

Control Ball Valves

Competitive Cross-Reference Guide

Honeywell



**Handle Every Application With The
Industry's Most Extensive Selection**

Control Ball Valves

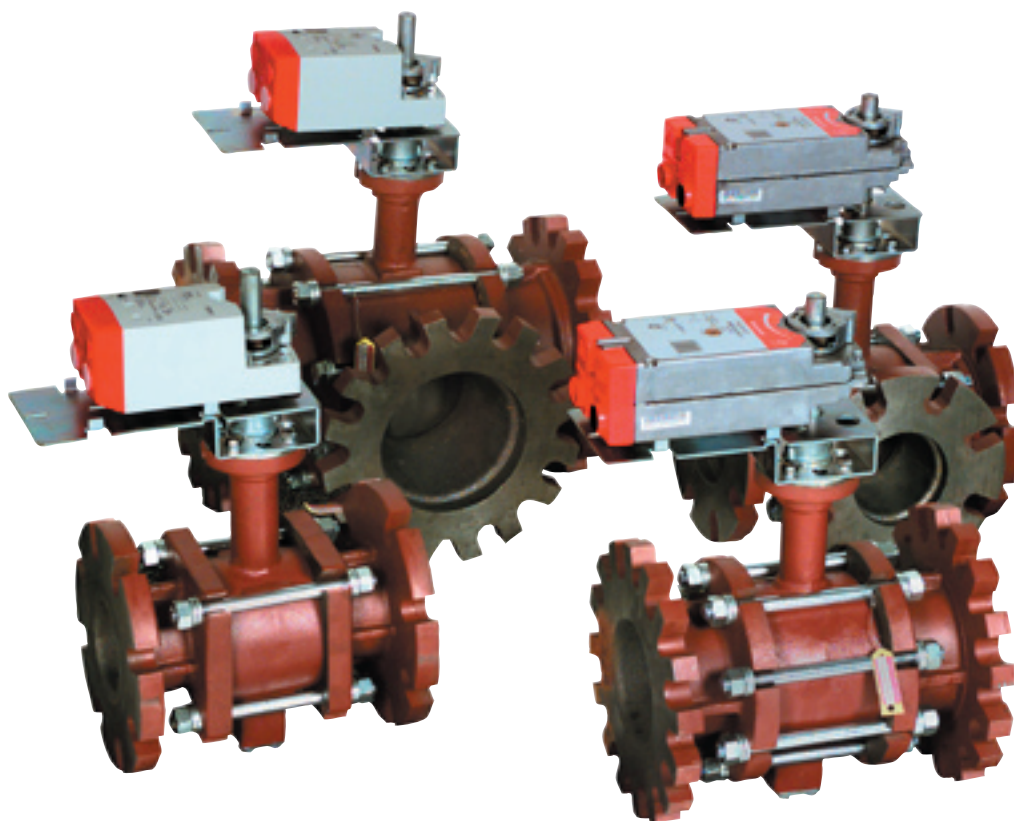
Quality Features, Proven Performance

Honeywell's line of control ball valves has all the quality features you want.

Honeywell's characterized control ball valves feature a parabolic flow insert that's integral to the ball. Its unique construction enables a smoother flow curve and greater degree of rotation responsiveness. The result: more accurate flow rate with less wear and tear. And Honeywell's Cv ratings are similar to globe valve Cv ratings, making it easier to design your system using a ball valve.

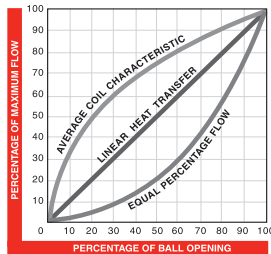
We've greatly simplified your selection process, too. Honeywell control ball valves use the same actuator mounting bracket for all 1/2" – 3" valves, whether spring or non-spring return actuators.

Our new valve numbering system makes model selection a snap. Honeywell's complete line of actuators and valves are already proven in more than three million buildings worldwide. So specify Honeywell ball valves, and put a proven performer on every job.



Accurate flow control

Parabolic flow inserts integral to the ball provide equal percentage control, which ensures linear heat transfer at the coil.



Simplified actuator selection



Multi-actuator mounting bracket allows the same bracket to be utilized on all valves.

Save with lower-cost actuators



Lower breakaway torque allows the use of more affordable actuators when valves need to be refitted.

Built for safety and endurance

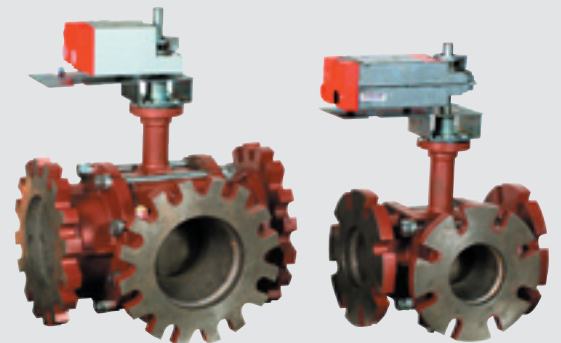
- Blowout-proof stem withstands high pressure or safety
- NORYL® material used for parabolic inserts extends valve life and performance
- Optional NEMA 3R actuator enclosure for weatherproof applications



Honeywell's control ball valve line has a large range of Cv's to meet all of your specified requirements

Flanged control ball valve offering

- Patented spring-loaded seat design that minimizes frictional loads on the ball and allows the use of compact lower torque actuators
- Honeywell only offers stainless steel balls on flanged models to handle the stress associated with 4" and 6" pipe sizes
- The flanges on these control ball valves are a unique combination of ANSI 125 and PN16 designs, suitable for installation either in North America or countries using European piping standards



