

## Pressure Relief Valve - Pilot Piston type - 1 1/2" to 12"

### Benefits & Features

- Compact design with no external pipe work to damage
- Pressure adjustment screw on pilot assembly
- Internal diaphragm (pilot) controls main piston body
- Pressure gauge indicates reduced pressure setting
- Constant outlet pressure, unaffected by inlet pressure fluctuations
- Designed for water supply lines, air conditioning systems etc
- High flow, ideal for firefighting applications



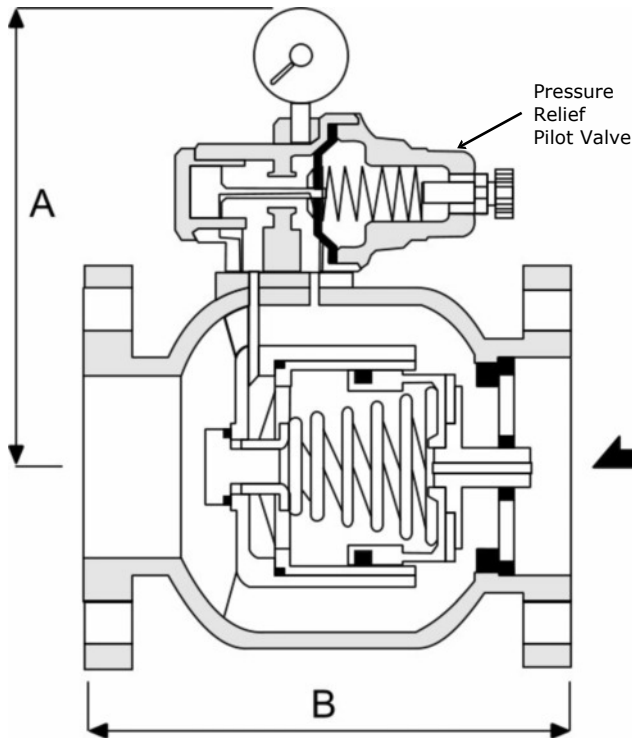
### Specification

<b>Configuration</b>	Pilot piston design
<b>Port Sizes</b>	2" to 12" flanged
<b>Orifice</b>	see table below
<b>Kv</b>	see table below
<b>Body</b>	Bronze, cast iron, ductile iron, 304 Stainless Steel and 316 stainless steel
<b>Media</b>	Air, water, liquids etc. subject to material compatibility
<b>Pressure ranges</b>	1 - 7 Bar   4 - 12 Bar
<b>Seals</b>	VITON -15 to +90°C

Model: Ported Body						Orifice mm	Min. Bar	Maximum Differential Pressures. Bar.				KV L/Min.
A	B	C			Bronze			Cast Iron	Ductile Iron	Stainless Steel		
P03	50			1 1/2"	50	0.3	16	16	20	22	686	
P03	65			2"	65	0.3	16	16	20	22	1072	
Model: Flanged Body PN16. (PN10, PN25 & ANSI 150 upon request)												
P03	50			2"	50	0.3	16	16	20	22	1072	
P03	65			2 1/2"	65	0.3	16	16	20	22	1501	
P03	80			3"	80	0.3	16	16	20	22	2002	
P03	100			4"	100	0.3	16	16	20	22	3718	
P03	125			5"	125	0.3	16	16	20	22	5577	
P03	150			6"	150	0.3	16	16	20	22	7865	
P03	200			8"	200	0.3	16	16	20	22	14300	
P03	250			10"	250	0.3	16	16	20	22	22880	
P03	300			12"	300	0.3	16	16	20	22	31460	
P03	350			14"	350	0.3	16	16	20	22	42900	
P03	400			16"	400	0.3	16	16	20	22	50050	
P03	450			18"	450	0.3	16	16	20	22	74360	
P03	500			20"	500	0.3	16	16	20	22	82940	

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### Weights & Dimensions



Port Size	Weight Kg	Dimensions mm	
		L	A
2"	10	190	95
2 1/2"	13	210	100
3"	16	225	115
4"	22	250	127
5"	30	280	150
6"	42	310	165
8"	85	420	205
10"	150	470	240
12"	200	530	275

### Order Codes

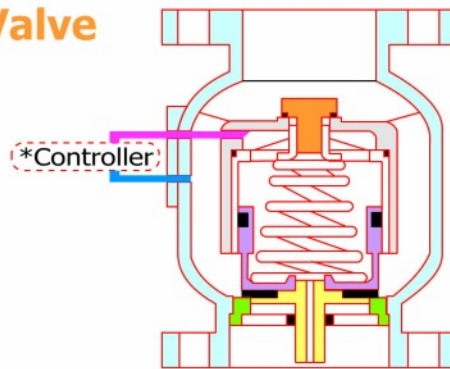
A	Body	Flanged Body PN16. ANSI 150 upon request.				C	Seals (fluid temp min / max)
T	Bronze	FL2A	2" PN16	FL6A	6" PN16	1	VITON (-15°C to + 80°C)
C	Cast Iron	FL212A	2 1/2" PN16	FL8A	8" PN16		
D	Ductile Iron	FL3A	3" PN16	FL10A	10" PN16		
H	304 Stainless Steel	FL4A	4" PN16	FL12A	12" PN16		
I	316 Stainless Steel	FL5A	5" PN16				

