter of oil cylinder(T)	E	F	G	H	I	J	K	L	M	N
50(1T)	50	30	30	20	95 × 95	ϕ 9	M16 深 25	75 × 75	95 × 95	G1/4”
50(2T)	50	30	30	20	95 × 95	ϕ 9	M16 深 25	75 × 75	95 × 95	G1/4”
63(3T)	50	30	30	20	114 × 114	ϕ 11	M16 深 25	92 × 92	114 × 114	G1/4”
63(5T)	50	30	30	20	114 × 114	ϕ 11	M16 深 25	92 × 92	114 × 114	G1/4”
80(5T)	50	40	40	30	140 × 140	ϕ 13	M16 深 25	110 × 110	140 × 140	G3/8”

Tonnage		A	B	C	Tonnage	Boost stroke	A	B	C	Tonnage	Boost stroke	A	B	C	Tonnage	Boost stroke	A	B	C	Tonnage	Boost stroke	A	B	C
1T	5	231	60	91	2T	5	241	60	101	3T	5	251	65	106	5T	5	275	65	130	8T	5	306	65	131
	10	261	65	116		10	286	65	141		10	296	70	146		10	375	105	190		10	401	95	196
	15	291	70	141		15	356	90	181		15	366	100	186		15	495	165	250		15	531	160	261
	20	326	80	166		20	436	135	221		20	446	140	226		20	615	225	310		20	661	225	326

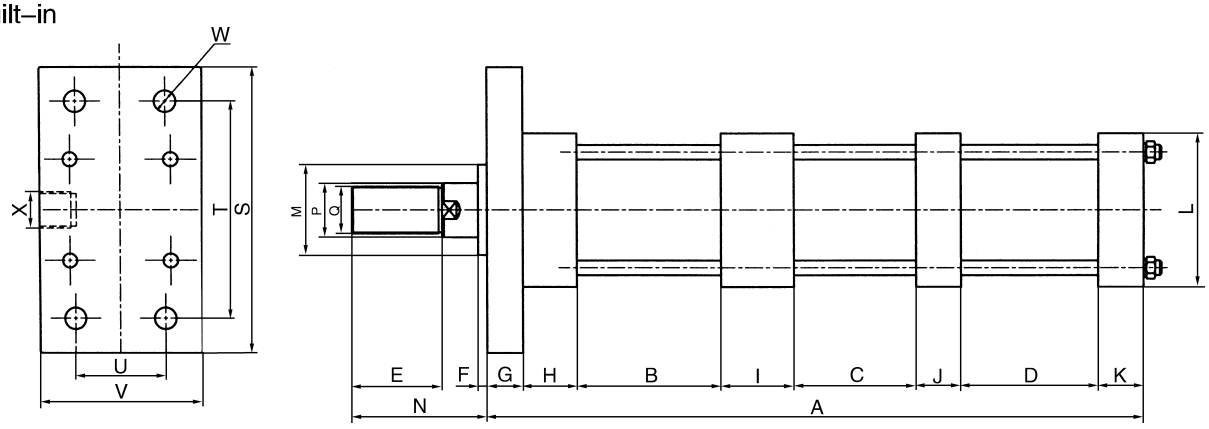


Recommend circuit diagram for built-in air-oil power pressure



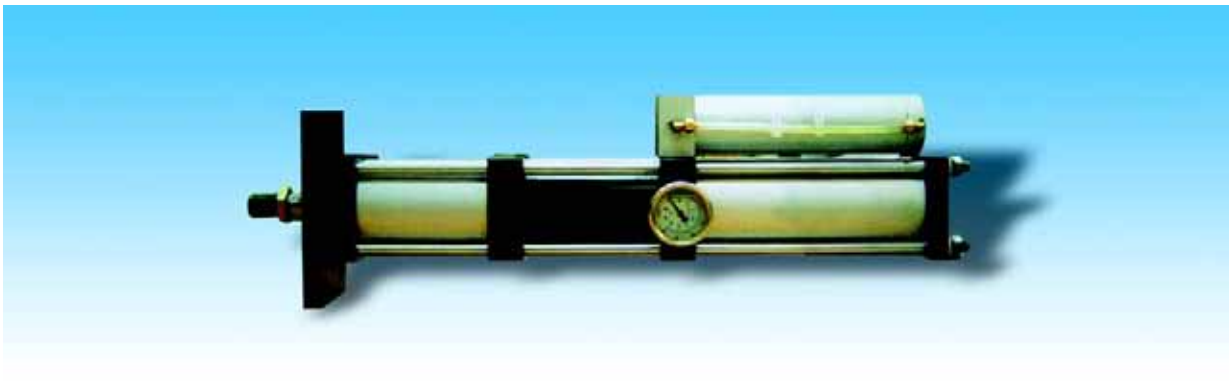
Dimension:

■ Built–in

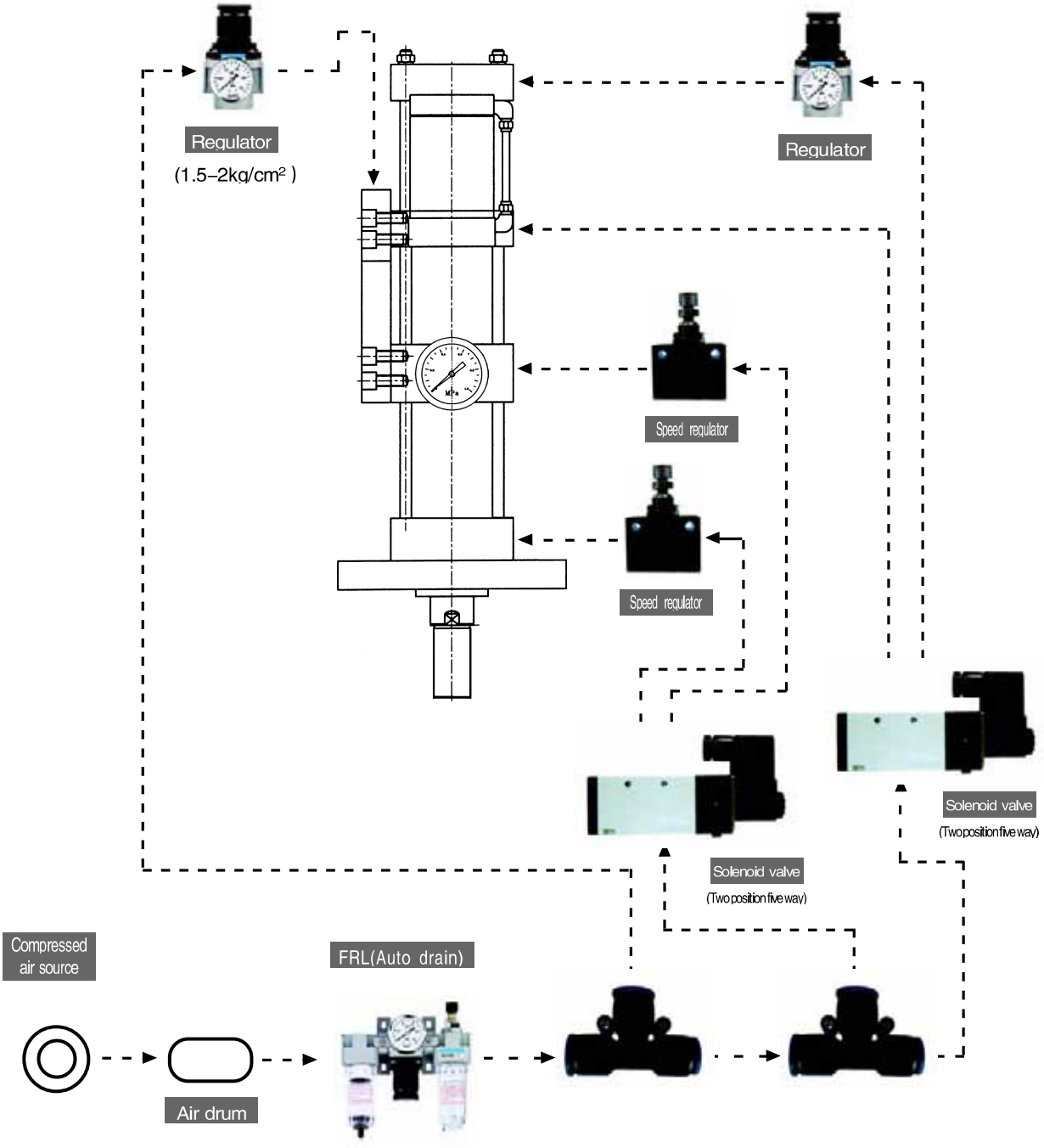


Inner diameter of oil cylinder(T)	E	F	G	H	I	J	K	L	M	N	P	Q	S	T	U	V	W	X
50(1T)	50	5	20	30	30	25	25	85 × 85	ϕ 50	75	ϕ 30	M26 × 1.5	156	120	90	50	ϕ 12	G1/4"
63(3T)	50	5	20	35	40	25	25	100 × 100	ϕ 55	75	ϕ 35	M30 × 1.5	190	150	105	65	ϕ 14	G3/8"
80(5T)	50	5	20	35	40	25	25	114 × 114	ϕ 55	90	ϕ 35	M30 × 1.5	220	170	120	70	ϕ 16	G3/8"
100(10T)	55	5	25	40	40	30	30	140 × 140	ϕ 65	90	ϕ 45	M40 × 2	250	200	145	80	ϕ 20	G1/2"
100(13T)	55	5	25	40	40	30	30	140 × 140	ϕ 65	90	ϕ 45	M40 × 2	250	200	145	80	ϕ 20	G1/2"
125(15T)	55	5	25	40	50	30	30	180 × 180	ϕ 80	90	ϕ 60	M50 × 2	320	250	190	120	ϕ 22	G1/2"
125(20T)	55	5	25	40	50	30	30	180 × 180	ϕ 80	90	ϕ 60	M50 × 2	320	250	190	120	ϕ 22	G1/2"
160(30T)	55	5	30	40	60	40	40	210 × 210	ϕ 100	90	ϕ 60	M63 × 2	355	290	218	140	ϕ 30	G3/4"
160(40T)	55	5	40	40	60	40	40	250 × 250	ϕ 100	90	ϕ 80	M63 × 2	390	320	240	160	ϕ 35	G3/4"

Tonnage	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D
1T	50	5	475	110	110	110	100	5	555	160	135	110	150	5	640	210	170	110	200	5	720	260	110	110
		10	525			160		10	605			160		10	690			160		10	770			160
		15	575			210		15	655			210		15	740			210		15	820			210
		20	625			260		20	705			260		20	790			260		20	870			260
3T	50	5	495	115	105	110	100	5	575	165	135	110	150	5	660	215	170	110	200	5	740	265	105	110
		10	545			160		10	625			160		10	710			160		10	790			160
		15	595			210		15	675			210		15	760			210		15	840			210
		20	645			260		20	725			260		20	810			260		20	890			260
5T	50	5	520	115	110	130	100	5	605	165	145	130	150	5	685	215	175	130	2002	5	770	265	110	130
		10	585			195		10	670			195		10	750			195		10	835			195
		15	650			260		15	735			260		15	815			260		15	900			260
		20	715			325		20	800			325		20	880			325		20	965			325
10T	50	5	565	130	110	130	100	5	650	180	145	130	150	5	730	230	175	130	200	5	815	280	110	130
		10	630			195		10	715			195		10	795			195		10	880			195
		15	695			260		15	780			260		15	860			260		15	945			260
		20	760			325		20	845			325		20	925			325		20	1010			325
13T	50	5	580	130	110	145	100	5	665	180	145	145	150	5	745	230	175	145	200	5	830	280	110	145
		10	660			225		10	745			225		10	825			225		10	910			225
		15	740			305		15	825			305		15	905			305		15	990			305
		20	820			385		20	905			385		20	985			385		20	1070			385
15T	50	5	583	135	110	138	100	5	668	185	145	138	150	5	748	235	175	138	200	5	833	285	110	138
		10	648			203		10	733			203		10	813			203		10	898			203
		15	713			268		15	798			268		15	878			268		15	963			268
		20	778			333		20	863			333		20	943			333		20	1028			333
20T	50	5	608	135	110	163	100	5	693	185	145	163	150	5	773	235	175	163	200	5	858	285	110	163
		10	698			253		10	783			253		10	863			253		10	948			253
		15	788			343		15	873			343		15	953			343		15	1038			343
		20	878			433		20	963			433		20	1043			433		20	1128			433
30T	50	5	686	135	125	191	100	5	776	185	165	191	150	5	866	235	205	191	200	5	956	285	125	191
		10	791			296		10	881			296		10	971			296		10	1061			296
		15	896			401		15	986			401		15	1076			401		15	1166			401
		20	1001			506		20	1091			506		20	1181			506		20	1271			506
40T	50	5	691	135	120	191	100	5	776	185	155	191	150	5	856	235	185	191	200	5	941	285	120	191
		10	796			296		10	881			296		10	961			296		10	1046			296
		15	901			401		15	988			401		15	1066			401		15	1151			401
		20	1006			506		20	1091			506		20	1171			506		20	1256			506

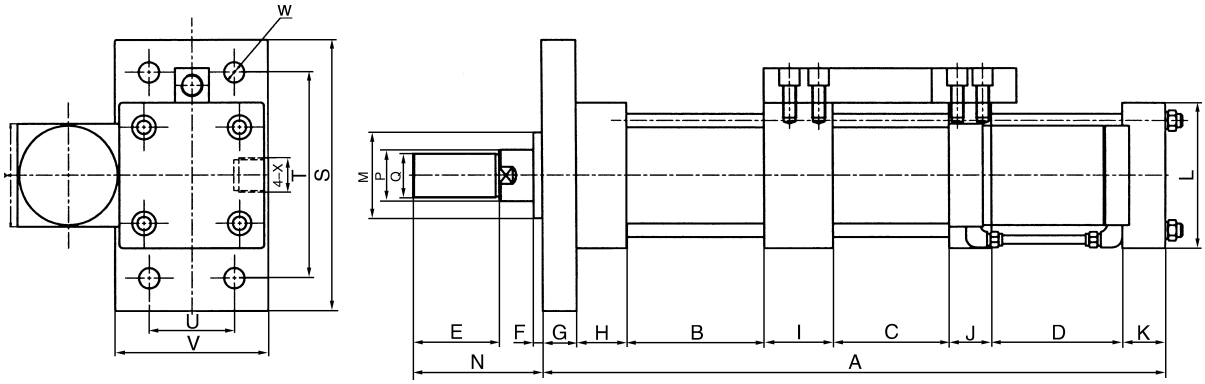


Recommend circuit diagram for speed air-oil power pressure



Dimension:

■ Speed



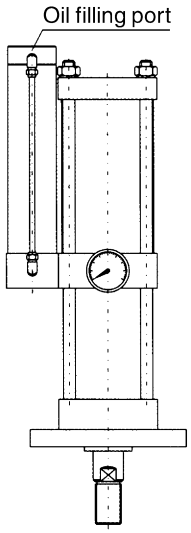
Inner diameter of oil cylinder(T)	E	F	G	H	I	J	K	L	M	N	P	Q	S	T	U	V	W	X	L
50(1T)	50	5	20	30	30	25	25	85 x 85	ϕ 50	75	ϕ 30	M26 x 1.5	156	120	90	50	ϕ 12	G1/4"	60 x 60
63(3T)	50	5	20	35	40	25	25	100 x 100	ϕ 55	75	ϕ 35	M30 x 1.5	190	150	105	65	ϕ 14	G3/8"	69 x 69
80(5T)	50	5	20	35	40	25	25	114 x 114	ϕ 55	90	ϕ 35	M30 x 1.5	220	170	120	70	ϕ 16	G3/8"	69 x 69
100(10T)	55	5	25	40	40	30	30	140 x 140	ϕ 65	90	ϕ 45	M40 x 2	250	200	145	80	ϕ 20	G1/2"	69 x 69
100(13T)	55	5	25	40	40	30	30	140 x 140	ϕ 65	90	ϕ 45	M40 x 2	250	200	145	80	ϕ 20	G1/2"	69 x 69
125(15T)	55	5	25	40	50	30	30	180 x 180	ϕ 80	90	ϕ 60	M50 x 2	320	250	190	120	ϕ 22	G1/2"	69 x 69
125(20T)	55	5	25	40	50	30	30	180 x 180	ϕ 80	90	ϕ 60	M50 x 2	320	250	190	120	ϕ 22	G1/2"	69 x 69
160(30T)	55	5	30	40	60	40	40	210 x 210	ϕ 100	90	ϕ 60	M63 x 2	355	290	218	140	ϕ 30	G3/4"	69 x 69
160(40T)	55	5	40	40	60	40	40	250 x 250	ϕ 100	90	ϕ 80	M63 x 2	390	320	240	160	ϕ 35	G3/4"	69 x 69

