

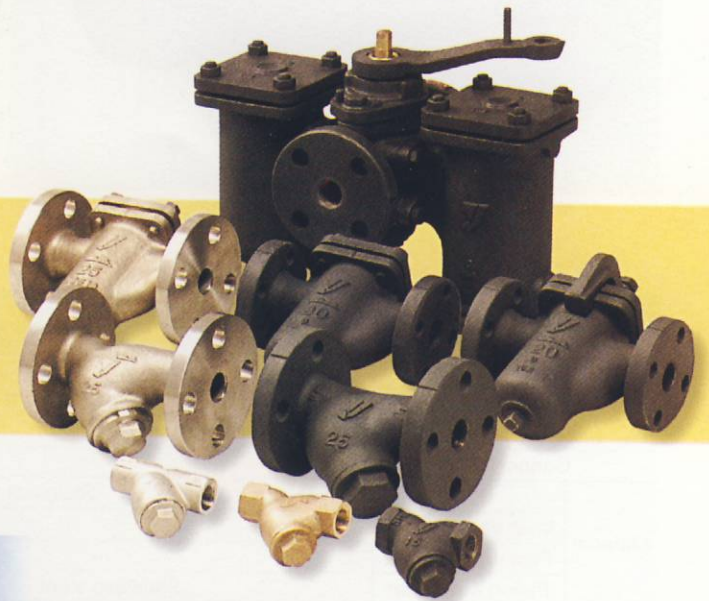


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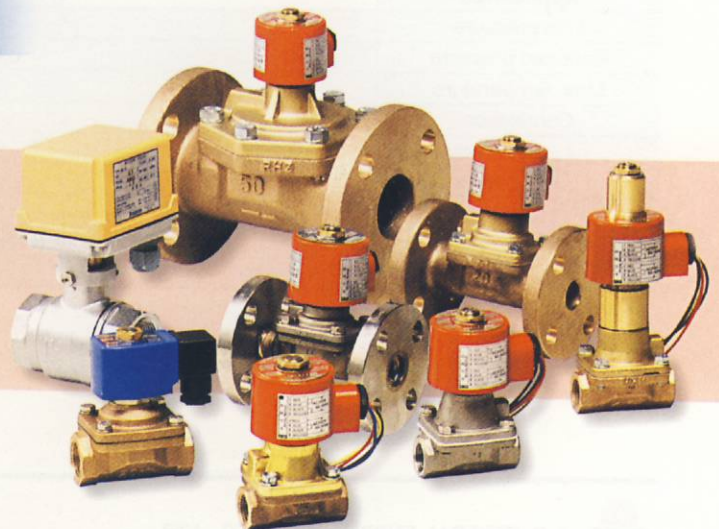
Safety Relief Valves

Strainers



Pressure Reducing Valves

Solenoid Valves



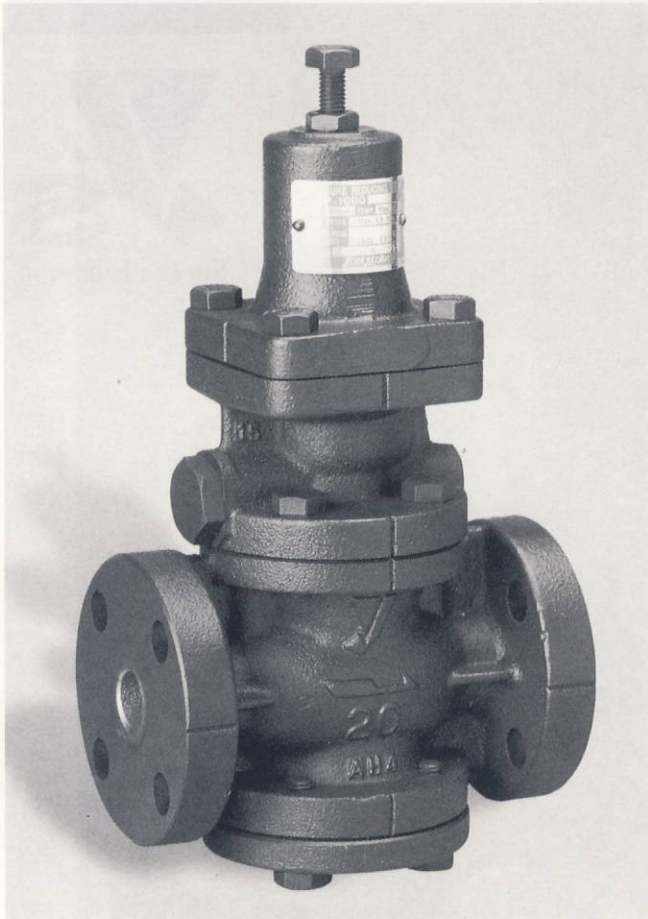
GP-1000 Series



Steam

Air

Pressure reducing valve



GP-1000

- Pilot operated piston type
- Superior durability
- Stable performance
- Valve leakage meets ANSI class IV
- High reduction ratio (20 : 1)
- Wetted parts stainless steel (GP-1000SS, 1200SS, 1000TSS, 1200TSS)
- All stainless steel (GP-1000AS, 1000TAS)
- Air-loaded type for remote control (GP-1200 series)

Model	GP-1000
Application	Steam
Inlet pressure	0.1~1.0MPa {1.0~10kgf/cm ² G}
Reduced pressure	0.05~0.9MPa {0.5~9.0kgf/cm ² G}
Max. temperature	220°C
Connection	JIS 10K FF Flanged
Material	Body : Ductile cast iron
	Main valve & seat : Stainless steel
	Pilot valve & seat : Stainless steel
	Piston & Cylinder : Brass or bronze
Size	1/2"~4"

Model	GP-1000S	GP-1000SS	GP-1000AS	GP-1200	GP-1200S	GP-1200SS
Application	Steam					
Inlet pressure	0.1~1.0MPa {1.0~10kgf/cm ² G}					
Reduced pressure	0.05~0.9MPa {0.5~9.0kgf/cm ² G}					
Max. temperature	220°C					
Connection	JIS 10K FF flanged					
Material	Body	Ductile cast iron	Stainless steel		Ductile cast iron	Stainless steel
	Main valve & seat	Stainless steel				
	Pilot valve & seat	Stainless steel				
	Piston & cylinder	Stainless steel		Brass or bronze	Stainless steel	
Size	1/2"~4"	1/2"~4"		1/2"~4"	1/2"~4"	

Model	GP-1000T	GP-1000TS	GP-1000TSS	GP-1000TAS	GP-1200T	GP-1200TS	GP-1200TSS
Application	Air, Non-corrosive gases						
Inlet pressure	0.1~1.0MPa {1.0~10kgf/cm ² G}						
Reduced pressure	0.05~0.9MPa {0.5~9.0kgf/cm ² G}						
Max. temperature	80°C						
Connection	JIS 10K FF flanged						
Material	Body	Ductile cast iron	Stainless steel		Ductile cast iron	Stainless steel	
	Main valve & seat	NBR & Stainless steel					
	Pilot valve & seat	NBR & Stainless steel					
	Piston & cylinder	Brass or bronze	Stainless steel		Brass or bronze	Stainless steel	
Size	1/2"~4"	1/2"~4"		1/2"~4"	1/2"~4"		



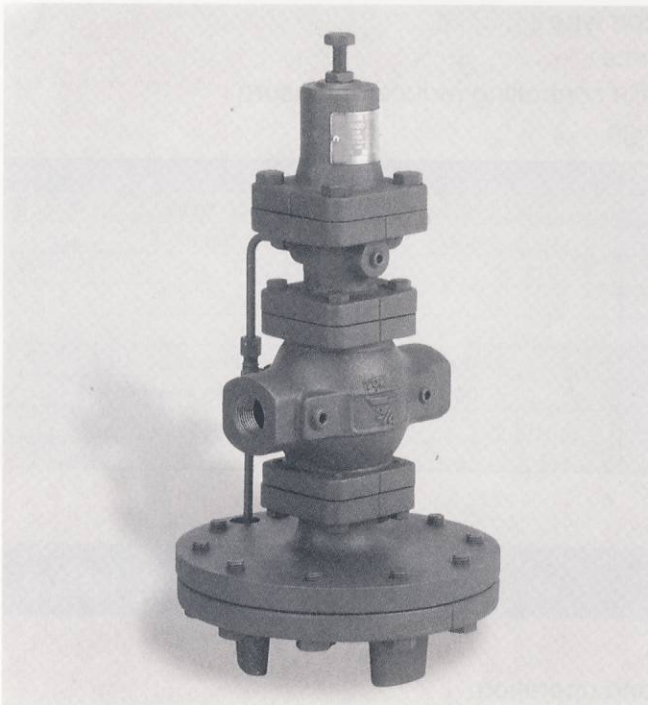
Y.O. GENERAL SUPPLY (1983) CO., LTD.

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GP-2000



Pressure reducing valve



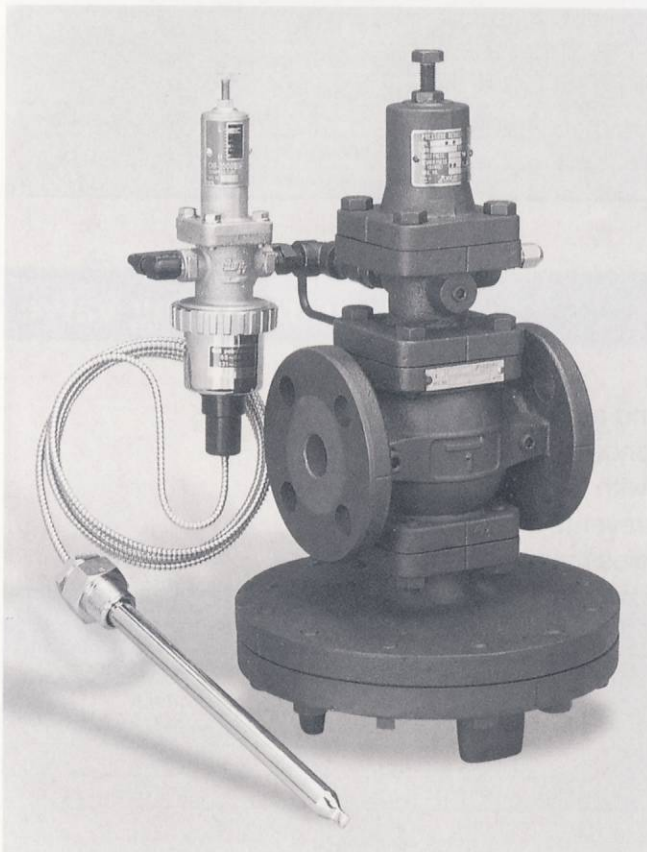
- Pilot operated diaphragm type
- Far superior capacity and performance
- Stable reduced pressure control
- Valve leakage meets ANSI class IV
- High reduction ratio (20 : 1)