Control Ball Valves

2-way

Pipe Size	Cv	Siemens	Cv	Belimo	Cv	Invensys	Cv	Johnson Controls	Cv	Honeywell		
										Ni-Brass	Stainless Steel	
1/2 in.	0.4	599-10203			0.38	VB-2213-500-9-01			0.38	VBN2AB3P0X	VBN2AB3S0X	
	0.63	599-10204			0.68	VB-2213-500-9-02			0.68	VBN2AD3P0X	VBN2AD3S0X	
	1.6	599-10205			1.3	VB-2213-500-9-03	1.2	VG1241AD	1.3	VBN2AE3P0X	VBN2AE3S0X	
								1.9	VG1241AE	2	VBN2AF3P0X	VBN2AF3S0X
	2.5	599-10206			2.6	VB-2213-500-9-04	2.9	VG1241AF	2.6	VBN2AG3P0X	VBN2AG3S0X	
	4	599-10207			4.7	VB-2213-500-9-05	4.7	VG1241AG	4.7	VBN2AH3P0X	VBN2AH3S0X	
3/4 in.					8	VB-2213-500-9-06	7.4	VG1241AL	8	VBN2AJ3P0X	VBN2AJ3S0X	
	10	599-10208			11.7	VB-2213-500-9-07	11.7	VG1241AN	11.7	VBN2AK3P0X	VBN2AK3S0X	
					0.31	VB-2213-500-9-11			0.31	VBN2BB3P0X	VBN2BB3S0X	
					0.63	VB-2213-500-9-12			0.63	VBN2BD3P0X	VBN2BD3S0X	
					1.2	VB-2213-500-9-13			1.2	VBN2BE3P0X	VBN2BE3S0X	
					2.5	VB-2213-500-9-14			2.5	VBN2BG3P0X	VBN2BG3S0X	
					4.3	VB-2213-500-9-15	4.7	VG1241BG	4.3	VBN2BH3P0X	VBN2BH3S0X	
								7.4	VG1241BL	7.4	VBN2BJ3P0X	VBN2BJ3S0X
	10	599-10209			10.1	VB-2213-500-9-16	11.7	VG1241BN	10.1	VBN2BK3P0X	VBN2BK3S0X	
	25	599-10210			14.7	VB-2213-500-9-17			14.7	VBN2BL3P0X	VBN2BL3S0X	
1 in.					28.6	VB-2213-500-9-18			29	VBN2BM3P0X	VBN2BM3S0X	
	10	599-10211			4.4	VB-2213-500-9-21	7.4	VG1241CL	4.4	VBN2CH3P0X	VBN2CH3S0X	
	16	599-10213			9	VB-2213-500-9-22	11.7	VG1241CN	9	VBN2CJ3P0X	VBN2CJ3S0X	
	25	599-10212			15.3	VB-2213-500-9-23	18.7	VG1241CP	15.3	VBN2CL3P0X	VBN2CL3S0X	
					26.1	VB-2213-500-9-24			26	VBN2CM3P0X	VBN2CM3S0X	
1-1/4 in.					43.9	VB-2213-500-9-26			44	VBN2CN3P0X	VBN2CN3S0X	
					54.2	VB-2213-500-9-27			54	VBN2CP3P0X	VBN2CP3S0X	
					4.4	VB-2213-500-9-41			4.4	VBN2DH3P0X	VBN2DH3S0X	
					8.3	VB-2213-500-9-42	11.7	VG1241DN	8.3	VBN2DJ3P0X	VBN2DJ3S0X	
	16	599-10215			14.9	VB-2213-500-9-43	18.7	VG1241DP	14.9	VBN2DK3P0X	VBN2DK3S0X	
							29.2	VG1241DR	25	VBN2DL3P0X	VBN2DL3S0X	
1-1/2 in.					36.5	VB-2213-500-9-44			37	VBN2DM3P0X	VBN2DM3S0X	
	40	599-10216			41.1	VB-2213-500-9-45			41	VBN2DN3P0X	VBN2DN3S0X	
	100	599-10217			102.3	VB-2213-500-9-46			102	VBN2DS3P0X	VBN2DS3S0X	
	25	599-10218			22.8	VB-2213-500-9-51	18.7	VG1241EP	23	VBN2EL3P0X	VBN2EL3S0X	
							29.2	VG1241ER	30	VBN2EM3P0X	VBN2EM3S0X	
	40	599-10220			41.3	VB-2213-500-9-52	46.8	VG1241ES	41	VBN2EN3P0X	VBN2EN3S0X	
	63	599-10219			73.9	VB-2213-500-9-53			74	VBN2ER3P0X	VBN2ER3S0X	
	160	599-10221			171.7	VB-2213-500-9-54			172	VBN2E13P0X	VBN2E13S0X	
2 in.							29.2	VG1241FR				
	40	599-10222			41.7	VB-2213-500-9-61	46.8	VG1241FS	42	VBN2FN3P0X	VBN2FN3S0X	
	63	599-10224							57	VBN2FP3P0X	VBN2FP3S0X	
					71.1	VB-2213-500-9-63	73.7	VG1241FT	71	VBN2FR3P0X	VBN2FR3S0X	
	100	599-10223							100	VBN2FS3P0X	VBN2FS3S0X	
					108	VB-2213-500-9-65			108	VBN2FT3P0X	VBN2FT3S0X	
2-1/2 in.					210	VB-2213-500-9-66			210	VBN2F13P0X	VBN2F13S0X	
					266	VB-2213-500-9-67			266	VBN2F23P0X	VBN2F23S0X	
					45	VB-2213-500-9-71			45	VBN2GN3P0X	VBN2GN3S0X	
					55	VB-2213-500-9-72			55	VBN2GP3P0X	VBN2GP3S0X	
					72.3	VB-2213-500-9-73			72	VBN2GR3P0X	VBN2GR3S0X	
					101	VB-2213-500-9-74			101	VBN2GS3P0X	VBN2GS3S0X	
					162	VB-2213-500-9-75			162	VBN2GU3P0X	VBN2GU3S0X	
3 in.					202	VB-2213-500-9-76			202	VBN2G13P0X	VBN2G13S0X	
					49	VB-2213-500-9-81			49	VBN2HN3P0X	VBN2HN3S0X	
					63	VB-2213-500-9-82			63	VBN2HP3P0X	VBN2HP3S0X	
					82	VB-2213-500-9-83			82	VBN2HR3P0X	VBN2HR3S0X	
					124	VB-2213-500-9-84			124	VBN2HT3P0X	VBN2HT3S0X	
4 in.					145	VB-2213-500-9-85			145	VBN2HU3P0X	VBN2HU3S0X	
									91	VBF2JS1S0X		
									118	VBF2JT1S0X		
									152	VBF2JU1S0X		
									197	VBF2J11S0X		
5 in.									254	VBF2J21S0X		
									144	VBF2KU1S0X		
									185	VBF2K11S0X		
									240	VBF2K21S0X		
									309	VBF2K31S0X		
6 in.									400	VBF2K41S0X		
									208	VBF2L11S0X		
									268	VBF2L21S0X		
									346	VBF2L41S0X		
									441	VBF2L51S0X		
								577	VBF2L61S0X			
								650	VBF2L71S0X			

