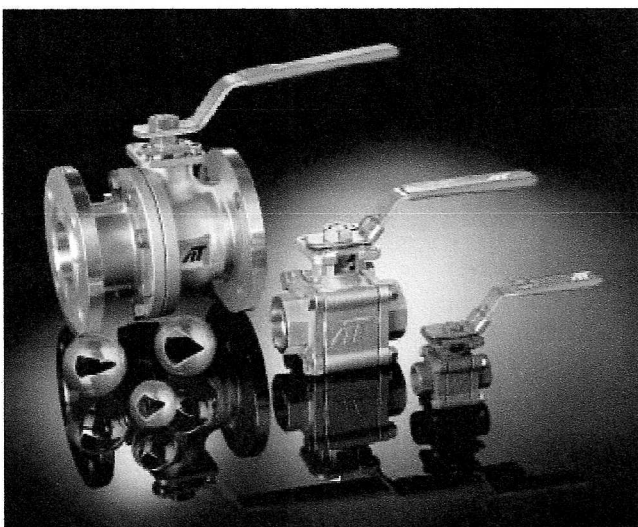
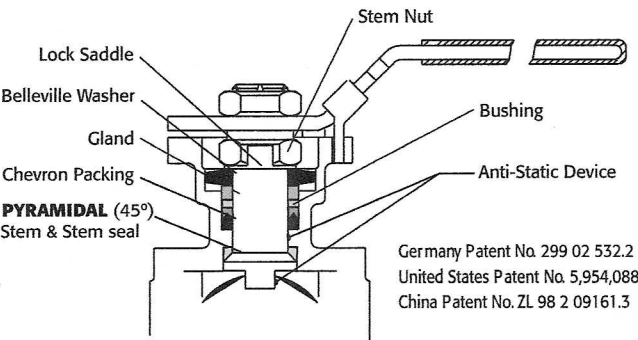
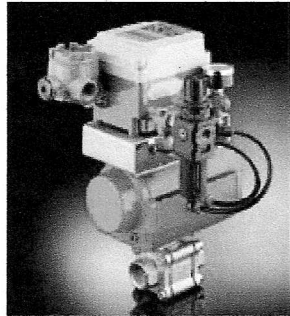




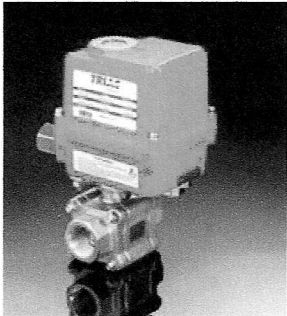
"V" Series Ball Valves are ideal for achieving more precise control with the simplicity and sealing features of a ball valve. We offer them 1/2" – 4" in a 3-piece design and 1" – 6" flanged. The standard "V" notch options are 30 and 60. While they are available as manual valves, we specialize in automating them to suit your particular control requirements.



Easy to Automate!
 See automated data sheets for pre-sized assemblies



Pneumatic



Electric

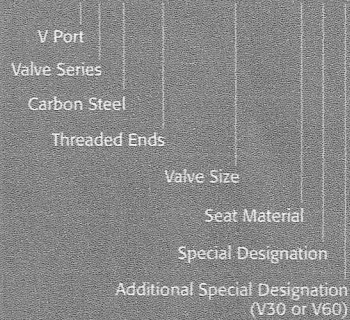
QSM QSM, Inc.
 127 Village Lane
 Easley, SC 29642

"V" Series Control Port Ball Valves

Sizes 1/2" – 4"
 3 Piece and 150# Flanged
 316SS or WCB
 30 or 60 "V" Notch Standard
 Others on Request



