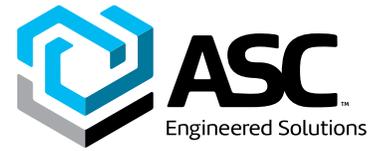


Building connections that last™



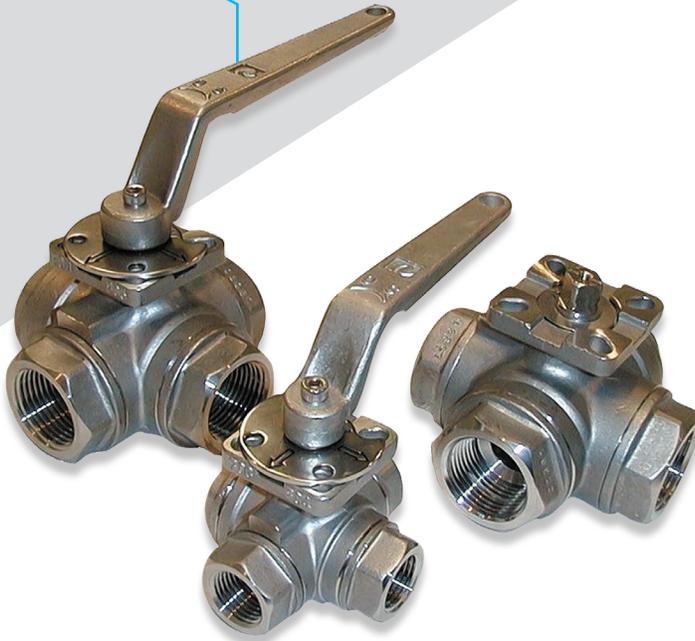
# 3W & 4W QVA

Three and Four-Way, Four-Seated  
Multiport Ball Valves Datasheet



# Three and Four-Way, Four-Seated Multiport Ball Valves

## 3W & 4W QVA



### Features

- Three or Four-Way Construction
- Four-Seated design provides 1000PSI operating pressure
- Live-loaded stem packing automatically compensates for stem packing wear and/or temperature variations
- Direct mounting of ISO 5211 compliant actuators
- Dual ISO 5211 mounting patterns
- Square stem head design
- Standard stainless steel handle and lock plate
- “L” port, “T” port and “X” port ball patterns available

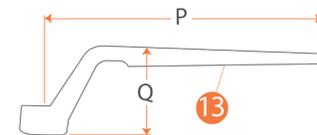
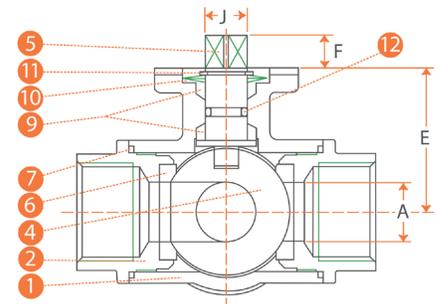
### Ratings

1000 PSIG @ 100°F

150 PSIG Saturated Steam

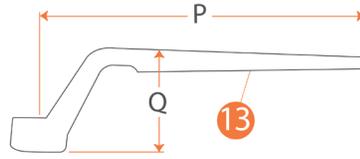
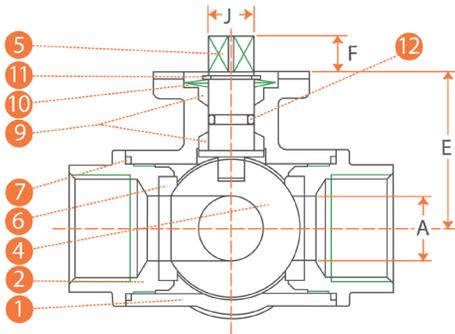
### Materials of Construction

Part	Qty.	Description	Standard Material
1	1	Body	ASTM A351 GR. CF8M
2	3	Tailpiece	ASTM A351 GR. CF8M
3	1	Tailpiece A	ASTM A351 GR. CF8M
4	1	Ball	ASTM A351 GR. CF8M
5	1	Stem	ASTM A276 GR 316
6	4	Seat	PTFE
7	3	Tailpiece Seal	PTFE
8	1	Tailpiece A Seal	PTFE
9	2	Stem Packing	R-PTFE
10	2	Belleville Washers	304SS
11	1	Retaining Ring	420SS
12	1	O-Ring	Viton
13	1	Handle	ASTM A351 GR. CF8M
Not Shown	1	Handle Bolt	304SS
Not Shown	1	Stop Plate	304SS