Control Ball Valve & Non-Spring Return, Floating Actuator

2-way

Pipe Size	Cv	Siemens	Cv	Belimo	Cv	Invensys	Cv	Johnson Controls	Honeywell			
									Ni-Brass	Stainless Steel		
1/2 in.	0.4	171A-10203	0.3	B207+LRB24-3	0.38	VF-2213-505-9-01			0.38	VB22AB3P0A	VB22AB3S0A	
	0.63	171A-10204	0.8	B209+LRB24-3	0.68	VF-2213-505-9-02			0.68	VB22AD3P0A	VB22AD3S0A	
	1.6	171A-10205	1.2	B210+LRB24-3	1.3	VF-2213-505-9-03		1.2	VG1241AD - 9T4AGA	1.3	VB22AE3P0A	VB22AE3S0A
			1.9	B211+LRB24-3			1.9	VG1241AE - 9T4AGA	2	VB22AF3P0A	VB22AF3S0A	
	2.5	171A-10206	3	B212+LRB24-3	2.6	VF-2213-505-9-04		2.9	VG1241AF - 9T4AGA	2.6	VB22AG3P0A	VB22AG3S0A
	4	171A-10207	4.7	B213+LRB24-3	4.7	VF-2213-505-9-05		4.7	VG1241AG - 9T4AGA	4.7	VB22AH3P0A	VB22AH3S0A
			7.4	B214+LRB24-3	8	VF-2213-505-9-06	7.4	VG1241AL - 9T4AGA	8	VB22AJ3P0A	VB22AJ3S0A	
10	171A-10208	10	B215+LRB24-3	11.7	VF-2213-505-9-07	11.7	VG1241AN - 9T4AGA	11.7	VB22AK3P0A	VB22AK3S0A		
3/4 in.					0.31	VF-2213-505-9-11			0.31	VB22BB3P0A	VB22BB3S0A	
					0.63	VF-2213-505-9-12			0.63	VB22BD3P0A	VB22BD3S0A	
					1.2	VF-2213-505-9-13			1.2	VB22BE3P0A	VB22BE3S0A	
					2.5	VF-2213-505-9-14			2.5	VB22BG3P0A	VB22BG3S0A	
			4.7	B217+LRB24-3	4.3	VF-2213-505-9-15	4.7	VG1241BG - 9T4AGA	4.3	VB22BH3P0A	VB22BH3S0A	
			7.4	B218+LRB24-3			7.4	VG1241BL - 9T4AGA	7.4	VB22BJ3P0A	VB22BJ3S0A	
	10	171A-10209	10	B219+LRB24-3	10.1	VF-2213-505-9-16	11.7	VG1241BN - 9T4AGA	10.1	VB22BK3P0A	VB22BK3S0A	
1 in.					14.7	VF-2213-505-9-17			14.7	VB22BL3P0A	VB22BL3S0A	
	25	171A-10210	24	B220+LRB24-3	28.6	VF-2213-505-9-18			29	VB22BM3P0A	VB22BM3S0A	
			7.4	B222+LRB24-3	4.4	VF-2213-505-9-21	7.4	VG1241CL - 9T4AGA	4.4	VB22CH3P0A	VB22CH3S0A	
	10	171A-10211	10	B223+LRB24-3	9	VF-2213-505-9-22	11.7	VG1241CN - 9T4AGA	9	VB22CJ3P0A	VB22CJ3S0A	
	16	171A-10213	19	B224+LRB24-3	15.3	VF-2213-505-9-23	18.7	VG1241CP - 9T4AGA	15.3	VB22CL3P0A	VB22CL3S0A	
	25	171A-10212	30	B225+LRB24-3	26.1	VF-2213-505-9-24			26	VB22CM3P0A	VB22CM3S0A	
					43.9	VF-2213-505-9-26			44	VB22CN3P0A	VB22CN3S0A	
1-1/4 in.					54.2	VF-2213-505-9-27			54	VB22CP3P0A	VB22CP3S0A	
					4.4	VF-2213-505-9-41			4.4	VB22DH3P0A	VB22DH3S0A	
			10	B229+LRB24-3	8.3	VF-2213-505-9-42	11.7	VG1241DN - 906AGA	8.3	VB22DJ3P0A	VB22DJ3S0A	
	16	171A-10215	19	B230+LRB24-3	14.9	VF-2213-505-9-43	18.7	VG1241DP - 906AGA	14.9	VB22DK3P0A	VB22DK3S0A	
			25	B231+ARB24-3			29.2	VG1241DR - 906AGA	25	VB22DL3P0A	VB22DL3S0A	
			37	B232+ARB24-3	36.5	VF-2213-505-9-44			37	VB22DM3P0A	VB22DM3S0A	
	40	171A-10216			41.1	VF-2213-505-9-45			41	VB22DN3P0A	VB22DN3S0A	
100	171A-10217			102.3	VF-2213-505-9-46			102	VB22DS3P0A	VB22DS3S0A		
1-1/2 in.	25	171B-10218	19	B238+ARB24-3	22.8	VF-2213-505-9-51	18.7	VG1241EP - 906AGA	23	VB22EL3P0A	VB22EL3S0A	
			29	B239+ARB24-3			29.2	VG1241ER - 906AGA	30	VB22EM3P0A	VB22EM3S0A	
	40	171B-10220	37	B240+ARB24-3	41.3	VF-2213-505-9-52	46.8	VG1241ES - 906AGA	41	VB22EN3P0A	VB22EN3S0A	
	63	171B-10219			73.9	VF-2213-505-9-53			74	VB22ER3P0A	VB22ER3S0A	
2 in.	160	171B-10221			171.7	VF-2213-505-9-54			172	VB22E13P0A	VB22E13S0A	
			29	B248+ARB24-3			29.2	VG1241FR - 909AGA				
	40	171B-10222	46	B249+ARB24-3	41.7	VF-2213-505-9-61	46.8	VG1241FS - 909AGA	42	VB22FN3P0A	VB22FN3S0A	
	63	171B-10224	57	B250+ARB24-3					57	VB22FP3P0A	VB22FP3S0A	
			65	B251+ARB24-3	71.1	VF-2213-505-9-63	73.7	VG1241FT - 909AGA	71	VB22FR3P0A	VB22FR3S0A	
	100	171B-10223	85	B252+ARB24-3	108	VF-2213-505-9-65			100	VB22FS3P0A	VB22FS3S0A	
			120	B253+ARB24-3					108	VB22FT3P0A	VB22FT3S0A	
2-1/2 in.					210	VF-2213-505-9-66			210	VB22F13P0A	VB22F13S0A	
	250	171B-10225	240	B254+ARB24-3	266	VF-2213-505-9-67			266	VB22F23P0A	VB22F23S0A	
					45	VF-2213-505-9-71			45	VB22GN3P0A	VB22GN3S0A	
			60	B261+ARB24-3	55	VF-2213-505-9-72			55	VB22GP3P0A	VB22GP3S0A	
			75	B262+ARB24-3	72.3	VF-2213-505-9-73			72	VB22GR3P0A	VB22GR3S0A	
3 in.					110	VF-2213-505-9-74			101	VB22GS3P0A	VB22GS3S0A	
					150	VF-2213-505-9-75			162	VB22GU3P0A	VB22GU3S0A	
					210	VF-2213-505-9-76			202	VB22G13P0A	VB22G13S0A	
					49	VF-2213-505-9-81			49	VB22HN3P0A	VB22HN3S0A	
			70	B277+ARB24-3	63	VF-2213-505-9-82			63	VB22HP3P0A	VB22HP3S0A	
4 in.					82	VF-2213-505-9-83			82	VB22HR3P0A	VB22HR3S0A	
					130	VF-2213-505-9-84			124	VB22HT3P0A	VB22HT3S0A	
					170	VF-2213-505-9-85			145	VB22HU3P0A	VB22HU3S0A	
									91	VB22JS1S0A	VB22JS1S0A	
5 in.									118	VB22JT1S0A	VB22JT1S0A	
									152	VB22JU1S0A	VB22JU1S0A	
									197	VB22J11S0A	VB22J11S0A	
									254	VB22J21S0A	VB22J21S0A	
6 in.									144	VB22KU1S0A	VB22KU1S0A	
									185	VB22K11S0A	VB22K11S0A	
									240	VB22K21S0A	VB22K21S0A	
									309	VB22K31S0A	VB22K31S0A	
6 in.									400	VB22K41S0A	VB22K41S0A	
									208	VB22L11S0A	VB22L11S0A	
									268	VB22L21S0A	VB22L21S0A	
									346	VB22L41S0A	VB22L41S0A	
								441	VB22L51S0A	VB22L51S0A		
								577	VB22L61S0A	VB22L61S0A		
								650	VB22L71S0A	VB22L71S0A		

