

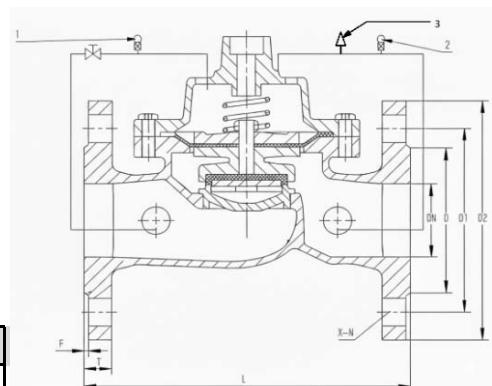
## Pressure Reducing Valve (PRV)

**AFE - P1**

Pressure Reducing Valve (PRV) is designed to reduce high upstream pressure to a precise, preset, stable downstream pressure, so to maintain the desired pressure in fire pipeline. It is a kind of globe style pilot operated valve to open or close automatically, and no need change flow rate or vary inlet pressure. Due to its exceptional reliability and low head loss it is ideal for control of fire pump discharge. **It is also well-suited to prevent over-pressure in sprinklers, hose stations, and other discharge devices.** It is intended to automatically maintain the outlet "set pressure" (static and residual) within a close range, regardless of fluctuations in the higher pressure inlet line or varying flow rates.

### Specifications:

- Pressure Reducing Valve: Reducing a higher upstream pressure into a lower, constant downstream pressure.
- Operates over a wide flow range.
- Set Pressure is adjustable with single screw.
- Can be maintained without removal from the pipe line.
- Flanged to EN 1092-2 PN10/PN16, ANSI B16.1 Class125.
- Adjustment Range of Outlet Pressure: **65 to 165 psi**.
- Rated Working Pressure: **16 Bar**
- Fusion Bonded Epoxy Coated Interior and Exterior to AWWA C550 Standard.
- CCCF Approved.



No.	Components
1	Pressure Gauge
2	Pressure Gauge
3	Pilot Valve

### Material Specifications:

Part Name	Material	ASTM Specification
Body	Ductile Iron	A536 Grade 65-45-12
Bonnet	Ductile Iron	A536 Grade 65-45-12
Diaphragm	NBR (Rainforced)	ASTM D1418
Valve Seat	SS 304	ASTM 304
Spring	Stainless Steel	A276 Type 304
Bolt	SS 201	A240 Grade 201
Pilot Valve	Stainless Steel	A276 Type 304
Valve Stem	Stainless Steel	A276 Type 304
Stem Nut	SS 201	A240 Grade 201

### Main Dimensions (mm /inch)

Valve Dia	DN (mm)	L (mm)	D2 (mm)	x-n (mm)	D1 (mm)	D (mm)
3"	80	275	200	8 - 19 dia	160	132
4"	100	306	220	8 - 19 dia	180	156
6"	150	375	285	8 - 23 dia	240	211

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