Application	Steam
Inlet pressure	0.1~2.0MPa {1.0~20kgf/cm ² G}
Reduced pressure	(A) 0.02~0.15MPa {0.2~1.5kgf/cm ² G}
	(B) 0.1~1.4MPa {1.0~14kgf/cm ² G}
Max. temperature	220°C
Connection	Scrd : JIS Rc (PT) screwed
	Flgd : JIS 20K RF, JIS 10K FF flanged
Material	Body : Ductile cast iron
	Main valve & seat : Stainless steel
	Pilot valve & seat : Stainless steel
Size	Diaphragm : Stainless steel
	Scrd : 1/2"~2" Flgd : 1/2"~8"

GP-2000 Series



Combination valves



CP-2005

CP-2001, 2002, 2003, 2004, 2006

Application	Steam
Inlet pressure	0.1~1.0MPa {1.0~10kgf/cm ² G}
Reduced pressure	(A) 0.02~0.15MPa {0.2~1.5kgf/cm ² G}
	(B) 0.1~0.85MPa {1.0~8.5kgf/cm ² G}
Max. temperature	183°C
Operation	Normally closed, Normally opened
Rated voltage	AC100V, 110V, 200V, 220V
Connection	Scrd : JIS Rc (PT) screwed
	Flgd : JIS 10K FF flanged
Size	Scrd : 1/2"~2"
	Flgd : 1/2"~4"

CP-2005

Application	Heating : Steam
	Heated : Water, Oil, Liquids
Inlet pressure	0.1~2.0MPa {1.0~20kgf/cm ² G}
Reduced pressure	(A) 0.02~0.15MPa {0.2~1.5kgf/cm ² G}
	(B) 0.1~1.4MPa {1.0~14kgf/cm ² G}
Max. temperature	220°C
Max. Press. for bulb	1.0MPa {10kgf/cm ² G}
Temp. regulating range	-8~183°C
Connection	Scrd : JIS Rc (PT) screwed
	Flgd : JIS 20K RF, JIS 10K FF flanged
Size	Scrd : 1/2"~2"
	Flgd : 1/2"~4"



GP-27

1.0 MPa

Steam

Pressure reducing valve



- Pilot operated piston type
- Reliable performance
- Large capacity while controlling reduced pressure
- Wide pressure range

Application	Steam
Inlet pressure	0.1~1.0MPa {1.0~10kgf/cm ² G}
Reduced pressure	0.03~0.8MPa {0.3~8.0kgf/cm ² G}
Max. temperature	220°C
Connection	JIS 10K FF flanged
Material	Body : Cast iron
	Main valve & seat : Stainless steel
	Pilot valve & seat : Stainless steel
Piston & cylinder : Bronze	
Size	5"~8"

GD-6N·6

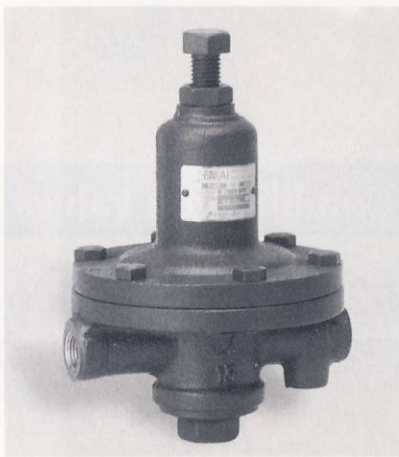
1.0 MPa

Steam

Air

Water

Pressure reducing valve



GD-6N

- Direct-acting type
- Easy installation and operation
- Integral strainer prevents dirt problem

Model	GD-6N	GD-6
Application	Steam	Water, Air, Oil, Non-corrosive fluids
Inlet pressure	Max. 1.0MPa {10kgf/cm ² G}	
Reduced pressure	(A) 0.02~0.1MPa {0.2~1.0kgf/cm ² G}	
	(B) 0.1~0.4MPa {1.0~4.0kgf/cm ² G}	
Max. temperature	220°C	80°C
Connection	JIS Rc (PT) screwed	
Material	Body	Cast iron
	Valve & seat	Stainless steel
	Diaphragm	FKM & brass or bronze
Size	3/8"~1"	

GD-30·30S

Steam

Air

Pressure reducing valve



GD-30

- Direct-acting type
- Small, compact and advanced design
- Superior performance and durability
- Easy adjustment with handle
- Integral strainer prevents dirt problem
- Wetted parts stainless steel (GD-30S)

Model	GD-30	GD-30S
Application	Steam, Air	Steam
Inlet pressure	Max. 1.7MPa {17kgf/cm ² G}	Max. 2.0MPa {20kgf/cm ² G}
Reduced pressure	(A) 0.02~0.1MPa {0.2~1.0kgf/cm ² G}	
	(B) 0.05~0.4MPa {0.5~4.0kgf/cm ² G}	
	(C) 0.35~1.0MPa {3.5~10kgf/cm ² G}	
Max. temperature	210°C	220°C
Connection	JIS Rc (PT) screwed	
Material	Body	Bronze
	Valve & seat	Stainless steel
	Bellows	Phosphor bronze
Size	1/2"~1", 1-1/2", 2"	1/2"~1"

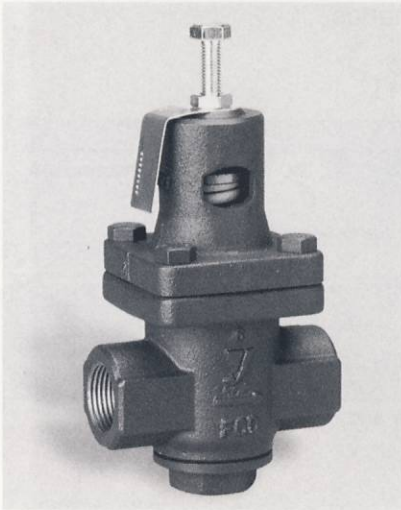


GD-45

2.0 MPa

Steam

Pressure reducing valve



- Direct-acting type
- Small and compact
- Superior performance and durability
- Easy installation and operation
- Integral strainer prevents dirt problem.

Application	Steam
Inlet pressure	Max. 2.0MPa {20kgf/cm ² G}
Reduced pressure	(A) 0.02~0.1MPa {0.2~1.0kgf/cm ² G}
	(B) 0.05~0.4MPa {0.5~4.0kgf/cm ² G}
	(C) 0.35~1.0MPa {3.5~10kgf/cm ² G}
Max. temperature	220°C
Connection	JIS Rc (PT) screwed
Material	Body : Ductile cast iron
	Valve & seat : Stainless steel
	Bellows : Phosphor bronze
Size	1/2"~1"

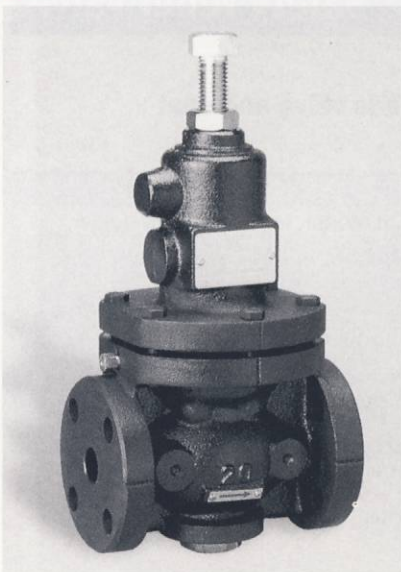
GD-200 Series

1.0/2.0 MPa

Air

Water

Pressure reducing valve



GD-200

- Direct-acting type
- Stable reduced pressure against fluctuation of inlet pressure because of pressure balance mechanism
- Nylon 11 coating both inside and outside of GD-200C body

Model	GD-200	GD-200H	GD-200C
Application	Water, Oil (Kerosene, Heavy oil A/B), Air, Non-corrosive fluids		
Inlet pressure	Max. 1.0MPa {10kgf/cm ² G}	Max. 2.0MPa {20kgf/cm ² G}	Max. 1.0MPa {10kgf/cm ² G}
Reduced pressure	1/2"~3" : (A) 0.05~0.25MPa {0.5~2.5kgf/cm ² G}		
	(B) 0.26~0.7MPa {2.6~7.0kgf/cm ² G}		
Max. temperature	4"~6" : (A) 0.05~0.25MPa {0.5~2.5kgf/cm ² G}		
	(B) 0.26~0.5MPa {2.6~5.0kgf/cm ² G}		
Connection	JIS 10K FF flanged	JIS 20K RF flanged	JIS 10K FF flanged
Material	Body : Ductile cast iron		
	Valve & seat : NBR & stainless steel		
	Diaphragm : NBR		
Size	1/2"~6"		

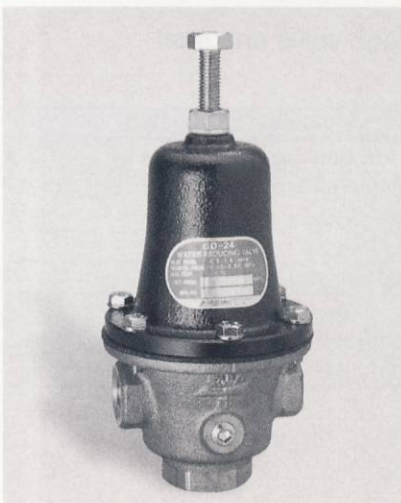
* Trim (Valve seat, Spindle) material [SUS316] is also available (GD-200HS).

GD-24

1.6 MPa

Water

Pressure reducing valve



- Direct-acting type
- Small and compact
- Superior performance and durability
- Easy installation and operation
- Integral strainer prevents dirt problem.

Application	Water
Inlet pressure	0.2~1.6MPa {2~16kgf/cm ² G}
Reduced pressure	0.05~0.55MPa {0.5~5.5kgf/cm ² G}
Max. temperature	80°C
Connection	JIS Rc (PT) screwed
Material	Body : Bronze
	Valve & seat : Brass & stainless steel
	Valve disc : Urethane rubber
	Diaphragm : NBR
Size	1/2"~2"

* Valve and cap made of bronze are also available (GD-24B).



AL-1·1T

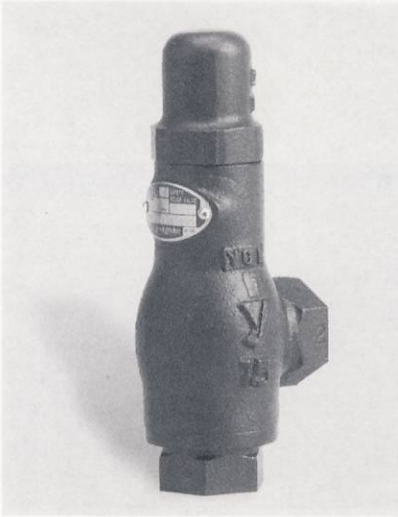


Steam

Air

Water

Safety relief valve



- Simple structure means easy maintenance.
- Easy adjustment
- Tight seal because of PTFE disc (AL-1T)

Model	AL-1	AL-1T
Application	Steam	Air, Oil, Water, Non-corrosive fluids
Pressure range	0.05~1.0MPa (0.5~10kgf/cm ² G) Refer to setting pressure range table (P.22)	
Max. temperature	220°C	150°C *
Connection	JIS Rc (PT) screwed	
Material	Body	Cast iron
	Valve & seat	Bronze PTFE & bronze
Size	1/2"~2"	

* Max. temperature is 120°C for liquids, such as water and oil.