Control Ball Valve & Non-Spring Return, Modulating Actuator

2-way

Pipe Size	Cv	Siemens	Cv	Belimo	Cv	Invensys	Cv	Johnson Controls	Cv	Honeywell		
										Ni-Brass	Stainless Steel	
1/2 in.	0.4	171C-10203	0.46	B208+LRB24-SR	0.38	VS-2213-505-9-01			0.38	VBN2AB3POB	VBN2AB3SOB	
	0.63	171C-10204	0.8	B209+LRB24-SR	0.68	VS-2213-505-9-02			0.68	VBN2AD3POB	VBN2AD3SOB	
	1.6	171C-10205	1.2	B210+LRB24-SR	1.3	VS-2213-505-9-03			1.2	VBN2AE3POB	VBN2AE3SOB	
			1.9	B211+LRB24-SR					1.9	VBN2AF3POB	VBN2AF3SOB	
	2.5	171C-10206	3	B212+LRB24-SR	2.6	VS-2213-505-9-04			2.9	VBN2AG3POB	VBN2AG3SOB	
	4	171C-10207	4.7	B213+LRB24-SR	4.7	VS-2213-505-9-05			4.7	VBN2AH3POB	VBN2AH3SOB	
			7.4	B214+LRB24-SR	8	VS-2213-505-9-06			7.4	VBN2AJ3POB	VBN2AJ3SOB	
	10	171C-10208	10	B215+LRB24-SR	11.7	VS-2213-505-9-07			11.7	VBN2AK3POB	VBN2AK3SOB	
3/4 in.					0.31	VS-2213-505-9-11			0.31	VBN2BB3POB	VBN2BB3SOB	
					0.63	VS-2213-505-9-12			0.63	VBN2BD3POB	VBN2BD3SOB	
					1.2	VS-2213-505-9-13			1.2	VBN2BE3POB	VBN2BE3SOB	
					2.5	VS-2213-505-9-14			2.5	VBN2BG3POB	VBN2BG3SOB	
			4.7	B217+LRB24-SR	4.3	VS-2213-505-9-15		4.7	VG1241BG - 9T4GGA	4.3	VBN2BH3POB	VBN2BH3SOB
			7.4	B218+LRB24-SR				7.4	VG1241BL - 9T4GGA	7.4	VBN2BJ3POB	VBN2BJ3SOB
	10	171C-10209	10	B219+LRB24-SR	10.1	VS-2213-505-9-16		11.7	VG1241BN - 9T4GGA	10.1	VBN2BK3POB	VBN2BK3SOB
				14.7	VS-2213-505-9-17			14.7	VBN2BL3POB	VBN2BL3SOB		
	25	171C-10210	24	B220+LRB24-SR	28.6	VS-2213-505-9-18			29	VBN2BM3POB	VBN2BM3SOB	
1 in.			7.4	B222+LRB24-SR	4.4	VS-2213-505-9-21		7.4	VG1241CL - 9T4GGA	4.4	VBN2CH3POB	VBN2CH3SOB
	10	171C-10211	10	B223+LRB24-SR	9	VS-2213-505-9-22		11.7	VG1241CN - 9T4GGA	9	VBN2CJ3POB	VBN2CJ3SOB
	16	171C-10213	19	B224+LRB24-SR	15.3	VS-2213-505-9-23		18.7	VG1241CP - 9T4GGA	15.3	VBN2CL3POB	VBN2CL3SOB
	25	171C-10212	30	B225+LRB24-SR	26.1	VS-2213-505-9-24			26	VBN2CM3POB	VBN2CM3SOB	
					43.9	VS-2213-505-9-26			44	VBN2CN3POB	VBN2CN3SOB	
1-1/4 in.					54.2	VS-2213-505-9-27			54	VBN2CP3POB	VBN2CP3SOB	
					4.4	VS-2213-505-9-41			4.4	VBN2DH3POB	VBN2DH3SOB	
			10	B229+LRB24-SR	8.3	VS-2213-505-9-42		11.7	VG1241DN - 906GGA	8.3	VBN2DJ3POB	VBN2DJ3SOB
	16	171C-10215	19	B230+LRB24-SR	14.9	VS-2213-505-9-43		18.7	VG1241DP - 906GGA	14.9	VBN2DK3POB	VBN2DK3SOB
			25	B231+ARB24-SR				29.2	VG1241DR - 906GGA	25	VBN2DL3POB	VBN2DL3SOB
	40	171C-10216	37	B232+ARB24-SR	36.5	VS-2213-505-9-44			37	VBN2DM3POB	VBN2DM3SOB	
				41.1	VS-2213-505-9-45			41	VBN2DN3POB	VBN2DN3SOB		
1-1/2 in.	100	171C-10217			102.3	VS-2213-505-9-46			102	VBN2DS3POB	VBN2DS3SOB	
	25	171D-10218	19	B238+ARB24-SR	22.8	VS-2213-505-9-51		18.7	VG1241EP - 906GGA	23	VBN2EL3POB	VBN2EL3SOB
			29	B239+ARB24-SR				29.2	VG1241ER - 906GGA	30	VBN2EM3POB	VBN2EM3SOB
	40	171D-10220	37	B240+ARB24-SR	41.3	VS-2213-505-9-52		46.8	VG1241ES - 906GGA	41	VBN2EN3POB	VBN2EN3SOB
	63	171D-10219			73.9	VS-2213-505-9-53			74	VBN2ER3POB	VBN2ER3SOB	
2 in.	160	171D-10221			171.7	VS-2213-505-9-54			172	VBN2E13POB	VBN2E13SOB	
			29	B248+ARB24-SR				29.2	VG1241FR - 909GGA			
	40	171D-10222	46	B249+ARB24-SR	41.7	VS-2213-505-9-61		46.8	VG1241FS - 909GGA	42	VBN2FN3POB	VBN2FN3SOB
	63	171D-10224	57	B250+ARB24-SR					57	VBN2FP3POB	VBN2FP3SOB	
			65	B251+ARX24-MFT	71.1	VS-2213-505-9-63		73.7	VG1241FT - 909GGA	71	VBN2FR3POB	VBN2FR3SOB
	100	171D-10223	85	B252+ARX24-MFT					100	VBN2FS3POB	VBN2FS3SOB	
			120	B253+ARX24-MFT	108	VS-2213-505-9-65			108	VBN2FT3POB	VBN2FT3SOB	
2-1/2 in.					210	VS-2213-505-9-66			210	VBN2F13POB	VBN2F13SOB	
					266	VS-2213-505-9-67			266	VBN2F23POB	VBN2F23SOB	
					45	VS-2213-505-9-71			45	VBN2GN3POB	VBN2GN3SOB	
			60	B261+ARX24-MFT	55	VS-2213-505-9-72			55	VBN2GP3POB	VBN2GP3SOB	
			75	B262+ARX24-MFT	72.3	VS-2213-505-9-73			72	VBN2GR3POB	VBN2GR3SOB	
			110	B263+ARX24-MFT	101	VS-2213-505-9-74			101	VBN2GS3POB	VBN2GS3SOB	
3 in.					162	VS-2213-505-9-75			162	VBN2GU3POB	VBN2GU3SOB	
					202	VS-2213-505-9-76			202	VBN2G13POB	VBN2G13SOB	
					49	VS-2213-505-9-81			49	VBN2HN3POB	VBN2HN3SOB	
			70	B277+ARX24-MFT	63	VS-2213-505-9-82			63	VBN2HP3POB	VBN2HP3SOB	
					82	VS-2213-505-9-83			82	VBN2HR3POB	VBN2HR3SOB	
4 in.					124	VS-2213-505-9-84			124	VBN2HT3POB	VBN2HT3SOB	
					145	VS-2213-505-9-85			145	VBN2HU3POB	VBN2HU3SOB	
									91	VBF2JS1SOB		
5 in.									118	VBF2JT1SOB		
									152	VBF2JU1SOB		
									197	VBF2J11SOB		
									254	VBF2J21SOB		
6 in.									144	VBF2KU1SOB		
									185	VBF2K11SOB		
									240	VBF2K21SOB		
									309	VBF2K31SOB		
									400	VBF2K41SOB		
6 in.									208	VBF2L11SOB		
									268	VBF2L21SOB		
									346	VBF2L41SOB		
									441	VBF2L51SOB		
									577	VBF2L61SOB		
								650	VBF2L71SOB			

