

DESCRIPTION

The ORION® Series 9100 bronze control valve is available with pre-assembled and tested ASTM carbon steel threaded flange adapters.

The adapters are factory installed with Loctite® PST 567® thread sealant and leak tested prior to shipment.

Standard sizes are 1 in. (25 mm), 1.5 in. (38 mm) and 2 in. (50 mm) CL 150.

The free-turning flanges simplify the alignment of mating the flange holes.

The nominal overall (face-to-face) length of the body is based on the standard length of a CL 150 steel valve.

NOTE: The nipple-to-body connection is NPT and should be considered accordingly regarding structural strength. When vibration, shock, excess side loading or abnormal stress is possible, the actuator should be bolted to a supporting structure. For this purpose, a rim-screw mounting bracket is available from the factory.

For valve information, see www.badgermeter.com.

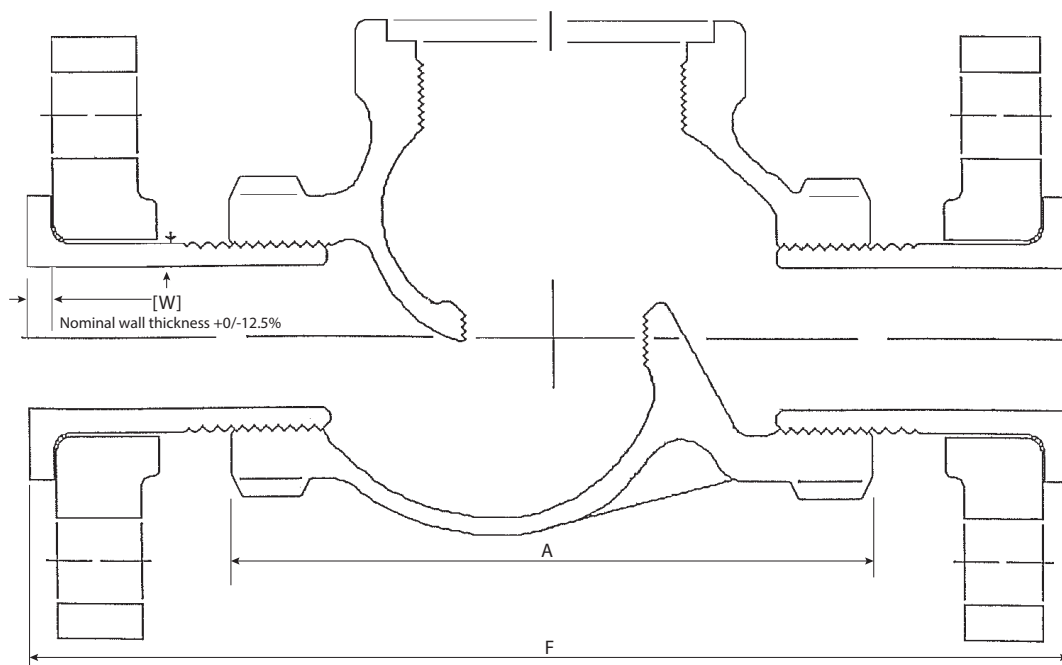
MATERIALS

Flange	Carbon Steel ASTM A-105
Adapter	Carbon Steel ASTM A-234
Coating	As received from vendor
Optional (at extra cost)	Painted

TEMPERATURE VS PRESSURE RATING

Temperature	Pressure
-20...100° F (-28.9...37.8° C)	285 psig (19.6 bar)
> 150° F (65.6° C)	270 psig (18.6 bar)
> 200° F (93.3° C)	260 psig (17.9 bar)
> 250° F (121.1° C)	240 psig (16.5 bar)
> 300° F (148.9° C)	210 psig (14.5 bar)
> 350° F (176.7° C)	180 psig (12.4 bar)
> 400° F (204.4° C)	150 psig (10.3 bar)

Final Assy. LeakTest: Per MSS SP-61



Typical 1 in. (25 mm) size body assembly, approximate actual size.

NOTE: The 1.5 in. (38 mm) and 2 in. (50 mm) valves have a close clearance between the inside of the flange and the body. Use the special hex nuts provided between the flange and the body.

Weight added to standard NPT valve:

- 1 in. (25 mm) + 4 lb
- 1.5 in. (38 mm) + 8 lb
- 2 in. (50 mm) + 12 lb

Size	A	F	W
1 in. (25.4 mm)	4.5 in. (114.3 mm)	7.25 in. (184.2 mm)	0.170 in. (4.3 mm)
1.5 in. (38.1 mm)	6.25 in. (158.8 mm)	8.75 in. (222.3 mm)	0.200 in. (5.1 mm)
2 in. (50.8 mm)	7.0 in. (177.8 mm)	10.00 in. (254 mm)	0.218 in. (5.5 mm)

Face-to-face length tolerance (L) Nominally $\pm 1/8$ in. (3.2 mm)

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