ACCESSIBLE CARTRIDGE



SPECIFICATIONS

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

Cartridge: AISI Type 304 stainless steel

AISI Type 17-7 PH stainless steel spring

Strainer: 20 mesh stainless steel

Body Material: 1/2"-1-1/2": Forged brass ASTM B283-06

1-1/2"L-2": Cast brass

End Connections: Brass – NPT, Sweat or QuickPress¹

Ball Valve Seals: Teflon

Union Seal: EPDM O-Ring

Body Tappings²: Port 1 and 2: Combination P/T Test

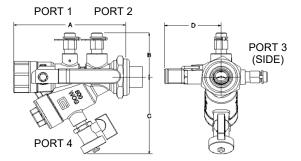
Valve and Manual Air Vent (CPTA); Port 4: Drain, 1/4" in YY1, 1/2" in YY2 and YY3

Ball Valve: Nickel-plated brass ball

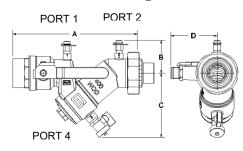
Optional: Stainless Steel ball

Field Repairable Stem: Dual Teflon seals and EPDM O-ring Options: Dual Teflon seals and EPDM O-ring Port 2: Bypass³, Extension Option

1/2" - 1-1/2" Housing



1-1/2"L - 2" Housing



DIMENSIONS & WEIGHTS (NOMINAL)

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

| SIZE | A - FIXED END CONNECTION | | UNION END CONNECTION⁴ | | | | | В | С | D⁵ | Cv ⁶ | WEIGHT | | |
|---------|--------------------------|------|-----------------------|----------------------|-----------------------|----------------|--------------------------|---------|--------------|-----|-----------------|-----------|-----|--------|
| | FNPT SWT | | FNPT | | MNPT | | SWT | | | | ĺ | 1 | | (LBS.) |
| 1/2" | 5.1 | 5.3 | | | | | 0/011 0/411- | | | | | 1.2, 2.2, | | |
| 3/4" | 5.2 | 5.3 | 1/2",3/4":1.0 | 1":N/A ⁷ | 1/2"-3/4":1.0 | 1":1.4 | 3/8",3/4": 1.0 | 1/2":0. | 7 1":1.3 | 2.2 | 3.8 | 2.8 | 8.4 | 2.6 |
| 1" | 5.2 | 5.4 | | | | | 1.0 | | | | | 2.2, 2.8 | | |
| 1"L | 7.5 | 7.8 | | | | | | | | | | | | |
| 1-1/4" | 7.2 | 7.3 | 1",1-1/4",1-1/2":1.7 | | 1",1-1/4",1-1/2":1.78 | | 1",1-1/4":1.7 1-1/2":1.4 | | 2.5 | 4.8 | 2.3, 3.0 | 19.1 | 5.2 | |
| 1-1/2" | 7.1 | 7.5 | _ | | | | | | | | | | | |
| 1-1/2"L | 9.6 | 9.8 | 1-1/4", | 2": N/A ⁷ | 1" 1 1/4":1 0 | 1-1/2", 2":1.6 | 1 1/4" 2" | .16 | 1-1/2":1.7 | 2.6 | 5.3 | 2.5, 3.1 | 37 | 7.0 |
| 2" | 9.5 | 10.1 | 1-1/2":1.6 | 2 . IN/A | 1 ,1-1/4 .1.0 | 1-1/2 , 2 .1.0 | 1-1/4 ,2 .1.0 | .1.0 | 0 1-1/2 .1.7 | 2.0 | 5.5 | 2.3, 3.1 | 40 | 9.0 |

For QuickPress connections add 3.1" (1/2") 3.6" (3/4"), 4.1" (1") to the FNPT length (A) listed for a valve.

NOTES

- 1 QuickPress is available on 1/2" to 1" valves only. Connections are compatible with popular press tools and are rated for maximum 200 PSI.
- 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 1/2" Bypass is only available on 1/2" to 1" valve. 1"L to 1-1/2" valves have a bypass that is a line size tee.