AL-15·15H

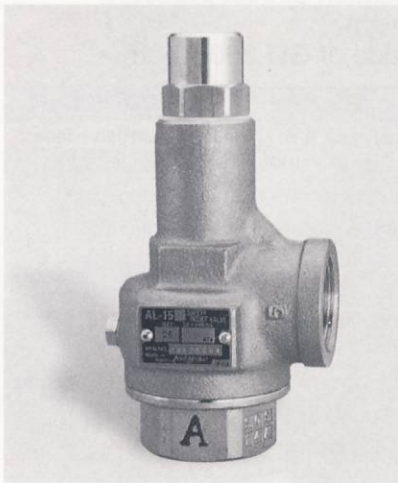


Steam

Air

Water

Safety relief valve



- Small and compact
- Superior durability due to stainless made valve and seat
- Blow-down pressure is adjustable.

Model	AL-15	AL-15H
Application	Steam, Air, Oil, Water, Non-corrosive fluids	
Pressure range	0.05~1.0MPa (0.5~10kgf/cm ² G) 1.0~1.6MPa (10~16kgf/cm ² G) Refer to setting pressure range table (P.22)	
Max. temperature	220°C *	
Connection	JIS Rc (PT) screwed	
Material	Body	Bronze
	Valve & seat	Stainless steel
Size	1/2"~2"	

* Max. temperature is 120°C for liquids, such as water and oil.

AL-15

AL-15L·15HL



Steam

Air

Safety valve



- Small and compact lever type
- Superior durability due to stainless made valve and seat
- Blow-down pressure is adjustable.

Model	AL-15L	AL-15HL
Application	Steam, Air, Non-corrosive gases	
Pressure range	0.05~1.0MPa (0.5~10kgf/cm ² G) 1.0~1.6MPa (10~16kgf/cm ² G) Refer to setting pressure range table (P.22)	
Max. temperature	220°C	
Connection	JIS Rc (PT) screwed	
Material	Body	Bronze
	Valve & seat	Stainless steel
Size	1/2"~2"	

AL-15L



AL-14·14H

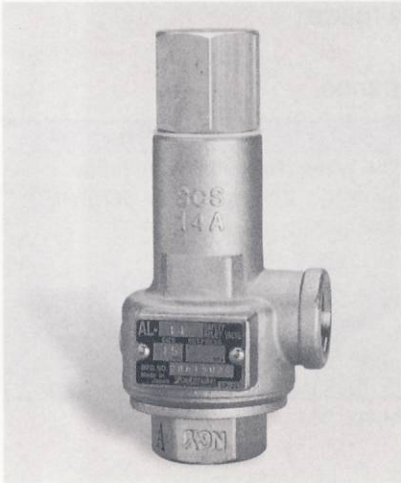


Steam

Air

Water

Safety relief valve



AL-14

- Superior durability due to all stainless made
- Simple structure means easy maintenance.
- Easy adjustment

Model	AL-14	AL-14H
Application	Steam, Air, Oil, Water, Non-corrosive fluids	
Pressure range	0.05~1.0MPa [0.5~10kgf/cm ² G]	1.0~2.0MPa [10~20kgf/cm ² G] Refer to setting pressure range table (P.22)
Max. temperature	220°C *	
Connection	JIS Rc (PT) screwed	
Material	Body	Stainless steel
	Valve & seat	Stainless steel
Size	1/2"~2"	

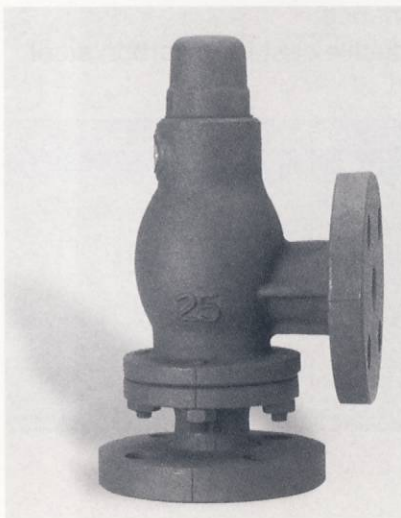
* Max. temperature is 120°C for liquids, such as water and oil.

AL-300·301



Steam

Safety valve



- Simple structure means easy maintenance.
- Easy adjustment

Model	AL-300	AL-301
Application	Steam	
Pressure range	0.05~1.0MPa [0.5~10kgf/cm ² G]	0.05~1.5MPa [0.5~15kgf/cm ² G] Refer to setting pressure range table (P.22)
Max. temperature	220°C	
Connection	JIS 10K FF, 16K FF flanged	
Material	Body	Ductile cast iron
	Valve & seat	Bronze
Size	1/2"~2"	

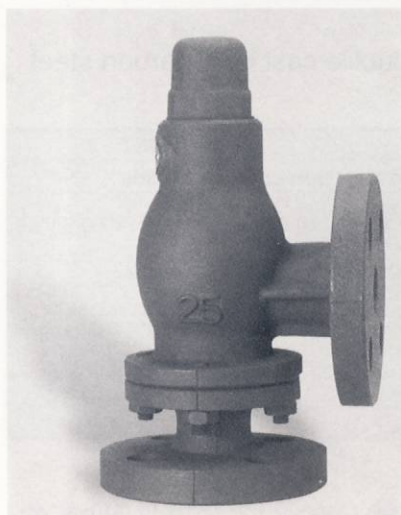
AL-300T·301T



Air

Water

Safety relief valve



- Simple structure means easy maintenance.
- Easy adjustment
- Tight seal because of PTFE disc

Model	AL-300T	AL-301T
Application	Air, Water, Oil, Non-corrosive fluids	
Pressure range	0.05~1.0MPa [0.5~10kgf/cm ² G]	0.05~1.3MPa [0.5~13kgf/cm ² G] *1 Refer to setting pressure range table (P.22)
Max. temperature	150°C *2	
Connection	JIS 10K FF, 16K FF flanged	
Material	Body	Ductile cast iron
	Valve & seat	PTFE & Bronze
Size	1/2"~2"	

*1 AL-301 is available for 1.3 to 1.5MPa.

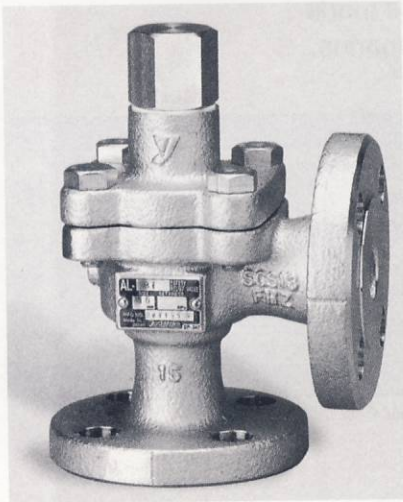
*2 Max. temperature is 120°C for liquids, such as water and oil.



AL-31·31H



Safety relief valve



- Superior durability due to all stainless made
- Small and compact
- Simple structure means easy maintenance.

Model	AL-31	AL-31H
Application	Steam, Air, Oil, Water, Non-corrosive fluids	
Pressure range	0.05~1.0MPa [0.5~10kgf/cm ² G]	1.0~2.0MPa [10~20kgf/cm ² G] Refer to setting pressure range table (P.22)
Max. temperature	220°C *	
Connection	JIS 10K RF flanged	JIS 16K, 20K RF flanged
Material	Body	Stainless steel
	Valve & seat	Stainless steel
Size	1/2"~2"	

* Max. temperature is 120°C for liquids, such as water and oil.

AL-4·4S



Safety valve



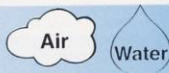
- Simple structure means easy maintenance.
- Line-up of body material : cast iron, ductile cast iron, carbon steel and stainless steel

Model	AL-4	AL-4S
Application	Steam	
Pressure range	0.05~1.0MPa [0.5~10kgf/cm ² G] *1 0.05~1.5MPa [0.5~15kgf/cm ² G] *1	0.05~2.0MPa [0.5~20kgf/cm ² G] Refer to setting pressure range table (P.22)
Max. temperature	220°C	
Connection	JIS 10K, 16K FF flanged	JIS 10K, 16K, 20K FF flanged
Material	Body	Ductile cast iron *2
	Valve & seat	Stainless steel
Size	2-1/2"~6"	2-1/2"~4"

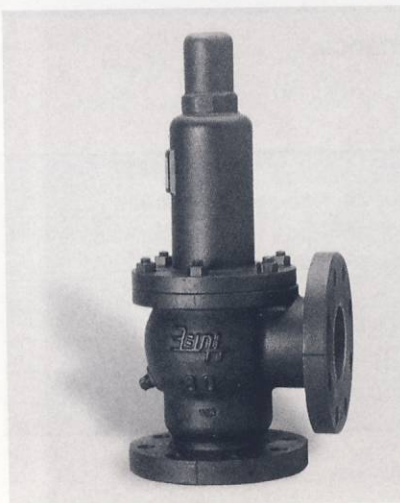
*1 Max. set pressure is 0.8MPa for 6" size.

*2 Carbon steel or stainless steel are also available.

AL-4T·4ST



Safety relief valve



- Simple structure means easy maintenance.
- Tight seal because of PTFE disc
- Line-up of body material : cast iron, ductile cast iron, carbon steel and stainless steel

Model	AL-4T	AL-4ST
Application	Air, Oil, Water, Non-corrosive fluids	
Pressure range	0.05~1.0MPa [0.5~10kgf/cm ² G] *1 0.05~1.5MPa [0.5~15kgf/cm ² G] *1	0.05~2.0MPa [0.5~20kgf/cm ² G] Refer to setting pressure range table (P.22)
Max. temperature	120°C	
Connection	JIS 10K, 16K FF flanged	JIS 10K, 16K, 20K FF flanged
Material	Body	Ductile cast iron *2
	Valve & seat	PTFE & stainless steel *3
Size	2-1/2"~6"	2-1/2"~4"

*1 Max. set pressure is 0.8MPa for 6" size.

*2 Carbon steel or stainless steel are also available.

*3 Valve is made of stainless steel at the pressure higher than 1.2MPa (2-1/2"~3") and 1.0MPa (4",5").



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AL-5



Steam

Safety valve



- Conformable to JIS standard
- Sealed structure to prevent unexpected adjustment
- Blow-down pressure is adjustable.