**HOW TO ORDER
 MANUAL VALVES**
 SAMPLE PART #
V8C-TH-0200-XXX



See part number matrix for itemized options

"V" Series Control Port Ball Valves

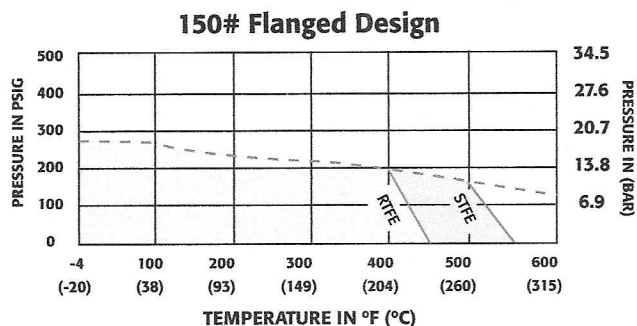
"V" Series

"V" Series Flow Coefficients- Cv Chart

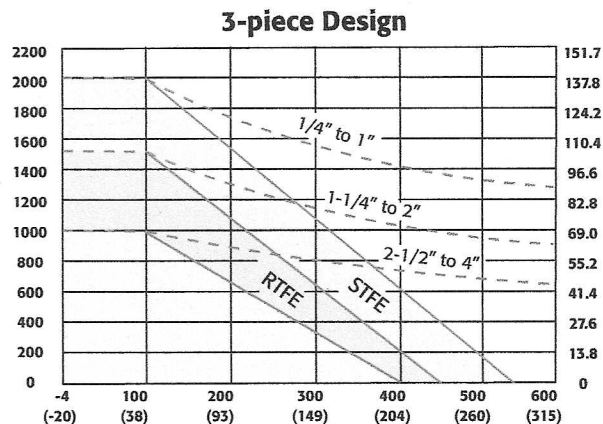
Valve Size	Ball Angle	0%	15%	20%	30%	40%	50%	60%	70%	80%	90%	100%
1/2"	30	0	0.1	0.1	0.2	0.3	0.5	0.8	1.1	1.6	2.2	2.6
	60	0	0.1	0.1	0.3	0.5	0.9	1.4	2	3.3	4.4	6
	90	0	0.1	0.2	0.4	0.6	0.9	1.5	2.2	3.8	5.4	6.9
3/4"	30	0	0.1	0.2	0.5	0.7	1.1	1.8	2.4	3.3	4.5	5.4
	60	0	0.1	0.2	0.7	1	1.7	2.8	4	6.5	9	12
	90	0	0.2	0.4	0.8	1.2	2	3.1	4.6	8	11.3	14
1"	30	0	0.1	0.3	0.8	1.3	2.3	3.5	5.1	9.8	8.5	10
	60	0	0.2	0.4	1.1	1.8	3.4	5.3	7.9	12.3	15.3	21
	90	0	0.2	0.6	1.8	3.4	5.1	8.1	11.4	16	21	29
1 1/4"	30	0	0.2	0.4	1.1	2	3.7	5.5	8	10	13	15
	60	0	0.2	0.6	1.8	3	5.5	9.5	12.8	19	26	39
	90	0	0.3	0.8	2	5	8	14	19	28	39	55
1 1/2"	30	0	0.3	0.6	1.6	3	5	7.5	11	14	17	20
	60	0	0.4	0.8	2.5	4	8	13	19	27	40	52
	90	0	0.4	0.9	3.5	7	13	20	31	42	63	78
2"	30	0	0.4	1.2	3.8	6	10	15	23	31	43	60
	60	0	0.4	1.5	4.6	9	16.5	27	39	55	83	110
	90	0	0.5	2	6	12	22	35	45	70	105	135
2 1/2"	30	0	0.4	1	4	8	12	18	28	37	62	75
	60	0	0.4	1.5	5	10	21	34	53	75	103	150
	90	0	0.5	1.7	7	14	28	48	70	106	160	218
3"	30	0	0.5	1.2	4	8	14	23	33	46	65	82
	60	0	0.5	2.5	6	14	25	40	65	91	128	165
	90	0	0.7	3.5	8	18	35	60	90	135	205	310
4"	30	0	0.6	2	6	15	29	48	71	100	130	159
	60	0	0.7	3	11	25	40	59	90	141	212	356
	90	0	1	3.5	16	40	75	125	190	295	442	670
6"	30	0	0.9	3.2	14	33	60	103	155	220	280	350
	60	0	2	5	22	60	110	190	285	416	586	800
	90	0	3	8	35	90	160	280	425	650	970	1480

FL	0	0.96	0.95	0.94	0.93	0.92	0.9	0.88	0.86	0.82	0.75
Xt	0	0.98	0.77	0.71	0.67	0.64	0.63	0.62	0.55	0.43	0.4

