

Primary Regulating Valve

1 차 압 력 조 절 밸 브



가스용, 액체용 1차압력 조절밸브

DRG-1F/2F(Direct Acting Type) 30

가스용, 액체용 1차압력 조절밸브

PRG-1F/2F(Piston Type) 31

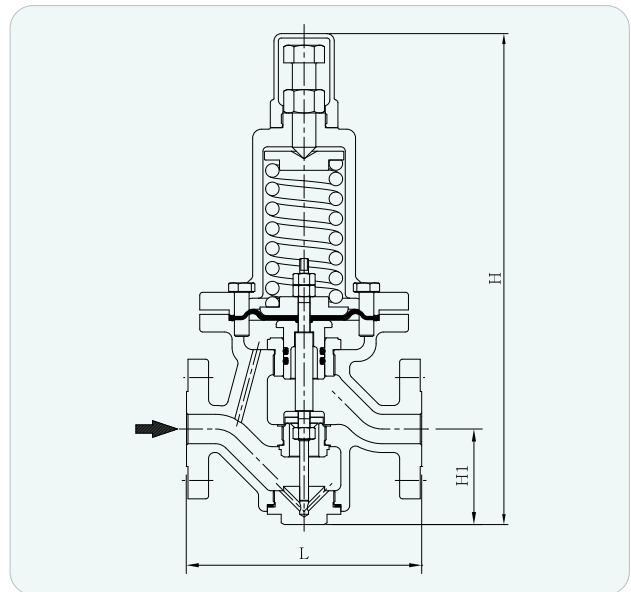


* 1차압력 조절밸브 | 일정 압력을 초과하면 밸브가 열려 유체가 흐르도록 하여, 밸브상류의 압력을 일정하게 유지시키는 릴리프밸브입니다.

Primary Regulating Valve

DRG-1F/2F | 1차압력 조절밸브(Primary Regulating Valve-Direct Acting Type)

- 취급이 용이하고 구조가 간단하며 내구성이 우수합니다.
- 펌프의 릴리프밸브로서 소음 및 진동이 적고 성능이 우수합니다.
- 상부측의 분해만으로 내부 점검을 할 수 있도록 설계 제작되어 보수점검이 용이합니다.



▶ 사양 (Specifications)

Model	DRG-1F	DRG-2F
Primary Setting Pressure (kgf/cm ²)	0.5~7	0.5~7
Type	Diaphragm Type	Diaphragm Type
Design Temperature (°C)	80	80
Working Fluid	Air(Gas), Water(Liquid)	Air(Gas), Water(Liquid)
Connection	JIS 10K Flanged	JIS 10K, 20K Flanged
Materials	Body : Ductile Iron	Body : Cast Steel, Stainless Steel
	Trim : Stainless Steel, Synthetic Rubber	Trim : Stainless Steel, Synthetic Rubber

▶ 치수 (Dimensions)

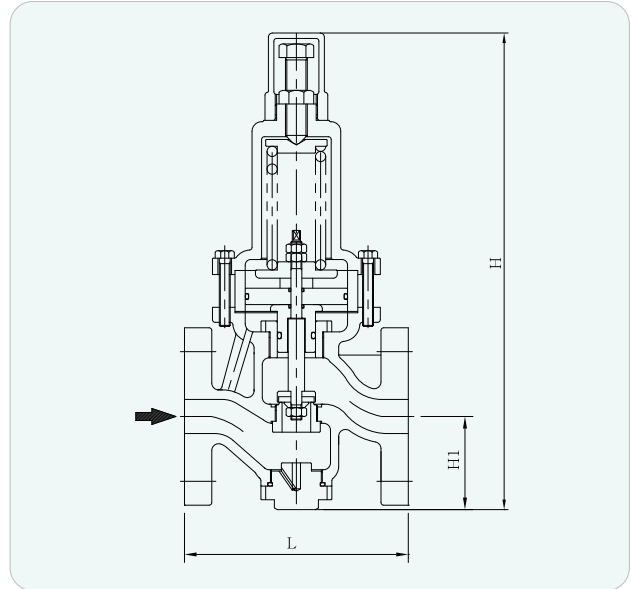
Size	Part	15A	20A	25A	32A	40A	50A	65A	80A	100A	125A	150A	200A
L		160	160	160	180	180	190	251	270	300	370	400	484
H1		65	65	65	76	76	78	95	107	127	148	163	163
H		335	335	335	400	400	407	505	525	598	728	764	764

※DRG-2F - 주문에 따라 플랜지는 ANSI, DIN 규격으로도 제작할 수 있습니다.