Application		Steam	
Pressure range		0.05~1.0MPa [0.5~10kgf/cm ² G]	0.05~1.5MPa [0.5~15kgf/cm ² G]
Max. temperature		220°C	
Connection		JIS 10K FF flanged	JIS 16K FF flanged
Material	Body	Cast iron	
	Valve & seat	Bronze or stainless steel	Stainless steel
Size		3/4"~2"	3/4"~2" *

* In case of set pressure is over 1.0MPa, body material is ductile cast iron (3/4"~1-1/2").

AL-6



Steam

Safety valve



- Conformable to JIS standard
- Available to blow-out test with lever

Application		Steam	
Pressure range		0.05~1.0MPa [0.5~10kgf/cm ² G]	0.05~1.5MPa [0.5~15kgf/cm ² G]
Max. temperature		220°C	
Connection		JIS 10K FF flanged	JIS 16K FF flanged
Material	Body	Cast iron	
	Valve & seat	Bronze or stainless steel	Stainless steel
Size		2-1/2"~6"	

* Max. set pressure of 6" is 0.8MPa.

AL-10



Steam

Safety valve



Application		Steam	
Pressure range		0.05~1.0MPa	
Max. temperature		220°C	
Connection		JIS Rc screwed	
Material	Body	Cast iron	
	Valve & seat	Bronze or stainless steel	Stainless steel
Size		1/2"~2"	

* Refer to setting Pressure range table (P.22) for 2".

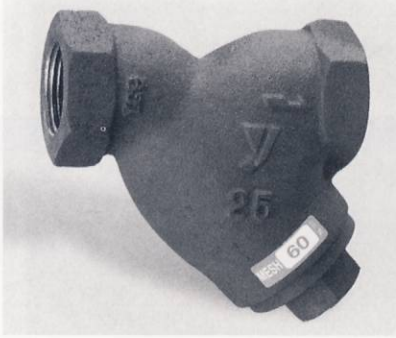


SY-52.0
MPa

Steam

Air

Water

Strainer

- Screwed, ductile cast iron and 2.0MPa
- Small and compact
- Low pressure loss and large capacity

Application		Steam, Air, Water, Non-corrosive fluids
Max. pressure		2.0MPa {20kgf/cm ² G}
Max. temperature		220°C
Connection		JIS Rc (PT) screwed
Material	Body	Ductile cast iron
	Screen	Stainless steel
Size		3/8"~2"

* Standard screen : ϕ 2.5-7.21 holes/cm² 60 mesh. 20 to 100 mesh screen are available.

SY-40·40C1.0
MPa

Steam

Air

Water

Strainer

- Flanged, ductile cast iron and 1.0MPa
- Low pressure loss and large capacity
- SY-40C is coated by Nylon 11.

Model		SY-40	SY-40C
Application		Steam, Air, Water, Non-corrosive fluids	Air, Water, Non-corrosive fluids
Max. pressure		1.0MPa {10kgf/cm ² G}	
Max. temperature		220°C	60°C
Connection		JIS 10KFF flanged	
Material	Body	Ductile cast iron	
	Screen	Stainless steel	
Size		1/2"~12"	

* Standard screen : ϕ 2.5-7.21 holes/cm² 60 mesh
20 to 100 mesh screen are available.

SET PRESSURE RANGE TABLE FOR SAFETY VALVE

(MPa)

Model	Size	A	B	C	D	E	F	G	H
AL-1, 1T	1/2"	0.05~0.25	0.26~0.4	0.41~0.75	0.76~1.0				
	3/4"~2"	0.05~0.25	0.26~0.5	0.51~0.75	0.76~1.0				
AL-15, 15L, 15R, 15ML AL-26, 26R	1/2"~2"	0.05~0.2	0.21~0.4	0.41~0.65	0.66~1.0				
AL-15H, 15HL	1/2"~2"					1.0~1.6			
AL-17, 27	1/2"~2"	0.05~0.2	0.21~0.4	0.41~0.65	0.66~1.0	1.01~1.6			
AL-14, 14H, 25, 25R	1/2"	0.05~0.15	0.16~0.35	0.36~0.55	0.56~0.75	0.76~1.0	1.0~1.3	1.31~2.0	
	3/4"	0.05~0.2	0.21~0.3	0.31~0.45	0.46~0.6	0.61~0.75	0.76~1.0	1.0~1.6	1.61~2.0
	1"	0.05~0.2	0.21~0.35	0.36~0.45	0.46~0.55	0.56~0.8	0.81~1.0	1.0~1.6	1.61~2.0
	1-1/4"~2"	0.05~0.2	0.21~0.3	0.31~0.5	0.51~0.65	0.66~0.8	0.81~1.0	1.0~1.6	1.61~2.0
AL-10	1/2"~1-1/2"	0.05~0.2							
	2"	0.05~0.1 0.11~0.2	0.21~0.4	0.41~0.65	0.66~1.0				
AL-31, 31H	1/2"	0.05~0.15	0.16~0.25	0.36~0.45	0.56~0.65	0.76~0.85	1.0~1.3	1.31~1.6	
	3/4"		0.21~0.3		0.31~0.4 0.41~0.5	0.51~0.7		0.71~1.0	1.0~1.3 1.31~1.6
	1"	0.05~0.2	0.21~0.3	0.31~0.45	0.46~0.55	0.56~0.65 0.66~0.8	0.81~1.0	1.0~1.6	1.61~2.0
	1-1/4"~2"	0.05~0.2	0.21~0.3	0.31~0.5	0.51~0.65	0.66~0.8	0.81~1.0	1.0~1.6	1.61~2.0
AL-300, 301	1/2"~2"	0.05~0.25	0.26~0.5	0.51~0.75	0.76~1.5				
AL-300T, 301T	1/2"~2"	0.05~0.25	0.26~0.5	0.51~0.75	0.76~1.3 1.31~1.5 *				
AL-4, 4T	2-1/2"	0.05~0.1	0.11~0.25	0.26~0.55	0.65~1.0	1.01~1.5			
	3"~5"	0.05~0.1	0.11~0.2	0.21~0.4	0.41~0.8	0.81~1.5			
	6"	0.05~0.1	0.11~0.2	0.21~0.4	0.41~0.8				
AL-4S, 4ST	2-1/2"	0.05~0.1	0.11~0.25	0.26~0.55	0.56~1.0	1.01~2.0			
	3"~4"	0.05~0.1	0.11~0.2	0.21~0.4	0.41~0.8	0.81~1.6	1.61~2.0		

* In case of over 1.3MPa, the model is AL-301, not AL-301T.



Y.O. GENERAL SUPPLY (1983) CO., LTD.

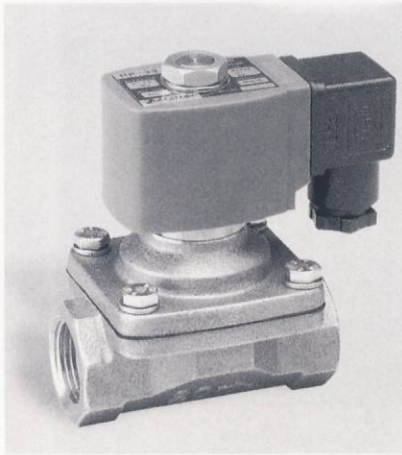
Head Office : 163 Banthadthong Rd., Kwaeng Thanonpethuri, Rajthavee, Bangkok 10400
Tel. (662) 216-7268 (Auto 5 Lines) Fax. (662) 216-0832

Branch : 1405 Sriwara Rd., Kwaeng Wangthonglang, Wangthonglang, Bangkok 10310
Tel. (662) 559-3973-5 Fax. (662) 559-3268

DP-33



Solenoid valve



- Small and compact, but large capacity
- Zero-differential working pressure
- Vertical or horizontal installation is possible.

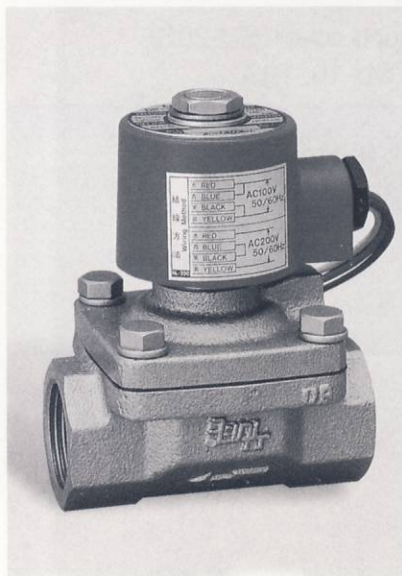
Application		Air, Water, Oil, Non-corrosive fluids
Working pressure		0~1.0MPa {0~10kgf/cm ² G} *
Min. differential pressure		0MPa {0kgf/cm ² }
Max. temperature		60°C
Rated voltage		AC220V 50/60Hz
Operation		Normally closed
Connection		JIS Rc (PT) screwed
Material	Body	Bronze
	Valve	NBR (Diaphragm)
Size		1/2"~1"

* 0~0.6MPa (0~6kgf/cm²G) for oil service.

DP-15·17·16·18



Solenoid valve



DP-16

- Stainless steel made enables long life.
- Fluid-free service for steam, air, water and oil (DP-15, DP-17)
- Small and compact, but large capacity

Model	DP-15	DP-17	DP-16	DP-18
Application	Steam, Air, Water, Oil, Non-corrosive fluids		Air, Water, Oil, Non-corrosive fluids	
Working pressure	0.05~1.0MPa {0.5~10kgf/cm ² G}		0~1.0MPa {0~10kgf/cm ² G}	
Min. differential pressure	0.05MPa {0.5kgf/cm ² }		0MPa {0kgf/cm ² }	
Max. temperature	180°C		60°C	
Rated voltage	AC100/200V selective 50/60Hz common AC110/220V selective 50/60Hz common AC120/240V selective 50/60Hz common			
Operation	Normally closed *			
Connection	JIS Rc (PT) screwed	JIS 10K FF flanged	JIS Rc (PT) screwed	JIS 10K FF flanged
Material	Body	Stainless steel		
	Piston	Stainless steel	—	
	Valve disc	PTFE (Disc)	NBR (Diaphragm)	
Size	1/2"~2"			

* Normally opened is available as DP-15C, DP-17C, DP-16C and DP-18C.

** DC coil is available as DP-15D, DP-17D, DP-16D and DP-18D.

DP-10·13



Solenoid valve



DP-10

- Fluid-free service for steam, air, water and oil
- Small and compact, but large capacity
- Vertical or horizontal installation is possible.

Model	DP-10	DP-13
Application	Steam, Air, Water, Oil, Non-corrosive fluids	
Working pressure	0.05~1.0MPa {0.5~10kgf/cm ² G}	
Min. differential pressure	0.05MPa {0.5kgf/cm ² }	
Max. temperature	180°C	
Rated voltage	AC100/200V selective 50/60Hz common AC110/220V selective 50/60Hz common AC120/240V selective 50/60Hz common	
Operation	Normally closed	
Connection	JIS Rc (PT) screwed	JIS 10K FF flanged
Material	Body	Bronze
	Piston	Stainless steel
	Valve disc	PTFE
Size	3/8"~2"	1/2"~2"

* DC coil is available as DP-10D and DP-13D.



