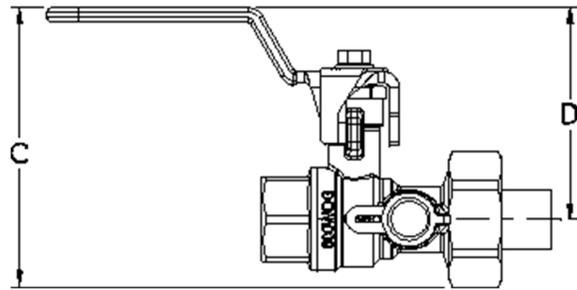
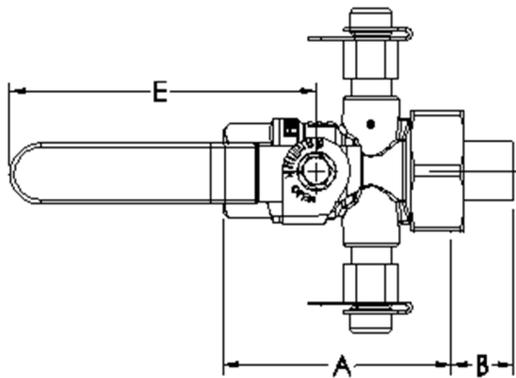


SPECIFICATIONS



**PSI/Temperature Rating:** 600 WOG 400 PSI / 250°F  
**Flow Elements:** Venturi: Brass  
**Body Material:** Forged Brass ASTM B283-06  
**End Connections:** Brass – NPT, Sweat or QuickPress<sup>1</sup>  
**Ball Valve Seals:** Teflon  
**Union Seal:** EPDM O-ring  
**Ball Valve:** Nickel-plated brass ball, full port  
 Optional: Stainless steel ball  
**Body Tappings<sup>2</sup>:** Two Combination P/T Test Valve and Manual Air Vent (CPTA)  
**Field Repairable Stem:** Dual Teflon seals and EPDM O-ring  
**Handle:** Memory Stop with graduated markings  
**Installation:** Straight sections of piping upstream and downstream of the QuickSet aren't necessary for proper operation  
**Options:** Extension Option<sup>3</sup>



DIMENSIONS & WEIGHTS (NOMINAL)

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

SIZE	A - FIXED END CONNECTION		B - UNION END CONNECTION <sup>4</sup>						C	D <sup>5</sup>	E	WEIGHT (LBS.)	
	FNPT	SWT	FNPT		MNPT		SWT						
1/2"	2.6	2.5	1/2":1.0	3/4":N/A <sup>6</sup>	1/2":1.0	3/4":1.2	3/8",1/2":0.8	3/4":1.1	3.0	1.0, 1.5, 2.2	3.7	0.7	
3/4"	2.6	3.2											
3/4"L	3.0	3.1	1/2",3/4":1.0	1":N/A <sup>6</sup>	1/2"-3/4":1.0	1":1.4	3/8",3/4":1.0	1/2":0.7	1":1.3	3.8	2.1, 2.6, 3.2	3.7	1.0
1"	3.2	3.4											
1-1/4"	3.9	4.1	1",1-1/4",1-1/2":1.7	1",1-1/4",1-1/2":1.7	1",1-1/4":1.7	1-1/2":1.4	1",1-1/4":1.7	1-1/2":1.4	4.0	2.9, 3.5	5.0	1.5	
1-1/2"	4.4	4.6											
2"	5.1	5.5	1-1/2":1.6	2": N/A <sup>6</sup>	1-1/2", 2":1.6	1-1/2":1.7	2":1.6	5.3	4.0, 4.6	5.5	6.9		

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

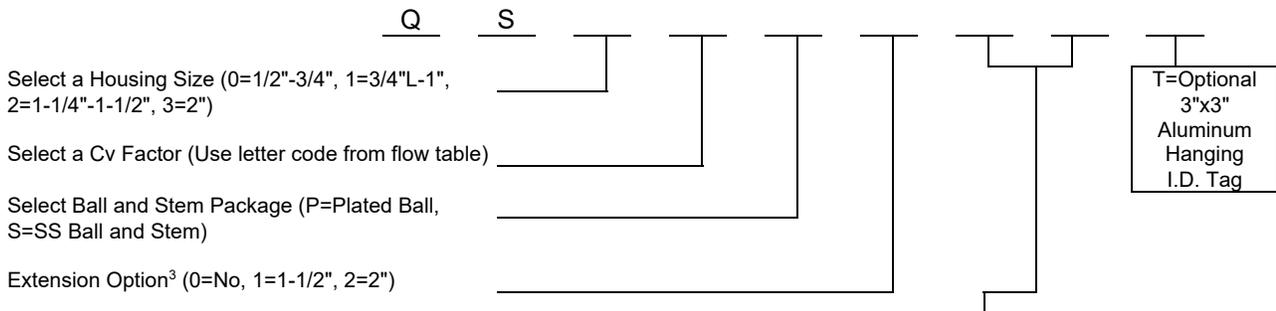
NOTES

- <sup>1</sup> QuickPress is available on 1/2" to 1" valves. Connections are compatible with popular press tools and are rated for maximum 200 PSI.
- <sup>2</sup> 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.
- <sup>3</sup> Extension Option includes handle cover and accessory extensions for either 1-1/2" or 2" insulation.
- <sup>4</sup> For overall length, add union end connection length to body length.
- <sup>5</sup> Space Saver handle standard on 1/2"-3/4"L 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.
- <sup>6</sup> Tailpiece is not available for this size. Male tailpiece used with coupling.