Tonnage	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D	TTL stroke	Boost stroke	A	B	C	D
1T	50	5	485	95	95	110	100	5	585	145	145	110	150	5	685	195	195	110	200	5	785	245	245	110
		10	535			160		10	635			160		10	735			160		10	835			160
		15	585			210		15	685			210		15	785			210		15	885			210
		20	635			260		20	735			260		20	835			260		20	935			260
3T	50	5	490	95	100	110	100	5	590	145	150	110	150	5	690	195	200	110	200	5	790	245	250	110
		10	540			160		10	640			160		10	740			160		10	840			160
		15	590			210		15	690			210		15	790			210		15	890			210
		20	640			260		20	740			260		20	840			260		20	940			260
5T	50	5	510	95	100	130	100	5	610	145	150	130	150	5	710	195	200	130	2002	5	810	245	250	130
		10	575			195		10	675			195		10	775			195		10	875			195
		15	640			260		15	740			260		15	840			260		15	940			260
		20	705			325		20	805			325		20	905			325		20	1005			325
10T	50	5	545	95	110	130	100	5	645	145	160	130	150	5	745	195	210	130	200	5	845	245	260	130
		10	610			195		10	710			195		10	810			195		10	910			195
		15	675			260		15	775			260		15	875			260		15	975			260
		20	740			325		20	840			325		20	940			325		20	1040			325
13T	50	5	560	95	110	145	100	5	660	145	160	145	150	5	760	195	210	145	200	5	860	245	260	145
		10	640			225		10	740			225		10	840			225		10	940			225
		15	720			305		15	820			305		15	920			305		15	1020			305
		20	800			385		20	900			385		20	1000			385		20	1100			385
15T	50	5	578	105	110	138	100	5	678	155	160	138	150	5	778	205	210	138	200	5	878	255	260	138
		10	643			203		10	743			203		10	843			203		10	943			203
		15	708			268		15	808			268		15	908			268		15	1008			268
		20	773			333		20	873			333		20	973			333		20	1073			333
20T	50	5	603	105	110	163	100	5	703	155	160	163	150	5	803	205	210	163	200	5	903	255	260	163
		10	693			253		10	793			253		10	893			253		10	993			253
		15	783			343		15	883			343		15	983			343		15	1083			343
		20	873			433		20	973			433		20	1073			433		20	1173			433
30T	50	5	696	115	115	191	100	5	796	165	165	191	150	5	896	215	215	191	200	5	996	265	265	191
		10	801			296		10	901			296		10	1001			296		10	1101			296
		15	906			401		15	1006			401		15	1106			401		15	1206			401
		20	1011			506		20	1111			506		20	1211			506		20	1311			506
40T	50	5	716	120	115	199	100	5	816	170	165	199	150	5	916	220	215	199	200	5	1016	270	265	199
		10	821			301		10	921			301		10	1021			301		10	1121			301
		15	926			406		15	1026			406		15	1126			406		15	1226			406
		20	1031			511		20	1211			511		20	1231			511		20	1331			511

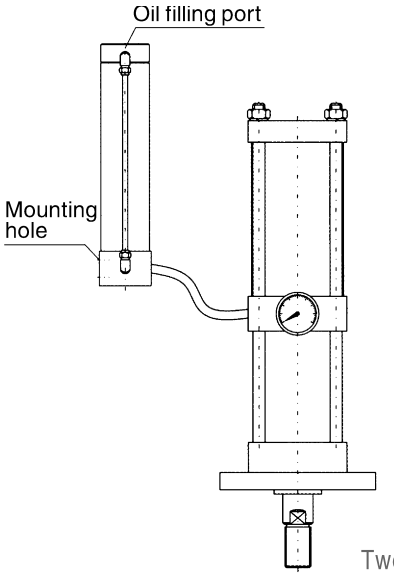
Mounting:

■ Mounting as multi–angle,the oil port must ensure upwards when installing.

Vertical overhead mounting(Recommend mounting)

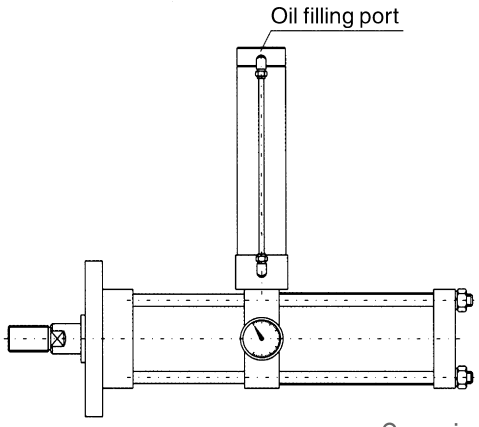


One–piece mounting

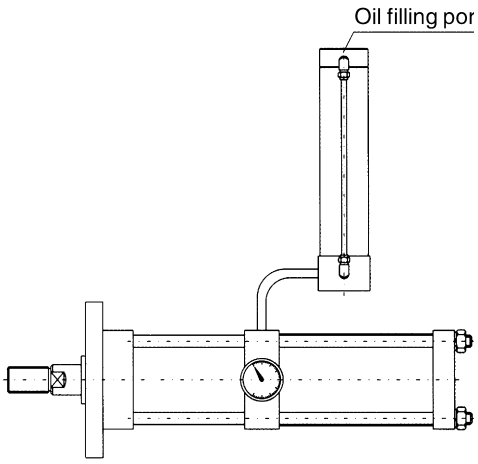


Two–piece mounting

Horizontal mounting

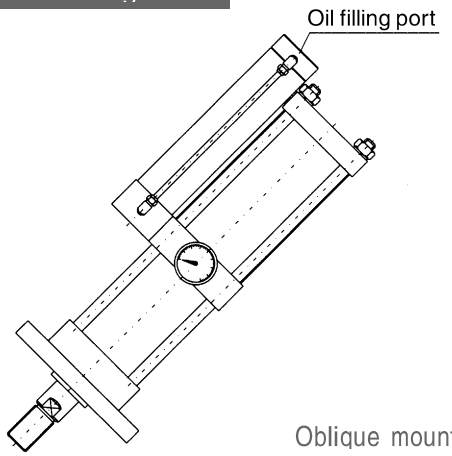


One–piece mounting

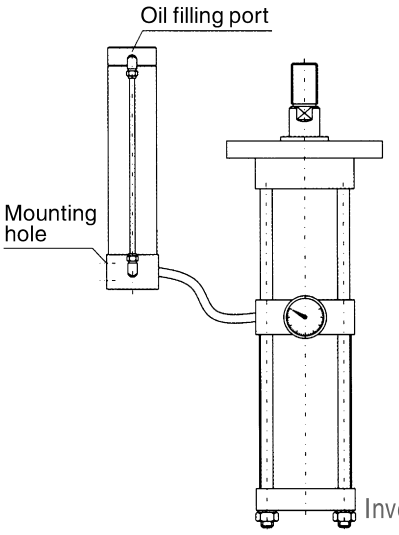


Two–piece mounting

Special mounting



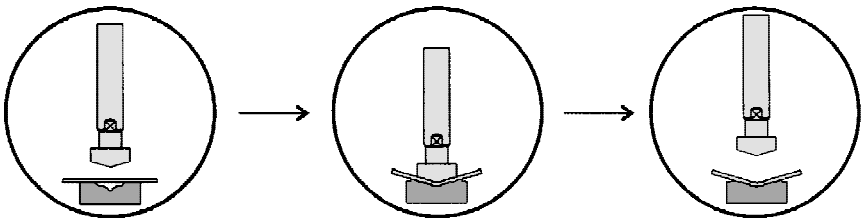
Oblique mounting



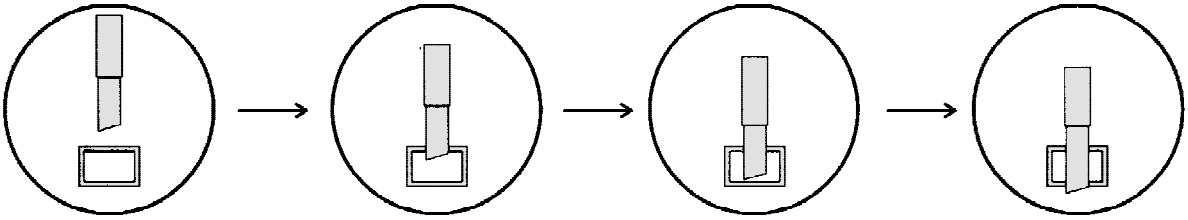
Inverted mounting

Examples of power cylinder application:

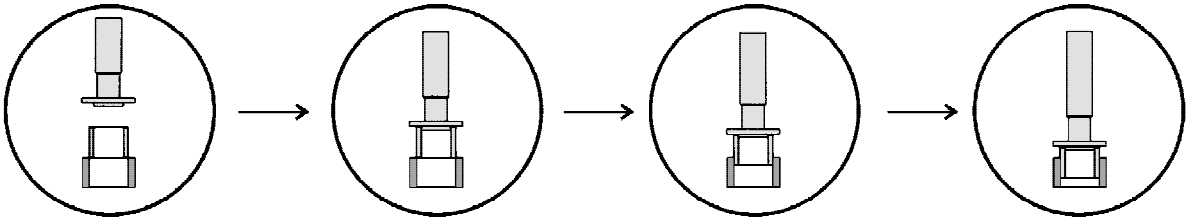
bend forming

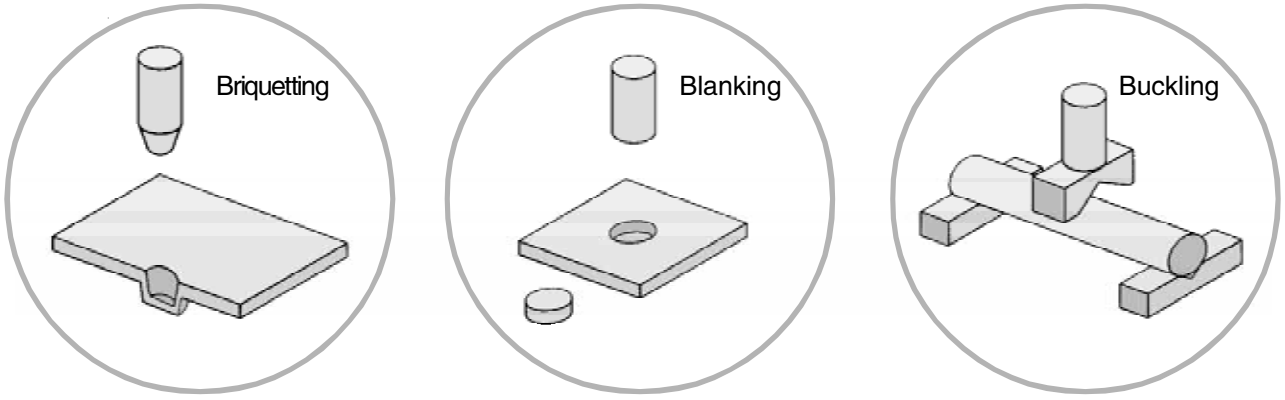


Transfer die



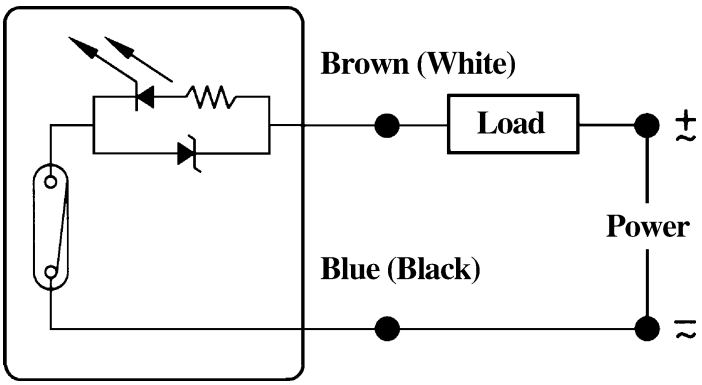
Pressfit





Magnet switch

wiring diagram:



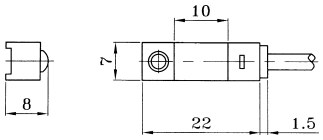
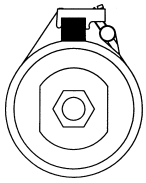
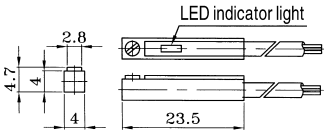
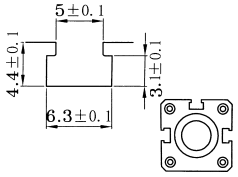
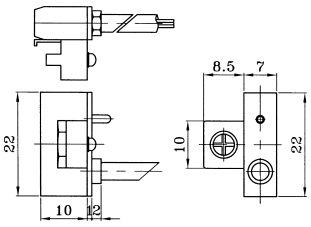
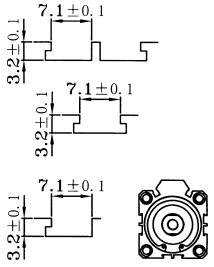
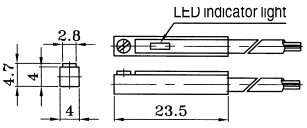
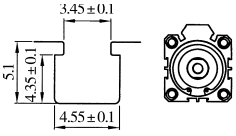
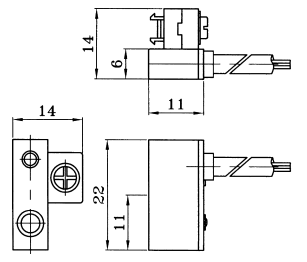
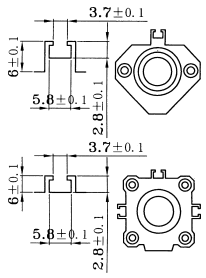
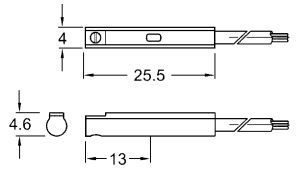
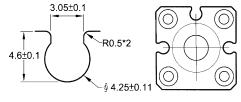
Echnical parameter:

sensor switch type	operating voltage range	Max.Flow switch	Max.contact rating	impact resistance	vibration resistance	Ambient temperature	Protection grade	Indicator light	Wire length
CS1–U	5~24V DC/AC	100A Max	10W Max	30G	9G	–10~70℃	IP–67	LED	2M
CS1–F	5~24V DC/AC	100A Max	10W Max	30G	9G	–10~70℃	IP–67	LED	2M
CS1–S	5~24V DC/AC	100A Max	10W Max	30G	9G	–10~70℃	IP–67	LED	2M
CS1–J	5~24V DC/AC	100A Max	10W Max	30G	9G	–10~70℃	IP–67	LED	2M
CS1–J1	5~24V DC/AC	100A Max	10W Max	30G	9G	–10~70℃	IP–67	LED	2M
CS1–G	5~24V DC/AC	100A Max	10W Max	30G	9G	–10~70℃	IP–67	LED	2M
CS1–H	5~24V DC/AC	100A Max	10W Max	30G	9G	–10~70℃	IP–67	LED	2M

Product application and Dimension:

Product application and dimension	Match magnet switch type	Switch Size	Switch Installation Drawing	Clamp Name & Code
SC DNG QGB SU	CS1–U	13, 12, 11, 26, 1.5		PAM – 63 Accesso–ries Type / Inner diameter of cylinder
	CS1–F	13, 12, 11, 1.5, 26, 1.5		PI – 63 Accesso–ries Type / Inner diameter of cylinder

Product application and Dimension:

Product application and dimension	Match magnet switch type	Switch Size	Switch Installation Drawing	Clamp Name & Code
MS  MAL 	CS1–S 			 BKI General type: Suitable for cylinder with 63 bore,bigger than 63 bore,can make to order
DNC 	CS1–M 			Clamp Needless
SDA 	CS1–J 			Clamp Needless
	CS1–G 			
CQ 	CS1–J1 			Clamp Needless
	CS1–H 			