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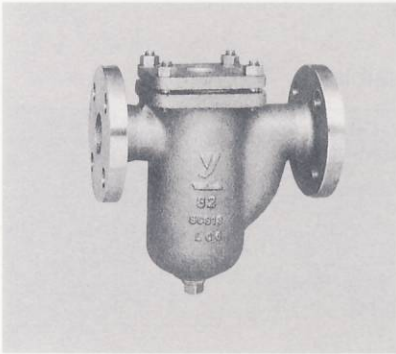
Branch : 1405 Sriwara Rd., Kwaeng Wangthonglang, Wangthonglang, Bangkok 10310

Tel. (662) 559-3973-5 Fax. (662) 559-3268

SU-10·10S

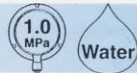


Strainer

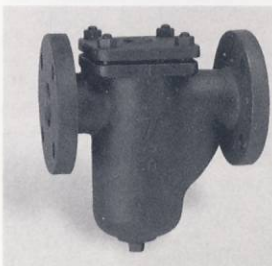


Model	SU-10	SU-10S
Application	Water	
Max. pressure	1.0MPa	1.0MPa *
Max. temperature	220°C	80°C
Connection	JIS 10K FF flanged	
Material	Body	Stainless steel
	Screen	Stainless steel
Standard screen	60 mesh (ϕ 6-1.42 holes / cm ²)	
Available screen	20~250 mesh (ϕ 6-1.42 holes / cm ²)	
Size	3/4"~6"	
Others	* 0.7MPa for 5" and 0.5MPa for 6".	

SU-20·20S



Strainer



SU-20

- Flanged, ductile cast iron and 1.0MPa
- Easy maintenance because of one-touch cover (SU-20S)
- Stainless steel made are available as SU-10, 10S.

Model	SU-20	SU-20S
Application	Water, Oil, Non-corrosive liquids	
Max. pressure	1.0MPa [10kgf/cm ² G]	1.0MPa [10kgf/cm ² G] *
Max. temperature	220°C	80°C
Connection	JIS 10KFF flanged	
Material	Body	Ductile cast iron
	Screen	Stainless steel
Size	3/4"~6"	

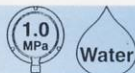
* Max. pressure is 0.7MPa for 5" and 0.5MPa for 6".

** Standard screen : ϕ 6-1.42 holes/cm² 60 mesh.
20 to 250 mesh screen are available.



SU-20S

SW-10·10S



Strainer



SW-10

- Flanged, duplex, ductile cast iron and 1.0MPa
- Easy maintenance because of one-touch cover (SW-10S)
- Stainless steel made is available.


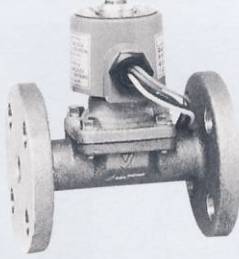
Model	SW-10	SW-10S
Application	Water, Oil, Non-corrosive liquids	
Max. pressure	1.0MPa [10kgf/cm ² G]	
Max. temperature	80°C	
Connection	JIS 10KFF flanged	
Material	Body	Ductile cast iron
	Screen	Stainless steel
Size	3/4"~4"	


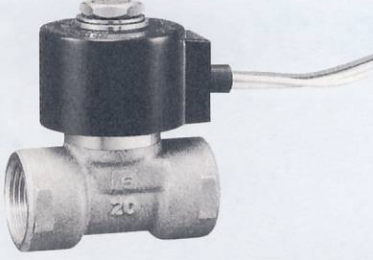
* Standard screen : ϕ 6-1.42 holes/cm² 60 mesh.
20 to 250 mesh screen are available.



SW-10S

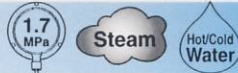


Feature	Diaphragm type / Screwed	Diaphragm type / Flanged	Normally opened / Screwed	Normally opened / Flanged
Model	DP-12	DP-14	DP-12C	DP-14C
Picture				
	DP-12		DP-14	
Application	Air, Water, Oil, Non-corrosive fluids			
Working pressure	0~1.0MPa			
Min. differential pressure	0MPa			
Max. temperature	60°C (FKM : 120°C is available.)			
Rated voltage	AC100/200V, AC110/220V, AC120/240V selective 50/60 Hz common			
Operation	Normally closed		Normally opened	
Connection	JIS Rc screwed	JIS 10K FF flanged	JIS Rc screwed	JIS 10K FF flanged
Material	Bronze			
	NBR (Diaphragm)			
Size	3/8"~2"	1/2"~2"	3/8"~2"	1/2"~2"
Others	* DC coil is available as DP-12D.	* DC coil is available as DP-14D.	* DC coil is available as DP-12CD.	* DC coil is available as DP-14CD.

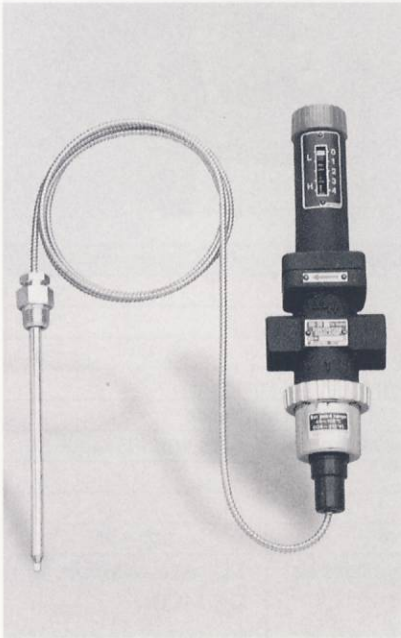
Feature	Piston type / Flanged	Direct acting / For steam	Direct acting / For air, water
Model	DP-6	DD-1S	DD-1W
Picture			
Application	Steam, Air, Water, Oil, Non-corrosive fluids	Steam	Air, Water, Oil, Non-corrosive fluids
Max. pressure	1.0MPa	DD-1S : 0.12MPa 120°C DD-1S-5 : 0.5MPa 160°C DD-1S-7 : 0.7MPa 170°C	DD-1W : 0.12MPa 120°C DD-1W-5 : 0.5MPa 120°C DD-1W-7 : 0.7MPa 120°C
Max. temperature	180°C		
Min. differential pressure	0.5MPa	0MPa	
Rated voltage	AC100/200V, AC110/220V, AC120/240V selective 50/60 Hz common	AC100, AC110V, AC120V, AC200V, AC220V, AC240V 50/60 Hz common	
Operation	Normally closed	Normally closed	
Connection	JIS 10K FF flanged	JIS Rc screwed	
Material	Body	Cast iron	Bronze
	Valve	Stainless steel	Plunger : Stainless steel
	Valve seat	Bronze	PTFE (Disc) / FKM (Disc)
Size	2-1/2"	3/8"~3/4"	
Others			



OB-30 series



Temperature Regulator



OB-30

- OB-30, 30U for heating, OB-31, 31U for cooling
- Small and compact, but accurate control
- PTFE/Stainless valve & seat enables long durability.

Model	OB-30	OB-30U	OB-31	OB-31U
Application	For heating (steam, hot water)		For cooling (Cold water, refrigerant)	
Heated or cooled fluid	Water, Oil, Non-corrosive liquids			
Max. pressure	1.7MPa {17kgf/cm ² G} *		1.7MPa {17kgf/cm ² G}	
Max. differential pressure	1.0MPa {10kgf/cm ² }			
Max. temperature	185°C			
Max. pressure for bulb	1.0MPa {10kgf/cm ² G}			
Set point range	0~35°C, 25~70°C, 40~100°C, 60~130°C, 70~150°C		0~35°C, 25~70°C, 40~100°C	
Max.Temp. for bulb	Upper set point+40°C			
Connection	JIS Rc (PT) screwed	JIS Rc (Union joint)	JIS Rc (PT) screwed	JIS Rc (Union joint)
Material	Body	Bronze		
	Valve disc	PTFE		
	Valve seat	Stainless steel		
	Bulb	Copper (Nickel chrome plated)		
Size	1/2"~1"			

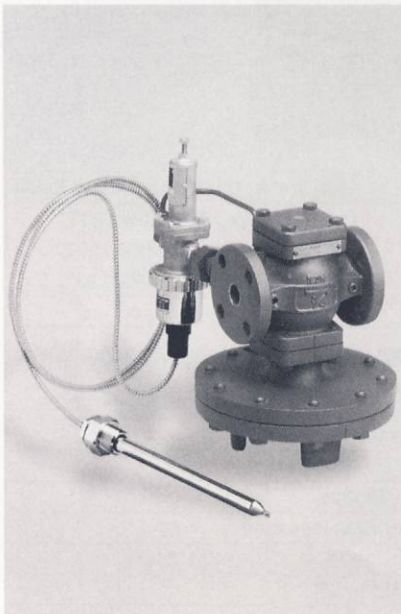
* Max. pressure is 1.0MPa for steam service.

** Standard capillary length is 2m. 3m or 5m are available.

OB-2000



Temperature Regulator



- Large capacity and accurate control
- Wide temperature range
- Valve leakage meets ANSI class IV.

Model	OB-2000	
Application	For heating (steam)	
Heated fluid	Water, Oil, Non-corrosive liquids	
Max. pressure	2.0MPa {20kgf/cm ² G}	
Max. temperature	220°C	
Max. pressure for bulb	1.0MPa {10kgf/cm ² G}	
Set point range	-8~15°C, 10~36°C, 30~62°C, 55~94°C, 80~127°C, 115~183°C	
Max.Temp. for bulb	Upper set point+20°C	
Connection	JIS Rc (PT) screwed	JIS 10KFF, 20KRF flanged
Material	Body	Ductile cast iron
	Valve	Stainless steel
	Valve seat	Stainless steel
	Diaphragm	Stainless steel
	Bulb	Copper (Nickel chrome plated)
Size	1/2"~2"	1/2"~4"

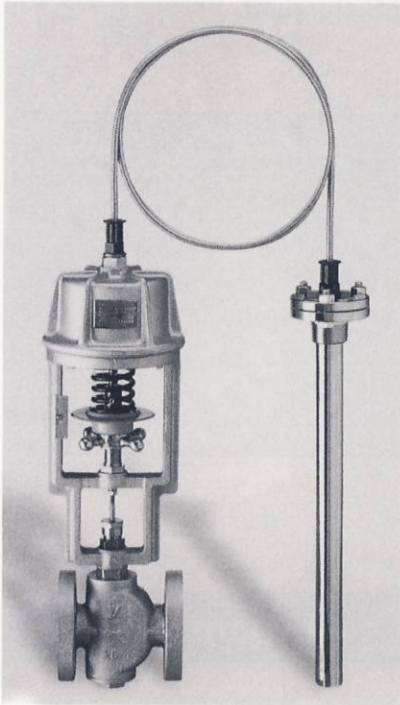
* Standard capillary length is 2m. 3m or 5m are also available.