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### Materials of construction

### Multi Function Control Valve

\* By substituting the controller valve, the multi - function valve can become:  
 Solenoid Valve  
 Float Valve  
 Pressure Relief Valve  
 Pressure Reducing Valve  
 Pressure Sustaining Valve  
 Check Valve



- Main body
- Cylinder Bolt
- Cylinder
- Inlet to Controller
- Outlet From Controller
- U ring piston
- Inlet Guide
- Sealing seat face
- O rings

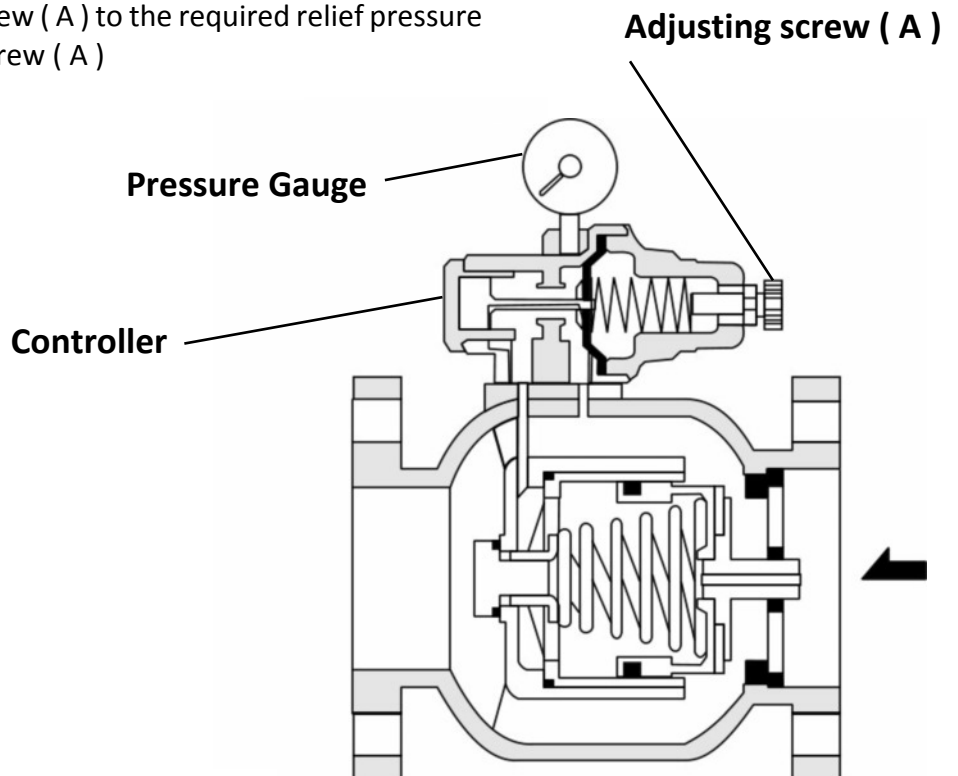
Part Name	Materials			
Main Body	<b>Cast Iron</b>	<b>Ductile Iron</b>	<b>Bronze</b>	<b>Stainless Steel</b>
Cylinder Bolt	Brass	Brass	Brass	Stainless Steel
O Ring	NBR	NBR	NBR	NBR/VITON
Cylinder	Bronze	Bronze	Bronze	Stainless Steel
Spring	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
U Ring	NBR	NBR	NBR	NBR/VITON
Piston	Bronze	Bronze	Bronze	Stainless Steel
Sealing	NBR	NBR	NBR	NBR/VITON
Seat	Bronze	Bronze	Bronze	Stainless Steel
Shaft	Bronze	Bronze	Bronze	Stainless Steel
Controller	Brass	Brass	Brass	Stainless Steel

## Installation of Pressure Relief Valve

- Confirm the valves function
- Make sure there are no impurities inside the pipeline
- Install a filter before the valve to ensure than impurities do not enter the valve
- Installing the valve between two on/off valves aids maintenance of the valve
- Check the flow direction in the main valve body
- Vertical and horizontal installation is acceptable, but ensure that there is sufficient space for valve maintenance

## Adjustment of Pressure Relief Valve

1. Open the control valve before the pressure relief valve
2. Loosen the controller adjustment screw ( A )
3. The pressure gauge indicates the inlet pressure
4. Adjust the controller screw ( A ) to the required relief pressure
5. Tighten the adjusting screw ( A )



## Trouble Shooting Guide

Feature	Cause	Solution
Valve Gate cannot open	Inlet pressure too low	Add inlet pressure or change the spring operating (contact us)
	The valves gate is jammed	Clean the gate
	Seals are broken	Replace the seals
	The main shaft is loose	Contact us