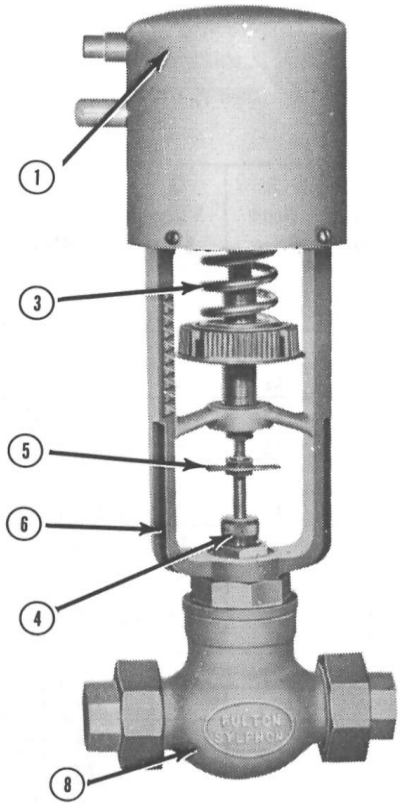
Pressure Regulator or Pressure Relief Valve RP-1073D Series

All Stainless Steel Upper works for use in corrosive atmospheres

Features

1. **Large powerful stainless steel bellows for long life and corrosion resistance.**
2. **All parts exposed to the atmosphere are made of 18-8 stainless steel.**
3. **Over-pressure protection is standard feature.**
4. **Chevron "Lifetime" stem packing made of Teflon.**
5. **Quick-detach valve stem construction permits easy valve change.**
6. **Sturdy construction with stainless steel frame**.



Sizes 1/4" thru 4"

Regulator No.		**RP-1073D1 Pressure Reg.**	**RP-1073D2 Pressure Relief Valve**
Valve See Valve Spec. Sheet for further description.	Action	Direct Acting - closes on Rising pressure.	Reverse Acting-opens on rising pressure.
	Sizes	1/4" thru 4"	1/4" thru 4"
	Type*	1/4", 3/8" ,1/2"single-seated type "A"; 3/4" thru 2" single-seated type "MA" 2 1/2" thru 4" double-seated type "FA".	Same as RP-1073-D1 except sizes 3/4" thru 4" have double-seated tye "FA".
	Ends*	1/2" thru 1 1/2", screwed bronze unions 2" thru 4", 125 lbs. ANSI flanges.	1/2" thru 1 1/2", screwed bronze unions 2" thru 4", 125 lbs. ANSI flanges.
	Trim	1/4" thru 4" stainless steel.	1/4" thru 1/2", stainless steel; 3/4" thru 1 1/2", bronze, 2" - 4", stainless steel
	Stem	Stainless Steel Quick-detach type	Stainless Steel Quick-detach type
	Stem Packing	Teflon chevrons, spring loaded	Rubber U-Cup
	Body	1/4" thru 1 1/2" Bronze 2" thru 4", Cast Iron	1/4" thru 1 1/2" Bronze 2" thru 4", Cast Iron
	Body Rating	1/4" thru 1 1/2", 250 psi 2" thru 4", 125 psi	1/4" thru 1 1/2", 250 psi 2" thru 4", 125 psi
Materials For Parts other than Listed above.	Frame	Stainless Steel	Stainless Steel
	Adj. Spring	Stainless Steel	Stainless Steel
	Other Parts	Stainless Steel	Stainless Steel
	Location Size	Side of Head	Side of Head
		1/4" NPT	1/4" NPT

* On 1/2" size with 1/4" and 3/8" reduced ports, the "A" type valve with threaded unions is cataloged.

HOW TO ORDER

Specify:

1. Quantity
2. Regulator number
3. Valve size, type, action, etc.
4. Medium through valve (steam, etc.)
5. Initial and reduced pressures (PSIG)
6. Special features desired.
7. Shipping and billing instructions.