OB-1·1G·2·2G



Temperature Regulator



OB-2

- Adjusting handle enables easy setting.
- Double valve structure meaning large capacity
- External pressurized bellows is high tolerant to temperature. (OB-1G·2G)

Model	OB-1	OB-1G	OB-2	OB-2G
Application	For heating (steam, hot water)			
Heated fluid	Water, Oil, Non-corrosive liquids			
Max. pressure	0.7MPa {7kgf/cm ² G}		0.7MPa {7kgf/cm ² G} *1	
Max. temperature	180°C			
Max. pressure for bulb	1.0MPa {10kgf/cm ² G}			
Set point range	40~60°C, 60~80°C, 80~100°C, 100~120°C	15~30°C, 20~40°C, 30~50°C, 40~60°C, 50~70°C, 60~80°C, 80~100°C	40~60°C, 60~80°C, 80~100°C, 100~120°C	15~30°C, 20~40°C, 30~50°C, 40~60°C, 50~70°C, 60~80°C, 80~100°C
Max. Temp. for bulb	Upper set point+10°C	Upper set point+30°C	Upper set point+10°C	Upper set point+30°C
Connection	JIS Rc (Union joint)		JIS 10KFF flanged	
Material	Body	Bronze		Cast iron
	Valve	Phosphor bronze		Phosphor bronze *2
	Valve seat	Bronze		Phosphor bronze *2
	Bulb	Copper (Nickel chrome plated) *2		
Size	1/2"~1-1/2"		1/2"~6"	

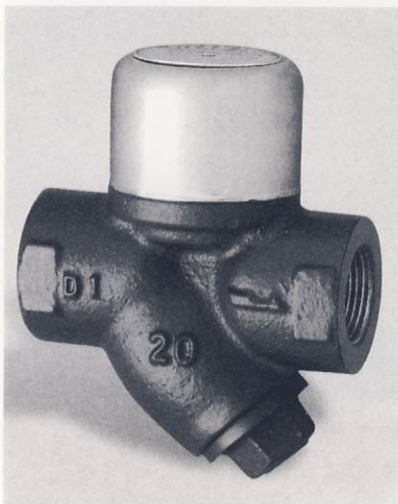
*1 Max. pressure differs from size. Contact us in detail.

*2 Stainless steel is available.

TD-10NA



Steam Trap



- Bi-metal ring eliminates air binding.
- Stable performance and superior durability
- Ductile cast iron body and up to 2.0MPa

Application	Steam condensate	
Operating pressure	0.035~2.0MPa {0.35~20kgf/cm ² G}	
Max. temperature	220°C	
Max. back pressure	50% of inlet pressure	
Connection	JIS Rc (PT) screwed	
Material	Body	Ductile cast iron
	Valve disc	Stainless steel (Heat treated)
	Valve seat	Stainless steel (Heat treated)
Size	1/2"~1"	



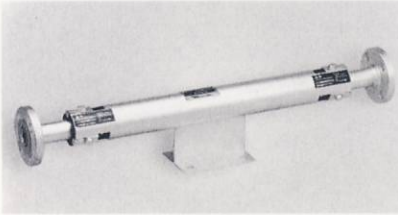
EB-1J·EB-2J



Expansion Joint



EB-1J



EB-2J

- Design and dimension are based on JIS standard.
- 316L stainless steel wetted parts
- With outer pipe and inner pipe

Model	EB-1J	EB-2J
Application	Steam, Air, Water, Oil, Non-corrosive fluids	
Max. pressure	0.98MPa {10kgf/cm ² G}	
Max. temperature	220°C	
Axial extension	10mm	20mm
Axial compression	25mm	50mm
Connection	JIS 10KFF flanged	
Material	Outer pipe	Carbon steel *1
	Bellows	Stainless steel
	Inner pipe	Stainless steel
Size	3/4"~10" *2	

*1 All stainless type is available.

*2 12"~16" are available as EB-3, EB-4.

EB-11·EB-12



Expansion Joint



EB-11



EB-12

- With control ring and up to 2.0MPa
- 316L stainless steel wetted parts
- With outer pipe and inner pipe

Model	EB-11	EB-12
Application	Steam, Air, Water, Oil, Non-corrosive fluids	
Max. pressure	2.0MPa {20kgf/cm ² G}	
Max. temperature	220°C	
Axial extension	10mm	20mm
Axial compression	25mm	50mm
Connection	JIS 10KFF flanged	
Material	Outer pipe	Carbon steel
	Bellows	Stainless steel
	Inner pipe	Stainless steel
Size	3/4"~10" *1	

*1 12"~16" are available as EB-7, EB-8.

YBF-1F·2F·3F



Flexible Joint



YBF-1F



YBF-2F



YBF-3F

- Flexible and durable for pressure up to 1.0MPa
- Excellent weather resistance to cracks and pelling
- Significantly improved fatigue life

Model	YBF-1F	YBF-2F	YBF-3F
Application	Air, Water, Non-corrosive fluids	Steam, Air, Water, Non-corrosive fluids	
Max. pressure	1.0MPa {10kgf/cm ² G} *1		
Max. temperature	100°C	220°C	
Length	100mm, 300mm, 500mm *2		
Connection	JIS Rc (Union joint)	JIS 10KFF flanged *1	
Material	Bellows	Stainless steel *3	
	Braid	Stainless steel *3	
Size	1/2"~2"	3/4"~4"	5"~6"

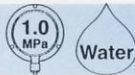
*1 Max. pressure 1.6MPa and BS4504 PN are also available.

*2 400mm, 600mm, 800mm length are also available.

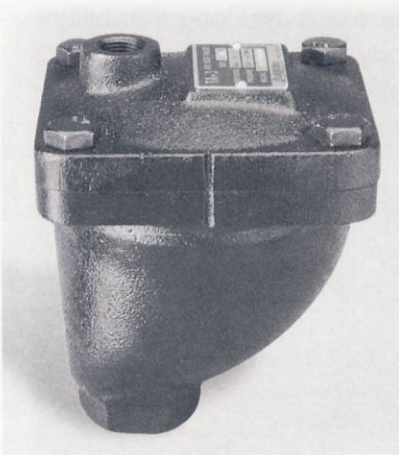
*3 316 stainless steel type is also available.



TA-3·6



Air Vent Valve

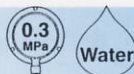


TA-3

- Wide pressure range and long durability
- Large capacity and compact design
- Tight seal and easy maintenance

Model	TA-3	TA-6	
Application	Water, Oil (Specific gravity : 0.8 or more)		
Maximum pressure	1.0MPa {10kgf/cm ² G}		
Max. temperature	90°C		
Connection	JIS Rc (PT) screwed		
Material	Body	Cast iron	
	Valve	Brass	
	Valve seat	NBR	
	Float	Stainless steel	
Size	1/2"~1-1/4"		

TA-11·11L



Air Vent Valve

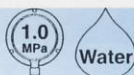


TA-11

- Compact and enough discharge capacity
- Easy maintenance with removable valve seat
- Emergency shut-off cap or hose connection

Model	TA-11	TA-11L
Application	Water	
Maximum pressure	0.3MPa {3kgf/cm ² G}	
Max. temperature	100°C	
Connection	JIS R (PT) screwed	
Material	Body	Brass
	Valve	NBR
	Valve seat	Brass
	Float	Heat-resistant resin
Size	1/8", 3/8"~3/4"	
Others	Cap type	Hose joint type

TA-22·22L



Air Vent Valve



TA-22

- Wide pressure range in a compact body
- Easy maintenance with removable valve seat
- Emergency shut-off cap or hose connection

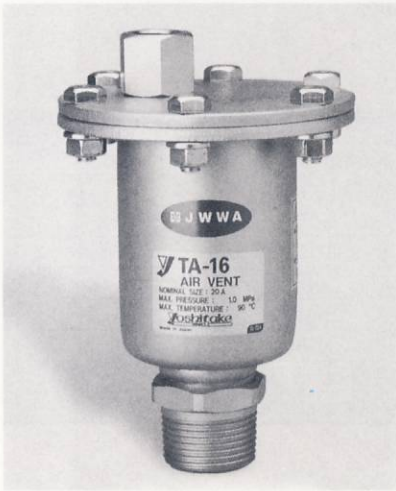
Model	TA-22	TA-22L
Application	Water	
Maximum pressure	1.0MPa {10kgf/cm ² G}	
Max. temperature	100°C	
Connection	JIS R (PT) screwed	
Material	Body	Bronze
	Valve	NBR
	Valve seat	Brass
	Float	Heat-resistant resin
Size	1/2"~1"	
Others	Cap type	Hose joint type



TA-16·16L



Air Vent Valve



TA-16

- Stainless steel made meaning anti-corrosion and long durability
- Wide pressure range in a compact body
- Variety of exhaust parts make a flexible connection easy.

Model	TA-16	TA-16L
Application	Water	
Maximum pressure	1.0MPa {10kgf/cm ² G}	
Max. temperature	90°C	
Connection	JIS R (PT) screwed	
Material	Body	Stainless steel
	Valve	FKM
	Valve seat	Stainless steel
	Float	Stainless steel
Size	1/2"~1"	
Others	Open type	Hose joint type

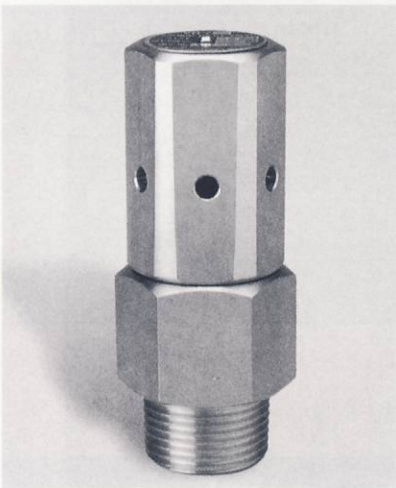
Option for exhaust connection

- Manual valve for copper pipe
- Manual valve hose joint
- Rotating screwed joint
- Rotating joint for copper pipe
- Rotating hose joint

VB-7·7S



Vacuum relief Valve



VB-7

- Stable performance without chattering and hunting
- Easy handling due to small and light weight
- Anti-corrosion material make a corrosion-proof superior.

Model	VB-7	VB-7S
Application	Steam, Air	
Maximum pressure	1.0MPa {10kgf/cm ² G}	
Regulating pressure range	A : -0.5~-21kPa {-3.5~-160mmHg} B : -21~-48kPa {-160~-360mmHg} C : -48~-81kPa {-360~-600mmHg}	
Max. temperature	200°C	
Connection	JIS R (PT) screwed	
Material	Body	Brass
	Valve	Bronze
	Valve seat	Brass
Size	1/2"~2"	

DS-1·2



Drain Separator



- High separating efficiency due to whirlpool flow
- Extremely low pressure loss
- Simple construction and trouble-free

Model	DS-1	DS-2
Application	Steam, Air	
Maximum pressure	Steam : 2.0MPa {20kgf/cm ² G} Air : 1.0MPa {10kgf/cm ² G}	
Max. temperature	220°C	
Connection	JIS Rc(PT) screwed	JIS 20KRF flanged *
Material	Body	Ductile cast iron
	Nozzle	Cast iron
	Receiver	Ductile cast iron
Size	1/2"~2"	2-1/2"~4"

* JIS 10K, 16KRF flanged are available.