DNC、DNI Series Spare parts of Cylinder: ϕ 32~100

- Conforms to ISO15552 and VDMA24562 Standards
- Bore sizes: ϕ 32,40,50,63,80,100
- Adjustable cushioning at both the ends

DNG、D Series Spare parts of Cylinder: ϕ 32~160

- Conforms to ISO15552 and VDMA24562 Standards
- Bore sizes: ϕ 32,40,50,63,80,100,125,160
- Adjustable cushioning at both the ends

SC Series Spare parts of Cylinder: ϕ 32~200

- Bore sizes: ϕ 32,40,50,63,80,100,125,160,200
- Adjustable cushioning at both the ends

MS Series Spare parts of Cylinder: ϕ 12~40

- Conforms to ISO6432 Standards
- Bore sizes: ϕ 12,16,20,25,32,40

MAL Series Spare parts of Cylinder: ϕ 20~40

- Conforms to ISO6432 Standards
- Bore sizes: ϕ 20,25,32,40

SDA Series Spare parts of Cylinder: ϕ 12~100

- Bore sizes: ϕ 12,16,20,25,32,40,50,63,80,100
- Standard strokes upto 100mm

Quick connector

Specification:

Fluid	air ,vacuum(fesible when non–corrosive media)
Operating pressure range Mpa	0~1
Ambient temperature Mpa	–10~60℃
hose applicable	PU or nylon hose

How to order:

FP ❶ C ❷ 8 ❸ — 02 ❹

❶	Series：F:black,W:white
❷	Type
❸	Hose outer dia.(unit：mm)
❹	Type & size of thread

Outer dia.③	Metric						
Type	4	6	8	10	12	16	20
Outer dia.(mm)	ϕ 4	ϕ 6	ϕ 8	ϕ 10	ϕ 12	ϕ 16	ϕ 20

Type & size of thread ④			Metric					
type	M5	M6	M10	M12	M12	M14	M16	M20
	M5 × 0.8	M6 × 1	M10 × 1	M12 × 1.25	M12 × 1.5	M14 × 1.5	M16 × 1.5	M20 × 1.5

British system cone thread

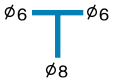
Type	01	02	03	04
Size	G1/8	G1/4	G3/8	G1/2

FPC

FPC4–M5	FPC8–01
FPC4–M6	FPC8–02
FPC4–01	FPC8–03
FPC4–02	FPC8–04
FPC6–M5	FPC10–01
FPC6–M6	FPC10–02
FPC6–01	FPC10–03
FPC6–02	FPC10–04
FPC6–03	FPC12–01
FPC6–04	FPC12–02
FPC8–M5	FPC12–03
FPC8–M6	FPC12–04

FPT

FPT6–4
FPT8–6
FPT10–8
FPT12–10



FPU

FPU–4
FPU–6
FPU–8
FPU–10
FPU–12

FPL

FPL4–M5	FPL8–04
FPL4–M6	FPL10–01
FPL4–01	FPL10–02
FPL4–02	FPL10–03
FPL6–M5	FPL10–04
FPL6–M6	FPL12–01
FPL6–01	FPL12–02
FPL6–02	FPL12–03
FPL6–03	FPL12–04
FPL6–04	
FPL8–01	
FPL8–02	
FPL8–03	

FPE

FPE–4
FPE–6
FPE–8
FPE–10
FPE–12

FPG

FPG6–4
FPG8–6
FPG10–8
FPG12–10

FPB

FPB4–M5	FPB8–02
FPB4–M6	FPB8–03
FPB4–01	FPB8–04
FPB4–02	FPB10–01
FPB6–M6	FPB10–02
FPB6–M5	FPB10–03
FPB6–01	FPB10–04
FPB6–02	FPB12–01
FPB6–03	FPB12–02
FPB6–04	FPB12–03
FPB8–01	FPB12–04

FPY

FPY–4
FPY–6
FPY–8
FPY–10
FPY –12

FPZ

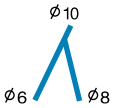
FPZ–4
FPZ–6
FPZ–8
FPZ–10
FPZ–12

FPD

FPD4–M5	FPD8–02
FPD4–M6	FPD8–03
FPD4–01	FPD8–04
FPD4–02	FPD10–01
FPD6–M6	FPD10–02
FPD6–M5	FPD10–03
FPD6–01	FPD10–04
FPD6–02	FPD12–01
FPD6–03	FPD12–02
FPD6–04	FPD12–03
FPD8–01	FPD12–04

FPN

FPN 6–4–4
FPN 8–6–6
FPN 10–8–8
FPN 12–10–10



FPX

FPX4–M5	FPX8–01
FPX4–M6	FPX8–02
FPX4–01	FPX8–03
FPX4–02	FPX8–04
FPX6–M6	FPX10–01
FPX6–M5	FPX10–02
FPX6–01	FPX10–03
FPX6–02	FPX10–04
FPX6–03	FPX12–01
FPX6–04	FPX12–02
FPX8–M5	FPX12–03
FPX8–M6	FPX12–04

FPV

FPV–4
FPV–6
FPV–8
FPV–10
FPV–12

FPLL

FPLL4–M5	FPLL8–02
FPLL4–01	FPLL8–03
FPLL4–02	FPLL10–02
FPLL6–01	FPLL10–03
FPLL6–02	FPLL12–02
FPLL6–03	FPLL12–03
FPLL8–01	FPLL14–02

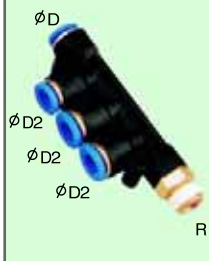
FPLF

FPLF4M5	FPLF8–03
FPLF4–01	FPLF10–02
FPLF6–01	FPLF10–03
FPLF6–02	FPLF10–04
FPLF6–03	FPLF12–03
FPLF8–01	FPLF12–04
FPLF8–02	FPLF14–02

FPKS

FPKS 04
FPKS 06
FPKS 08
FPKS 10
FPKS 12

FPKD

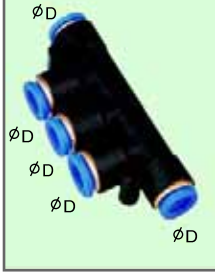


FPKD4–M5 FPKD8–02
FPKD4–M6 FPKD8–03
FPKD4–01 FPKD8–04
FPKD4–02 FPKD10–01
FPKD6–M5 FPKD10–02
FPKD6–M6 FPKD10–03
FPKD6–01 FPKD10–04
FPKD6–02 FPKD12–02
FPKD6–03 FPKD12–03
FPKD6–04 FPKD12–04
FPKD8–01

FJSS

FJSS6–01
FJSS6–02
FJSS8–01
FJSS8–02
FJSS10–02
FJSS10–03
FJSS12–02
FJSS12–03

FPKG



FPKG 4
FPKG 6
FPKG 8
FPKG 10
FPKG 12

FPM

FPM04–12x1
FPM06–14x1
FPM08–16x1
FPM10–18x1
FPM12–20x1

FPA

FPA 6
FPA 8
FPA 10

FPHF

FBHF 4–01 FBHF 8–04
FBHF 4–02 FBHF 10–01
FBHF 6–01 FBHF 10–02
FBHF 6–02 FBHF 10–03
FBHF 6–03 FBHF 10–04
FBHF 6–04 FBHF 12–01
FBHF 8–01 FBHF 12–02
FBHF 8–02 FBHF 12–03
FBHF 8–03 FBHF 12–04

FJSC

FJSC4M5 FJSC8–02
FJSC4–01 FJSC8–03
FJSC4–02 FJSC8–04
FJSC6–03 FJSC10–02
FJSC6–M5 FJSC10–03
FJSC6–01 FJSC10–04
FJSC6–02 FJSC12–02
FJSC6–03 FJSC12–03
FJSC6–04 FJSC12–04
FJSC8–01

FPAC

FPAC 4
FPAC 6
FPAC 8

FJST

FJST 4–01 FJST 8–04
FJST 4–02 FJST 10–01
FJST 6–01 FJST 10–02
FJST 6–02 FJST 10–03
FJST 6–03 FJST 10–04
FJST 6–04 FJST 12–01
FJST 8–01 FJST 12–02
FJST 8–02 FJST 12–03
FJST 8–03 FJST 12–04

FPCF

FPCF4M5 FPCF8–03
FPCF4–01 FPCF10–02
FPCF6–01 FPCF10–03
FPCF6–02 FPCF10–04
FPCF6–03 FPCF12–34
FPCF8–01 FPCF12–04
FPCF8–02 FPCF14–02

FHVFS

FHVFS6–01
FHVFS6–02
FHVFS6–03
FHVFS8–01
FHVFS8–02
FHVFS8–03
FHVFS10–02
FHVFS10–03
FHVFS10–04
FHVFS12–02
FHVFS12–03
FHVFS12–04

FHVFF

FHVFF 4
FHVFF 6
FHVFF 8
FHVFF 10
FHVFF 12

FPED

FPED 6–4
FPED 8–6
FPED10–8
FPED12–10

FFC

FFC6–01
FFC6–02
FFC6–03
FFC6–04
FFC8–01
FFC8–02
FFC8–03
FFC8–04
FFC10–01
FFC10–02
FFC10–03
FFC10–04

FPL

FPL4–M5 FPL8–03
FPL4–01 FPL8–04
FPL4–02 FPL10–01
FPL6–M5 FPL10–02
FPL6–01 FPL10–03
FPL6–02 FPL10–04
FPL6–03 FPL12–02
FPL6–04 FPL12–03
FPL8–01 FPL12–04
FPL8–02

FPC

FPC4–M5 FPC8–03
FPC4–01 FPC8–04
FPC4–02 FPC10–01
FPC6–M5 FPC10–02
FPC6–01 FPC10–03
FPC6–02 FPC10–04
FPC6–03 FPC12–02
FPC6–04 FPC12–03
FPC8–01 FPC12–04
FPC8–02

FPP

FPP4
FPP6
FPP8
FPP10
FPP12

FSK

FSK 1/8
FSK 1/4
FSK 3/8
FSK 1/2
FSK 3/4

PLSO

PLSO 4–M5 PLSO 8–03
PLSO 4–01 PLSO 8–04
PLSO 4–02 PLSO 10–01
PLSO 6–M5 PLSO 10–02
PLSO 6–01 PLSO 10–03
PLSO 6–02 PLSO 10–04
PLSO 6–03 PLSO 12–02
PLSO 6–04 PLSO 12–03
PLSO 8–01 PLSO 12–04
PLSO 8–02

PLSF

PLSF6–02
PLSF6–03
PLSF8–01
PLSF8–02
PLSF8–03
PLSF10–02
PLSF10–03
PLSF10–04
PLSF12–02
PLSF12–03
PLSF12–04

SL

SL6–01
SL6–02
SL6–03
SL8–01
SL8–02
SL10–02
SL10–03
SL10–04
SL12–02
SL12–03
SL12–04

PEH

PEH 1/8–1/8
PEH 1/4–1/4
PEH 3/8–3/8
PEH 1/2–1/2

FLF

PEH 1/8–1/8
PEH 1/4–1/4
PEH 3/8–3/8
PEH 1/2–1/2

PBH

PBH 1/8–1/8
PBH 1/4–1/8
PBH 1/4–1/4
PBH 3/8–1/4
PBH 3/8–3/8

PVH

PVH 1/8–1/8
PVH 1/4–1/4
PVH 1/8–1/8
PVH 3/8–1/4
PVH 3/8–3/8
PVH 1/2–3/8
PVH 1/2–1/2

PUMR

PUMR 1/8
PUMR 1/4–3/8
PUMR 3/8–1/2
PUMR 1/8–1/8
PUMR 1/4–1/4
PUMR 3/8–3/8
PUMR 1/2–1/2

SC

SC 6–01 SC 8–04
SC 6–02 SC 10–01
SC 6–03 SC 10–02
SC 6–04 SC 10–03
SC 8–01 SC 10–04
SC 8–02 SC 12–03
SC 8–03 SC 12–04

PUF

PUF 1/8–1/8
PUF 1/8–1/4
PUF 1/4–4/4
PUF 1/4–3/8
PUF 3/8–3/8
PUF 1/2–3/8

PLH

PLH 1/4–1/4
PLH 3/8–3/8
PLH 3/8–1/4
PLH 1/2–1/2
PLH 1/8–1/8
PLH 1/4–1/8

PCS

PCS4–M5 PCS8–03
PCS4–01 PCS8–04
PCS4–02 PCS10–01
PCS6–M5 PCS10–02
PCS6–01 PCS10–03
PCS6–02 PCS10–04
PCS6–03 PCS12–02
PCS6–04 PCS12–03
PCS8–01 PCS12–04
PCS8–02

PES

PES 4
PES 6
PES 8
PES 10

PLS

PLS4–M5 PLS8–03
PLS4–01 PLS8–04
PLS4–02 PLS10–01
PLS6–M5 PLS10–02
PLS6–01 PLS10–03
PLS6–02 PLS10–04
PLS6–03 PLS12–02
PLS6–04 PLS12–03
PLS8–01 PLS12–04
PLS8–02

PUS

PUS 4
PUS 6
PUS 8
PUS10
PUS 12

PBH

PBS4–M5 PBS8–03
PBS4–01 PBS10–01
PBS4–02 PBS10–02
PBS6–M5 PBS10–03
PBS6–01 PBS10–04
PBS6–02 PBS12–02
PBS6–03 PBS12–03
PBS8–01 PBS12–04
PBS8–02

PVS

PVS 4
PVS 6
PVS 8
PVS 10
PVS 12

EC

EC–M5
EC–01
EC–02
EC–03
EC–04
EC–06
EC–08

EP

EP–M5
EP–01
EP–02
EP–03
EP–04
EP–06
EP–08

EV

EV–M5
EV–01
EV–02
EV–03
EV–04
EV–06
EV–08

ES

ES–M5
ES–01
ES–02
ES–03
ES–04
ES–06
ES–08

QGJ

Cutter

Cut the air pipe safe、Quick、Exact and smooth.

YAG-A

Air Duster

1.Astout wind,lower consume and save energy
2.Suitable for allmachineand equipment for clean duster

YAG-B

Air Duster

1.Astout wind,lower consume and save energy
2.Suitable for allmachineand equipment for clean duster

YAG-C

Air Duster

1.Astout wind,lower consume and save energy
2.Suitable for allmachineand equipment for clean duster

YAG-D

Air Duster

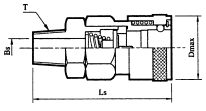
1.Astout wind,lower consume and save energy
2.Suitable for allmachineand equipment for clean duster

Connector

how to order:

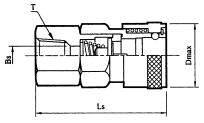
SM	–	20	–	S
SM		20:G 1/4"		S:Cu
SF		30:G 3/8"		B:Cu
SH		40:G 1/2"		SS:stainless steel
SP				

SM(outer thread)



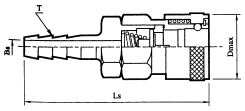
type	thread T	dimension(mm)		
		Ls	Dmax.	Bs
SM-20	G 1/4"	55.5	ϕ 25	ϕ 7.5
SM-30	G 3/8"	57.5	ϕ 25	ϕ 7.5
SM-40	G 1/2"	59.5	ϕ 25	ϕ 9

SF(inner thread)



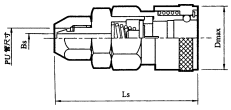
type	thread T	dimension(mm)		
		Ls	Dmax.	Bs
SF-20	G 1/4"	52.5	ϕ 25	ϕ 7.5
SF-30	G 3/8"	54.5	ϕ 25	ϕ 7.5
SF-40	G 1/2"	54.5	ϕ 25	ϕ 9

SH(Joint type)



type	hose sizeT	dimension(mm)		
		Ls	Dmax.	Bs
SH-20	5/16" Hose	72.5	ϕ 25	ϕ 5
SH-30	3/8" Hose	76.5	ϕ 25	ϕ 7.5
SH-40	1/2" Hose	78.5	hex.26/30	ϕ 9

SP(nut)

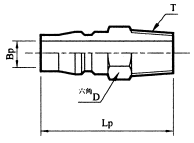


type	Pusize dia. × dia (mm)	dimension(mm)		
		Ls	Dmax.	Bs
SP-20	5 × 8	56.5	ϕ 25	ϕ 4
SP-30	6.5 × 10	58	ϕ 26	ϕ 5
SP-40	8 × 12	59	ϕ 26	ϕ 6

how to order:

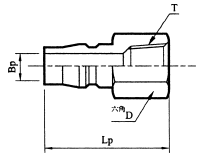
PM	–	20	–	S
PM		20:G 1/4"		S: Cu
PF		30:G 3/8"		B:Cu
PH		40:G 1/2"		SS:stainless steel
PP				

PM(External thread type)



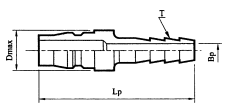
type	thread	dimension(mm)		
		Lp	hex.D	Bp
PM-20	G 1/4"	41	hex.17/16.2	ϕ 7.5
PM-30	G 3/8"	43	hex.17/19.6	ϕ 7.5
PM-40	G 1/2"	46	hex.21/42.2	ϕ 7.5

PF（inner thread)



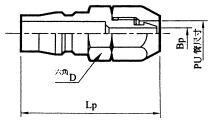
type	Thread	dimension(mm)		
		Lp	hex.D	Bp
PH-20	G 1/4"	38	hex.17/16.2	ϕ 7.5
PH-30	G 3/8"	41	hex.21/24.2	ϕ 7.5
PH-40	G 1/2"	43	hex.26/30	ϕ 7.5

PH(Joint type)



type	hose size T	dimension (mm)		
		Lp	Dmax.	Bp
PH-20	5/16" Hose	58	ϕ 16	ϕ 5
PH-30	3/8" Hose	62	ϕ 16	ϕ 7.5
PH-40	1/2" Hose	64	ϕ 18	ϕ 7.5

PP（nut type)



Type	Pu dimension inner × outside dia. (mm)	dimension(mm)		
		Lp	hex.D	Bp
PP-20	5 × 8	42.5	hex.14/16.2	ϕ 4
PP-30	6.5 × 10	44.5	hex.16/18.2	ϕ 5
PP-40	8 × 12	45	hex.17/19.2	ϕ 6

Pipe

Character:

- Good endurance of vibration,corrosion,abrasion and flection.
- Easily use with its kight weight.
- Fits for kinds of joint connector with its high precision.
- Many colors for choice.