Control Ball Valve & Spring Return, 2-Position Actuator

2-way

Pipe Size	Cv	Siemens	Cv	Belimo	Cv	Invensys	Cv	Johnson Controls	Cv	Honeywell	
										Ni-Brass	Stainless Steel
1/2 in.	0.4	171E-10203	0.3	B207+TFX24 US	0.38	VA-2213-536-9-01			0.38	VBN2AB3POC	VBN2AB3SOC
	0.63	171E-10204	0.8	B209+TFX24 US	0.68	VA-2213-536-9-02			0.68	VBN2AD3POC	VBN2AD3SOC
	1.6	171E-10205	1.2	B210+TFX24 US	1.3	VA-2213-536-9-03	1.2	VG1241AD - 22TBGA	1.3	VBN2AE3POC	VBN2AE3SOC
			1.9	B211+TFX24 US			1.9	VG1241AE - 22TBGA	2	VBN2AF3POC	VBN2AF3SOC
	2.5	171E-10206	3	B212+TFX24 US	2.6	VA-2213-536-9-04	2.9	VG1241AF - 22TBGA	2.6	VBN2AG3POC	VBN2AG3SOC
	4	171E-10207	4.7	B213+TFX24 US	4.7	VA-2213-536-9-05	4.7	VG1241AG - 22TBGA	4.7	VBN2AH3POC	VBN2AH3SOC
			7.4	B214+TFX24 US	8	VA-2213-536-9-06	7.4	VG1241AL - 22TBGA	8	VBN2AJ3POC	VBN2AJ3SOC
10	171E-10208	10	B215+TFX24 US	11.7	VA-2213-536-9-07	11.7	VG1241AN - 22TBGA	11.7	VBN2AK3POC	VBN2AK3SOC	
3/4 in.					0.31	VA-2213-536-9-11			0.31	VBN2BB3POC	VBN2BB3SOC
					0.63	VA-2213-536-9-12			0.63	VBN2BD3POC	VBN2BD3SOC
					1.2	VA-2213-536-9-13			1.2	VBN2BE3POC	VBN2BE3SOC
					2.5	VA-2213-536-9-14			2.5	VBN2BG3POC	VBN2BG3SOC
			4.7	B217+TFX24 US	4.3	VA-2213-536-9-15	4.7	VG1241BG - 22TBGA	4.3	VBN2BH3POC	VBN2BH3SOC
			7.4	B218+TFX24 US			7.4	VG1241BL - 22TBGA	7.4	VBN2BJ3POC	VBN2BJ3SOC
	10	171E-10209	10	B219+TFX24 US	10.1	VA-2213-536-9-16	11.7	VG1241BN - 22TBGA	10.1	VBN2BK3POC	VBN2BK3SOC
1 in.					14.7	VA-2213-536-9-17			14.7	VBN2BL3POC	VBN2BL3SOC
	25	171E-10210	24	B220+TFX24 US	28.6	VA-2213-536-9-18			29	VBN2BM3POC	VBN2BM3SOC
			7.4	B222+LF24 US	4.4	VA-2213-536-9-21	7.4	VG1241CL - 936BGA	4.4	VBN2CJ3POC	VBN2CJ3SOC
	10	171E-10211	10	B223+LF24 US	9	VA-2213-536-9-22	11.7	VG1241CN - 936BGA	9	VBN2CJ3POC	VBN2CJ3SOC
	16	171E-10213	19	B224+LF24 US	15.3	VA-2213-536-9-23	18.7	VG1241CP - 936BGA	15.3	VBN2CL3POC	VBN2CL3SOC
	25	171E-10212	30	B225+LF24 US	26.1	VA-2213-536-9-24			26	VBN2CM3POC	VBN2CM3SOC
					43.9	VA-2213-536-9-26			44	VBN2CN3POC	VBN2CN3SOC
1-1/4 in.					54.2	VA-2213-536-9-27			54	VBN2CP3POC	VBN2CP3SOC
					4.4	VA-2213-536-9-41			4.4	VBN2DH3POC	VBN2DH3SOC
			10	B229+LF24 US	8.3	VA-2213-536-9-42	11.7	VG1241DN - 936BGA	8.3	VBN2DJ3POC	VBN2DJ3SOC
	16	171E-10215	19	B230+LF24 US	14.9	VA-2213-536-9-43	18.7	VG1241DP - 936BGA	14.9	VBN2DK3POC	VBN2DK3SOC
			25	B231+AF24 US			29.2	VG1241DR - 936BGA	25	VBN2DL3POC	VBN2DL3SOC
			37	B232+AF24 US	36.5	VA-2213-536-9-44			37	VBN2DM3POC	VBN2DM3SOC
	40	171E-10216			41.1	VA-2213-536-9-45			41	VBN2DN3POC	VBN2DN3SOC
100	171E-10217			102.3	VA-2213-536-9-46			102	VBN2DS3POC	VBN2DS3SOC	
1-1/2 in.	25	171E-10218	19	B238+AF24 US	22.8	VA-2213-536-9-51	18.7	VG1241EP - 936BGA	23	VBN2EL3POC	VBN2EL3SOC
			29	B239+AF24 US			29.2	VG1241ER - 936BGA	30	VBN2EM3POC	VBN2EM3SOC
	40	171E-10220	37	B240+AF24 US	41.3	VA-2213-536-9-52	46.8	VG1241ES - 936BGA	41	VBN2EN3POC	VBN2EN3SOC
	63	171E-10219			73.9	VA-2213-536-9-53			74	VBN2ER3POC	VBN2ER3SOC
2 in.	160	171E-10221			171.7	VA-2213-536-9-54			172	VBN2E13POC	VBN2E13SOC
			29	B248+AF24 US			29.2	VG1241FR - 926BGA			
	40	171E-10222	46	B249+AF24 US	41.7	VA-2213-536-9-61	46.8	VG1241FS - 926BGA	42	VBN2FN3POC	VBN2FN3SOC
	63	171E-10224	57	B250+AF24 US					57	VBN2FP3POC	VBN2FP3SOC
			65	B251+AF24 US	71.1	VA-2213-536-9-63	73.7	VG1241FT - 926BGA	71	VBN2FR3POC	VBN2FR3SOC
	100	171E-10223	85	B252+AF24 US					100	VBN2FS3POC	VBN2FS3SOC
			120	B253+AF24 US	108	VA-2213-536-9-65			108	VBN2FT3POC	VBN2FT3SOC
2-1/2 in.					210	VA-2213-536-9-66			210	VBN2F13POC	VBN2F13SOC
					266	VA-2213-536-9-67			266	VBN2F23POC	VBN2F23SOC
					45	VA-2213-536-9-71			45	VBN2GN3POC	VBN2GN3SOC
			60	B261+AF24 US	55	VA-2213-536-9-72			55	VBN2GP3POC	VBN2GP3SOC
			75	B262+AF24 US	72.3	VA-2213-536-9-73			72	VBN2GR3POC	VBN2GR3SOC
			110	B263+AF24 US	101	VA-2213-536-9-74			101	VBN2GS3POC	VBN2GS3SOC
3 in.					162	VA-2213-536-9-75			162	VBN2GU3POC	VBN2GU3SOC
					202	VA-2213-536-9-76			202	VBN2G13POC	VBN2G13SOC
					49	VA-2213-536-9-81			49	VBN2HN3POC	VBN2HN3SOC
			70	B277+AF24 US	63	VA-2213-536-9-82			63	VBN2HP3POC	VBN2HP3SOC
					82	VA-2213-536-9-83			82	VBN2HR3POC	VBN2HR3SOC
4 in.					124	VA-2213-536-9-84			124	VBN2HT3POC	VBN2HT3SOC
					145	VA-2213-536-9-85			145	VBN2HU3POC	VBN2HU3SOC
									91	VBF2JS1SOC	VBF2JS1SOC
5 in.									118	VBF2JT1SOC	VBF2JT1SOC
									152	VBF2JU1SOC	VBF2JU1SOC
									197	VBF2J11SOC	VBF2J11SOC
									254	VBF2J21SOC	VBF2J21SOC
									144	VBF2KU1SOC	VBF2KU1SOC
6 in.									185	VBF2K11SOC	VBF2K11SOC
									240	VBF2K21SOC	VBF2K21SOC
									309	VBF2K31SOC	VBF2K31SOC
									400	VBF2K41SOC	VBF2K41SOC
								208	VBF2L11SOC	VBF2L11SOC	
								268	VBF2L21SOC	VBF2L21SOC	
								346	VBF2L41SOC	VBF2L41SOC	
								441	VBF2L51SOC	VBF2L51SOC	
								577	VBF2L61SOC	VBF2L61SOC	
								650	VBF2L71SOC	VBF2L71SOC	