FLOW RATES (+/-1%<sup>7</sup>)

OUTLET SIZE	MODEL NO.	FLOW GPM <sup>(8)</sup> AT 4 FT/SEC	Cv <sup>(9)</sup>	GPM RANGE FOR 5"-100" W.C. ΔP (SET W/100" GAUGE)	GPM RANGE FOR 5"-300" W.C. ΔP (SET W/300" GAUGE)
1/2", 3/4"	QS0	3.8	A=0.39	0.15 – 0.67	0.15 – 1.16
			B=1.1	0.3 – 1.4	0.3 – 2.4
			C=2.5	0.6 – 2.8	0.6 – 4.6
			D=4.2	1.2 – 5.4	1.2 – 9.4
3/4"L	QS1	6.7	B=0.9	0.3 – 1.4	0.3 – 2.5
			C=1.9	0.6 – 2.8	0.6 – 4.9
			D=3.9	1.3 – 5.6	1.3 – 9.7
			E=7.0	2.6 – 11.5	2.6 – 19.9
1"	QS1	10.8	C=1.8	0.6 – 2.8	0.6 – 5.0
			D=3.8	1.3 – 5.6	1.3 – 9.7
			F=7.6	2.6 – 11.5	2.6 – 19.9
			G=12.2	3.9 – 17.3	3.9 – 30.0
1-1/4"	QS2	18.7	H=10.0	3.4 – 15.0	3.4 – 26.2
			I=21.8	7.2 – 32.3	7.2 – 55.9
1-1/2"	QS2	25.4	J=22.1	7.4 – 33.0	7.4 – 57.2
			N=54.7	13.9 – 62.0	13.9 – 107.4
2"	QS3	41.9	M=65.2 <sup>10</sup>	21.6 – 96.5	21.6 – 167.1
			P=105.2	21.6 – 96.5	21.6 – 167.1

MODEL NUMBER SELECTION



Valve	FIXED END OR UNION END <sup>11</sup> (No Union Tailpiece=Z)			UNION END ONLY <sup>11</sup>
	Female Threaded	Female Sweat	QuickPress	Male Threaded
QS0	1/2"=E, 3/4"=F <sup>12</sup>	3/8"=K <sup>13/14</sup> , 1/2"=L, 3/4"=M	1/2"=2 <sup>14</sup> , 3/4"=3	1/2"=H, 3/4"=I
QS1	1/2"=E <sup>14</sup> , 3/4"=F, 1"=G <sup>12</sup>	3/8"=K <sup>13/14</sup> , 1/2"=L <sup>13/14</sup> , 3/4"=M, 1"=N	1/2"=2 <sup>14</sup> , 3/4"=3, 1"=1	1/2"=H <sup>14</sup> , 3/4"=I, 1"=J
QS2 (1-1/4")	1"=G <sup>13</sup> , 1-1/4"=P, 1-1/2"=Q	1"=N <sup>13</sup> , 1-1/4"=K, 1-1/2"=W	N/A	1/2"=H <sup>14</sup> , 3/4"=I <sup>14</sup> , 1"=J, 1-1/4"=S, 1-1/2"=T
QS2 (1-1/2")	1"=G <sup>13/14</sup> , 1-1/4"=P, 1-1/2"=Q	1"=N <sup>13/14</sup> , 1-1/4"=K, 1-1/2"=W	N/A	1"=J <sup>14</sup> , 1-1/4"=S, 1-1/2"=T
QS3 (2")	1-1/2"=Q <sup>13</sup> , 2"=R <sup>12</sup>	1-1/2"=W <sup>13</sup> , 2"=Y	N/A	1-1/2"=T, 2"=U

Size reductions to the ATC (tailpiece side) of more than two line sizes may affect pressure signal of venturi depending on ATC configuration.

NOTES

<sup>7</sup> Accuracy is for venturi portion of valve only. Pressure readability is dependent on accuracy of gauge and system pressure stability.

<sup>8</sup> The generally accepted upper limit as recommended by ASHRAE to prevent pipe noise is 4 ft/sec.

<sup>9</sup> Cv's are used to calculate the permanent pressure drop.  $PSID=(Flow/Cv)^2$ . Use the Flow Curve to set valve or for flow measurement.

<sup>10</sup> 65.2 Cv includes an optimizer insert in the ball.

<sup>11</sup> Select the Fixed End First and the Union End Second.

<sup>12</sup> Tailpiece is not available for this size. Male tailpiece used with coupling.

<sup>13</sup> Fixed end not available for this size. Union tailpiece only.

<sup>14</sup> This tailpiece has Cv limitations. 3/8" tailpiece is not compatible with Cv of 4.2, 7.0, 7.6, 12.2; 1/2" tailpiece is not compatible with Cv of 12.2, 21.8, 22.1, 54.7; 3/4" tailpiece is not compatible with Cv of 21.8, 22.1, 54.7; 1" tailpiece is not compatible with Cv of 54.7 or 105.2; 1-1/4" tailpiece is not compatible with Cv of 105.2.