Specification:

Fluid	air
Operating pressure range Mpa	0~1.0 Mpa
Ambient temperature Mpa	–15~60℃

How to order:

PU 8 × 5 — B

PU tube / outer dia. / inner dia. / color

PU tube

type	length(m/roll)
PU4 × 2.5	200
PU6 × 4	200
PU8 × 5	100
PU8 × 6	100
PU10 × 6.5	100
PU12 × 8	100

How to order:

PUL 8 × 5 — 7 — B

PU tube / outer dia. / inner dia. / length / color

Length spec.:

2	3	5	7	10	14	20
2m	3m	5m	7m	10m	14m	20m

Color:

transparent / black / blue / orange

Oil buffer




How to order:

AC — **14** — **16** — **1** — **N**

- **AC** — Series
  - Auto compensation
  - Adjustable
- **14** — Male connection
- **16** — Stroke
- **1** — impact velocity
  - 1: High speed
  - 2: Medium speed
  - 3: Lower speed
- **N** — buffer cap
  - No mark:buffer cap
  - N:Without buffer cap

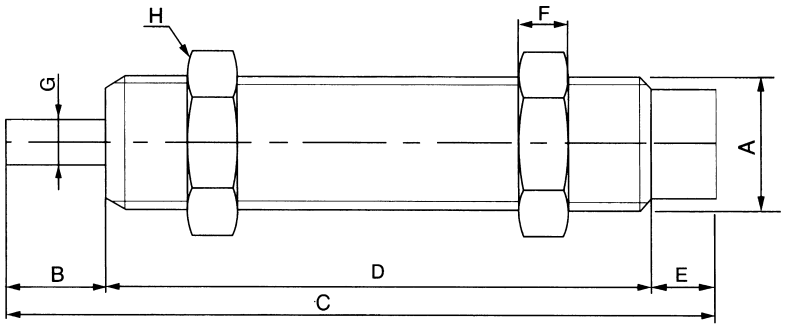
Technical Parameter:

Item	Stroke (mm)	Max absorb energy (Nm)	Absorb energy per hour(Nm)	Max effective weight(kg)			Highest ramming Speed(m/s)			Ambient temperature(℃)
				1	2	3	1	2	3	
AC–0806	6	2	1200	0.5	2	6	2	1	0.5	–10~80
AC–1005	5	3	3600	1	3	7	3	1.5	0.8	–10~80
AC–1008	8	4	5000	2	4	9	3	1.5	0.8	–10~80
AC–1210	10	5	10000	5	10	30	2	1.5	0.8	–10~80
AC–1412	12	15	30000	8	50	100	3	1.5	0.8	–10~80
AC–1416	16	20	35000	10	70	150	3	1.5	0.8	–10~80
AC–2020	20	40	40000	30	200	700	3.5	2	1	–10~80
AC–2050	50	60	60000	60	400	1200	3.5	2	1	–10~80
AC–2525	25	80	70000	200	800	1500	4	2.5	1	–10~80
AC–2540	40	120	75000	300	1200	2000	4	2.5	1	–10~80
AC–3660	60	250	120000	400	1500	2400	4	2.5	1	–10~80

Item	Stroke (mm)	Max absorb energy (Nm)	Absorb energy per hour(Nm)	Max effective weight(kg)			Highest ramming Speed(m/s)			Ambient temperature(℃)
				1	2	3	1	2	3	
AD–1410	10	20	25000	80			3			–10~80
AD–2016	16	25	30000	200			3.5			–10~80
AD–2525	25	85	70000	400			3.5			–10~80
AD–2540	40	100	80000	700			3.5			–10~80
AD–3650	50	300	100000	1400			3			–10~80
AD–4225	25	260	125000	3000			3.5			–10~80
AD–4250	50	500	150000	4000			4.5			–10~80
AD–4275	75	750	180000	6000			4.5			–10~80
AD–6450	50	12000	1500000	12727			1.5			–10~80
AD–64100	100	24000	2000000	18181			1.5			–10~80
AD–64150	150	36000	2500000	23636			1.5			–10~80

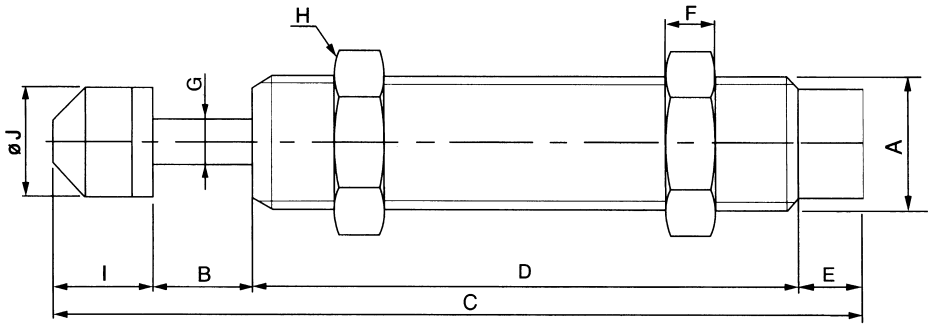
Dimension:

Without buffer cap



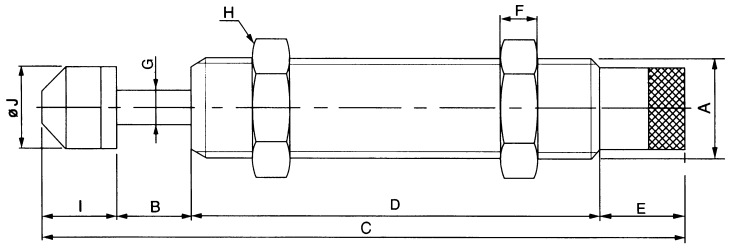
Spec/sign	A	B	C	D	E	F	G	H
AC–0806	M8 × 1.0	6	44	33	5	3	2.8	11
AC–1005	M10 × 1.0	5	32.7	22.9	4.8	3	3	12.7
AC–1008	M10 × 1.0	8	51	38	5	3	3	12.7
AC–1210	M12 × 1.0	10	60	45.5	4.5	4	3	14
AC–1412	M14 × 1.5	12	88	67	9	6	4	19
AC–1416	M14 × 1.5	16	111	86	9	6	4	19

buffer cap

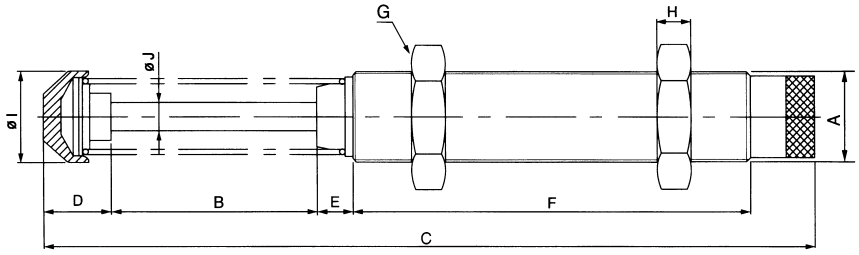


Spec/sign	A	B	C	D	E	F	G	H	J
AC–0806	M8 × 1.0	6	52.4	33	5	3	2.8	11	6.6
AC–1005	M10 × 1.0	5	41.2	22.9	4.8	3	3	12.7	8.6
AC–1008	M10 × 1.0	8	59.5	38	5	3	3	12.7	8.6
AC–1210	M12 × 1.0	10	69.5	45.5	4.5	4	3	14	10.3
AC–1412	M14 × 1.5	12	102.5	67	9	6	4	19	12
AC–1416	M14 × 1.5	16	125.5	86	9	6	4	19	12
AC–2020	M20 × 1.5	20	146.5	101	9	8	6	26	18
AC–2050	M20 × 1.5	50	233.5	158	9	8	6	26	18
AC–2525	M25 × 1.5	25	154.3	101	10	10	8	32	22
AC–2540	M25 × 1.5	40	208.3	127	10	10	8	32	22
AC–3660	M36 × 1.5	60	243	134	11	15	10	46	35

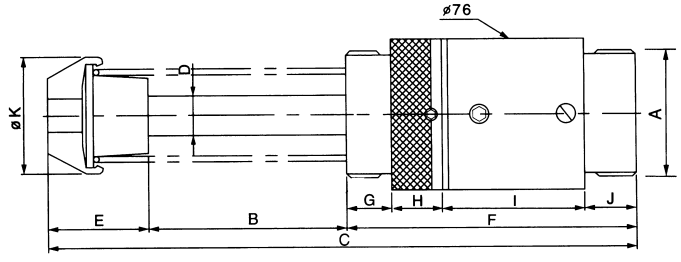
Without buffer cap



Spec/sign	A	B	C	D	E	F	G	H	I	J
AD–1410	M14 × 1.5	10	113.5	73	16	6	4	19	14.5	12
AD–2016	M20 × 1.5	16	149.5	101	16	8	6	26	16.5	18
AD–2525	M25 × 1.5	25	161.8	101	17.5	10	8	32	18.3	22
AD–2540	M25 × 1.5	40	215.8	127	17.5	10	8	32	31.3	22



Spec/sign	A	B	C	D	E	F	G	H	I	J
AD–3650	M36 × 1.5	50	242	21	17	146	46	15	35	10
AD–4225	M42 × 1.5	25	186.5	34	26	104.5	50	15	44.5	12
AD–4250	M42 × 1.5	50	241	34	26	134	50	15	44.5	12
AD–4275	M42 × 1.5	75	301.5	39	26	164.5	50	15	44.5	12



Spec/sign	A	B	C	D	E	F	G	H	I	J	K
AD–6450	2 1/2–UNF(63.5)	50	247.8	20	51.8	146	23	20	77	26	59
AD–64100	2 1/2–UNF(63.5)	100	347.8	20	51.8	196	23	20	127	26	59
AD–64150	2 1/2–UNF(63.5)	150	467.8	20	61.8	256	23	20	187	26	59

Execute Standard of Hydraulic Cylinder: GB/T 15622–1995

Character:

1、Hydraulic cylinders have several standard dimensions which depend on working pressure for customers' reference.

2、According to JIS–B8354, hydraulic cylinders can be divided into several types as follow.

Working pressure	Name
70 kgf/cm^2(7 MPa)	Low–pressure hydraulic cylinder
140 kgf/cm^2(14 MPa)	Mid–pressure hydraulic cylinder
210 kgf/cm^2(21 MPa)	High–pressure hydraulic cylinder

Note: (1) The working pressure of super high–pressure hydraulic cylinder is from 210kgf/cm^2 to 700kgf/cm^2

(2) Pressure unit of British system: 1000Lbs/in^2(psi) =70–kgf/cm^2

(3) JIS's new name is 7Mpa 70–kgf/cm2

3、Please view the details of 70/140/210kgf/cm2 from this catalogue.

4.Requirements for choosing hydraulic cylinders:

(1) Bore

(2) Stroke

(3) Working pressure

(4) Pay attention to the terms as follow,besides amounting type:

(A) When acting speed is higher than standard speed under loading, please choose hydraulic cylinder with cushion.Or please installing slowdown valve when speed is higher.

(B) Choose hydraulic oil and oil seal carefully, different oil for different oil seals in order to extend the life time of hydraulic cylinder.

5. We choose the material of hydraulic cylinder is according to JIS–B8354 and control the processing technology strictly. For example, the processing size tolerances and geometry tolerances of accessories depend on our years experiences, develop technology,strict requirement and serious attitude. All kinds of our hydraulic cylinders take the advantage of low friction and long life time.

6. Standard material of hydraulic cylinder tube is carbon steel, No.STKM13C. After being processed with cold–draw under seamless situation and inner bore being crossing–processed with high precision and inclination, the bore of tolerance is H7~H9, surface precision is 0.3~0.8S, strength of projecting lever is more than 52kgf/cm2.

To calculate the thickness of steel sheets: $t=(P \times D) \div (200 \times S)$

t:Thickness of steel sheet P: Max. working pressure(kgf/cm^2)

D:Bore S: σ /5 margin

σ: Min. strength of projecting lever(kgf/cm^2)

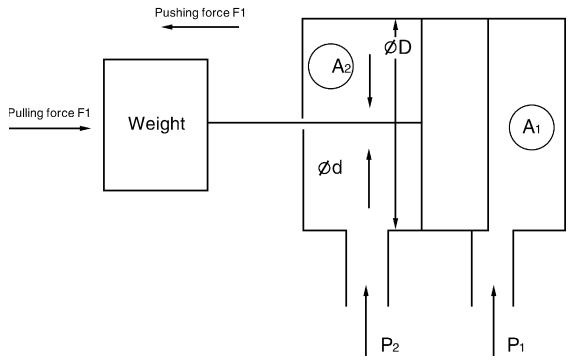
7. Material of piston rod is low carbon steel, No.S45C. Diameter is processed with grinding and being chrome plated, tolerance of diameter is f7~f8, surface hardness is more than HV700. Surface roughness is 0.8~1.6S, thickness of chromium is 20mm.

8. The seal is imported masterwork, oil resistant, corrosion resistant, wear resistant and compression resistant.

9. All accessories made by CNC machines, tolerances reach to JIS standard, better interchange performance, long life time, easy maintenance.

10. Inductive hydraulic cylinder with SUS304, because it without the sence of magnetism, the sensor added on cylinder and inner magnet will make magnetic function together. So it can test action of hydraulic cylinders.

Oil Hydraulic Cylinder Theoretical Force Output Form:



Pushing force F1=A1 × P1 × β

Pulling force F2=A2 × P2 × β

A_1: Side piston compression area for push (cm^2) $A_1=\pi/4D_2=0.785D_2$

A_2: Side piston compression area for Pull (cm^2) $A_2=\pi/4(D^2-d^2)=0.785D_2$

D: Hydraulic cylinder inside diameter,namely piston diameter (cm)

d: Piston rod diameter (cm)

P_1: Side action pressure for push (kgf/cm^2)

P_2: Side action pressure for pull (kgf/cm^3)

β: Load rate

1.Hydraulic cylinder actual output lower than theoretical force outpu.

2.Load rate B value,when the inertial force small take 80%,others 60%.