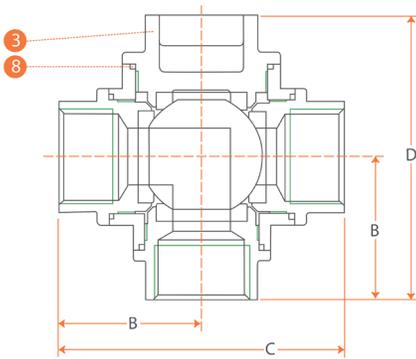
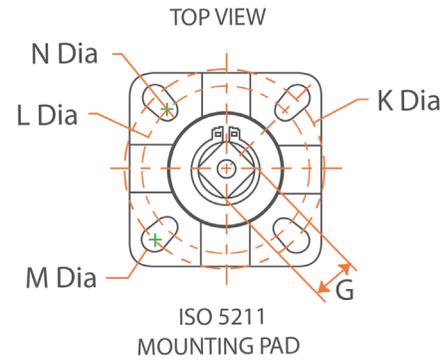


# Three and Four-Way, Four-Seated Multiport Ball Valves

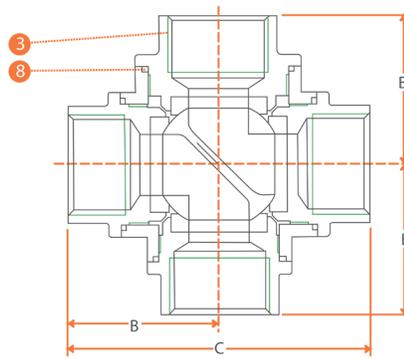
## 3W & 4W QVA



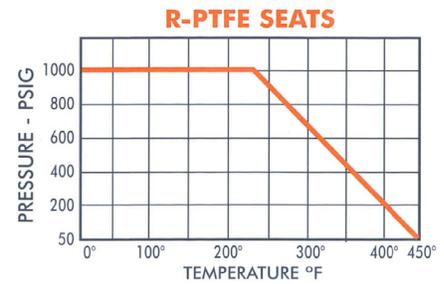
handle dimensions



3-way top view



4-way top view



### Dimensions, Weights, Cv Factors & Maximum Operating Torque

Size	A	B	C	D	E	F	G	J (DIA)	K (DIA)	L (DIA)	M (DIA)	N (DIA)	P	Q	ISO PATTERN	Weight Lbs.	Max Torque (IN-LB)
1/4" - 3/8"	0.50	1.48	2.96	2.78	1.56	0.35	9MM	0.47	1.65	1.42	0.24	0.24	4.6	1.5	F03 & F04	1.6	40 IN-LB
1/2"	0.50	1.48	2.96	2.78	1.56	0.35	9MM	0.47	1.65	1.42	0.24	0.24	4.6	1.5	F03 & F04	1.6	75 IN-LB
3/4"	0.63	1.68	3.36	3.21	1.69	0.35	9MM	0.47	1.65	1.42	0.24	0.24	4.6	1.5	F03 & F04	2.6	120 IN-LB
1"	0.79	1.97	3.94	3.96	1.87	0.43	11MM	0.55	1.97	1.65	0.28	0.24	5.7	1.9	F04 & F05	4.1	140 IN-LB
1 - 1/4"	0.98	2.27	4.54	4.35	2.09	0.43	11MM	0.55	1.97	1.65	0.28	0.24	5.7	1.9	F04 & F05	5.8	250 IN-LB
1 - 1/2"	1.26	2.48	4.96	4.80	2.42	0.55	14MM	0.71	2.76	1.97	0.36	0.28	6.2	2.1	F05 & F07	8.5	350 IN-LB
2"	1.50	2.92	5.84	5.30	2.76	0.55	11MM	0.71	2.76	1.97	0.36	0.28	6.2	2.1	F05 & F07	12.9	420 IN-LB

### Cv Factors

Size	"L" Port (Angle Flow)	"T" Port (Angle Flow)	"T" Port (Thru)	"X" Port (Angle Flow)
1/4"	2	1.5	5	2
3/8"	3	2.5	8	2.5
1/2"	4	3.5	11	3
3/4"	10	8	18	9
1"	16	14	36	14
1-1/4"	25	22	44	22
1-1/2"	40	34	70	36
2"	58	49	105	50

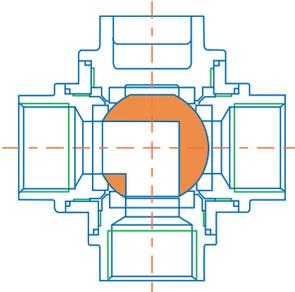
#### Note

Handle can be fitted to provide 90° rotation or 360° rotation. If 90° rotation is selected, value can be moved between any (2) adjacent positions.  
Example: Position 1&2; 2&3; 3&4; or 4&1.

