

Location: _____



ACV-HF-T-PR

FULL PORT HIGH FLOW PRESSURE REDUCING VALVES

Specification: BEECO® "PR" model pressure reducing control valve is the hydraulic control valve which reduces high upstream pressure value into desired lower pressure value by means of built-in pressure reducing pilot valves. Pressure reducer control valve controls downstream pressure value continuously and maintains it constant without being affected from flow rate and upstream pressure values. When no flow exists in the system, it is closed by itself automatically. When valve upstream pressure value decreases below adjusted downstream pressure value, it is opened fully by itself.



FLANGED BY FLANGED (ANSI 150)

Model Number	Size	Qty. per Carton	Weight per Carton (Lbs.)
ACV2.00-HF-T-PR	2"	1	32
ACV3.00-HF-T-PR	3"	1	55
ACV4.00-HF-T-PR	4"	1	88
ACV6.00-HF-T-PR	6"	1	182
ACV8.00-HF-T-PR	8"	1	351

MAIN CONTROL SYSTEM COMPONENTS:

- 1) Main Valve
- 2) Ball Valve
- 3) Finger Filter
- 4) Orifice or optional needle valve
- 5) PRP2W Pressure Reducing Pilot Sizes: 2"-5" (PN16) Figure1
- 6) PRBP Pressure Reducing Pilot Sizes: 2"-8" (PN16-25)-Figure2

Figure 1

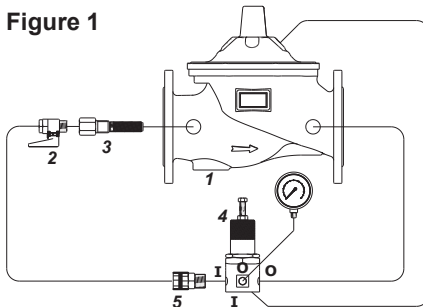
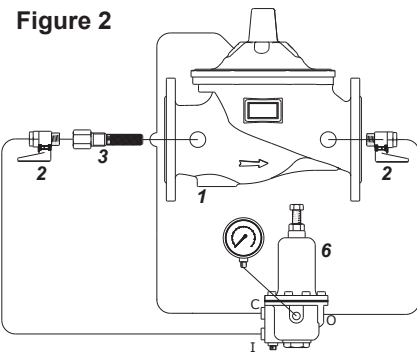


Figure 2



TECHNICAL SPECIFICATIONS:

GENERAL SPECIFICATIONS

Operation Pressure	10 PSI - 360 PSI
Working Temperature	(15° F) - (175° F)
Size Range	2" - 8"
Main Valve Type	Diaphragm Actuated Disc Closed Globe Single Chamber

MATERIAL PROPERTIES

Body - Cover	Ductile Iron
Diaphragm	Reinforced Natural Rubber (standard) EPDM (optional)
Internals	Stainless Steel, Ductile Iron w/ epoxy coated
Coating	Epoxy Powder (Blue)
Seals	NBR

CONTROL SYSTEM

Pressure Reducing Pilot	Brass (standard) Stainless Steel (optional)
Fittings	Forged Brass (standard) Stainless Steel (optional)
Tubing	Copper (standard) Reinforced nylon airbrake (optional) Stainless Steel (optional)

CONNECTION

Flanged	Standard Class 150
---------	--------------------

CALIFORNIA PROPOSITION 65 WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Job Name: _____

Page No: _____

Section No: _____

Contractor: _____

Schedule No: _____

Purchase Order No: _____

Location: _____



ACV-HF-T-PR

FULL PORT HIGH FLOW PRESSURE REDUCING VALVES

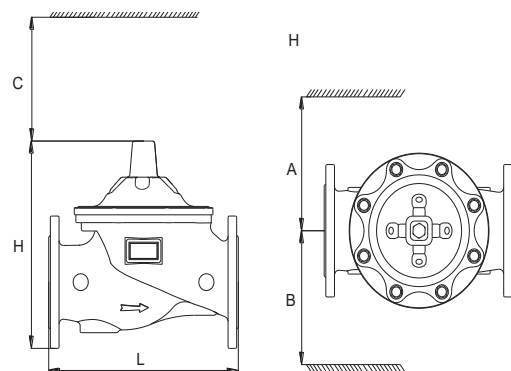
QUICK SIZING:

Maximum recommended
flow velocity for
continuous operation
5.5m/s.

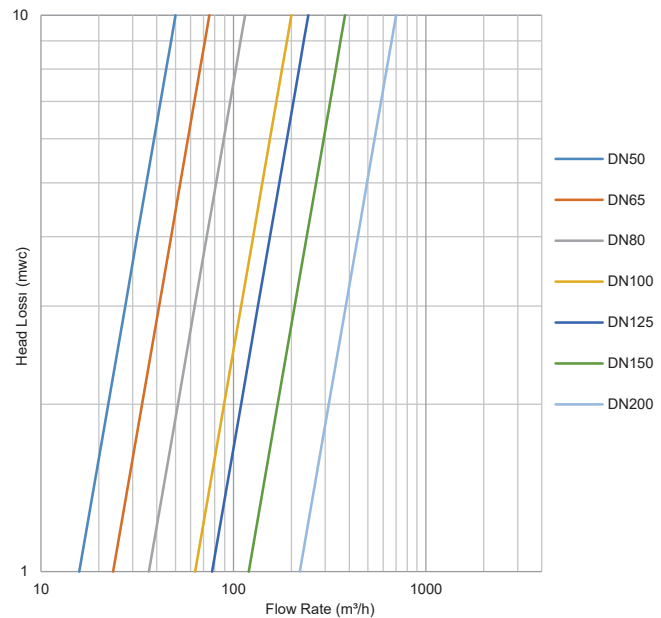
Valve Size	mm	50	65	80	100	125	150	200
Kv	inch	2	2½	3	4	5	6	8
Kv	m³/h @ 1 bar	50	75	115	200	245	380	700
Cv	gpm @ 1 psi	58	87	133	231	283	439	809
Maximum Flow Continuance	m³/h	39	66	100	156	243	350	622
	gpm	171	289	438	685	1070	1541	2739
Maximum Flow Intermittent	m³/h	78	131	199	311	486	573	848
	gpm	342	579	876	1369	2140	2521	3735