Hydraulic cylinder inside diameter	compression area for push (cm^2)	Rod diameter of hydraulic cylinder	Rod srew thread of hydraulic cylinder	Compression area for pull (cm^2)	Velocity ratir	70kgf/cm^2		70kgf/cm^2		70kgf/cm^2	
						Pulling force F_2	Pulling force F_1	Pulling force F_2	Pulling force F_1	Pulling force F_2	Pulling force F_1
ϕ 30	7.07	16	M14 × 1.5	5.06	1.4	354	495	708	990	1063	1485
ϕ 40	12.57	20	M16 × 1.5	9.43	1.33	660	880	1302	1760	1980	2640
		25	M22 × 1.5	7.66	1.64	536	880	1072	1760	1608	2640
ϕ 50	19.64	20	M16 × 1.5	16.5	1.19	1150	1372	2310	2744	3465	4116
		30	M26 × 1.5	12.57	1.56	880	1372	1760	2744	2460	4116
ϕ 63	31.17	25	M22 × 1.5	26.26	1.19	1838	2184	3676	4368	5514	6552
		35	M30 × 1.5	21.55	1.45	1508	2184	3016	4368	4525	6552
ϕ 80	50.27	30	M26 × 1.5	43.2	1.16	3024	3521	6048	7042	9072	10563
		40	M30 × 1.5	37.7	1.33	2639	3521	5278	7042	7917	10563
ϕ 100	78.54	35	M30 × 1.5	68.92	1.14	4824	5498	9649	11000	14473	16493
		50	M40 × 2.0	58.92	1.33	4124	5498	8248	11000	12373	16493
ϕ 125	122.72	50	M40 × 2.0	103.1	1.19	7217	8590	14434	17180	21651	25770
		60	M50 × 2.0	94.46	1.3	6612	8590	13224	17180	19836	25770
ϕ 150	176.72	60	M50 × 2.0	148.46	1.19	10392	12369	20784	24738	31176	37107
		80	M70 × 2.0	126.48	1.4	8853	12369	17707	24738	26560	37107
ϕ 180	254.47	80	M70 × 2.0	204.23	1.25	14296	17813	28592	35626	42888	53439
		100	M90 × 2.0	175.97	1.45	12318	17813	24636	35626	36954	43439
ϕ 200	314.16	80	M70 × 2.0	263.92	1.19	18474	21991	36948	43982	55423	65974
		100	M90 × 2.0	235.66	1.33	16496	21991	32992	43982	49488	65974
ϕ 250	490.87	100	M90 × 2.0	412.37	1.19	28866	34360	57732	68723	86598	103083
		125	M100 × 3.0	368.16	1.33	25771	34360	51542	68723	77313	103083

Heavy Oil Hydraulic Cylinder

Technical Parameter:

Hydraulic cylinder inside diameter(mm)	40	50	63	80	100	125	150	180	200
Fluid	Standard hydraulic pressure oil								
Material of steel Tube	Carbon steel pipe/Galvanized iron pipe/AL Tubre A6063 TDS-T5								
Operating Pressure range (Mpa)	0.3~1.4								
Ambient temperature (℃)	-10~60								
The range of speed (mm/sec)	8~300								
Cushion Stroke (mm)	25	25	25	30	35	40	45	50	55
Standard Piston Length (PM)	30	35	35	50	60	70	60	70	70
Piston Length for stroke from 1501~2500mm (PM)	60	70	70	80	100	100	100	140	140
Piston Length for stroke from 2501~4000mm (PM)	120	140	140	150	180	180	180	200	200

How to order:

HOB — HOB:Standard Type

63 — Bore

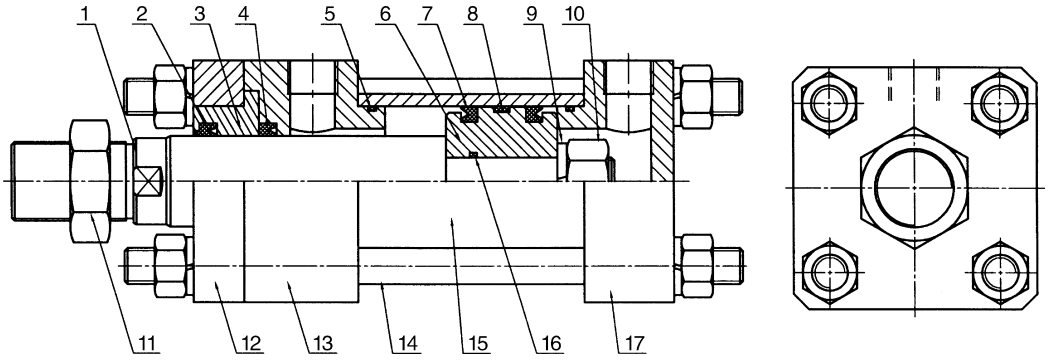
ϕ 40	ϕ 125
ϕ 50	ϕ 150
ϕ 63	ϕ 180
ϕ 80	ϕ 200
ϕ 100	

× **100** — Storke

FA — Mounting Type

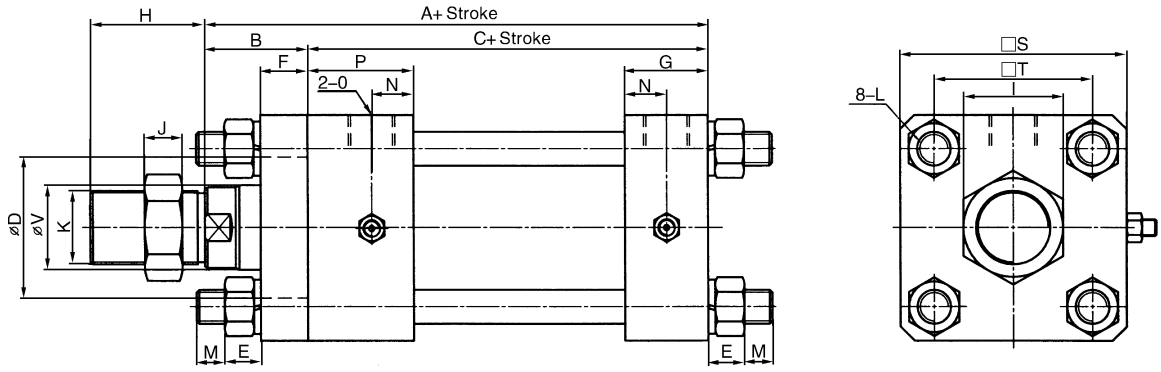
FA	CB
FB	LB
CA	TC

Inner Structure Drawing:



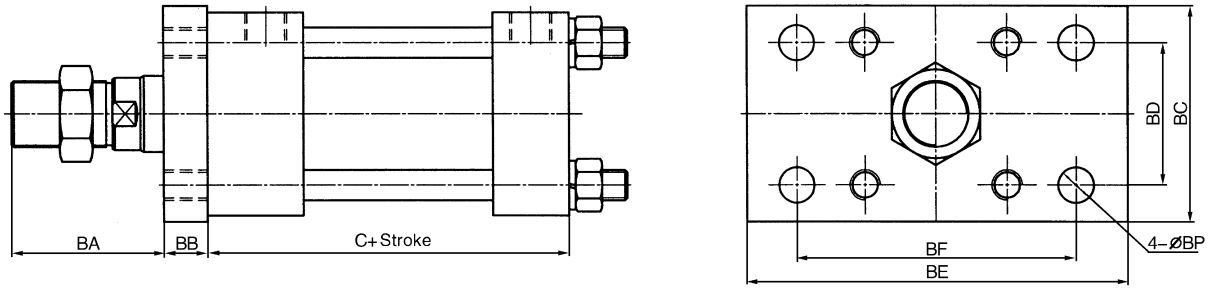
NO	Part name	Qty	NO	Part name	Qty	NO	Part name	Qty	NO	Part name	Qty
1	Piston rod	1	6	Piston	1	11	Rod nut	1	16	O-ring	1
2	Dustproof ring	1	7	Piston packing	2	12	Flange board	1	17	Rear cover	1
3	Copper cover	1	8	Guard seals	1	13	Front cover	1			
4	Rod packing	1	9	Spring washer	1	14	Rod	4			
5	O-ring	2	10	Nut	1	15	Tube	1			

Basic Type



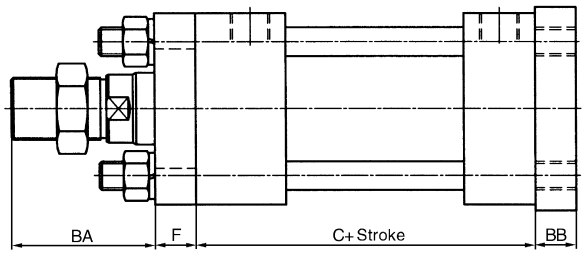
symbol/bore	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	S	T	V
40	148	37	111	40	10.5	17	28	40	32	13	M22 × 1.5	M10 × 1.25	10	13	G3/8	33	65	45	25
50	160	37	123	50	13	17	30	40	35	13	M26 × 1.5	M12 × 1.25	10	15	G3/8	38	80	56	30
63	160	37	123	50	14.5	17	30	45	41	13	M30 × 1.5	M14 × 1.25	10	15	G3/8	38	90	65	35
80	188	40	148	60	17	20	35	45	41	13	M30 × 1.5	M16 × 1.25	10	16	G1/2	38	110	80	40
100	213	45	168	80	19.5	20	37	55	55	15	M40 × 2	M18 × 1.5	10	16.75	G1/2	41	131	95	50
125	269	65	204	90	23.5	30	47	70	65	15	M50 × 2	M22 × 1.5	10	21.5	G3/4	57	162	122	60
150	265	65	200	110	31	30	50	80	90	20	M70 × 2	1" -8NUC	15	22.5	G3/4	60	195	144	80
180	315	75	240	135	39	40	55	100	110	20	M90 × 2	1.1/4" -8NUC	20	26	G1	65	235	175	100
200	325	80	245	135	39	40	60	100	110	20	M90 × 2	1.1/4" -8NUC	20	27.5	G1	65	262	193	100

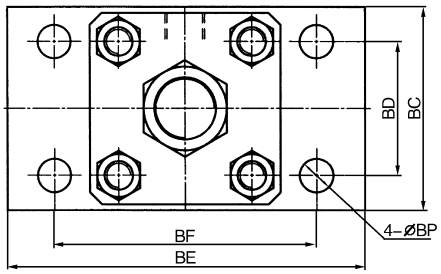
FA Dimension



symbol/bore	C	BA	BB	BC	BD	BE	BF	BP
40	111	60	17	75	50	115	93	12
50	123	60	17	85	56	150	110	14
63	123	45	17	95	68	155	126	14
80	148	45	20	120	75	190	152	18
100	168	55	20	140	100	220	180	20
125	204	70	30	170	122	280	222	24
150	200	80	30	206	155	310	260	28
180	240	100	40	250	188	375	315	35
200	245	100	40	272	207	425	355	35

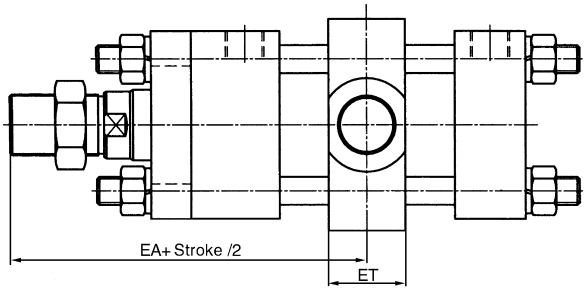
FB Dimension

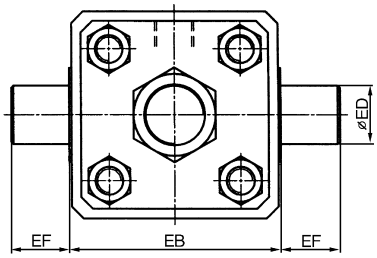




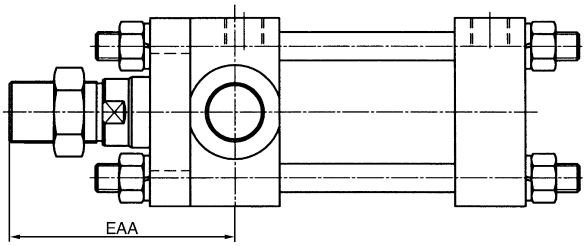
symbol/bore	C	F	BA	BB	BC	BD	BE	BF	BP
40	111	17	60	17	75	50	115	93	12
50	123	17	60	17	85	56	150	110	14
63	123	17	45	17	95	68	155	126	14
80	148	20	45	20	120	75	190	152	18
100	168	20	55	20	140	100	220	180	20
125	204	30	70	30	170	122	280	222	24
150	200	30	80	30	206	155	310	260	28
180	240	40	100	40	250	188	375	315	35
200	245	40	100	40	272	207	425	355	35

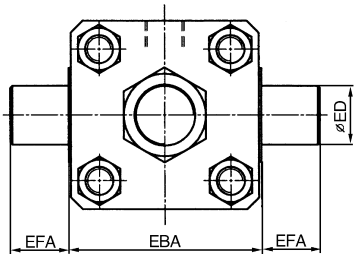
TC Dimension





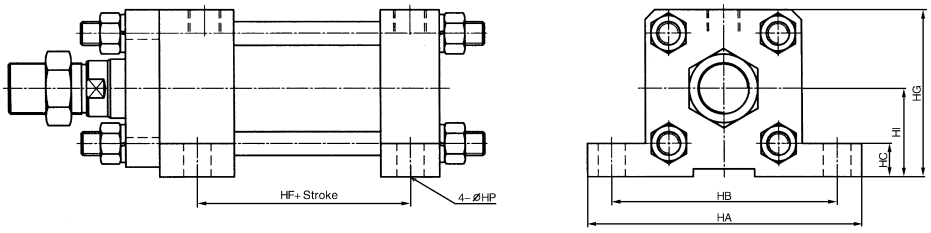
TA Dimension



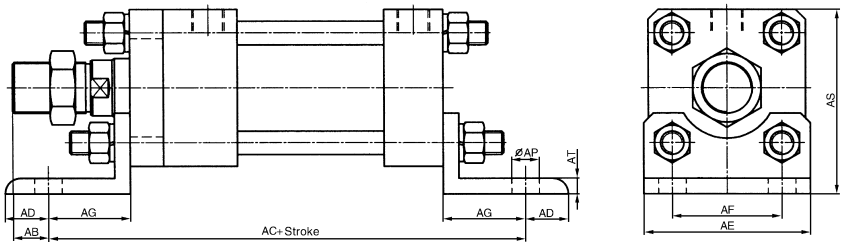


symbol/bore	EA	EB	ED	EF	ET	EAA	EBA	EFA
40	95	75	20	20	28	–	–	–
50	102.5	90	25	25	33	53.5	69	20
63	102.5	102	32	32	40	56	84	25
80	115.5	120	32	32	43	56	94	30
100	131	140	40	40	53	59	114	30
125	172	175	50	50	58	65.5	135	35
150	170	206	60	60	73	93.5	168	45
180	200	243	80	80	98	95	200	50
200	205	272	90	90	108	–	–	–

LA Dimension

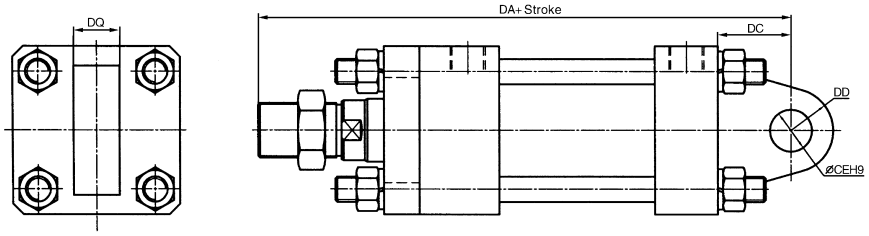


LB Dimension

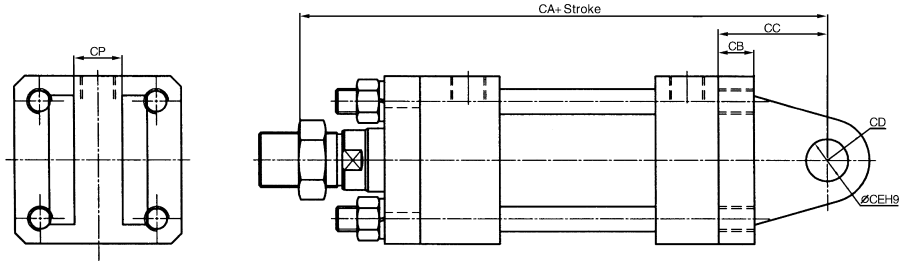


symbol/bore	AB	AC	AD	AE	AF	AG	AP	AS	AT	HA	HB	HC	HF	HG	HI	HP
40	22.5	203	12.5	68	45	37.5	11	78.5	6	112	90	14	80.5	69.5	37	12
50	18	224	22	85	56	42	14	94	8	140	115	17	89	85	45	14
63	21	228	22	95	62	44	16	102	8	156	128	19	89	95	50	14
80	2	29	27	120	80	63	18	131	13	184	152	25	111.5	115	60	18
100	14	320	24	140	100	66	20	158.5	15	210	178	27	129	135.5	70	21
125	25	394	30	169	122	80	24	195	15	280	230	30	152	171	90	24
150	35	390	30	200	144	80	28	220	20	325	270	35	145	208	113	28
180	45	460	40	240	175	90	35	267.5	20	395	330	45	180	260.5	143	35
200	45	475	54	265	193	95	35	301	25	430	360	50	182.5	292	161	35