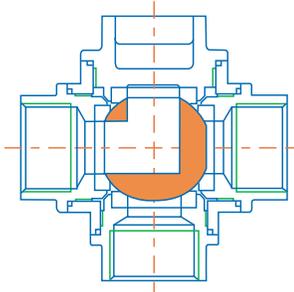
# Three and Four-Way, Four-Seated Multiport Ball Valves

## 3W & 4W QVA

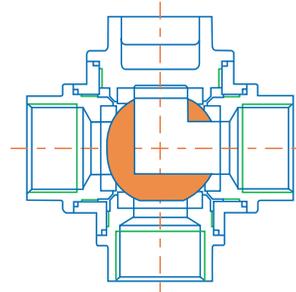
### “L” port positions



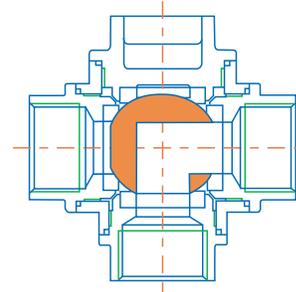
Position #1



Position #2

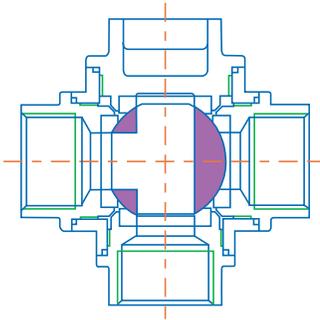


Position #3

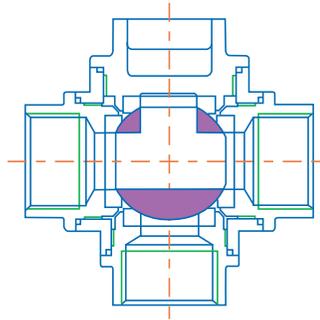


Position #4

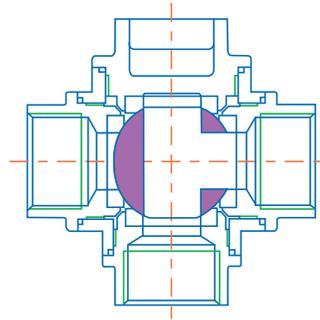
### “T” port positions



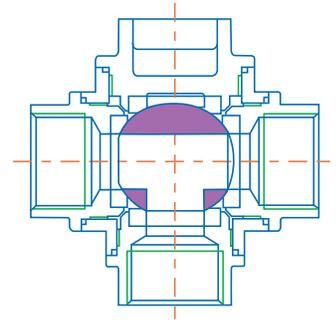
Position #1



Position #2

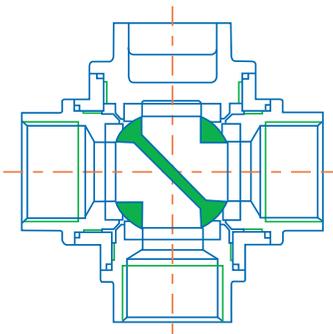


Position #3

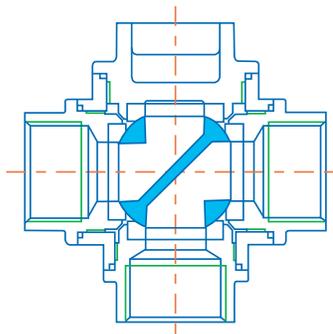


Position #4

### “X” port positions



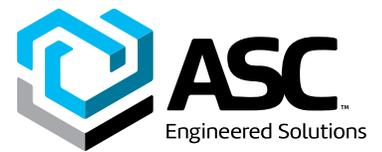
Position #1



Position #2

# Three and Four-Way, Four-Seated Multiport Ball Valves

## 3W & 4W QVA



### Numbering System How to order 3W & 4W QVA

3T	R	S	S	R	R	LH	TT	100
Series	Port Size	Body & Tailpiece Material	Ball/Stem Material	Seat Material	Seal Material	Handle Type	Ends	Size
3L 3-Way L-Port	F Full (1/4"-1/2")	S CF8M	S 316SS	V Virgin PTFE	V Virgin PTFE	LH SS Locking Lever	TT FNPT	025 1/4"
3T 3-Way T-Port	R Reduced	A CN7M (Alloy 20)	A Alloy 20	R Reinforced PTFE	R Reinforced PTFE	BS No Handle	WW Socket Weld	038 3/8"
4L 4-Way L-Port		D Duplex SS	D Duplex	P PEEK		XH Extended Handle	1F Class 150 Flanged	050 1/2"
4T 4-Way T-Port				J Cavity Fill PTFE		PA Double Acting Pneumatic		
4X 4-Way X-Port						SA Spring Return		100 1"
						EA 115VAC Electric Actuated		125 1-1/4"
								150 1-1/2"
								200 2"



### **About ASC Engineered Solutions**

ASC Engineered Solutions is defined by quality—in its products, services and support. With more than 1,400 employees, the company's portfolio of precision-engineered piping support, valves and connections provides products to more than 4,000 customers across industries, such as mechanical, industrial, fire protection, oil and gas, and commercial and residential construction. Its portfolio of leading brands includes ABZ Valve®, AFCON®, Anvil®, Anvil EPS, Anvil Services, Basic-PSA, Beck®, Catawissa, Cooplet®, FlexHead®, FPPI®, Gruklok®, J.B. Smith, Merit®, North Alabama Pipe, Quadrant®, SCI®, Sharpe®, SlideLOK®, SPF® and SprinkFLEX®. With headquarters in Commerce, CA, and Exeter, NH, ASC also has ISO 9001:2015 certified production facilities in PA, TN, IL, TX, AL, LA, KS, and RI.



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