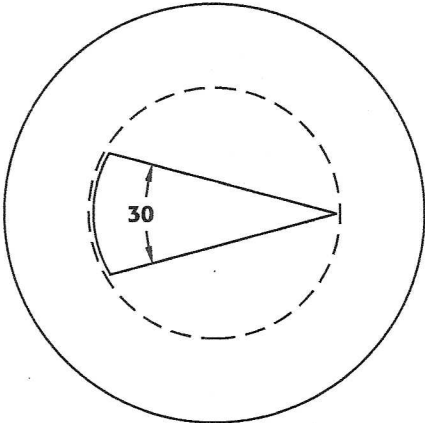
Pressure vs. Temperature Charts 1" – 6"



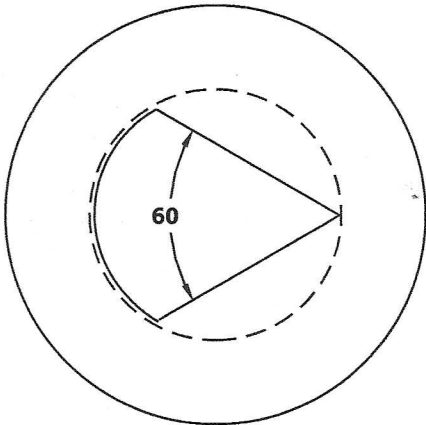
NOTE: Dotted line shows the rating for valve body. Solid line shows the rating for valve seat. Both ratings need to be consulted when determining the limitation of the valve for specific application. Consult factory for other seat material.



"V" port control valves are available with 30 V or 60V notch. V port valves offer better and more consistent control than traditional round ported ball valves. We offer this valve with the control port cast and machined into the ball, not in the seat. This allows for much better flow characteristics and eliminates the need to replace seats. The 30 option allows for finer tapered control throughout the valve rotation and the 60 offers a larger Cv in addition to controlled flow.

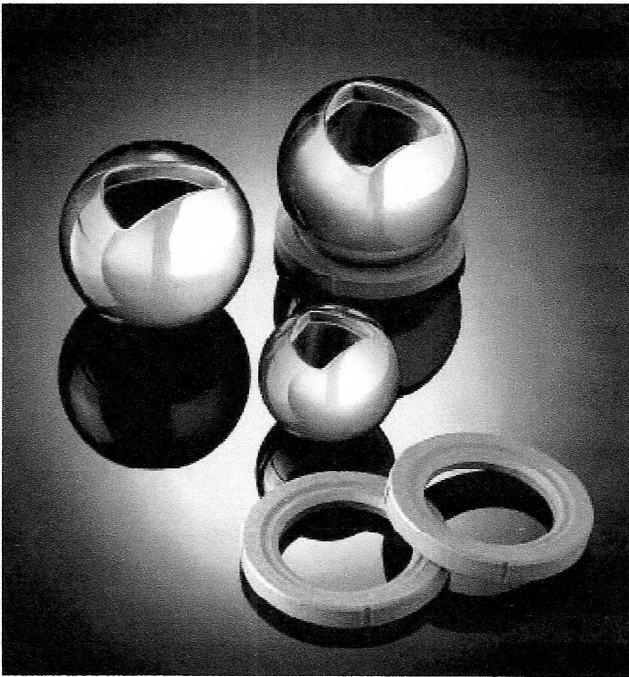


30 V-Port



60 V-Port

The 50/50 seat is standard with all V port valves. The 50% SST powder and 50% PTFE offers both strength and superior sealing properties.