※주문에 따라 외부센싱 가능합니다.

PRG-1F/2F | 1차압력 조절밸브(Primary Regulating Valve—Piston Type)

- 취급이 용이하고 구조가 간단하며 내구성이 우수합니다.
- 펌프의 릴리프밸브로서 소음 및 진동이 적고 성능이 우수합니다.
- 상부측의 분해만으로 내부 점검을 할 수 있도록 설계 제작되어 보수점검이 용이합니다.



▶ 사양 (Specifications)

Model	PRG-1F	PRG-2F
Inlet Pressure (kgf/cm ² g)	MAX. 10	MAX. 20
Outlet Pressure (kgf/cm ² g)	0.5~8	0.5~15
Type	Piston Type	Piston Type
Design Temperature (°C)	150	150
Working Fluid	Air(Gas), Water(Liquid)	Air(Gas), Water(Liquid)
Connection	JIS 10K(16K) Flanged	JIS 10K, 20K Flanged
Materials	Body : Ductile Iron	Body : Cast Steel, Stainless Steel
	Trim : Stainless Steel, Synthetic Rubber	Trim : Stainless Steel, Synthetic Rubber

▶ 치 수 (Dimensions)

Size	Part	15A	20A	25A	32A	40A	50A	65A	80A	100A	125A	150A	200A
L		160	160	160	180	180	190	251	270	300	370	400	484
H1		65	65	65	76	76	78	95	107	127	148	163	163
H		361	361	361	436	436	445	554	574	656	796	832	832

※PRG-2F - 주문에 따라 플랜지는 ANSI, DIN 규격으로도 제작할 수 있습니다.

※주문에 따라 외부센싱 가능합니다.

Primary Regulating Valve



Primary Regulating Valve for Gas and Liquid

DRG-1F/2F(Direct Acting Type) 35

Primary Regulating Valve for Steam

PRG-1F/2F(Piston Type) 36

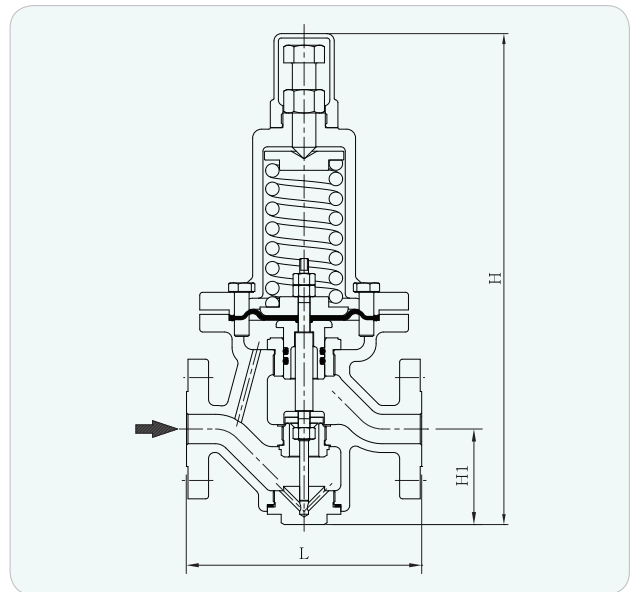


* If the pressure exceeds certain pressure, the valve is opened to allow the fluid to be flowed, keeping constantly the pressure at the top of the valve.

Primary Regulating Valve

DRG-1F/2F | Primary Regulating Valve–Direct Acting Type

- Self operated pressure regulating valve for discharging the over pressure to maintain a regular pressure at the pipe arrangement so it is a kind of relief valve.
- It is used for air regulating equipment.