Control Ball Valve & Spring Return, Floating Actuator

2-way

Pipe Size	Cv	Siemens	Cv	Belimo	Cv	Invensys	Cv	Johnson Controls	Cv	Honeywell	
										Ni-Brass	Stainless Steel
1/2 in.	0.4	171F-10203	0.3	B207+TF24-3 US	0.38	VF-2213-536-9-01			0.38	VBN2AB3P0D	VBN2AB3S0D
	0.63	171F-10204	0.46	B208+TF24-3 US	0.68	VF-2213-536-9-02			0.68	VBN2AD3P0D	VBN2AD3S0D
	1.6	171F-10205	1.2	B210+TF24-3 US	1.3	VF-2213-536-9-03	1.2	VG1241AD - 22TAGA	1.3	VBN2AE3P0D	VBN2AE3S0D
			1.9	B211+TF24-3 US			1.9	VG1241AE - 22TAGA	2	VBN2AF3P0D	VBN2AF3S0D
	2.5	171F-10206	3	B212+TF24-3 US	2.6	VF-2213-536-9-04	2.9	VG1241AF - 22TAGA	2.6	VBN2AG3P0D	VBN2AG3S0D
	4	171F-10207	4.7	B213+TF24-3 US	4.7	VF-2213-536-9-05	4.7	VG1241AG - 22TAGA	4.7	VBN2AH3P0D	VBN2AH3S0D
			7.4	B214+TF24-3 US	8	VF-2213-536-9-06	7.4	VG1241AL - 22TAGA	8	VBN2AJ3P0D	VBN2AJ3S0D
10	171F-10208	10	B215+TF24-3 US	11.7	VF-2213-536-9-07	11.7	VG1241AN - 22TAGA	11.7	VBN2AK3P0D	VBN2AK3S0D	
3/4 in.					0.31	VF-2213-536-9-11			0.31	VBN2BB3P0D	VBN2BB3S0D
					0.63	VF-2213-536-9-12			0.63	VBN2BD3P0D	VBN2BD3S0D
					1.2	VF-2213-536-9-13			1.2	VBN2BE3P0D	VBN2BE3S0D
					2.5	VF-2213-536-9-14			2.5	VBN2BG3P0D	VBN2BG3S0D
			4.7	B217+TF24-3 US	4.3	VF-2213-536-9-15	4.7	VG1241BG - 22TAGA	4.3	VBN2BH3P0D	VBN2BH3S0D
			7.4	B218+TF24-3 US			7.4	VG1241BL - 22TAGA	7.4	VBN2BJ3P0D	VBN2BJ3S0D
	10	171F-10209	10	B219+TF24-3 US	10.1	VF-2213-536-9-16	11.7	VG1241BN - 22TAGA	10.1	VBN2BK3P0D	VBN2BK3S0D
1 in.					14.7	VF-2213-536-9-17			14.7	VBN2BL3P0D	VBN2BL3S0D
	25	171F-10210	24	2B20+TF24-3 US	28.6	VF-2213-536-9-18			29	VBN2BM3P0D	VBN2BM3S0D
			7.4	B222+LF24-3 US	4.4	VF-2213-536-9-21	7.4	VG1241CL - 936AGA	4.4	VBN2BJ3P0D	VBN2BJ3S0D
	10	171F-10211	10	B223+LF24-3 US	9	VF-2213-536-9-22	11.7	VG1241CN - 936AGA	9	VBN2CJ3P0D	VBN2CJ3S0D
	16	171F-10213	19	B224+LF24-3 US	15.3	VF-2213-536-9-23	18.7	VG1241CP - 936AGA	15.3	VBN2CL3P0D	VBN2CL3S0D
	25	171F-10212	30	B225+LF24-3 US	26.1	VF-2213-536-9-24			26	VBN2CM3P0D	VBN2CM3S0D
					43.9	VF-2213-536-9-26			44	VBN2CN3P0D	VBN2CN3S0D
63	171F-10214			54.2	VF-2213-536-9-27			54	VBN2CP3P0D	VBN2CP3S0D	
1-1/4 in.					4.4	VF-2213-536-9-41			4.4	VBN2DH3P0D	VBN2DH3S0D
			10	B229+LF24-3 US	8.3	VF-2213-536-9-42	11.7	VG1241DN - 936AGA	8.3	VBN2DJ3P0D	VBN2DJ3S0D
	16	171F-10215	19	B230+LF24-3 US	14.9	VF-2213-536-9-43	18.7	VG1241DP - 936AGA	14.9	VBN2DK3P0D	VBN2DK3S0D
							29.2	VG1241DR - 936AGA	25	VBN2DL3P0D	VBN2DL3S0D
					36.5	VF-2213-536-9-44			37	VBN2DM3P0D	VBN2DM3S0D
40	171F-10216			41.1	VF-2213-536-9-45			41	VBN2DN3P0D	VBN2DN3S0D	
100	171F-10217			102.3	VF-2213-536-9-46			102	VBN2DS3P0D	VBN2DS3S0D	
1-1/2 in.	25	171F-10218			22.8	VF-2213-536-9-51	18.7	VG1241EP - 936AGA	23	VBN2EL3P0D	VBN2EL3S0D
							29.2	VG1241ER - 936AGA	30	VBN2EM3P0D	VBN2EM3S0D
	40	171F-10220			41.3	VF-2213-536-9-52	46.8	VG1241ES - 936AGA	41	VBN2EN3P0D	VBN2EN3S0D
	63	171F-10219			73.9	VF-2213-536-9-53			74	VBN2ER3P0D	VBN2ER3S0D
160	171F-10221			171.7	VF-2213-536-9-54			172	VBN2E13P0D	VBN2E13S0D	
2 in.							29.2	VG1241FR - 926AGA			
	40	171F-10222			41.7	VF-2213-536-9-61	46.8	VG1241FS - 926AGA	42	VBN2FN3P0D	VBN2FN3S0D
	63	171F-10224							57	VBN2FP3P0D	VBN2FP3S0D
					71.1	VF-2213-536-9-63	73.7	VG1241FT - 926AGA	71	VBN2FR3P0D	VBN2FR3S0D
	100	171F-10223							100	VBN2FS3P0D	VBN2FS3S0D
					108	VF-2213-536-9-65			108	VBN2FT3P0D	VBN2FT3S0D
2-1/2 in.					210	VF-2213-536-9-66			210	VBN2F13P0D	VBN2F13S0D
	250	171F-10225			266	VF-2213-536-9-67			266	VBN2F23P0D	VBN2F23S0D
					45	VF-2213-536-9-71			45	VBN2GN3P0D	VBN2GN3S0D
					55	VF-2213-536-9-72			55	VBN2GP3P0D	VBN2GP3S0D
					72.3	VF-2213-536-9-73			72	VBN2GR3P0D	VBN2GR3S0D
					101	VF-2213-536-9-74			101	VBN2GS3P0D	VBN2GS3S0D
					162	VF-2213-536-9-75			162	VBN2GU3P0D	VBN2GU3S0D
3 in.					202	VF-2213-536-9-76			202	VBN2G13P0D	VBN2G13S0D
					49	VF-2213-536-9-81			49	VBN2HN3P0D	VBN2HN3S0D
					63	VF-2213-536-9-82			63	VBN2HP3P0D	VBN2HP3S0D
					82	VF-2213-536-9-83			82	VBN2HR3P0D	VBN2HR3S0D
					124	VF-2213-536-9-84			124	VBN2HT3P0D	VBN2HT3S0D
4 in.					145	VF-2213-536-9-85			145	VBN2HU3P0D	VBN2HU3S0D
									91	VBF2JS1S0D	
									118	VBF2JT1S0D	
									152	VBF2JU1S0D	
5 in.									197	VBF2J11S0D	
									254	VBF2J21S0D	
									144	VBF2KU1S0D	
									185	VBF2K11S0D	
6 in.									240	VBF2K21S0D	
									309	VBF2K31S0D	
									208	VBF2L11S0D	
								268	VBF2L21S0D		