CA Dimension



CB Dimension



symbol/bore	DA	DC	DD	Φ DE	DQ	CA	CC	CB	CD	Φ CE	CP
40	213	25	15	16	22	230	42	17	15	16	23
50	235	35	20	20	22	252	52	17	20	20	23
63	250	45	25	25	30	267	62	17	25	25	31
80	283	50	30	30	35	303	70	20	30	30	36
100	328	60	35	35	40	348	80	20	35	35	41
125	409	70	50	50	50	439	100	30	50	50	56
150	425	80	60	60	60	455	110	30	60	60	61
180	515	100	80	80	80	555	140	40	80	80	81
200	535	110	90	90	90	575	150	40	90	90	91

Light Oil Hydraulic Cylinder

Technical Parameter:

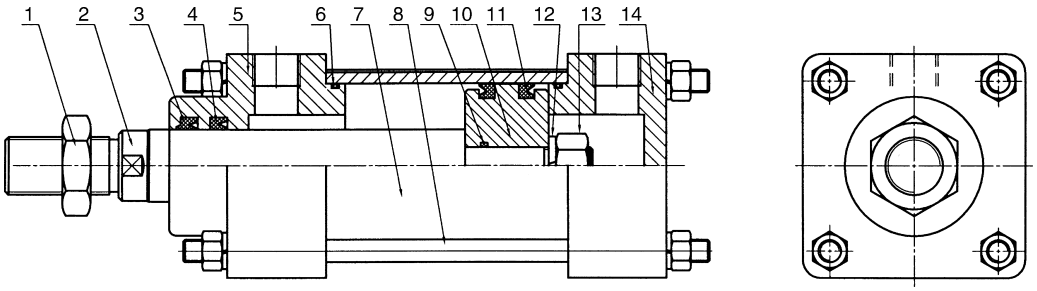
Hydraulic cylinder inside diameter(mm)	30	40	50	63	80	100	125
Fluid	Standard hydraulic pressure oil						
Material of steel Tube	Carbon steel pipe/Galvanized iron pipe/AL Tubre A6063 TDS-T5						
Operating Pressure range (Mpa)	0.3~0.7						
Ambient temperature (℃)	-10~60						
The range of speed (mm/sec)	8~300						
Standard Piston Length (PM)	30	30	30	30	35	50	50
Piston Length for stroke from 1501-2500mm (PM)	60	60	60	60	70	100	100
Piston Length for stroke from 2501-4000mm (PM)	120	120	120	120	140	150	150

How to order:

MOB | **63** × **100** | **FA**

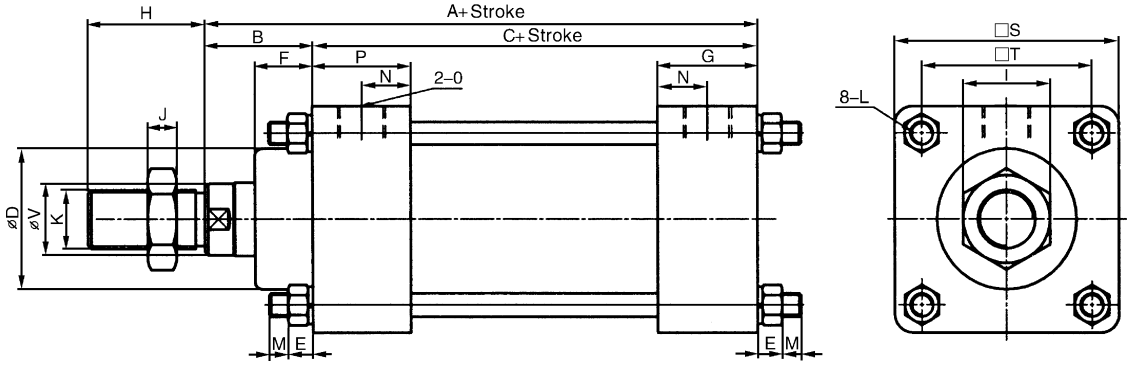
- MOB: MOB:Standard Type
- 63: Bore
  - ϕ 30, ϕ 40, ϕ 50, ϕ 63, ϕ 80, ϕ 100, ϕ 125
- 100: Storke
- FA: Mounting Type
  - FA, CB, FB, LB, CA, TC

Inner Structure Drawing:



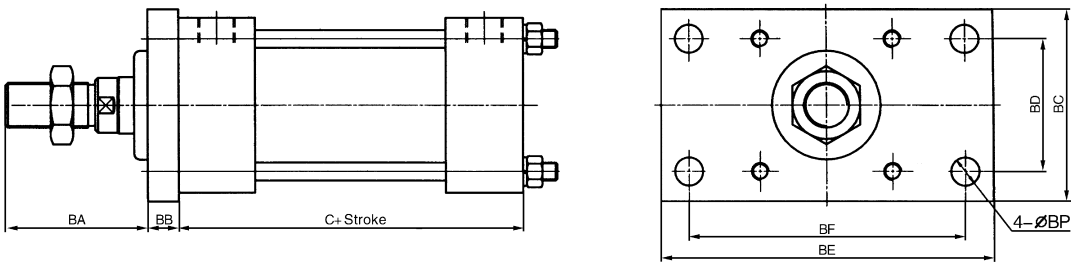
NO	Part name	Qty	NO	Part name	Qty	NO	Part name	Qty
1	Rod nut	1	6	O-ring	2	11	Piston packing	2
2	Piston rod	1	7	Tube	1	12	Spring washer	1
3	Dustproof ring	1	8	Rod	4	13	Nut	1
4	Rod packing	1	9	O-ring	1	14	Rear cover	1
5	Front cover	1	10	Piston	1	15		

Basic Type

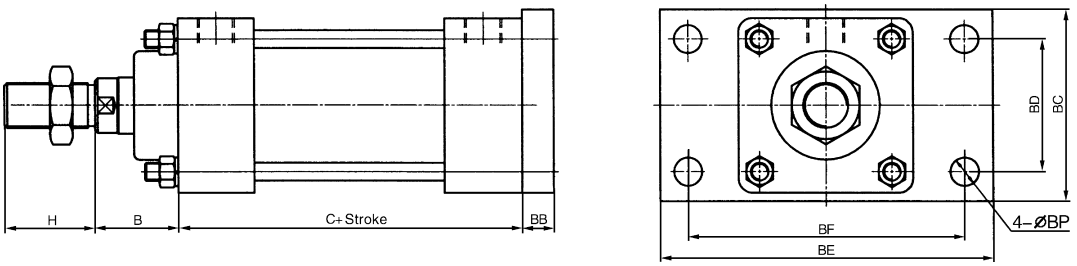


symbol/bore	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	S	T	V
30	128	28	100	30	8.5	15	25	28	22	8	M14 × 1.5	M8 × 1.25	8	12.5	G1/4	25	50	34	16
40	147	37	110	40	8.5	20	30	28	23.5	8	M16 × 1.5	M8 × 1.25	8	15	G3/8	30	64	45	20
50	145	37	108	45	10.5	20	28	28	23.5	8	M16 × 1.5	M10 × 1.25	10	14.5	G3/8	30	70	50	20
63	162	40	122	55	10.5	20	31	40	32	13	M22 × 1.5	M10 × 1.25	10	15.5	G3/8	31	85	60	25
80	179	52	127	62	13	32	35	40	35	13	M26 × 1.5	M12 × 1.5	10	18	G1/2	37	106	74	30
100	206	52	154	78	14.5	32	37	45	41	13	M30 × 1.5	M14 × 1.5	10	18.5	G1/2	37	122	89	35
125	216	56	160	85	17	31	41	55	55	15	M40 × 2	M16 × 1.5	10	20	G1/2	40	147	110	50

FA Dimension

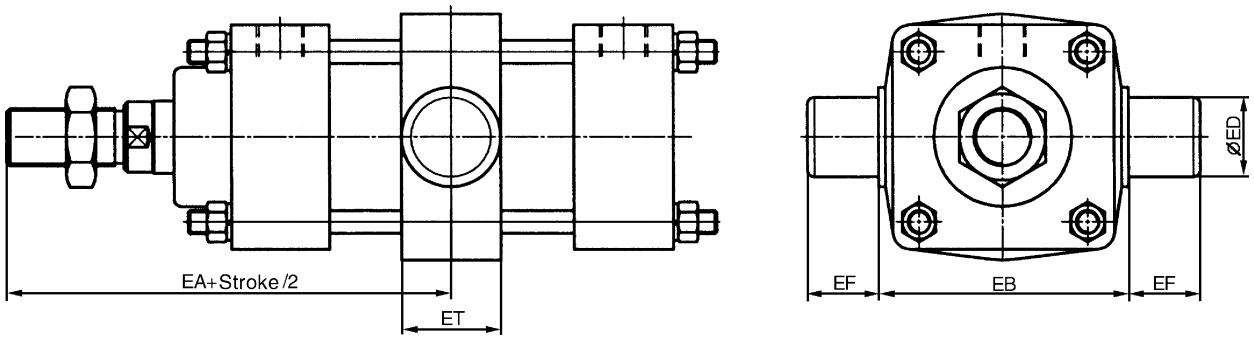


FB Dimension



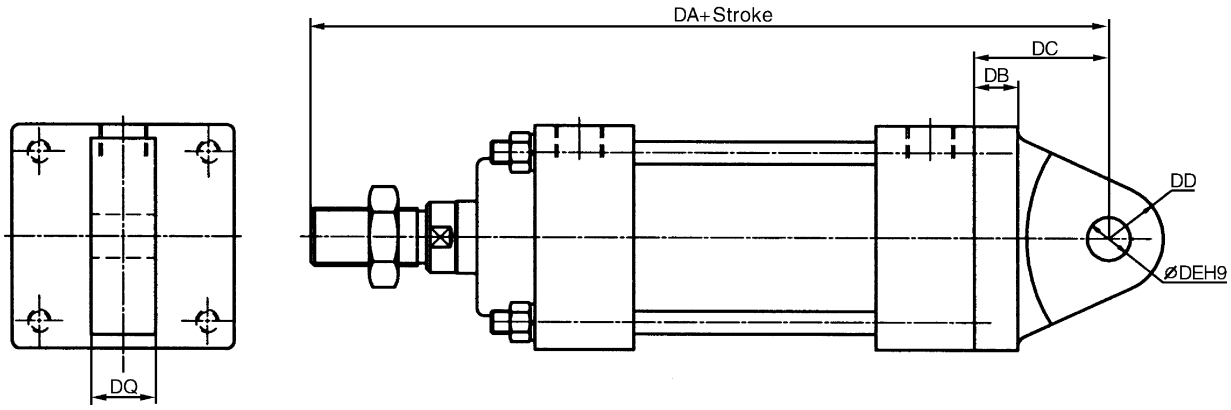
symbol/bore	B	C	H	BA	BB	BC	BD	BE	BF	BP
30	28	100	28	45	11	52	34	105	80	9
40	37	110	28	54	11	72	50	115	93	12
50	37	108	28	54	11	72	50	115	93	12
63	40	122	40	76	14	90	60	140	117	14
80	52	127	40	72	20	105	75	180	152	14
100	52	154	45	77	20	125	90	200	158	16
125	56	160	55	91	20	153	110	225	184	16

TC Dimension



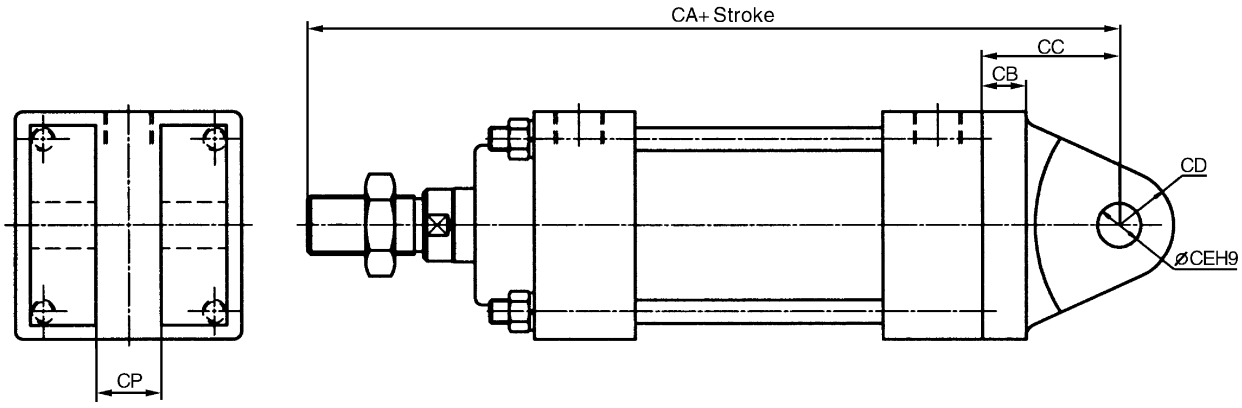
symbol/bore	EA	EB	ED	EF	ET
30	106	55	16	16	25
40	120	69	18	29	25
50	120	83	20	35	28
63	146	98	25	36	32
80	146.5	124	28	35	35
100	174	142	30	40	38
125	191	175	32	40	40

CA Dimension



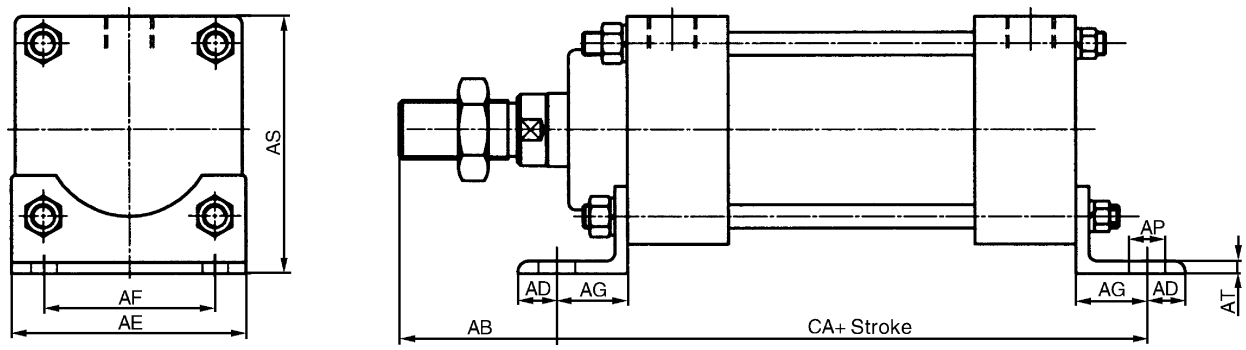
symbol/bore	DA	DB	DC	DD	Φ DE	DQ
30	187	11	31	10	10	16
40	211	11	36	13	12	22
50	209	12	36	13	12	22
63	252	19	50	24	20	30
80	287	18	68	30	30	30
100	324	18	73	35	35	35
125	344	18	73	35	35	35

CB Dimension



symbol/bore	DA	DB	DC	DD	Φ CE	CP
30	190	12	34	10	10	10
40	215	14	40	13	12	13
50	213	14	40	13	12	13
63	252	18	50	24	20	24
80	287	18	68	30	30	30
100	324	18	73	35	35	35
125	344	18	73	35	35	35

LB Dimension



symbol/bore	AB	AC	AD	AE	AF	AG	AP	AS	AT
30	28	156	10	53	34	28	9	60	5
40	27	186	12	68	45	38	9	77	6
50	27	184	12	73	50	38	11	81	6
63	42	188	12	88	60	38	11	96	6
80	56	199	14	105	74	36	13	113	6
100	49	250	27	127	89	48	16	139	9
125	60	262	24	150	110	51	18	161	9

Hydraulic Station

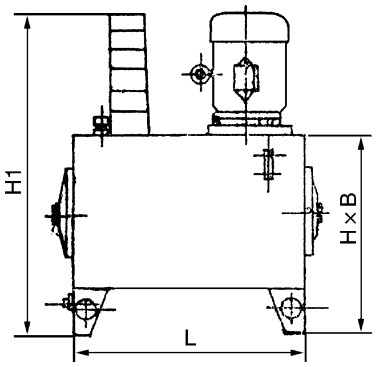
Product Introduction:

The hydraulic station have good performance

1.According system to config the chip ,or without chip.

