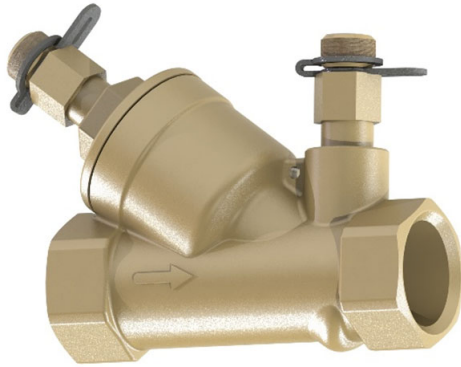


ACCESSIBLE CARTRIDGE



SPECIFICATIONS

PSI / Temperature Rating: 1/2"-1-1/2": 600 WOG 400 PSI / 250°F
 1-1/2"L-3": 400 WOG 275 PSI / 250 °F

Cartridge: AISI Type 304 stainless steel
 AISI Type 17-7 PH stainless steel spring

Body Material: Forged brass (Certified No Lead¹ DZR Brass Available) (1/2" to 1-1/2")
 Cast brass (1-1/2"L to 3")

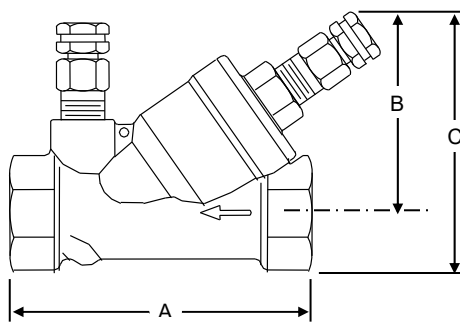
End Connections: Female NPT (Sweat Available on 1/2" to 3/4" Housing)

Seals: EPDM O-Rings

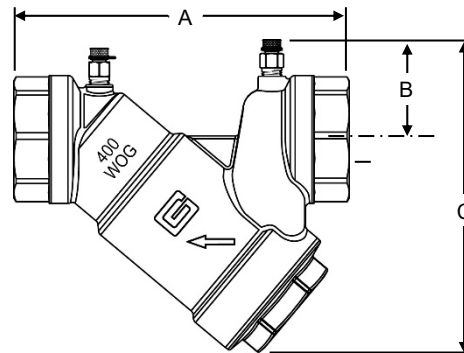
Body Tappings²: Two P/T Test Valve (CPTA)

Optional Strainer³: 20 mesh stainless steel

1/2" – 1-1/2" Housing



1-1/2"L – 3" Housing



DIMENSIONS & WEIGHTS (NOMINAL)

All dimensions are for planning purposes only and may change without notice.

| SIZE | MODEL NO. | A | B | C | WEIGHT (LBS.) |
|---------|-----------|------|-----|-----|---------------|
| 1/2" | 3K0_ | 2.6 | 2.2 | 2.9 | 0.6 |
| 1/2"L | 380_ | 3.5 | 2.4 | 3.0 | 2 |
| 3/4" | | 3.8 | 2.5 | 3.0 | 2 |
| 1" | | 4.1 | 2.6 | 3.4 | 2 |
| 1"L | 381_ | 5.9 | 3.4 | 3.7 | 3 |
| 1-1/4" | | 6.1 | 3.5 | 4.2 | 3 |
| 1-1/2" | | 6.1 | 3.5 | 4.2 | 3 |
| 1-1/2"L | 383_ | 9.1 | 2.7 | 8.5 | 10 |
| 2" | | 8.9 | 2.7 | 8.5 | 10 |
| 2-1/2" | | 9.8 | 2.7 | 8.5 | 10 |
| 3" | | 10.2 | 2.7 | 8.5 | 10 |

NOTES

¹ No Lead brass contains less than 0.25% lead content by weight on wetted surfaces. 3rd party certification for CA AB1953 and NSF-61 Annex G was performed by Truesdail Labs. Certificate available on website. Certification label is applied to valve surface.

² Body Tappings for accessories are a leak proof metal to metal seal and do not require pipe dope or tape. Tape or dope should not be used.

³ The optional strainer is internal and does not affect the dimensions. Strainer is available only on 1/2"L to 1-1/2" models.

MODEL NUMBER SELECTION⁴

3

Insert K for 1/2"
Insert 8 for 1/2"L to 3"

Insert 0 for 1/2", 1/2"L, 3/4", and 1"
Insert 1 for 1"L, 1-1/4", and 1-1/2"
Insert 3 for 1-1/2"L, 2", 2-1/2", and 3"⁵

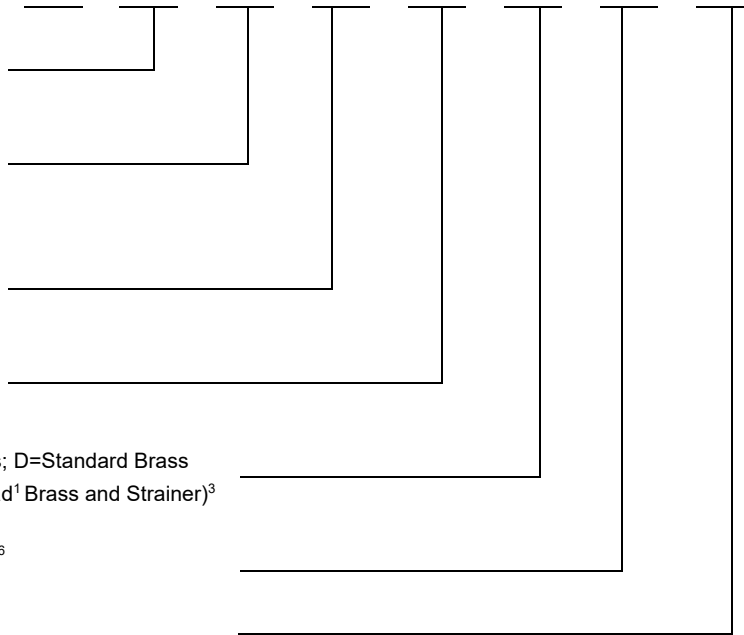
Select a PSID control range (1=1-14/1-20/
4-20, 2=2-32/8-32, 4=4-57, 8=8-128)