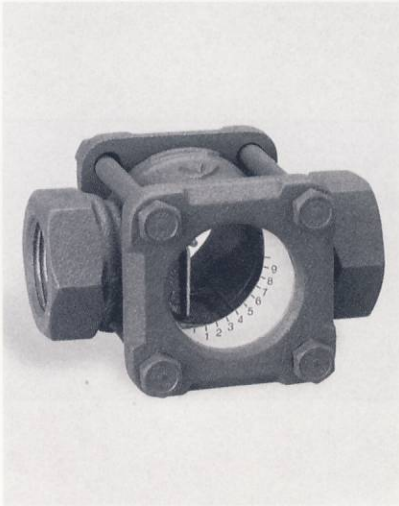


SL-1S



Plain type

Sight Glass



- For visible check of two-fluid flow
- Suitable for checking intermittent flow
- Horizontal and vertical installation

Application		Water, Oil, Non-corrosive liquids *
Maximum pressure		1.0MPa {10kgf/cm ² G}
Max. temperature		180°C
Max. thermal shock		100°C
Connection		JIS Rc (PT) screwed
Material	Body	Cast iron
	Glass	Hardened glass
Size		1/2"~1"

* For steam condensate : with mica plate.

SF-1S

SF-1S



Flapper type

- For visible check of continuous flow change
- Suitable for checking continuous flow
- Horizontal and vertical installation

Application		Water, Oil, Non-corrosive liquids *
Maximum pressure		1.0MPa {10kgf/cm ² G}
Max. temperature		180°C
Max. thermal shock		100°C
Connection		JIS Rc (PT) screwed
Material	Body	Cast iron
	Glass	Hardened glass
Size		1/2"~1"

* For steam condensate : with mica plate

SB-1S



Ball type

- For visible check of one-fluid flow
- Balls keep glasses clean.
- Horizontal and vertical installation

Application		Water
Maximum pressure		1.0MPa {10kgf/cm ² G}
Max. temperature		85°C
Connection		JIS Rc (PT) screwed
Material	Body	Cast iron
	Glass	Hardened glass
Size		1/2"~1"

400



Spinner type

Sight Glass



- Spinner keeps glasses clean.
- For visible check of one-fluid flow
- Horizontal and vertical installation

Application		Water
Maximum pressure		0.7MPa {7kgf/cm ² G}
Max. temperature		100°C
Max. thermal shock		40°C
Connection		JIS Rc (PT) screwed
Material	Body	Bronze
	Glass	Heat-resistant glass
Size		3/8"~1"

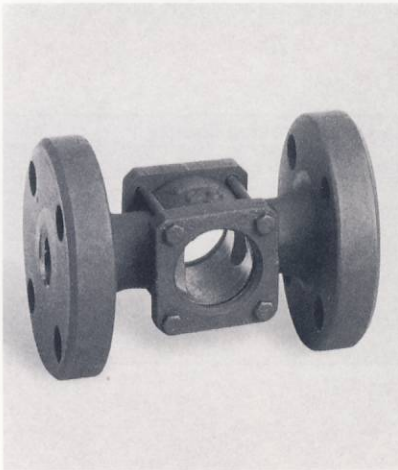


150L



Plain type

Sight Glass



150L-F

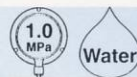
- For visible check of two-fluid flow
- Suitable for checking intermittent flow
- Horizontal and vertical installation

Model		150L-S	150L-F
Application		Water, Oil, Non-corrosive liquids *	
Maximum pressure		1.0MPa {10kgf/cm ² G}	
Max. temperature		180°C	
Max. thermal shock		100°C	
Connection		JIS Rc (PT) screwed	JIS 10KFF flanged
Material	Body	Cast iron	
	Glass	Hardened glass	
Size		1-1/4"~2"	1/2"~6"

* For steam condensate: with mica plate.

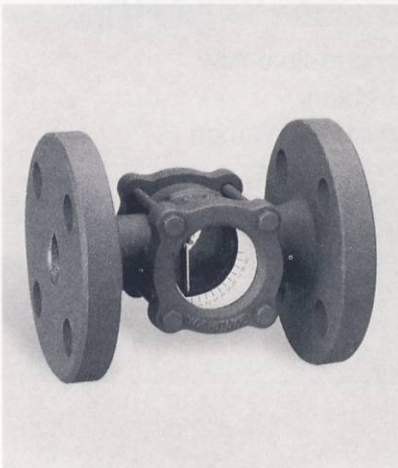
** Protector with wire-netting is available.

150F



Flapper type

Sight Glass



150F-F

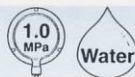
- For visible check of continuous flow change
- Extremely low pressure loss
- Horizontal and vertical installation

Model		150F-S	150F-F
Application		Water, Oil, Non-corrosive liquids *	
Maximum pressure		1.0MPa {10kgf/cm ² G}	
Max. temperature		180°C	
Max. thermal shock		100°C	
Connection		JIS Rc (PT) screwed	JIS 10KFF flanged
Material	Body	Cast iron	
	Glass	Hardened glass	
	Flapper	Stainless steel	
Size		1-1/4"~2"	1/2"~6"

* For steam condensate: with mica plate.

** Protector with wire-netting is available.

150L-13



Stainless steel Plain type

- Stainless steel made
- For visible check of two-fluid flow
- Horizontal and vertical installation

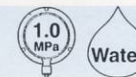
Model		150L-13S	150L-13F
Application		Water, Oil, Non-corrosive liquids *1	
Maximum pressure		1.0MPa {10kgf/cm ² G}	
Max. temperature		180°C	
Max. thermal shock		100°C	
Connection		JIS Rc (PT) screwed	JIS 10KFF flanged
Material	Body	Stainless steel (SCS13) *2	
	Glass	Hardened glass	
Size		1/2"~2"	1/2"~4"

*1 For steam condensate : with mica plate.

*2 SCS14 is available

*3 Protector with wire-netting is available.

150F-13



Stainless steel Flapper type

- Stainless steel made
- For visible check of continuous flow change
- Horizontal and vertical installation

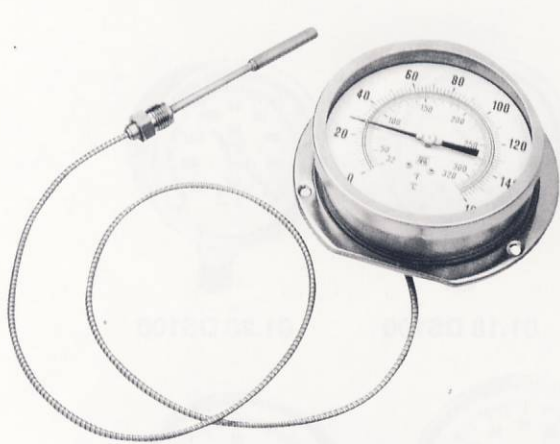
Model		150F-13S	150F-13F
Application		Water, Oil, Non-corrosive liquids *	
Maximum pressure		1.0MPa {10kgf/cm ² G}	
Max. temperature		180°C	
Max. thermal shock		100°C	
Connection		JIS Rc (PT) screwed	JIS 10KFF flanged
Material	Body	Stainless steel (SCS13)	
	Glass	Hardened glass	
	Flapper	Stainless steel	
Size		1/2"~2"	1/2"~4"

* For steam condensate : with mica plate.

** Protector with wire-netting is available.



THERMOMETER



06.TG88 x DS150



06.TG85 x DS100



06.TB74 x DS80



06.TB81 x DS100



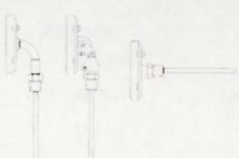
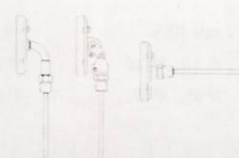
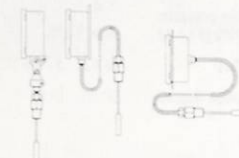
06.TB89 x DS125



06.TB89 x DS150



06.TB89 x DS100

Models	06.TB7	06.TB8	06.TG8
Measuring principle	bimetal	bimetal	inert gas
Wetted parts	AISI303 - AISI316	AISI316	AISI316
Ranges	-50/+50...100/500 °C	-50/+50...100/500 °C	-200/+100...0/600 °C
Accuracy	KI 1,0	KI 1,0	KI 1,0
Protection degree	IP 55	IP 55	IP 55
Mounting			
Main features		<ul style="list-style-type: none"> • Can be filled with dampening liquid 	<ul style="list-style-type: none"> • Can be filled with dampening liquid • Remote mounting with capillary



PRESSURE, VACCUUM & COMPOUND GAUGE



01.18 DS40



01.18 DS50



01.18 DS63



01.18 DS100



01.20 DS100



01.05 DS125



01.18 DS150



01.20 DS150



01.18 HW DS150

Models	01.18 DS40	01.18 DS50	01.18 DS63	01.18 DS100	01.18 DS150
Ranges	0/2,5...0/40 bar	0/2,5...0/40 bar	0/1...0/1000 bar ... and vacuum	0/0,6...0/1600 bar ... and vacuum	0/0,6...0/1600 bar ... and vacuum
Working pressure (referring to f.s.v.)	max 75%	max 75%	max 75%	max 100%	max 100%
Accuracy	KI 1,6	KI 1,6	KI 1,6	KI 1,0...KI 0,6	KI 1,0...KI 0,6
Protection degree	IP 55	IP 55...IP 67	IP 55...IP 67	IP 55...IP 67	IP 55...IP 67
Mounting					
Main features		<ul style="list-style-type: none"> • Can be filled with dampening liquid 	<ul style="list-style-type: none"> • Can be filled with dampening liquid 	<ul style="list-style-type: none"> • Available with wetted parts in monel 400 • Can be filled with dampening liquid • Complies with the EN837-1 standard 	<ul style="list-style-type: none"> • Available with wetted parts in monel 400 • Can be filled with dampening liquid • Complies with the EN837-1 standard