2.Setup cooler,heater,Accumulator .

3.Electrical control devices can be set, but also run without the electrical control device.



Dimension:

Oil box capacity(L)	L	B	H
25	–	–	–
40	–	–	–
63	–	–	–
100	700	500	520
160	800	600	600
250	900	700	700
400	1000	800	850
530	1200	900	930
800	1300	1000	970

Hydraulic pressure pumping station type & Parameter:

Oil box capacity (L)	Pumping station type	Motor power (KW)	Oil pump pressure (Mpa)	Type	Oil box capacity (L)	Pumping station type	Motor power (KW)	Oil pump pressure (Mpa)	Type
25	Top Vertical Type	0.55	6.3	YZL25–D0.55	400	Top Vertical Type	2.2	6.3	YZL400–D2.2
40	Top Horizontal Type	0.55		YZL40–D0.55			3		YZL400–D3
		0.75		YZL40–D0.75			4		YZL400–D4
63	Top Vertical Type	0.75		YZL63–D0.75			4		YZL400–S4
		1.1		YZL63–D1.1			5.5		YZL400–S5.5
		1.5		YZL63–D1.5		Top Horizontal Type	4		YZW400–B4
100	Top Vertical Type	1.1		YZL100–D1.1			5.5		YZW400–B5.5
		1.5		YZL100–D1.5		Side Type	18.5	32	YZB400H–Z18.5
		1.5		YZL100–S1.5				20	YZB400F–Z18.5
		2.2		YZL100–S2.2				16	YZB400E–C18.5
	Top Horizontal Type	2.2		YZW100–B2.2	630	Top Vertical Type	5.5	6.3	YZL630–D5.5
160	Top Vertical Type	1.1		YZL160–D1.1			7.5		YZL630–D7.5
		1.5		YZL160–D1.5		Side Type	30	32	YZL630H–Z30
		2.2		YZL160–D2.2				20	YZL630F–Z30
		2.2		YZL160–S2.2				16	YZL630E–C30
		3		YZL160–S3	800	Top Vertical Type	7.5	6.3	YZL800–D7.5
	Top Horizontal Type	2.2		YZLW160–B2.2			11		YZL800–D11
		3		YZL160–B3		Side Type	40	32	YZB800H–Z40
250	Top Vertical Type	1.5		YZL250–D1.5				20	YZB800F–Z40
		2.2		YZL250–D2.2				16	YZB800E–C40
		3		YZL250–D3	1000	Top Horizontal Type	7.5	6.3	YZL1000–D7.5
		3		YZL250–S3			11		YZB1000–D11
		4		YZL250–S4			13		YZB1000–D13
	Top Horizontal Type	3		YZL250–B3				32	YZB1000H–Z30 × 2
		4		YZL250–B4				20	YZB1000F–Z30 × 2
	Side Type	13	32	YZL250H–Z–13				16	YZB1000E–C30 × 2
			12	YZL250F–Z–13	1250	Side Type	11	6.3	YZB1250–D11
			16	YZL250E–C–13			13		YZB1250–D13

Please read this safety notice carefully, pay attention to safety items while using this product, in order to prevent injury to human body and damage of property: thus, there are divided into three classes of "Danger" "Warning" and "Caution" according to the extend of prevention.

Danger:	Obviously situated at "Danger" state, may cause casualty if not avoided; take special safety protection and management to prevent the occurrence of "Danger"

Warning:	Condition of operation is situated at "Danger" state , may cause casualty if not avoided; take special safety protection and management to prevent the occurrence of "Danger"

Caution:	Condition of operation is situated at "Danger" state , may cause minor or moderate injury and damage of property if not avoided; take safety protection and management.

- For safety protection and prevention of accident, please understand the condition of application and know the design, installation, procedure of usage and essential safety condition before using this product.
- Please use within the specification and requirement of this product; application beyond the specification may cause hazard. In case of special condition of application, take the confirmation of safety into account and then use it; in case of doubt in reading this information and related data, contact us before using.
- It is hazardous in error assemble and operation of compressed air and its accessories; so while selecting the product, the related personnel of design, assemble, operating and service should possess sufficient knowledge and experience, and follow normal operating procedure, in order to maintain safe operation and good effect.

This product suitable for application in general industrial equipment; adhere to the following caution while designing, assembling using and maintenance.

Danger:

1.Please never use in following application

- Use in operation ,delivering and management of the appliance for the purpose of human life and body.
- Use in operation which rise obvious "Danger" and safety concern to human life and body
- Special for safety purpose ,situation with impact of safety to human life and body

2.Confirmation of safety shall avoid the following conditions which cause safety impact to human and damage of equipment

- Operation of machine, device should note to the drop of drop of driven object or race at the rotation radius and operation range cause injury of human and damage of equipment
- Operation of machine, device should note the air supply source and poor power supply and interruption and cause injury of human and damage of equipment
- When restarting the machine, device may cause object flying out and cause injury of human and damage of equipment

Warning:

1.Please never use in following situation

- in outdoor dusty condition
- Avoid chemical, corrosive and inflammable gas; avoid sea water, high temperature place in surrounding
- Exceed the condition in the specification of the product
- In the place tend to received rigorous shock impact, which affect the quality and stability of the product.

2.Please don't make any modification or disassemble to the structure, lunction of the product

3.Shut off the power switch and sir source properly before service and maintenance, avoid consequent hazard and damage of product.

4.Avoid consequent hazard and damage of product while assembling and operation.

Caution:

1.Pay attention to the cleanliness of the pipeline while laying the pipe, avoid dust, dirt and leak proof tape been sucked into the pipeline, affect the operation performance of the product

2.There are itemized cautions for various for various product, please contact our sale personnel if any doubt arouse.

- Please read the safety notice carefully before using and pay attention to the safety caution of this product
- Pay attention to the individual caution for various model series(read the cautions and safety notice in P1–2 for common cautions)

Caution for design, selection

⚠ Warning:

- PC transparent cup of the filter, oil applicator and the see through oil dripping device of oil applicator are made of PC plastic material, no synthetic oil, organic solvent, chemical, cutting oil, volatile gas and above mentioned conditions is allowed ,in order to avoid destruction of material and affect safety of application.
- If the selected plastic panel of the pressure meter for regulation valve is not suitable for spraying with organic solvent, please avoid possible panel damage of the pressure meter.

⚠ Caution:

- Avoid the place with impact or rigorous vibration when designing the device; avoid to be mounted out–door and environment presence with chemical and corrosive air.

Caution for assembling

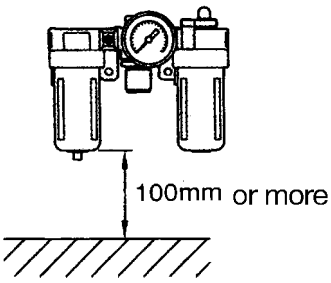
⚠ Danger:

- Pay attention to the direction of the air source while installing, never used in reversed air direction .
- Use spanner to tighten the pressure mater while installing ,never tighten with your hand holding the casing of the pressure meter to avoid damage of the pressure meter.
- Follow the torque in table below while laying the pipe (tighten the connector),never exceed the range of application to avoid damage of product.

- Torque chart for piping

Size	Appropriate turning torque N.m(kgf.cm)
G1/8	7–9(70~90)
G1/4	12~14(120~140)
G3/8	22~24(220~240)
G1/2	28~30(280~300)
G3/4	28~30(280~300)
G1	36~38(360~380)

- Bottom of cup downward



- Filter and lubricator should be mounted with correct direction(Bottom of cup downward as illustrated in figure A) to ensure the function of the product while using.
- Prevent debris and leak proof tape residue from entering the pipe while laying, if the connector is locked by using anoxic glue, avoid excessive amount and fluid glue form flowing in the body, which may cause jammed and poor movement.

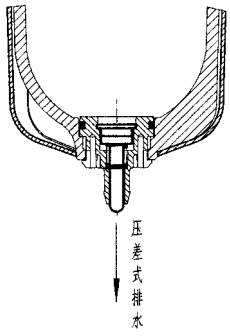
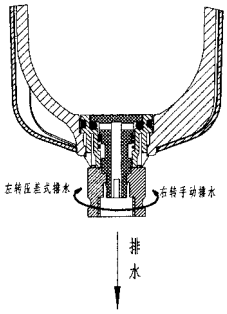
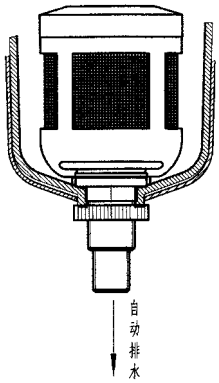
Caution for application

Danger:

- Don't remove the PC cup while running to avoid hazard; the press key of the PC cup should be locked in position and then air supply is allowed
- While top up oil to lubricator while running , shut off the air and then top up; air supply is allowed only after oiling and lock the oil plug.
- Caution for strainer of filter:

1. The pressure differential type strainer use only for pressure above 0.15mpa(1.5kgf/cm2)
2. Automatic float ball strainer use only for pressure above 0.1mpa(1.0kgf/cm2)
3. Care for the cleanliness of air and PC cup, avoid clogged by debris and dirt cause poor function of the strainer and leak

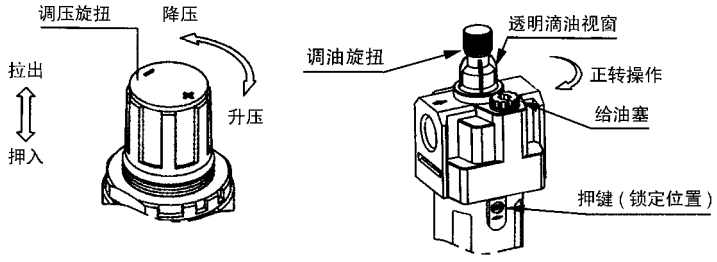
■ Operation and function of the drain cock

A	B	C
differential pressure type	Manual drain standard	Automatic drain option
Employs pressure differential for automatic drain, drain automatically when the air depletion and make up produce differential.	Also placed the left to be differential pressure type	Use float switch valve, drain automatically when water level over the float, close automatically after completely drain
		

- Hand turn the oil regulator oil ring of the regulator and oil applicator while operating , use no spanner , pliers tool to clamp, to prevent damage and affect safe operation.
- Lubricant of the oil applicator is tended to cause poor operation of the oil applicator and resulting in structure damage.
- Prevent backflow of reside at the end of the pipeline while stop operation, prevent the oil, water contain air in bleed pipe to flow back the device, cause blockage and damage.

Caution:

- The setting range of the secondary pressure of the pressure regulation valve use as 85% of primary pressure or below to achieve better pressure setting and regulation
- The swing button of the pressure regulator must be pulled before turning, increase pressure while turning in clockwise direction and vise versa to decrease. Press in and secure the swing button after operation. After turning to max value(either positive or reverse)(with no pressure variation anymore), don't turn by force or use tool to avoid damage.



- Align the scale of the transparent dripping device of the oil applicator to the pointer (protrusion) to regulate the oil fed amount, the feeding swing button allow one direction turning, operate in clockwise direction(positive), no counterclockwise direction(reverse) turning is allowed. The max and min oil amount value shall match the air use in adjustment.
- The density of element of filter is 5–20–m,the pipeline should maintain dry air, prevent excessive debris cause blockage and insufficient flow.

Caution for service and maintenance

Warning:

- Confirm the air line and power in turned off before serving, prevent injury and damage while disassem–bly for maintenance

Danger:

- The removal and installation of the element of the filter and oil applicator plug use hexagonal spanner; avoid to use toll in other maintenance, disassemble the internal part in unsuitable manner may cause poor performance of the and affect safe operation
- Replace the element of the filter is clogged or poor performance , avoid blockage and insufficient flow
- The PC cup of the filter and oil applicator suitable to wipe by cotton paper or wash with lure warm water and neutral household detergent ,avoid to use chemical which cause damage.
- After service and maintenance, check for all parts are tighten and position properly, and confirm the matching are save and no problem, and then start air supply.

● Please read the safety notice carefully before using and pay attention to the safety caution of this product
● Pay attention to the individual caution for various model series(read the cautions and safety notice in P1–2 for common cautions)

Caution for design, selection

Warning

- While designing the circuit , make thorough understanding to the characteristic of the compressed air and the application of this product.
- The air in use is compressed, please note that expandable and unstable pressure may fly out, burst out or leak.
- Beware of the fluid temperature, please follow the range defined by Specification Table (–5–60c)
- While designing and selecting the machine model, please consider the incorrect shift of the driven object caused by emergency or transient power interruption which may impair safety. When closing the machine model, please have the competence of controlling model, and the fixed position or automatic shift model during power interruption under consideration.
- Excessive water in the pipeline will cause malfunction of the solenoid valve, please install water removing filter at front end.
- Carbon powder chip and debris will occur when the air compressor is running ; malfunction of solenoid is possible when the attached amount is excessive. Filter is required to prevent jammed in side portion
- Requirement of ambient environment:

1.Avoid chemical, inflammable substance ,corrosive, sea water, and high temperature in working environent
2.Avoid application in place with heating and radiation heat.
3.follow the requirement of the Caution temperature range state in the Specification Table.
4.Prevent malfunction caused by freezing while used in cold place. Avoid expose under outdoor sunlight, dusty condition which may cause unstable quality.
5.Avoid application in places with oily, inflammable substance and explosion proof.

Caution

1.While intermediate stop position in three positions and used in pressure holding, beware of the impact of position change caused by pressure drop while there is leakage in air supply piping and change in air source.
2.Take care of the impact of leak current that may affect the normal operation of other controller under machine work. Therefore proper circuit protection device is necessary; also need to avoid the error action of the solenoid valve.

● Allowable values

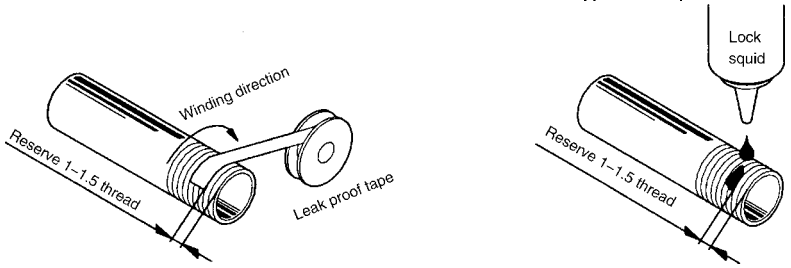
While used in DC12V	Below 1.5mA
While used in DC24V	Below 1.8mA
While used in AC100V	Below 1.5mA
While used in AC220V	Below 3.0mA

Caution for installation

Warning

- Caution for manner of installation :for the complex moving and three position model, please install in level.
- Prevent entrance of debris and dust foreign object into solenoid valve be fore pipe laying in order to prevent failure and error action.

● Prevent debris and leak proof tape residue from entering the pipe while pipe laying and assembling the connector . Reserve 1–1.5 thread not wound with winding the tape.



● If the connector is locked by using anoxic glue, avoid excessive amount and fluid glue from flowing in the body which may cause jammed and poor movement.

● Follow the torque in table below while laying the pipe(tighten the connector), never exceed the range of application to avoid damage of product.