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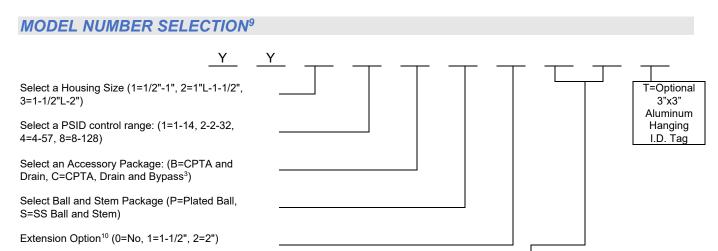
⁴ For overall length, add union end connection length to body length.

⁵ Space Saver handle standard on 1/2"-3/4" valves. Standard handle on 1" to 2" valves and 1-1/2" extended handle in 1/2" to 2" is compatible with 1-1/2" insulation. Largest extended handle is compatible with 2" insulation.

⁶ Cv's are based on housing with a clean 20 mesh strainer but without the cartridge.

⁷ Tailpiece is not available for this size. Male tailpiece used with ASME B16.15 Class 125 coupling.

^{8 1-1/4&}quot;-1-1/2" valves can also take 1/2"-3/4" MNPT tailpieces.



| | FIXED END O | UNION END ONLY ¹¹ | | | | |
|-------|---|---|----------------------|--|--|--|
| Valve | Female Threaded | Female Sweat | QuickPress | Male Threaded | | |
| YY1 | 1/2"=E, 3/4"=F, 1"=G ¹² | 3/8"=K ¹³ , 1/2"=L, 3/4"=M, 1"=N | 1/2"=2, 3/4"=3, 1"=1 | 1/2"=H, 3/4"=I, 1"=J | | |
| YY2 | 1"=G, 1-1/4"=P, 1-1/2"=Q | 1"=N, 1-1/4"=K, 1-1/2"=W | N/A | 1/2"=H, 3/4"=I, 1"=J, 1-1/4"=S, 1-1/2"=T | | |
| YY3 | 1-1/4"=P ¹³ , 1-1/2"=Q, 2"=R ¹² | 1-1/4"=K ¹³ , 1-1/2"=W, 2"=Y | N/A | 1-1/4"=S , 1-1/2"=T, 2"=U | | |

FLOW RATES (+/-5%)

| SIZE | MODEL NO. | HEAD LOSS IN FEET ¹⁴ | PSID RANGE | GPM |
|-----------------------|--------------|------------------------------------|---------------|--|
| | YY11 | 3.5 | 1-14 | .33, .50, .67, 1.00, 1.33, 1.67, 2.00, 2.33, 2.67, 3.33, 4.00, 4.67, 5.00 |
| 1/2",3/4",1" | YY12 | 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 |
| | YY14 | 13.4 | 4-57 | .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 |
| | YY18 | 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 |
| | YY21 | 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 |
| 4111 4 4/411 | YY22 | 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 |
| 1"L,1-1/4", 1-1/2" | YY24 | 13.4 | 4-57 | 10.67, 12.0, 13.33, 14.67, 16.0, 17.33, 18.67, 20.00, 21.33, 22.67, 24.0, 25.33, 26.67, 28.0, 29.33 |
| | YY28 | 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 |
| | YY31 | 3.5 | 1-14 | 12.0, 14.0, 16.0, 18.0, 20.0, 22.0, 24.0, 26.0, 28.0, 30.0, 32.0, 34.0, 36.0, 38.0 |
| 1-1/2"L, 2" | YY32 | 7.4 | 2-32 | 18.0, 21.0, 24.0, 27.0, 30.0, 33.0, 36.0, 39.0, 42.0, 45.0, 48.0, 51.0, 54.0, 57.0 |
| | YY34 | 13.4 | 4-57 | 24.0, 28.0, 32.0, 36.0, 40.0, 44.0, 48.0, 52.0, 56.0, 60.0, 64.0, 68.0, 72.0, 76.0 |
| | YY38 | 30.0 | 8-128 | 36.0, 42.0, 48.0, 54.0, 60.0, 66.0, 72.0, 78.0, 84.0, 90.0, 96.0, 102, 108, 114 |

NOTES

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⁹ Model no. and flow rate are indicated on label affixed to body.

¹⁰ Extension Option includes handle cover and accessory extensions.

¹¹ Select the Fixed End First and the Union End Second.

¹² Tailpiece is not available for this size. Male tailpiece used with ASME B16.15 Class 125 coupling.

¹³ Fixed end not available for this size. Union tailpiece only.

¹⁴ Head Loss in Feet is provided for pump head calculations. (1 PSI = 2.307 Feet of Water)