► Specifications

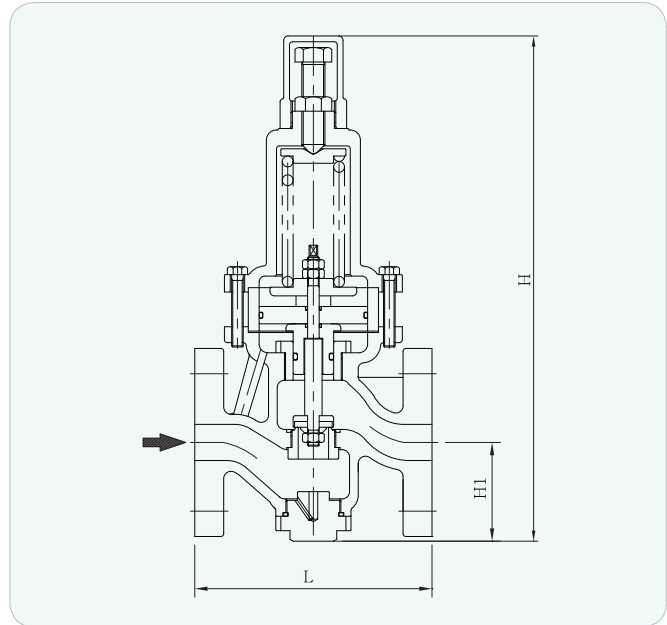
Model	DRG-1F	DRG-2F
Inlet Pressure (kgf/cm ² g)	10	20
Outlet Pressure (kgf/cm ² g)	0.5~7	0.5~7
Type	Diaphragm Type	Diaphragm Type
Working Temperature (°C)	80	80
Working Fluid	Air(Gas), Water(Liquid)	Air(Gas), Water(Liquid)
Connection	JIS 10K Flanged	JIS 20K Flanged
Materials	Body : Ductile Iron	Body : Cast Steel, Stainless Steel
	Trim : Stainless Steel, Synthetic Rubber	Trim : Stainless Steel, Synthetic Rubber

► Dimensions

Size	Part	15A	20A	25A	32A	40A	50A	65A	80A	100A	125A	150A	200A
L		160	160	160	180	180	190	251	270	300	370	400	484
H1		65	65	65	76	76	78	95	107	127	148	163	163
H		335	335	335	400	400	407	505	525	598	728	764	764

※ DRG-2F – ANSI and DIN Flange are available upon request

PRG-1F/2F | Primary Regulating Valve—Piston Type



► Specifications

Model	PRG-1F	PRG-2F
Inlet Pressure (kgf/cm ² g)	16	20
Outlet Pressure (kgf/cm ² g)	0.5~12	0.5~15
Type	Piston Type	Piston Type
Working Temperature (°C)	150	150
Working Fluid	Air(Gas), Water(Liquid)	Air(Gas), Water(Liquid)
Connection	JIS 10K(16K) Flanged	JIS 20K Flanged
Materials	Body : Ductile Iron	Body : Cast Steel, Stainless Steel
	Trim : Stainless Steel, Synthetic Rubber	Trim : Stainless Steel, Synthetic Rubber

► Dimensions

Size	Part	15A	20A	25A	32A	40A	50A	65A	80A	100A	125A	150A	200A
L		160	160	160	180	180	190	251	270	300	370	400	484
H1		65	65	65	76	76	78	95	107	127	148	163	163
H		361	361	361	436	436	445	554	574	656	796	832	832

※ PRG-2F – ANSI and DIN Flange are available upon request

Table for Sizing | DRG-1F, PRG-1F(For Liquid)

•How to use the chart

where,
 Primary pressure : 5.5kgf/cm²g {0.55Mpa}
 Secondary pressure : 2kgf/cm²g {0.2Mpa}
 Pressure differential : 3.5kgf/cm²g {0.35Mpa}
 Specific gravity : 1 (water)
 Flow : 24m³/h
 Obtain a cross point "A" by tracing down vertically from the pressure differential of 3.5kgf/cm² {0.35Mpa} L on the top up to the line of Flow 24m³/h. As the point "A" is between size 50 and 65mm. select safer size 65mm.

where,
 Same conditions except
 Specific gravity : 0.6
 Obtain a cross point "B" by tracing down vertically from the pressure differential of 3.5kgf/cm² {0.35Mpa} up to the line of specific gravity 1.0 and move in parallel with the slant line up to the cross point "C" on the line of the specific gravity 0.6 Trace down vertically to the point "D" on the cross line of Flow 24m³/h. As the point "D" is between size 40 and 50mm. select safer size 50mm.

