TYPE E6 MAIN VALVE

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HIGH PRESSURE–HIGH LIFT COLD SERVICE

SIZES 3/4" – 12"
PRESSURES to 250 PSIG at 200°F

- **Normally Closed**
- **Single Seat**
- **Balanced Nitrile Diaphragm**
- **Protected Main Spring**
- **Composition Disc for Tight Shutoff**
- **Air & Gas Applications**
- **Accurate Regulation Unaffected by Service Conditions**
- **ANSI/FCI 70-2 Class VI Shutoff**
- **Virtually Frictionless for Long Service Life**
- **Packless Construction**
- **Easy In-line Maintenance**
- **Wide Variety of Pilots for Many Applications**

Application Data

- Pressure Regulating for Compressed Air Distribution
- Pressure Regulating for Gas Service
- Maintain Back Pressure or Differential Pressure
- For use with Self-contained, Pneumatic or Electronic Pilots
- Single Point or Multiple Use Applications
- Slow Start-up or Shutdown

Valve Ratings

Valve Ends ASME/ANSI	Pressure PSIG (bar)		Temperature °F (°C)
CAST IRON			
B16.4 Class 250 NPT	250 (17.2)	@	200 (93)
B16.1 Class 125 Flanged	125 (8.6)	@	200 (93)

Other pressure/temperature ratings available; consult factory.

Canadian Registration # OC 0591.9C

Installation Tip: Add EZ Connections for ease of maintenance
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SIZING INFO
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Options

- Dashpot for Water Service
- Insulcap Insulating Jacket
- EZ Connections
- Integral Mount Pilot
- Balanced Construction

Typical Configurations

Pressure Reducing .....**Type E6D**
Air Adjusted .....**Type E6A**
Back Pressure .....**Type E6Q**
Pump Governor .....**Type E6P**
Load Allocating .....**Type E6FD**
Air Controlled .....**Type E6AP60**
Electronic Slow Start .....**Type E6D208D**
Solenoid Controlled .....**Type E6MD**
Solenoid Actuated .....**Type E6M**
Differential.....**Type E6N**
Temperature Control .....**Type E6T**

RATED FLOW COEFFICIENTS (Cv)

SEAT FACTOR	REGULATOR SIZE												
	3/4	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12
Full	7.6	11.7	18.9	27.4	43	67	95	159	258	350	665	1018	1611
Normal	5.7	10.0	13.4	19.8	25	35	59	120	176	228	366	525	952

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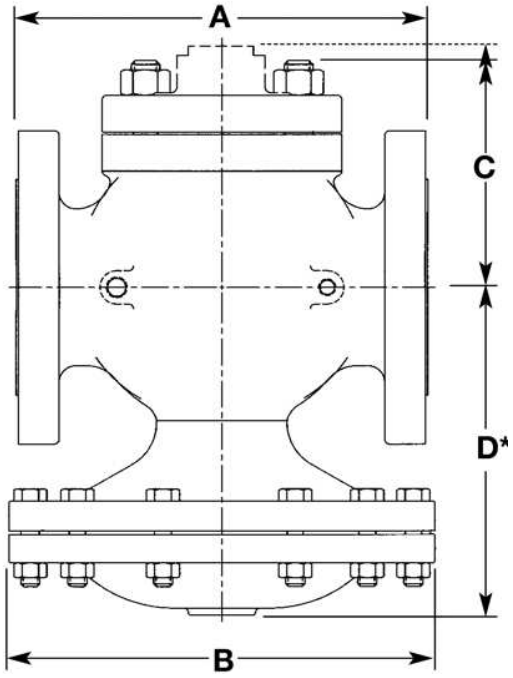
Specification

The valve shall be self-operated, external pilot type, single seated, composition disc, nitrile diaphragm actuated, normally closed design. The valve will function quickly and shut tight on dead end service. Seats and stems shall be of stainless steel. There shall be no springs in the flow space and no stuffing box. The valve shall be easy to maintain with all parts accessible without removal from the line.

Materials of Construction

Body, Cast Iron .....ASTM A126 Cl. B
Stem .....303 St. Stl. ASTM A582
Disc .....Nitrile Comp.
Seat 3/4 - 5" .....420 St. Stl. ASTM 473 CA-40
Seat 6 - 8" .....316 St. Stl. ASTM A743 CF-8M
Gasket .....Non-asbestos
Diaphragm .....Nitrile
Spring .....Steel
Disc Holder .....ASTM B16 UNS C36000



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FITTINGS ON PAGE 44

DIMENSIONS inches (mm) **AND WEIGHTS** pounds (kg)

SIZE	DIMENSIONS							APPROX. WT.		
	A			B	C		D*			
	ANSI NPT	ANSI 125	ANSI 250		Std. Mount	Integral Mount		ANSI NPT	ANSI 125	ANSI 250
3/4 (19)	4 3/4 (111)	— —	— —	6 7/8 (175)	2 7/8 (73)	3 5/8 (92)	6 3/8 (162)	18 (8)	— —	— —
1 (25)	5 3/8 (137)	5 1/2 (140)	6 (152)	6 7/8 (175)	3 5/8 (92)	4 3/8 (111)	6 5/8 (168)	18 (8)	27 (129)	30 (14)
1 1/4 (32)	6 1/2 (165)	6 3/4 (171)	7 1/4 (184)	9 1/8 (232)	4 1/8 (105)	4 (102)	7 3/4 (197)	37 (17)	39 (18)	44 (20)
1 1/2 (38)	7 1/4 (184)	6 7/8 (175)	7 3/8 (187)	9 1/8 (232)	4 3/8 (111)	4 1/2 (114)	7 7/8 (200)	42 (19)	50 (23)	56 (25)
2 (51	7 1/2 191)	8 1/2 (216)	9 (229)	11 1/8 (283)	5 1/4 (133)	5 (127)	8 5/8 (219)	66 (30)	73 (33)	81 (37)
2 1/2 (64)	— —	9 3/8 (238)	10 (254)	11 1/8 (283)	5 3/4 (146)	5 3/8 (137)	9 (229)	— —	83 (38)	95 (43)
3 (76)	— —	10 (254)	10 3/4 (273)	13 1/2 (343)	6 5/8 (168)	6 3/8 (162)	9 7/8 (251)	— —	124 (56)	146 (66)
4 (102)	— —	11 7/8 (302)	12 1/2 (318)	13 1/2 (343)	7 5/8 (194)	6 5/8 (168)	12 3/4 (324)	— —	206 (94)	234 (106)
5 (127)	— —	13 5/8 (346)	14 1/2 (368)	13 1/2 (343)	8 1/2 (216)	7 3/8 (187)	13 1/4 (337)	— —	275 (125)	287 (130)
6 (152)	— —	15 1/8 (384)	16 (406)	16 3/4 (425)	10 (254)	7 (178)	15 1/2 (394)	— —	363 (165)	431 (196)
8 (203)	— —	19 (483)	20 (508)	16 3/4 (425)	11 1/2 (292)	9 1/4 (235)	17 5/8 (448)	— —	508 (231)	610 (277)

*Add 100% to D dimension for stem removal clearance.