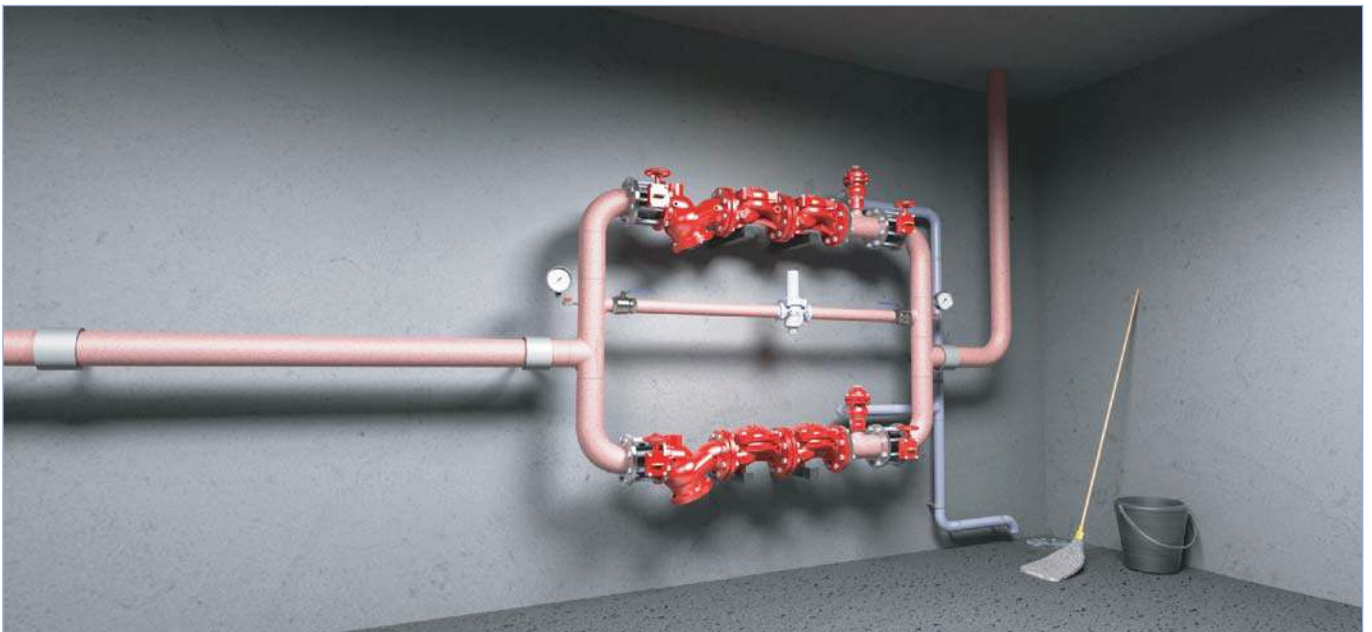


## Pressure Reducing Valve

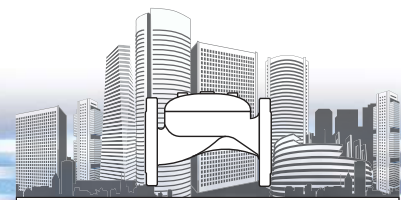
Hydraulically operated, pressure reducing control valve that reduces higher upstream pressure to lower constant downstream pressure, regardless of fluctuating demand or varying upstream pressure. BERMAD 400 series valves are hydraulically operated, simple and reliable, globe valves with full bore hydrodynamic body providing an unobstructed flow path and superior performance. The valve's balanced rolling-diaphragm assembly is vulcanized with a rugged radial seal disk construction, performing as the valve's only moving part.



For illustration only

### Typical Application

- Pressure control of fire protection water supply lines in building hydrants and fire hoses
- Pressure protection of hydrants and fire hoses in parking areas, basements and other low zones in buildings, where these systems are exposed to excessive pressure
- Pressure reduction of hydrant supply lines feed from high pressure sprinkler systems



400 Series

Pressure & Pump

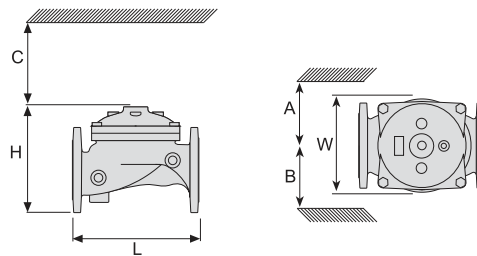
Model FP-420-BF

## Features and Benefits

- High quality construction materials ensure reliable, long lasting operation
- Fully supported and balanced rolling diaphragm – low actuation pressure and excellent low flow regulation performance
- Ensured operation after long standby periods
- Straightforward design of three major components – easy and simple on-site inline maintenance with minimal down time
- 2-way pilot and control loop that continuously sense downstream pressure and immediately control the valve accordingly, providing stable, reliable and accurate pressure modulation under a wide range of flow-rate and pressure conditions
- Pressure modulation by the hydraulic force of the line pressure – no external power source needed
- Pilot and control loop constructed from heavy duty environment friendly materials provide long lasting and reliable operation

## Technical Data

Size		Kv	A,B	C	L	H	W			Weight (kg)	
DN	Inch						Thr	Fla	Gro	Th/Fl	Gro
50	2"	57	330	68	205	155	119	155	119	9	5
65	2½"	78	340	110	205	178	129	178	n/a	10.5	10.5
80	3"	136	350	125	250	210	170	200	170	19	10.6
100	4"	204	360	145	320	242	n/a	223	204	28	16.2
150	6"	458	400	205	415	345	n/a	306	306	68	49
200	8"	781	430	260	500	430	n/a	365	n/a	125	125



## End Connections:

**Grooved:** ANSI/AWWA C606

Optional: Flanged ANSI B16.42 (Ductile Iron), ISO PN16

Threaded: NPT or ISO-7-Rp for 2, 2½ & 3"

**Pressure Rating:** Max. inlet: 250 psi (17 bar)

**Valve Pattern:** Globe

**Water Temperature:** Water up to 50°C (122°F)

## Main Construction Materials:

**Body, cover & Actuator:** Ductile Iron ASTM A-536

**Internals:** Stainless Steel & Elastomer

**Control Trim:** System Brass control components / accessories

Copper & Brass tubing & fittings

Optional: Stainless Steel 316

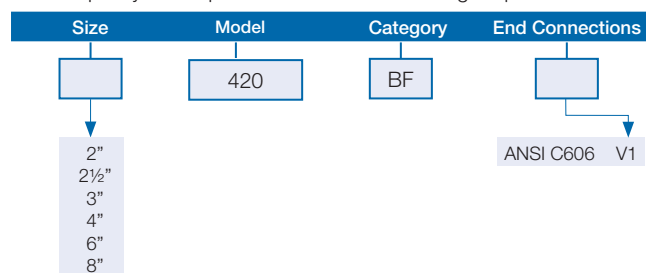
**Elastomers:** Nylon fabric reinforced polyisoprene NR

**Coating / colour:** Electrostatic Powder Coating Polyester Red

For other optional materials consult BERMAD

## How to Order

Please specify the requested valve in the following sequence:



For full technical specifications, see Engineering section or consult BERMAD

[info@bermad.com](mailto:info@bermad.com) • [www.bermad.com](http://www.bermad.com)

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