● Torque chart for piping

Size of pipe	Appropriate turning torque N.m(kgf.cm)
M5	1.5~2(15–20)
G1/8	7–9(70~90)
G1/4	12~14(120~140)
G3/8	22~24(220~240)
G1/2	28~30(280~300)
G3/4	28~30(280~300)
G1	36~38(360~380)

● The exhaust of solenoid valve should be equipped with muffler to prevent excessive noise. If there is no muffler equipped, avoid to discharge the exhaust gas to peripheral and absorbed by foreign object; mount the exhaust pipe downward (avoid to face upward and suck in foreign object)

● Take cars for concentrated exhaust while manifold is used ,fail to discharge completely will cause back pressure and affect the switch and normal operation of solenoid valve

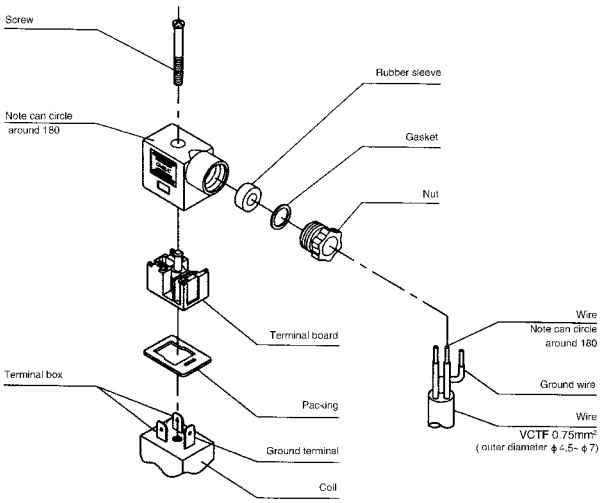
● Avoid the destruction of plastic material by water soluble solvent and coating equipment after installation, causing blockage and poor action

● When using manifold to secure the solenoid valve ,take care proper position of the manifold packing, and then tighten at both sides evenly to prevent leakage.

● Avoid lengthy distance between solenoid valve and piping; long pipeline will affect the activation effect and response.

Caution

● Connection of DIN terminal box
DIN terminal box is class IP67 water proof: please positioned and slot firmly when installing, there is no screw for tighten.



Caution for application

Warning

- Don’ t switch the solenoid valve with manual button while the solenoid valve is energized; resume to normal position after the manual button is operated.
- Never apply incorrect voltage to the coil of solenoid valve to prevent from damage.
- The energizing of the compound movement solenoid valve, the energizing time at least 0.1 second.
- Provide voltage stabilization to power supply, rate voltage supply within 10%,avoid surge.

Caution

- Heat dissipation should be take into consideration after long period energizing.
- Take special attention to intermittent air tight solenoid valve for leakage between solenoid valve and cylinder and cause error action and displacement.

Caution for service and maintenance

Warning

- Shut off the power switch and air source properly before service and maintenance, confirm that there is no residue pressure in the pipeline and start work after confirming the status is safe.
- The manual device(Series 3,6,8,9) of solenoid valve must be resumed to home (initial position) and confirm that all are reset and then start the normal operation is allowed.(There is no such concern for it is auto reset type), because if the power is turning on before confirming for reset to home will cause abnormal action and led to hazard.
- The assemble and disassemble of solenoid valve should be carried by personnel who is familiar with structure of the product who know well the internal structure and principle, avoid error disassemble and cause safety concern on operation and application.

Caution

- Keep the air source dry with moisture and debris, and pay attention for normal the front filter of the solenoid valve and strainer.
- Not oil is required for the solenoid valve as it is lubricated at assembly. In case of oiling is necessary, use ISOVG32 lubricant, consequent poor action if stop oiling (there is minor moisture in the air ;lubrication is required at fast moving condition.)
- Service and maintenance should be perform regularly as schedule, and confirm the normal operation of following:

  1.Is the compressed air supplied stably?

  2.Is the front filter of the solenoid valve and strainer normal?

  3.Is the connection portion or piping loosen accompany moving of object? Is the pipe connection portion normal?

  4.Is the action condition of the solenoid valve normal? Is there any delay and exhaust phenomena? Any strange noise?

  5.Whether the piping system connected to activator(or cylinder) normal? Terminal start and stop movement nor–mal ? Is the load system normal?

  6.Is the lubricant feeding system normal? Is the oil amount adjusted properly?

  7.Is the exhaust smooth? Any blockage? Are exhaust and speed normal?

Theoretical force output form、pressure mutual alculate form

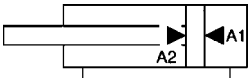
■ Cylinder force output:

$$F=P \times A-f$$

F: Cylinder force output(kgf)　　A: Piston area(cm^2)

P: Use pressure(kgf/cm^2)　　f : Friction resistance(kgf)

■ Cylinder theoretical force output form:



Bore(mm)			12	16	20	25	32	40	50	63	80
Axes Bore(mm)			6	6	8	10	12	16	20	20	25
Piston area(cm^2)		A1	1.1	2.0	3.1	4.9	8.0	12.6	19.6	31.2	50.3
		A2	0.8	1.7	2.6	4.1	6.9	10.6	16.5	28.0	45.4
Operating pressure (kgf/cm^2)	1	A1	1.1	2.0	3.1	4.9	8.0	12.6	19.6	31.2	50.3
		A2	0.8	1.7	2.6	4.1	6.9	10.6	16.5	28.0	45.4
	2	A1	2.3	4.0	6.3	9.8	16.1	25.1	39.3	62.3	100.5
		A2	1.7	3.5	5.3	8.2	13.8	21.1	33.0	56.1	90.7
	3	A1	3.4	6.0	9.4	14.7	24.1	37.7	58.9	93.5	150.8
		A2	2.5	5.2	7.9	12.4	20.7	31.7	49.5	84.1	136.1
	4	A1	4.5	8.0	12.6	19.6	32.2	50.3	78.5	124.7	201.1
		A2	3.4	6.9	10.6	16.5	27.6	42.2	66.0	112.1	181.4
	5	A1	5.7	10.1	15.7	24.5	40.2	62.8	98.2	155.9	251.3
		A2	4.2	8.6	13.2	20.6	34.6	52.8	82.5	140.2	226.8
	6	A1	6.8	12.1	18.9	29.5	48.3	75.4	117.8	187.0	301.6
		A2	5.1	10.4	15.8	24.7	41.5	63.3	99.0	168.2	272.1
	7	A1	7.9	14.1	22.0	34.4	56.3	88.0	137.4	218.2	351.8
		A2	5.9	12.1	18.5	28.9	48.4	73.9	115.5	196.2	317.5
	8	A1	9.0	16.1	25.1	39.3	64.3	100.5	157.1	249.4	402.1
		A2	6.8	13.8	21.1	33.0	55.3	84.4	131.9	224.2	362.8
	9	A1	10.2	18.1	28.3	44.2	72.4	113.1	176.7	280.5	452.4
		A2	7.6	15.6	23.7	37.1	62.2	95.0	148.4	252.3	408.2

Bore(mm)			100	125	160	200	200	250	250	320	400
Axes Bore(mm)			25	32	40	40	50	50	55	63	80
Piston area(cm^2)		A1	78.5	122.7	201.1	314.2	314.2	490.9	490.9	804.2	1256.6
		A2	73.6	114.7	188.5	301.6	294.5	471.2	471.2	773.1	1193.0
Operating pressure (kgf/cm^2)	1	A1	78.5	122.7	201.1	314.2	314.2	490.9	490.9	804.2	1256.0
		A2	73.6	114.7	188.5	301.6	294.5	471.2	467.1	773.1	1193.0
	2	A1	157.1	245.4	402.1	628.3	628.3	981.7	981.7	1608.4	2513.2
		A2	147.3	229.3	377.0	603.2	589.0	942.5	934.2	1546.1	2386.0
	3	A1	235.6	368.1	603.2	942.5	942.5	1472.6	1472.6	2412.7	3769.8
		A2	220.9	344.0	565.5	904.8	883.5	1413.7	1401.3	2319.2	3579.0
	4	A1	314.2	490.9	804.2	1256.6	1256.6	1963.4	1963.4	3216.9	5026.4
		A2	294.5	458.7	754.0	1206.3	1178.1	1884.9	1868.4	3092.2	4771.9
	5	A1	392.7	613.6	1005.3	1570.8	1570.8	2454.3	2454.3	4021.1	6283.0
		A2	368.1	573.4	942.5	1507.9	1472.6	2356.1	2335.5	3865.3	5964.9
	6	A1	471.2	736.3	1206.3	1884.9	1884.9	2945.2	2945.2	4825.3	7539.6
		A2	441.8	688.0	1130.9	1809.5	1767.1	2827.4	2802.6	4638.3	7157.9
	7	A1	549.8	859.0	1407.4	2199.1	2199.1	3436.0	3436.0	5629.6	8796.2
		A2	515.4	802.7	1319.4	2061.6	2061.6	3298.6	3269.7	5411.4	8350.9
	8	A1	628.3	981.7	1608.4	2513.2	2513.2	3926.8	3926.9	6433.8	10052.8
		A2	589.0	917.4	1507.9	2356.1	2356.1	3769.8	3736.8	6184.4	9543.9
	9	A1	706.8	1104.4	1809.5	2827.4	2827.4	4417.7	4417.7	7238.0	11309.4
		A2	662.7	1032.1	1696.4	2650.6	2650.6	4241.0	4203.9	6957.5	10736.9

Note: Above all are theory datas,so before operation,please pay attention to the the friction force and the mechanical effiency,and also calculate the actual figures

Please read the safely notice carefully before using and pay attention to the safety caution of this product

- Pay attention to the individual caution for various model series(read the cautions and safety notice in p1–2 for common cautions)

Caution for design, selection

Warning:

- Make thorough understanding to the characteristic of the compressed air and the application of this product while designing circuit
- Please use only the fluid stated on the catalog, don't use the fluid other than limited ,in order to prevent damage of product and affect the operation safely
- The air used is compressed air ,please note that expandable and unstable pressure will fly out ,burst out, or leak.
- Please used as per specification and within the specified conditions ;use secede the specification may cause hazard. please used as per the specification stated on the catalog, exceeding the pressure beyond the specification ,temperature and condition will cause poor action and affect the operation safely.
- Due to the mechanical design with the variation of wobbling movement of the cylinder, please pay attention flying objects and possible crash hazard of you limbs, resulting in body injury and mechanical damage and so on ;so ,take precaution upon designing.
- The movable range of cylinder may contact our body and cause injury, should be protected by safety guard to prevent direct contact body hazard.
- For larger mechanism or long stroke object ,the selected cylinder must equip with buffer device and provide with deceleration circuit to reduce and sooth the rigid impact of the mechanism device.
- Take the emergency or transient cut off power source .or power failure, air source circuit pressure drop causing holding force drop ,vertical movement slip and resulting in damage of mechanical device ,and human safety into account upon designing. so safety countermeasure should be taken in design.
- Take the driving mechanism and circuit control system combination into account upon design to avoid residue pressure in circuit .failure to completely positioning and lateral pressurized and other factors may cause high speed fly out of the object .these situations are very possible to cause body injury limbs crashed ,and damage of mechanism. countermeasure of protective circuit is necessary.
- Emergency stop device for mechanism is essential in case of malfunction, in addition to protective device. emergency stop device should be provided in order to prevent body injury and damage of equipment
- Re–start after emergency stop should confirm safety position of all mechanism, avoid interference and impact due to error position ,affect human body and damage the equipment ,there should have safety precaution countermeasure for restarting after emergency stop upon design.
- While applying three positions intermediate stop control in cylinder. Take the expansion property of air and low hydraulic operation ,the precise intermediate position difficulty into account for long period stop position ,consider the displacement cause by air leak ; please contact the sale unit of us in case of special application .

● Requirement of peripheral environment:

1. avoid to be used in environment with chemical, inflammable. corrosive and sea water, high temperature;
2. avoid to be used in the place with heating and irradiative heat.
3. follow the requirement stated in the specification for ambient temperature;
4. prevent poor action cause by frozen while use in cold climate;
5. avoid the environment in outdoor with sun and dusty place, which cause unstable in quality ;
6. avoid to be used in oily, inflammable and explosion pool place.

Caution:

● Prevent debris and dust from entering the cylinder while laying .which may cause failure and poor movement

● The use of cylinder should follow the principle of not exceeding max , stroke prevent the momentum force impact the front and rear cap of the piston.

● The in/outlet of the cylinder should be equipped with governor for controlling the traveling speed of the cylinder . it is preferable to control the cylinder by check out .

● The cylinder with long stroke should design with intermediate support, arbor and cylinder tube, if support on one side will cause static load deflection . in case of shock and loaded may tend to damage.

● Plural cylinder device't imultaneous moving structure, should be designed with guide rod to prevent interference and poor action.

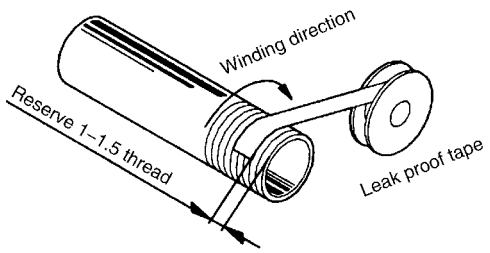
● The axis of the cylinder should move consistence with load , no lateral load is allowed and will cause surface worm and damage of the arbor, and make the shaft seal packing damage resulting in leakage and poor action.

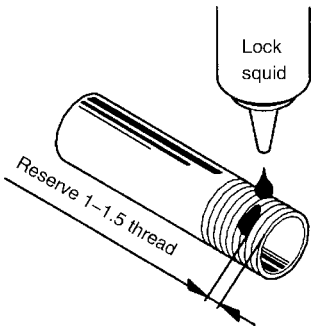
● At the portion of external guide rod or shaft end connection object , the shaft end connection must avoid connection interference . it is preferable to connect to floating coupling or angular adjustable device. Prevent damage cause by imbalance action and single side rubbing .

● The inner wall of cylinder and arbor are precise machine, avoid scratch and knock to this portion , especially damage of the outer tube of the cylinder tube will lead to deformation of tube wall, this is the cause of malfunction and damage of cylinder.

● The cylinder is equipped with adjustment of buffer device , it should be adjusted according to the actual moving speed and max . load condition , the adjustment of the needle valve of the buffer device should be in full close , this will cause the damage of buffer packing .

● Prevent debris and leak proof tape residue from entering the pipe while pipe laying and assembling the connec–tor reserve 1–1.5 thread not wound with tape while winging the tape.



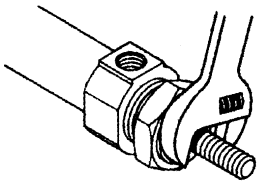


- If the connector is locked by using anoxic glue , avoid excessive amount and fluid glue from flowing in the body . which may cause jammed and poor movement.
- Caution for installation and application of sensor
  1.confirm the specification and voltage value before usage:
  2.the fixation of tie band shouldn't be tilted and skew angled.
  3.when the sensor is connected to load with length of wire exceed 10m, equip one extra induction sensor nearby the sensor in order to prevent pulse and prevent contact tail to release .
  4.please don't exceed the specified voltage and current.
  5.add protective circuit when connected to induction load.
  6.if the lead wire of the solenoid switch is pulled by force. Twisted. wobbled or put heavy object on top . serious condition will cause short and damage of mechanism.
  7.there is 0.5m error between responses of solenoid switch .
- please be careful and check all parts for securing before operation.

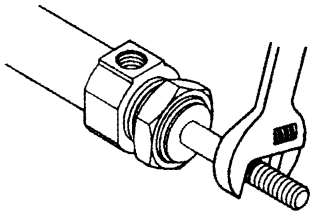
Caution for service and maintenance

Warning:

- Shut off the power switch and air source properly before service and maintenance, confirm that there is no residue pressure in the pipeline and start work after confirming the status is sate.
- The cylinder is coated with small amount of oil at initial using state; it will decrease after a period of usage. And should be added up with appropriate amount of oil according to actual application condition. Lubricant is essential in high speed moving ,limit to use iso-vg32 lubricant, feed by oil applicator, may cause poor action it stop oiled when it is required.
- While removing the cylinder shaft end , it shall work at position with piston pushing in the cylinder(don't pull the cylinder shaft out to serve installing and removing turning),and apply the force evenly to tighten in balance, and push by hand to confirm there is no interference and then start to supply air.



○ Correct



× Incorrect

- Service and maintenance should be perform regularly as schedule, and confirm the normal operation of following:
  1.Is the compressed air supplied stably?
  2.Is the front filter and strainer normal?
  3.Is the connection portion or piping loosen accompany moving of object? Is the pipe connection portion normal?
  4.Is the action condition of the cylinder normal ? Is there any delay phenomena and exhaust normal? Any strange noise?
  5.Whether the piping system connected to solenoid valve (governor) normal ?Terminal start and stop movement normal? Is the load system normal?
  6.Is the lubricant feeding system normal? Is the oil amount adjusted properly?