RP 1073 D Series

Dimensions, Shipping Weights and Sensing Bulb Sizes

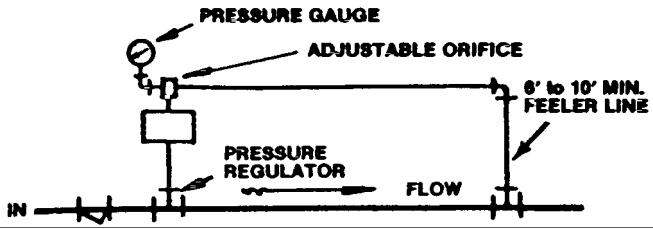
Valve Size, Inches	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2	2 1/2	3	4
Direct-Acting Valve Type	A	A	A	MA	MA	MA	MA	MA	FA	FA	FA
A	15-1/16	15-1/16	15-1/16	16-15/16	16-15/16	17-1/8	17-1/8	18-7/16	18-1/4	18-1/4	19-5/16
B	13-1/2	13-1/2	13-1/2	13-1/2	13-1/2	13-1/2	13-1/2	13-1/2	13-1/2	13-1/2	13-1/2
D	1-9/16	1-9/16	1-9/16	3-7/16	3-7/16	3-5/8	4-1/8	4-15/16	4-3/4	4-3/4	5-13/16
E	4-3/4	4-3/4	4-3/4	6-15/16	7-1/8	7-1/2	8-1/2	7	7-3/4	8 5/8	10-1/4
Regulator No.	**Shipping Weight Lbs.**										
RP-1073D	28	28	29	30	34	40	45	80	100	125	155

RP-1073-Dl Operating Characteristics - Direct Acting Valve

1 Valve Size	2 Port Size	3 Valve Lift +1/32 -0	4 ΔP, PSIG	Control Pressure (P2, PSIG) when supply pressure (PI) is 0 PSIG						To determine control pressure (P2) when supply pressure (P1) is more than 0 PSIG, adjust 0 PSIG value as listed below.
				Low End of Range			High End of Range			
				Valve Fully Open	Nominal Set Point, Mid Stroke	Valve on Seat	Valve Fully Open	Nominal Set Point, Mid Stroke	Valve on Seat	
Single Ported Valves Type A										
1/2	1/4	1/8	2.8±0.4	3	4.4	5.8±0.4	37.2±0.4	38.6	40	Add 0.004xP1
1/2	3/8	5/32	3.5±0.5	3	4.8	6.5±0.5	36.5±0.5	38.2	40	Add 0.008xP1
1/2	1/2	3/16	4.2±0.6	3	5.1	7.2 ±0.6	35.8±0.6	37.9	40	Add 0.015xP1
Single Ported Valves Type MA										
3/4	3/4	1/4	5.6±0.8	3	5.8	8.6±0.8	34.4±0.8	37.2	40	Minus 0.006 x P1
1	1	5/16	7.0±1.0	3	6.5	10.0±1.0	33±1.0	36.5	40	Minus 0.006 x P1
1-1/4	1-1/4	3/8	8.4±1.2	3	7.2	11.4±1.2	31.6±1.2	35.8	40	Minus 0.006 x P1
1-1/2	1-1/2	7/16	9.6±1.4	3	7.9	12.8±1.4	30.2±1.4	35.1	40	Minus 0.006 x P1
2	2	9/16	12.6±1.8	3	9.3	15.6±1.8	27.4±1.8	33.7	40	Minus 0.006 x P1
Double Ported Valves Type FA										
2-1/2	2-1/2	3/8	8.4±1.2	3	7.2	11.4±1.2	31.6±1.2	35.8	40	Add 0.035 x P1
3	3	7/16	9.8±1.4	3	7.9	12.8 ±1.4	30.2±1.4	35.1	40	Add 0.042 x P1
4	4	9/16	12.6±1.8	3	9.3	15.6±1.8	27.4±1.8	33.7	40	Add 0.057 x P1

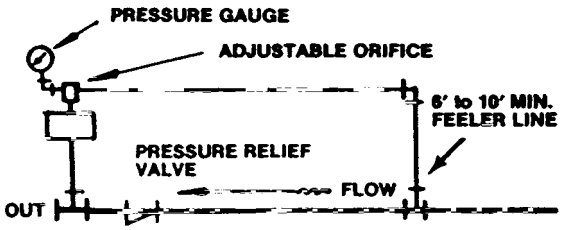
RP-1073-D2 Operating Characteristics - Reverse Acting Valve