Models	01.20 DS100	01.20 DS150	01.18 HW DS100-150	01.20 DS100-150	01.05 DS125
Ranges	0/0,6...0/1600 bar ... and vacuum	0/0,6...0/1600 bar ... and vacuum	0/1...0/1000 bar ... and vacuum	0/1...0/1000 bar ... and vacuum	0/1...0/1000 bar ... and vacuum
Working pressure (referring to f.s.v.)	max 100%	max 100%	max 100%	max 100%	max 100%
Accuracy	KI 1,0...KI 0,6	KI 1,0...KI 0,6	KI 1,0	KI 1,0	KI 1,0...KI 0,5
Protection degree	IP 55...IP 67	IP 55...IP 67	IP 55...IP 67	IP 55...IP 67	IP 55...IP 67
Mounting					
Main features	<ul style="list-style-type: none"> • Solid-Front execution available with wetted parts in monel 400 • Can be filled with dampening liquid • Complies with the EN837-1 standard 	<ul style="list-style-type: none"> • Solid-Front execution available with wetted parts in monel 400 • Can be filled with dampening liquid • Complies with the EN837-1 standard 	<ul style="list-style-type: none"> • Overpressure up to 4 times the end scale value • Solid-Front execution (only MGS20 HW) • Complies with the EN837-1 standard 	<ul style="list-style-type: none"> • Overpressure up to 4 times the end scale value • Solid-Front execution (only MGS20 HW) • Complies with the EN837-1 standard 	<ul style="list-style-type: none"> • Solid-Front execution plastic turret case • Complies with ANSI B40.1 standard • Can be filled with dampening liquid



AL-150·150T



Safety relief valve



AL-150

- Small and compact
- Superior durability due to stainless made valve and seat

Model	AL-150	AL-150T
Application	Steam, Air, Water, Oil, Non-corrosive fluids	Air, Water, Oil, Non-corrosive fluids
Pressure range	0.05~1.0MPa {0.5~10kgf/cm ² G} Refer to setting pressure range table (P.23)	
Max. temperature	220°C *	120°C
Connection	JIS Rc (PT) screwed	
Material	Body	Bronze
	Valve & seat	Stainless steel
Size	1/2"~2"	

* Max. temperature is 120°C for liquids, such as water and oil.

AL-150L·150H·150HL



Safety valve



AL-150L

- Small and compact lever type (AL-150L · AL-150HL)
- Superior durability due to stainless made valve and seat

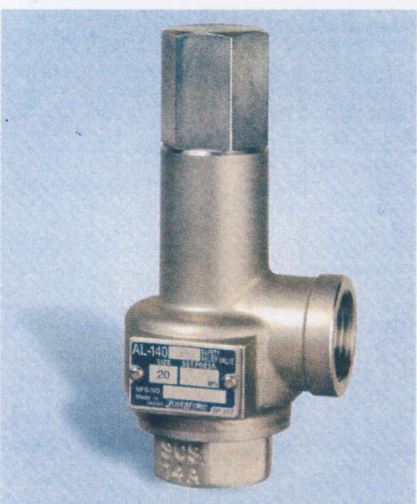
Model	AL-150L	AL-150HL	AL-150H
Application	Steam, Air, Non-corrosive gases	Steam, Air, Water, Non-corrosive fluids	Steam, Air, Water, Non-corrosive fluids
Pressure range	0.05~1.0MPa {0.05~10kgf/cm ² G}	1.0~1.6MPa {10~16kgf/cm ² G} Refer to setting pressure range table (P.23)	
Max. temperature	220°C	220°C *	
Connection	JIS Rc (PT) screwed		
Material	Body	Bronze	
	Valve & seat	Stainless steel	
Size	1/2"~2"		

* Max. temperature is 120°C for liquids, such as water and oil.

AL-140·140T·140H



Safety relief valve



AL-140

- Superior durability due to all stainless made
- Simple structure means easy maintenance.
- Easy adjustment

Model	AL-140	AL-140T	AL-140H
Application	Steam, Air, Water, Non-corrosive fluids	Air, Water, Non-corrosive fluids	Steam, Air, Water, Non-corrosive fluids
Pressure range	0.05~1.0MPa {0.05~10kgf/cm ² G}	1.0~2.0MPa {10~20kgf/cm ² G} Refer to setting pressure range table (P.23)	
Max. temperature	220°C *	120°C	220°C *
Connection	JIS Rc (PT) screwed		
Material	Body	Stainless steel	
	Valve & seat	Stainless steel	
Size	1/2"~2"		

* Max. temperature is 120°C for liquids, such as water and oil.

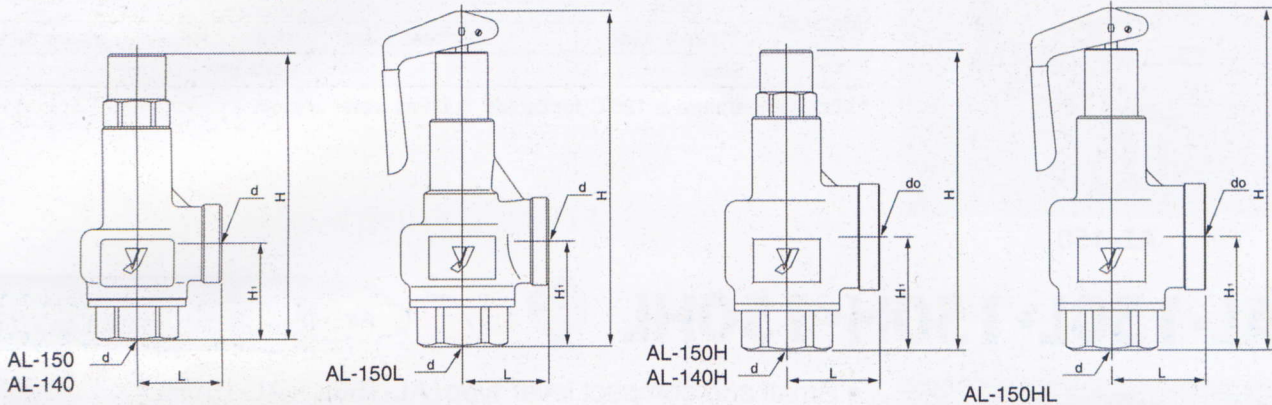


AL-150, 140, 150H, 140H, 150L and 150HL

Specification

Model	AL-150	AL-140	AL-150H	AL-140H	AL-150L	AL-150HL
Seating Surface	Metal to metal					
Cap type	Sealed type				Lever type	
Application	Steam, air, water, oil and non-corrosive fluids				Steam, air	
Setting pressure	0.05~1.0MPa		1.0~1.6MPa		0.05~1.0MPa	1.0~1.6MPa
Temperature range	5~220 °C*					
Nominal size	15A~50A					
Material	Spring chamber	Bronze	Stainless steel	Bronze	Stainless steel	Bronze
	Valve	Stainless steel (SCS14A)				
	Valve seat	Stainless steel (SCS14A)				
	Adjusting spring	Stainless steel (SUS304)				

* Temp. range is 5~120 °C for liquid application



Dimensions & Weights

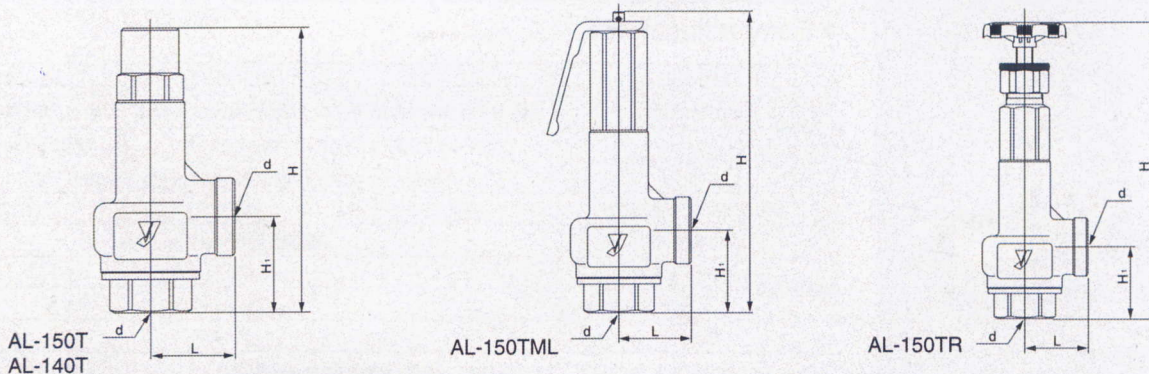
(mm)

Nominal size	d	do	L	H ₁						H						Weight			
				AL-150 AL-150L AL-140	AL-150H AL-140H AL-150HL	AL-150L	AL-150HL	AL-140	AL-140H	AL-150	AL-150L	AL-150H	AL-150HL	AL-140	AL-140H	AL-150	AL-150L	AL-150H	AL-150HL
15A	Rc 1/2	Rc 3/4	34	36	40	42	40	42	128	148	126	147	128	126.5	0.7	0.8	0.8	0.9	0.9
20A	Rc 3/4	Rc 1	38	38	43	47	42	46	128.5	148	131	151	128	130.5	0.8	0.9	0.9	1.0	1.0
25A	Rc 1	Rc 1 1/4	43	46	51.5	55.5	51	55	144.5	165	147.5	168	148	150.5	1.1	1.2	1.3	1.4	1.5
32A	Rc 1 1/4	Rc 1 1/2	50	54	61.5	61.5	61.5	61.5	181.5	201	167.5	187	181	195	1.8	1.9	1.9	2.0	2.5
40A	Rc 1 1/2	Rc 2	60	63	60	67	64	67	205	226	193.5	214	205	227.5	2.8	2.9	2.9	3.0	4.6
50A	Rc 2	Rc 2 1/2	75	77	76	80	76	80	245.5	266	241.5	262	245	303.5	4.7	4.8	5.0	5.1	8.8

AL-150T, 140T, 150TML and 150TR

Specification

Model	AL-150T	AL-140T	AL-150TML	AL-150TR
Seating Surface	Valve with O-ring			
Cap type	Sealed type		Sealed lever type	
Application	Air, water, oil and non-corrosive fluids			Water, oil and non-corrosive liquids
Setting pressure	0.05~1.0MPa (0.5~10kgf/cm ² G)			
Temperature range	5~120 °C			
Nominal size	15A~50A			
Material	Spring chamber	Stainless steel		Bronze
	Valve	Stainless steel (SCS14A)		
	Valve seat	Stainless steel (SCS14A) with FKM		
	Adjusting spring	Stainless steel (SUS304)		



Dimensions & Weights

(mm)

Nominal size	d	L	H ₁		H			Weight			
			AL-150T AL-150TML AL-150TR	AL-140T	AL-150T	AL-150TML	AL-150TR	AL-140T	AL-150T AL-140T	AL-150TML	AL-150TR
15A	Rc 1/2	34	40	40	128	157	184	128	0.7	0.8	1.0
20A	Rc 3/4	38	43	42	128.5	158	186	128.5	0.8	0.9	1.1
25A	Rc 1	43	51.5	51	144.5	174	203	148	1.1	1.3	1.4
32A	Rc 1 1/4	50	61.5	61.5	181.5	214	239	181.5	1.8	1.9	2.1
40A	Rc 1 1/2	60	60	64	205	246	276	205	2.8	3.0	3.2
50A	Rc 2	75	76	76	245.5	286	314	245.5	4.7	4.9	5.1