PRESSURE REDUCING VALVE

MODEL: SD-PRV-G150 / SD-PRV-A150
SD-PRV-G300 / SD-PRV-A300

- Globe or Angle Pattern
- Rated inlet pressure of 250psi & 300psi
- Available in Iron Body, Ductile Iron and Bronze body material
- Accurate Pressure Control
- In Line Service
- Grooved Ends (1 1/2" - 8")
- End Configuration: 150lb Class & 300lb Class

DESCRIPTION

SD-PRV-G (Globe) and SD-PRV-A (Angle) Pressure Reducing Valves are indispensable in any fire protection system. Our diaphragm actuated design is proven highly reliable and easy to maintain. We offer both a globe or angle pattern with a full range of adjustments. These valves are also available in a variety of material options. Epoxy coating is strongly recommended for all fire system valves (excluding bronze valves). The SD-PRV-G and SD-PRV-A can be supplied with optional internal and external epoxy coating of the main valve wetted surfaces.

FUNCTION

SD-PRV-G (globe) and SD-PRV-A (angle Pressure Reducing Valves automatically reduce a higher inlet pressure to a steady lower outlet pressure regardless of changing flow rate and/or varying inlet pressure. The valves pilot control system is very sensitive to slight downstream pressure fluctuations, and will automatically open or close to maintain the desired pressure setting. The downstream pressure can be set over a wide range by turning the adjustment screw on the CRD pilot control. The adjustment screw is protected by a screw-on cover, which can be sealed to discourage tampering.

SPECIFICATIONS

Size:	150 lb. Class	1 1/2" - 12" (Globe) 2" - 12" (Angle)
	300 lb. Class	1 1/2" - 12" (Globe) 2" - 12" (Angle)
End Details:	150 ANSI B16.42 (Ductile Iron) (Bronze) 300# (Ductile Iron) 300# (Cast Steel) 300# (Ductile Grooved End)	

Pressure Differential: 10 PSI Min.

Pressure Adjustment Range:

150 lb. Class	30 – 165 psi & 30 - 175 psi
300 lb. Class	30 – 165 psi & 30 - 175 psi

Temperature Range:	Water to 180°F Max.

MATERIALS

Main valve body & cover	Ductile Iron - ASTM A536
Main valve internal trim	Bronze ASTM B61
Pilot control system– Pilot control valve	Bronze ASTM B62 with Stainless Steel 303 internal trim
	Copper tubing with brass fittings
Main valve and pilot valve diaphragm and disc	Buna-N synthetic rubber

TYPICAL APPLICATION

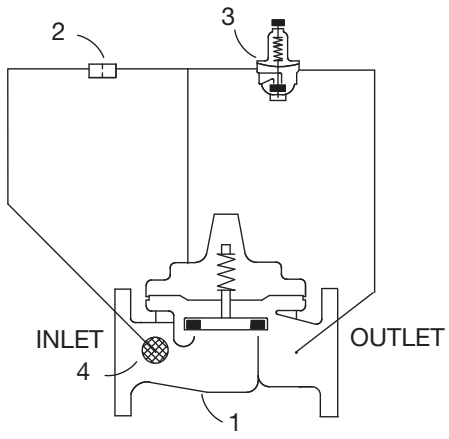
Underwriters Laboratories requires the installation of pressure gauges upstream and downstream of the Pressure Reducing Valve. Also, a relief valve of not less than 1/2 inch in size must be installed on the downstream side of the pressure control valve. Adequate drainage for the relief valve discharge must be provided.

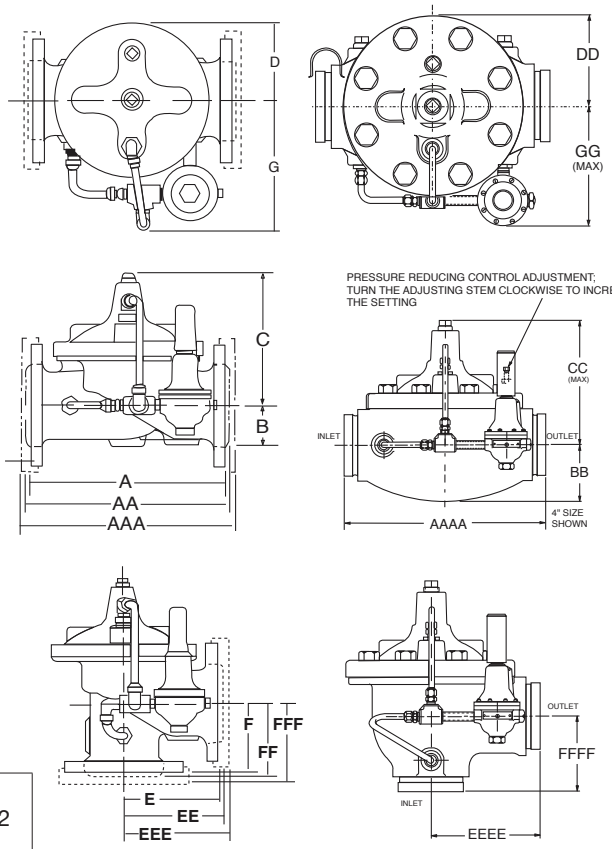
SCHEMATIC DIAGRAM

Item Description

1 Hytrol (Globe or Angle) 2 Restriction Tube Fitting

3 Pressure Reducing Control 4 Flow Clean Strainer





FLOW CAPACITY TABLE

Valve Size (Inch)	1½	2	2½	3	4	6	8	10	12
Maximum Flow Rate (GPM of Water)	160	262	373	576	992	2251	3900	6000	8900

Valve size	1½”	2”	2½”	3”	4”	6”	8”	10”	12”
A Threaded	184	238	279	318	---	---	---	---	---
AA 150 ANSI	216	238	279	305	381	508	645	756	864
AAA 300 ANSI	229	254	295	337	397	533	670	790	902
AAAA Grooved End	216	228	279	318	381	508	645	---	---
B	28	38	43	65	81	109	135	235	273
BB Grooved End	52	54	64	79	105	152	184	---	---
C Max.	140	161	192	208	270	340	406	435	530
CC Max. Grooved End	104	127	175	165	223	281	369	---	---
D	71	84	102	116	146	200	254	---	---
DD Grooved End	71	84	102	116	146	200	254	---	---
E Threaded	83	121	140	159	---	---	---	---	---
EE 150 ANSI	102	121	140	152	191	254	324	378	432
EEE 300 ANSI	108	127	149	162	200	267	349	395	451
EEEE Grooved End	---	121	---	152	191	---	---	---	---
F Threaded	48	83	102	114	---	---	---	---	---
FF 150 ANSI	102	83	102	102	127	152	203	219	349
FFF 300 ANSI	108	89	109	111	135	165	216	236	368
FFFF Grooved End	---	121	---	114	127	---	---	---	---
G Max.	191	197	197	203	228	241	267	---	---
GG Max.	206	203	---	207	236	267	292	---	---

Unit : mm