Control Ball Valve & Spring Return, Modulating Actuator

2-way

Pipe Size	Cv	Siemens	Cv	Belimo	Cv	Invensys	Cv	Johnson Controls	Cv	Honeywell	
										Ni-Brass	Stainless Steel
1/2 in.	0.4	171G-10203	0.3	B207+TF24-SR US	0.38	VS-2213-536-9-01			0.38	VBN2AB3P0D	VBN2AB3S0D
	0.63	171G-10204	0.8	B209+TF24-SR US	0.68	VS-2213-536-9-02			0.68	VBN2AD3P0D	VBN2AD3S0D
	1.6	171G-10205	1.2	B210+TF24-SR US	1.3	VS-2213-536-9-03	1.2	VG1241AD - 22TGGA	1.3	VBN2AE3P0D	VBN2AE3S0D
			1.9	B211+TF24-SR US			1.9	VG1241AE - 22TBGA	2	VBN2AF3P0D	VBN2AF3S0D
	2.5	171G-10206	3	B212+TF24-SR US	2.6	VS-2213-536-9-04	2.9	VG1241AF - 22TBGA	2.6	VBN2AG3P0D	VBN2AG3S0D
	4	171G-10207	4.7	B213+TF24-SR US	4.7	VS-2213-536-9-05	4.7	VG1241AG - 22TBGA	4.7	VBN2AH3P0D	VBN2AH3S0D
			7.4	B214+TF24-SR US	8	VS-2213-536-9-06	7.4	VG1241AL - 22TBGA	8	VBN2AJ3P0D	VBN2AJ3S0D
10	171G-10208	10	B215+TF24-SR US	11.7	VS-2213-536-9-07	11.7	VG1241AN - 22TBGA	11.7	VBN2AK3P0D	VBN2AK3S0D	
3/4 in.					0.31	VS-2213-536-9-11			0.31	VBN2BB3P0D	VBN2BB3S0D
					0.63	VS-2213-536-9-12			0.63	VBN2BD3P0D	VBN2BD3S0D
					1.2	VS-2213-536-9-13			1.2	VBN2BE3P0D	VBN2BE3S0D
			4.7	B217+TF24-SR US	2.5	VS-2213-536-9-14	4.7	VG1241BG - 22TBGA	4.3	VBN2BH3P0D	VBN2BH3S0D
			7.4	B218+TF24-SR US	4.3	VS-2213-536-9-15	7.4	VG1241BL - 22TBGA	7.4	VBN2BH3P0D	VBN2BH3S0D
	10	171G-10209	10	B219+TF24-SR US	10.1	VS-2213-536-9-16	11.7	VG1241BN - 22TBGA	10.1	VBN2BK3P0D	VBN2BK3S0D
					14.7	VS-2213-536-9-17			14.7	VBN2BL3P0D	VBN2BL3S0D
25	171G-10210	24	B220+TF24-SR US	28.6	VS-2213-536-9-18			29	VBN2BM3P0D	VBN2BM3S0D	
1 in.			7.4	B222+LF24-SR US	4.4	VS-2213-536-9-21	7.4	VG1241CL - 936GGA	4.4	VBN2CH3P0D	VBN2CH3S0D
	10	171G-10211	10	B223+LF24-SR US	9	VS-2213-536-9-22	11.7	VG1241CN - 22TBGA	9	VBN2CJ3P0D	VBN2CJ3S0D
	16	171G-10213	19	B224+LF24-SR US	15.3	VS-2213-536-9-23	18.7	VG1241CP - 22TBGA	15.3	VBN2CL3P0D	VBN2CL3S0D
	25	171G-10212	30	B225+LF24-SR US	26.1	VS-2213-536-9-24			26	VBN2CM3P0D	VBN2CM3S0D
					43.9	VS-2213-536-9-26			44	VBN2CN3P0D	VBN2CN3S0D
1-1/4 in.					4.4	VS-2213-536-9-41			4.4	VBN2DH3P0D	VBN2DH3S0D
			10	B229+LF24-SR US	8.3	VS-2213-536-9-42	11.7	VG1241DN - 906GGA	8.3	VBN2DJ3P0D	VBN2DJ3S0D
	16	171G-10215	19	B230+LF24-SR US	14.9	VS-2213-536-9-43	18.7	VG1241DP - 906GGA	14.9	VBN2DK3P0D	VBN2DK3S0D
			25	B231+AF24-SR US			29.2	VG1241DR - 906GGA	25	VBN2DL3P0D	VBN2DL3S0D
			37	B232+AF24-SR US	36.5	VS-2213-536-9-44			37	VBN2DM3P0D	VBN2DM3S0D
	40	171G-10216			41.1	VS-2213-536-9-45			41	VBN2DN3P0D	VBN2DN3S0D
100	171G-10217			102.3	VS-2213-536-9-46			102	VBN2DS3P0D	VBN2DS3S0D	
1-1/2 in.	25	171G-10218	19	B238+AF24-SR US	22.8	VS-2213-536-9-51	18.7	VG1241EP - 906GGA	23	VBN2EL3P0D	VBN2EL3S0D
			29	B239+AF24-SR US			29.2	VG1241ER - 906GGA	30	VBN2EM3P0D	VBN2EM3S0D
	40	171G-10220	37	B240+AF24-SR US	41.3	VS-2213-536-9-52	46.8	VG1241ES - 906GGA	41	VBN2EN3P0D	VBN2EN3S0D
	63	171G-10219			73.9	VS-2213-536-9-53			74	VBN2ER3P0D	VBN2ER3S0D
160	171G-10221			171.7	VS-2213-536-9-54			172	VBN2E13P0D	VBN2E13S0D	
2 in.			29	B248+AF24-SR US			29.2	VG1241FR - 926GGA			
	40	171G-10222	46	B249+AF24-SR US	41.7	VS-2213-536-9-61	46.8	VG1241FS - 926GGA	42	VBN2FN3P0D	VBN2FN3S0D
	63	171G-10224	57	B250+AF24-SR US					57	VBN2FP3P0D	VBN2FP3S0D
			65	B251+AF24-MFT US	71.1	VS-2213-536-9-63	73.7	VG1241FT - 926GGA	71	VBN2FR3P0D	VBN2FR3S0D
	100	171G-10223	85	B252+AF24-MFT US					100	VBN2FS3P0D	VBN2FS3S0D
			120	B253+AF24-MFT US	108	VS-2213-536-9-65			108	VBN2FT3P0D	VBN2FT3S0D
					210	VS-2213-536-9-66			210	VBN2F13P0D	VBN2F13S0D
250	171G-10225	240	B254+AF24-MFT US	266	VS-2213-536-9-67			266	VBN2F23P0D	VBN2F23S0D	
2-1/2 in.					45	VS-2213-536-9-71			45	VBN2GN3P0D	VBN2GN3S0D
			60	B261+AF24-MFT US	55	VS-2213-536-9-72			55	VBN2GP3P0D	VBN2GP3S0D
			75	B262+AF24-MFT US	72.3	VS-2213-536-9-73			72	VBN2GR3P0D	VBN2GR3S0D
			110	B263+AF24-MFT US	101	VS-2213-536-9-74			101	VBN2GS3P0D	VBN2GS3S0D
			150	B264+AF24-MFT US	162	VS-2213-536-9-75			162	VBN2GU3P0D	VBN2GU3S0D
			210	B265+AF24-MFT US	202	VS-2213-536-9-76			202	VBN2G13P0D	VBN2G13S0D
3 in.					49	VS-2213-536-9-81			49	VBN2HN3P0D	VBN2HN3S0D
			70	B277+AF24-MFT US	63	VS-2213-536-9-82			63	VBN2HP3P0D	VBN2HP3S0D
					82	VS-2213-536-9-83			82	VBN2HR3P0D	VBN2HR3S0D
			130	B278+AF24-MFT US	124	VS-2213-536-9-84			124	VBN2HT3P0D	VBN2HT3S0D
			170	B280+AF24-MFT US	145	VS-2213-536-9-85			145	VBN2HU3P0D	VBN2HU3S0D
4 in.									91		VBF2JS1S0D
									118		VBF2JT1S0D
									152		VBF2JU1S0D
									197		VBF2J11S0D
5 in.									254		VBF2J21S0D
									144		VBF2KU1S0D
									185		VBF2K11S0D
									240		VBF2K21S0D
6 in.									309		VBF2K31S0D
									208		VBF2L11S0D
									268		VBF2L21S0D