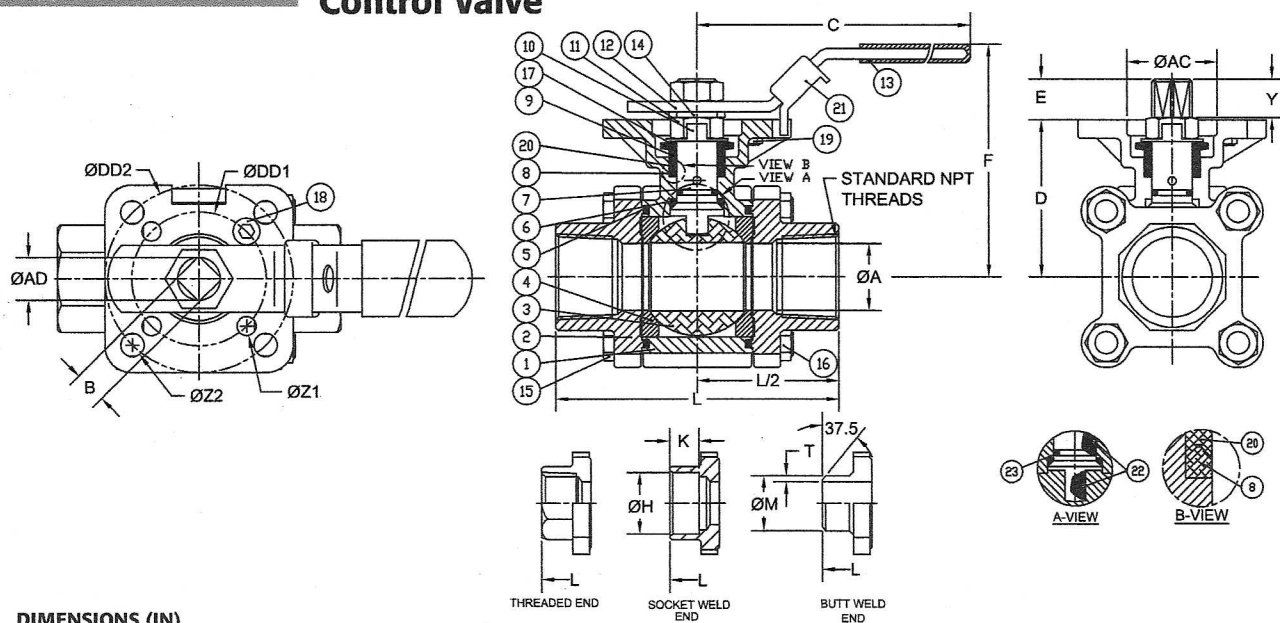
"V" Series

3 Piece

88 Series

V-Port

Control Valve



DIMENSIONS (IN)

SIZE	ØA	B	C	D	E	F	H	K	L	M	T	Y	AC	AD	DD1	DD2	ØZ2	ØZ1	(LBS)	ISO5211
1/2"	0.59	0.354	5.47	1.66	0.25	3.00	0.85	0.39	2.85	0.85	0.06	0.25	1.07	0.44	1.654	1.969	0.28	0.28	2.0	F04/F05
3/4"	0.79	0.354	5.47	1.83	0.33	3.20	1.07	0.51	3.36	1.07	0.06	0.33	1.07	0.44	1.969	2.756	0.34	0.28	3.0	F05/F07
1"	0.98	0.433	6.50	2.31	0.41	3.86	1.34	0.51	4.15	1.34	0.06	0.41	1.34	0.56	1.969	2.756	0.34	0.28	4.5	F05/F07
1-1/4"	1.26	0.433	6.50	2.46	0.41	4.00	1.69	0.51	4.37	1.68	0.06	0.41	1.34	0.56	1.969	2.756	0.34	0.28	6.0	F05/F07
1-1/2"	1.50	0.551	8.46	3.11	0.53	5.04	1.92	0.51	5.01	1.91	0.06	0.53	1.54	0.74	1.969	2.756	0.34	0.28	10.0	F05/F07
2"	1.97	0.551	8.46	3.42	0.53	5.35	2.40	0.63	5.62	2.38	0.06	0.53	1.54	0.74	1.969	2.756	0.35	0.30	13.0	F05/F07
2-1/2"	2.56	0.748	10.31	4.28	0.66	6.60	2.89	0.63	7.28	3.00	N/A	0.66	2.09	0.94	2.756	4.016	0.47	0.39	26.0	F07/F10
3"	3.15	0.748	10.31	4.63	0.70	6.96	3.54	0.63	8.07	3.54	N/A	0.70	2.09	0.94	2.756	4.016	0.47	0.39	34.0	F07/F10
4"	3.94	0.748	12.28	5.26	0.66	7.59	4.54	0.79	9.45	4.57	N/A	0.66	2.09	0.94	2.756	4.016	0.47	0.39	52.0	F07/F10