DIMENSIONS:

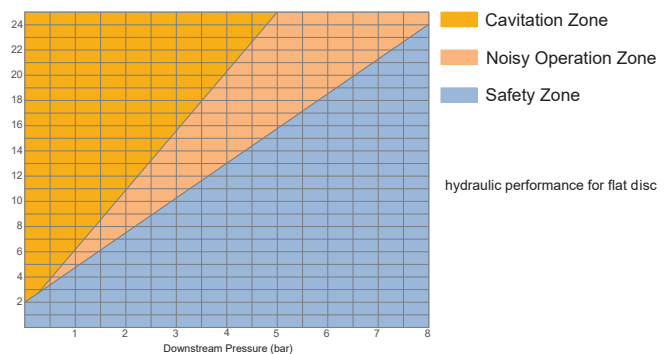
Size		H,C	L	A, B
inch	mm	inch	inch	inch
2	50	10.23	9	15.3
2 ½	65	10.6	11.4	15.3
3	80	12.4	12.2	16.3
4	100	13.7	13.7	17
5	125	17.7	15.7	18
6	150	21.4	18.9	19.6
8	200	24.6 ^C	23.6	20.8



FLOW CHART:



CAVITATION CHART:



CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Job Name: _____

Page No: _____

Section No: _____

Contractor: _____

Schedule No: _____

Purchase Order No: _____

Location: _____



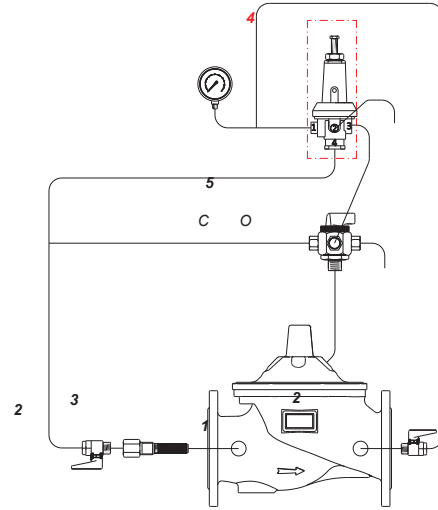
ACV-HF-T-PR

**FULL PORT HIGH FLOW PRESSURE
REDUCING VALVES**

NOTE:

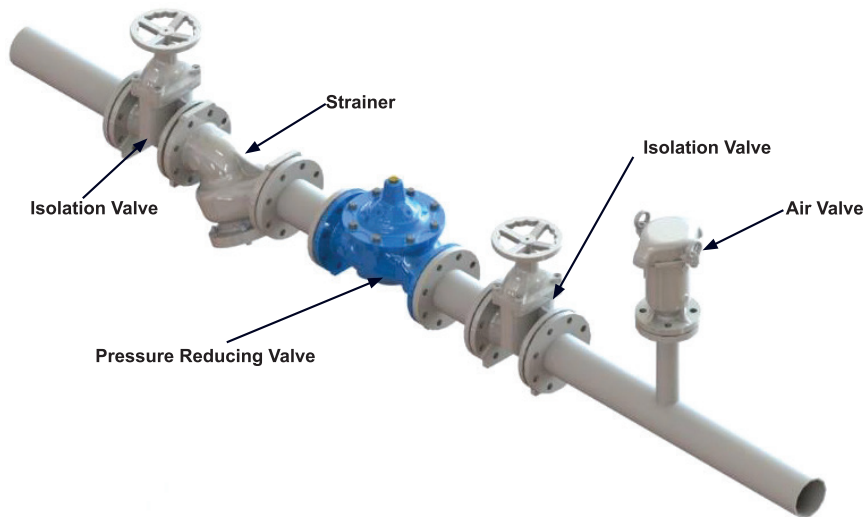
3-way pilots are recommended to use at the application which has very close values between upstream and set pressure because of
3-way pilots provide less head loss.

- 1) Main Valve
- 2) Ball Valve
- 3) Finger Filter
- 4) "PRSP3W" Multi-Functional Pilot
Sizes: 2" - 8" (PN16-25)
- 5) 3 Way Selector Valve
AR3 (2" - 5")
AR6 (6" - 8")



TYPICAL INSTALLATION:

BEECO® Pressure Reducing Valves reduce pressure to set downstream pressure value without affecting upstream pressure value at pressure chambers and supplying lines.



CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Job Name: _____

Page No: _____

Section No: _____

Contractor: _____

Schedule No: _____

Purchase Order No: _____