

TYPE C34 MAIN VALVE

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BALANCED SINGLE SEAT LIQUID SERVICE

SIZES 1" – 6"

PRESSURES to 200 PSIG at 200°F

- Normally Closed
- Single Seat
- Hycar Diaphragm
- Balanced Composition Disc
- Protected Main Spring
- Balanced Piston Design without Dashpot
- Fluid Applications
- Accurate Regulation for Non-violent Load Fluctuations
- ANSI/FCI 70-2 Class VI Shutoff
- Virtually Frictionless for Long Service Life
- Packless Construction
- Wide Variety of Pilots for Many Applications

OPTIONS *See page 42*

- EZ Connections

APPLICATION DATA

- Pressure Regulating for Liquid Distribution
- Regulating for Process Control (Temperature or Pressure)
- 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)
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CAST IRON

B16.4 Class 250 NPT	200 (13.8)	@ 200 (93)
B16.1 Class 125 Flanged	165 (11.4)	@ 200 (93)
B16.1 Class 250 Flanged	200 (13.8)	@ 200 (93)

Canadian Registration # OC 0591.9C

Installation Tip: Add EZ Connections for ease of maintenance
SEE PAGE 42

SIZING INFO
PAGE 108

TYPICAL CONFIGURATIONS

- PRESSURE REDUCINGTYPE C34D
- AIR ADJUSTEDTYPE C34A
- BACK PRESSURETYPE C34Q
- PUMP GOVERNORTYPE C34P
- LOAD ALLOCATINGTYPE C34FD
- AIR CONTROLLEDTYPE C34AP60
- ELECTRONIC SLOW STARTTYPE C34D208D
- SOLENOID CONTROLLEDTYPE C34MD
- SOLENOID ACTUATEDTYPE C34M
- DIFFERENTIALTYPE C34N
- COOLING CONTROLTYPE C34T

RATED FLOW COEFFICIENTS (Cv)

REGULATOR SIZE								
1	1¼	1½	2	2½	3	4	5	6
5.5	12.5	17.3	24	36	53	86	139	196

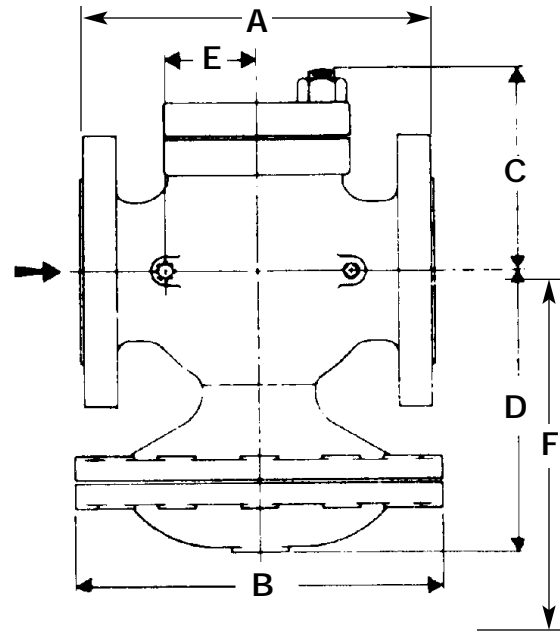
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SPECIFICATION

The valve shall be self-operated, external pilot type, single seated, diaphragm actuated, normally closed design. The valve will shut tight on dead end service and shall maintain a discharge pressure which will not vary more than 10% (2 psi minimum) of set point from zero flow to rated flow regardless of inlet pressure variation. Valve shall be suitable for 200°F (93°C) service temperature. Bodies shall be cast iron. Sizes 2-1/2" and larger shall have flanged ends. Trim shall be stainless steel. Valves shall be equipped with a reversible composition disc. Diaphragms and discs shall be hycar. There shall be no springs in the fluid space and no stuffing box.

MATERIALS OF CONSTRUCTION

Body, Cast IronASTM A126 Cl. B
 Stem303 St. Stl. ASTM A582
 DiscHycar Comp
 Seat 1 - 2"303 St. Stl. ASTM A582
 Seat 2½ - 6"304 St. Stl. ASTM A276 Cond A
 GasketNon-asbestos
 DiaphragmHycar
 SpringSteel



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FITTINGS ON PAGE 46

TYPE C34
MAIN VALVE

DIMENSIONS inches (mm) AND WEIGHTS pounds (kg)

SIZE	FACE TO FACE			OTHER DIMENSIONS						APPROX. WT.		
	A			B	C	D	E	F	G	ANSI NPT	ANSI 125	ANSI 250
	ANSI NPT	ANSI 125	ANSI 250									
1 (25)	5 3/8 (137)	—	—	6 7/8 (175)	3 3/8 (86)	7 (178)	1 3/8 (35)	6 (152)	10 3/8 (264)	19 (9)	—	—
1 1/4 (32)	6 1/2 (165)	—	—	6 7/8 (175)	3 7/8 (98)	7 (178)	1 13/16 (46)	6 5/8 (168)	11 1/4 (286)	24 (11)	—	—
1 1/2 (38)	7 1/4 (184)	—	—	6 7/8 (175)	4 1/4 (108)	7 (178)	1 15/16 (49)	6 3/8 (162)	11 7/8 (302)	29 (13)	—	—
2 (51)	7 1/2 (191)	8 1/2 (216)	9 (229)	9 1/8 (232)	4 1/2 (114)	7 (178)	2 1/16 (52)	6 1/2 (165)	12 1/2 (318)	46 (21)	51 (13)	60 (27)
2 1/2 (64)	—	9 3/8 (238)	10 (254)	9 1/8 (232)	5 1/2 (140)	7 3/8 (187)	2 3/8 (60)	6 7/8 (175)	14 1/2 (368)	—	65 (30)	74 (34)
3 (76)	—	10 (254)	10 3/4 (273)	11 1/8 (283)	6 (152)	8 3/4 (222)	2 3/4 (70)	7 1/4 (184)	15 7/8 (403)	—	94 (43)	111 (50)
4 (102)	—	11 7/8 (302)	12 1/2 (318)	13 1/2 (343)	6 5/8 (168)	9 3/8 (238)	3 (76)	7 3/4 (197)	17 3/4 (451)	—	148 (67)	172 (78)
5 (127)	—	13 5/8 (346)	14 1/2 (368)	13 1/2 (343)	7 5/8 (194)	10 7/8 (276)	3 1/2 (89)	8 5/8 (219)	20 1/4 (514)	—	194 (88)	226 (103)
6 (152)	—	15 1/8 (384)	16 (406)	13 1/2 (343)	9 1/8 (232)	13 1/8 (333)	4 1/4 (108)	10 5/8 (270)	25 1/8 (638)	—	280 (127)	325 (148)