"V" Series

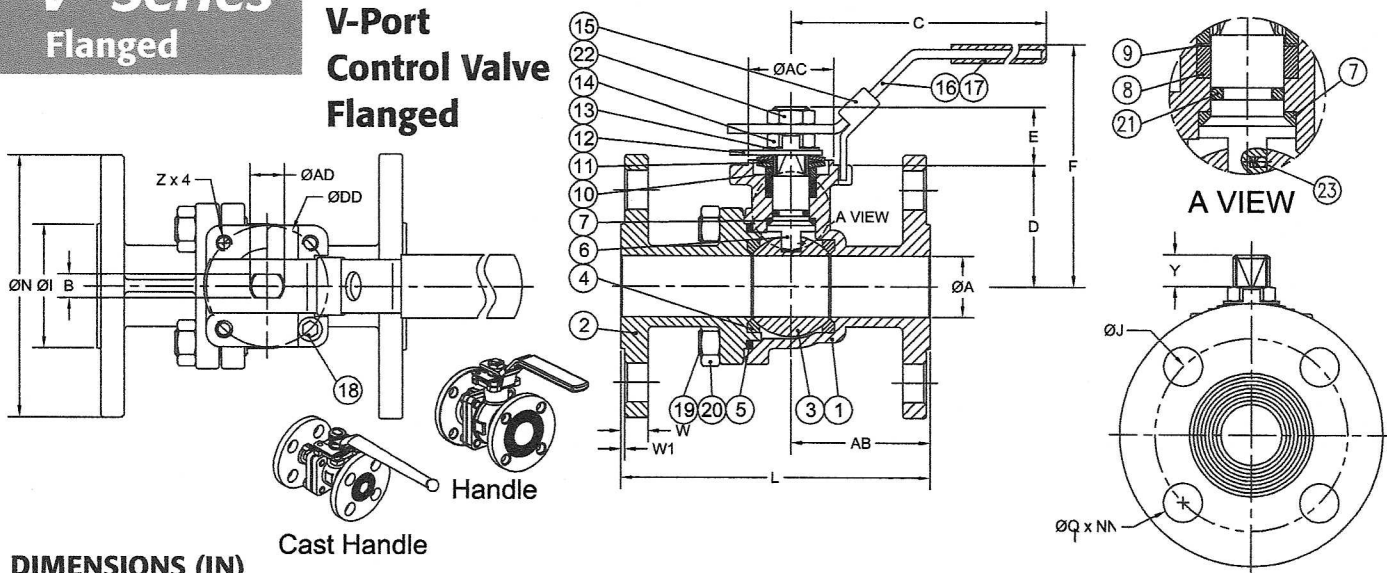
Flanged

90 Series

V-Port

Control Valve

Flanged



DIMENSIONS (IN)

INVESTMENT CAST BODY

SIZE	A	B	C	D	E	F	I	J	L	N	Q	W	W1	Y	Z	AB	AC	AD	DD	NN	(LBS)	ISO 5211
1"	0.98	0.382	8.05	1.95	0.94	3.85	2.08	2.79	5.00	4.26	0.63	0.44	0.06	0.47	M6	2.20	1.37	0.56	1.969	4	3.1	F05
1-1/2"	1.50	0.472	10.28	3.08	1.37	6.02	2.88	3.81	6.50	5.00	0.63	0.56	0.06	0.58	M8	2.81	2.17	0.75	2.756	4	13.6	F07
2"	1.97	0.472	10.28	3.40	1.37	6.38	3.62	4.75	7.02	6.00	0.75	0.63	0.06	0.58	M8	3.38	2.17	0.75	2.756	4	19.2	F07
2-1/2"	2.56	0.472	10.28	3.83	1.37	6.81	4.12	5.50	7.49	7.00	0.75	0.69	0.06	0.58	M8	3.02	2.17	0.75	2.756	4	30.0	F07
3"	3.15	0.591	13.94	4.23	1.81	6.95	5.00	6.00	8.01	7.50	0.75	0.75	0.06	0.86	M8	4.01	2.76	0.94	4.016	8	41.0	F10
4"	3.94	0.591	13.94	4.82	1.79	7.52	6.19	7.50	9.04	9.00	0.75	0.94	0.06	0.86	M8	4.06	2.76	0.94	4.016	8	65.0	F10

For 6" valve dimensions please see D9 brochure.

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