1 Valve Size	2 Port Size	3 Valve Lift +1/32 -0	4 ΔP, PSIG	Control Pressure (P2, PSIG) when supply pressure (P1) is 0 PSIG					To determine control pressure (P2) when supply pressure (P1) is more than 0 PSIG, adjust 0 PSIG value as listed below.
				Low End of Range		High End of Range			
				Valve Nominal Fully Set Point, Open Mid Stroke	Valve on Seat	Valve Fully Open	Nominal Set Point, Mid Stroke	Valve on Seat	
Single Ported Valves Type A									
1/2	1/4	1/8	2.8±0.4	3	4.4	5.8±0.4	37.2±0.4	38.6	40	Minus 0.004 x P1
1/2	3/8	5/32	3.5±0.5	3	4.8	6.5±0.5	36.5±0.5	38.2	40	Minus 0.008 x P1
1/2	1/2	3/16	4.2±0.6	3	5.1	7.2±0.6	35.8±0.6	37.9	40	Minus 0.015 x P1
Double Ported Valves Type FA									
3/4	3/4	5/32	3.5±0.5	3	4.8	6.5±0.5	36.5±0.5	38.2	40	Minus 0.006 x P1
1	1	3/16	4.2±0.6	3	5.1	7.2±0.6	35.8±0.6	37.9	40	Minus 0.009 x P1
1-1/4	1-1/4	7/32	4.9±0.7	3	5.4	7.9±0.7	35.1±0.7	37.6	40	Minus 0.009 x P1
1-1/2	1-1/2	1/4	5.6±0.8	3	5.8	8.6±0.8	34.4±0.8	37.2	40	Minus 0.011 x P1
2	2	5/16	7.0±1.0	3	6.5	10.0±1.0	33.0±1.0	36.5	40	Minus 0.028 x P1
2-1/2	2-1/2	3/8	8.4±1.2	3	7.2	11.4±1.2	31.6±1.2	35.8	40	Minus 0.035 x P1
3	3	7/16	9.8±1.4	3	7.9	12.8±1.4	30.2±1.4	35.1	40	Minus 0.042 x P1
4	4	9/16	12.6±1.8	3	9.3	15.6±1.8	27.4±1.8	33.7	40	Minus 0.057 x P1



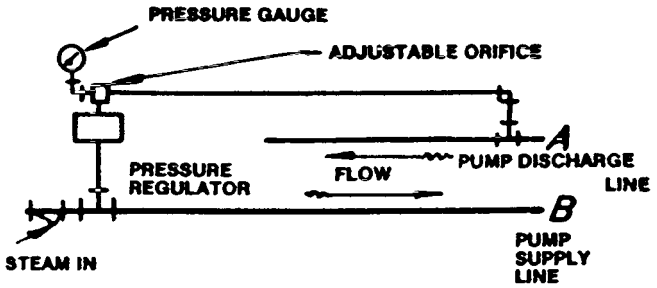
PRESSURE REDUCTION

Figure 1- Typical installation of a pressure regulator showing: feeler pipe connection, adjustable orifice and pressure side of supply line at a point 6 ft. to 10 ft. minimum from regulator valve.



MODULATING PRESSURE RELIEF

Figure 2 -Shows an installation of a pressure relief valve. The feeler pipe is connected to the high pressure or upstream side of the supply line at a point 6 ft. or 10 ft. minimum from the regulator valve.

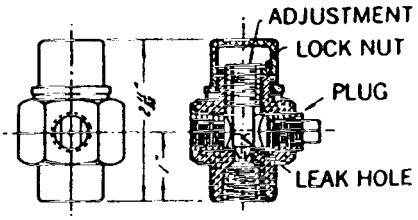


PUMP GOVERNOR

Figure 3 - Regulator can be used to protect a pump on a dual line system as a governor, single line system as a back pressure regulator; or recirculation loop as a downstream pressure relief back to pump intake. Illustrated is pressure regulator as a pump governor on a steam-driven pump. Feeler line is connected to pump discharge line "A" so that pumped medium pressure determines the amount of steam supplied to the pump through line "B".

ADJUSTABLE ORIFICE NO. 94204-A1

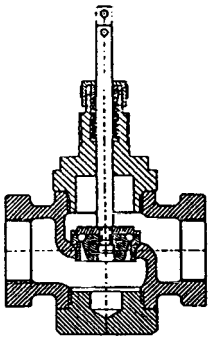
Damps out rapid pressure fluctuations in feeler pipe ... protects control bellows. Always recommended but supplied only on order at extra cost



All parts made of brass, 1/4" pipe connections. Pipe plug may be removed for installation of pressure gauge. No. 94204-A2 is available without leak hole.

Stainless Steel Valve Substitution

Style "CSS" Valve Assembly
(Now Available)



Direct or Reverse Acting
St. St. Body,
St. St. Trim
Sizes 1/2" - 1"
Soft-Seated for tight shut off
See product spec for more details.

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