Select a size (1/2"=E, 3/4"=F, 1"=H,
1-1/4"=J, 1-1/2"=K, 2"=L, 2-1/2"=M, 3"=N)

Select Housing Material (B=Standard Brass; D=Standard Brass
and Strainer; L=No Lead¹ Brass; M=No Lead¹ Brass and Strainer)³

Add an "S" for sweat, leave blank for FNPT⁶

Extension Kit (0=No, 1=1-1/2", 2=2")⁷



FLOW RATES (+/-5%)

| SIZE | MODEL NO. | HEAD LOSS IN FEET ⁸ | PSID RANGE ⁹ | GPM | |
|------------------------|-----------|--------------------------------|-------------------------|---|------|
| | | | | MIN. | MAX. |
| 1/2" | 3K02 | 7.4 | 2-32 | 0.25, 0.33, 0.50, 0.60, 0.75, 0.85, 1.00, 1.25, 1.50, 2.00, 2.50, 3.00 | |
| | 3K04 | 13.4 | 4-57 | 0.50, 1.00, 1.50, 2.00, 2.50, 3.00 | |
| 1/2"L, 3/4"L, 1" | 3801 | 3.5 | 1-14 | 0.33, 0.50, 0.67, 1.00, 1.33, 1.67, 2.00, 2.33, 2.67, 3.33, 4.00, 4.67, 5.00 | |
| | 3802 | 7.4 | 2-32 | 0.55, 0.75, 1.00, 1.25, 1.50, 1.75, 2.00, 2.25, 2.50, 2.75, 3.00, 3.50, 4.00, 5.00, 6.00, 7.00, 8.00 | |
| | 3804 | 13.4 | 4-57 | 0.75, 1.00, 1.33, 2.00, 2.67, 3.33, 4.00, 4.67, 5.33, 6.67, 8.00, 9.33, 10.00, 11.00 | |
| | 3808 | 30.0 | 8-128 | 1.10, 1.50, 2.00, 3.00, 4.00, 5.00, 6.00, 7.00, 8.00, 10.0, 12.0, 14.0, 16.0 | |
| 1"L, 1-1/4", 1-1/2" | 3811 | 3.5 | 1-14 | 5.33, 6.00, 6.67, 7.33, 8.00, 8.67, 9.33, 10.00, 10.67, 11.33, 12.00, 12.67, 13.33, 14.00, 14.67 | |
| | 3812 | 7.4 | 2-32 | 8.0, 9.0, 10.0, 11.0, 12.0, 13.0, 14.0, 15.0, 16.0, 17.0, 18.0, 19.0, 20.0, 21.0, 22.0 | |
| | 3814 | 13.4 | 4-57 | 10.67, 12.00, 13.33, 14.67, 16.00, 17.33, 18.67, 20.00, 21.33, 22.67, 24.00, 25.33, 26.67, 28.00, 29.33 | |
| | 3818 | 30.0 | 8-128 | 16.0, 18.0, 20.0, 22.0, 24.0, 26.0, 28.0, 30.0, 32.0, 34.0, 36.0, 38.0, 40.0, 42.0, 44.0 | |

| SIZE | MODEL NO. | HEAD LOSS IN FEET ⁸ | PSID RANGE | GPM | | | HEAD LOSS IN FEET ⁸ | PSID RANGE | HIGHER FLOW RATES/ NO INCREMENTS |
|----------------------------|-----------|--------------------------------|------------|-------|-----------|-----|--------------------------------|------------|----------------------------------|
| | | | | MIN. | INCREMENT | MAX | | | |
| 1-1/2"L, 2", 2-1/2", 3" | 3831 | 3.5 | 1-20 | 14.0 | 2.0 | 60 | 9.2 | 4-20 | 90, 110, 130 |
| | 3832 | 7.4 | 2-32 | 17.5 | 2.5 | 75 | 18.4 | 8-32 | 110, 135, 160 |
| | 3834 | 13.4 | 4-57 | 23.33 | 3.33 | 100 | NONE | | |
| | 3838 | 30.0 | 8-128 | 35.0 | 5.0 | 150 | | | |

NOTES

- ⁴ Model no. and flow rate are indicated on label affixed to body.
- ⁵ Large Housing "3" (1-1/2"L-3") is not available in Certified No Lead Brass. Only 1/2" to 1-1/2" is available in No Lead Brass.
- ⁶ Sweat ends are available only on 1/2" to 3/4" models.
- ⁷ Extension Kit is available for standard brass models only.
- ⁸ Head Loss in Feet is provided for pump head calculations. (1 PSI = 2.307 Feet of Water)
- ⁹ Systems with entrained air and fluid velocities less than 4FPS are susceptible to noise when using the 2-32 cartridge. If your system has entrained air and flowrates less than 2GPM please consider using the 4-57 cartridge.