Control Ball Valves

3-way

Pipe Size	Cv	Siemens	Cv	Belimo	Cv	Invensys	Cv	Johnson Controls	Cv	Honeywell	
										Ni-Brass	Stainless Steel
1/2 in.	0.40	171A-10250			0.33	VB-2313-500-9-01			0.33	VBN3AB3POX	
	0.63	171A-10251			0.59	VB-2313-500-9-02			0.59	VBN3AC3POX	
	1	171A-10252			1		1.2	VG1841AD	1	VBN3AE3POX	
	2.5	171A-10253			2.4	VB-2313-500-9-04	1.9	VG1841AE	2.4	VBN3AF3POX	
	4	171A-10254			4.3	VB-2313-500-9-05	4.7	VG1841AG	4.3	VBN3AH3POX	
	10	171A-10255			8	VB-2313-500-9-06	7.4	VG1841AL	8	VBN3AJ3POX	
3/4 in.					0.40	VB-2313-500-9-11			0.40	VBN3BC3POX	
					0.66	VB-2313-500-9-12			0.66	VBN3BD3POX	
					1.3	VB-2313-500-9-13			1.3	VBN3BE3POX	
					2.4	VB-2313-500-9-14			2.4	VBN3BF3POX	
					3.8	VB-2313-500-9-15	4.7	VG1841BG	3.8	VBN3BG3POX	
	16	171A-10256			12.6	VB-2313-500-9-16	11.7	VG1841BN	11	VBN3BK3POX	
1 in.					0.40	VB-2313-500-9-21			0.40	VBN3CC3POX	
					0.65	VB-2313-500-9-22			0.65	VBN3CD3POX	
					1.3	VB-2313-500-9-23			1.3	VBN3CE3POX	
					2.3	VB-2313-500-9-24			2.3	VBN3CF3POX	
					3.5	VB-2313-500-9-25			3.5	VBN3CG3POX	
					4.5	VB-2313-500-9-26			4.5	VBN3CH3POX	
	10	171A-10257			8.6	VB-2313-500-9-27	7.4	VG1841CL	8.6	VBN3CJ3POX	
	16	171A-10258			14.9	VB-2313-500-9-29	11.7	VG1841CN	14.9	VBN3CK3POX	
	25	171A-10259			22.3	VB-2313-500-9-30	18.7	VG1841CP	22	VBN3CL3POX	
1-1/4 in.					30.8	VB-2313-500-9-31			31	VBN3CM3POX	
					4.1	VB-2313-500-9-41			4.1	VBN3DH3POX	
					8.7	VB-2313-500-9-43			8.7	VBN3DJ3POX	
	16	171A-10260			12.7	VB-2313-500-9-44	11.7	VG1841DN	12.7	VBN3DK3POX	
	40	171A-10261			19.4	VB-2313-500-9-45	18.7	VG1841DP	19.4	VBN3DL3POX	
1-1/2 in.								29.2	VG1841DR	27	VBN3DM3POX
					34.1	VB-2313-500-9-46			34	VBN3DN3POX	
					4	VB-2313-500-9-51			4	VBN3EH3POX	
	16	171B-10262			8.3	VB-2313-500-9-52			8.3	VBN3EJ3POX	
	25	171B-10263			13.4	VB-2313-500-9-53			13.4	VBN3EK3POX	
2 in.					23.5	VB-2313-500-9-54	18.7	VG1841EP	24	VBN3EL3POX	
	63	171B-10264			32	VB-2313-500-9-55	29.2	VG1841ER	32	VBN3EM3POX	
					61.1	VB-2313-500-9-56	46.8	VG1841ES	61	VBN3EP3POX	
	25	171B-10265			23.9	VB-2313-500-9-61			24	VBN3FL3POX	
	40	171B-10266			38.2	VB-2313-500-9-62	29.2	VG1841FR	38	VBN3FN3POX	
2-1/2 in.					56.7	VB-2313-500-9-63	46.8	VG1841FS	57	VBN3FP3POX	
							73.7	VG1841FT	83	VBN3FR3POX	
	100	171B-10267			109	VB-2313-500-9-64			109	VBN3FT3POX	
4 in.									38	VBN3GN3POX	
									74	VBN3GR3POX	
									100	VBN3GS3POX	
									91		VBF3JS1S0X
									118		VBF3JT1S0X
									152		VBF3JU1S0X
5 in.									197		VBF3J11S0X
									254		VBF3J21S0X
									327		VBF3J31S0X
									144		VBF3KU1S0X
									185		VBF3K11S0X
6 in.									240		VBF3K21S0X
									309		VBF3K31S0X
									400		VBF3K41S0X
									208		VBF3L11S0X
									268		VBF3L21S0X
								346		VBF3L41S0X	
								441		VBF3L51S0X	
								577		VBF3L61S0X	
								650		VBF3L71S0X	

Control Ball Valve & Non-Spring Return, Floating Actuator

3-way

Pipe Size	Cv	Siemens	Cv	Belimo	Cv	Invensys	Cv	Johnson Controls	Cv	Honeywell		
										Ni-Brass	Stainless Steel	
1/2 in.	0.40	599-10250	0.3	B307B+LRB24-3	0.33	VF-2313-505-9-01			0.33	VBN3AB3P0A		
	0.63	599-10251	0.46	B308B+LRB24-3								
	1	599-10252	0.8	B309B+LRB24-3	0.59	VF-2313-505-9-02			0.59	VBN3AC3P0A		
	2.5	599-10253	1.2	B310B+LRB24-3	1	VF-2313-505-9-03	1.2	VG1841AD - 9T4AGA	1	VBN3AE3P0A		
			1.9	B311B+LRB24-3	2.4	VF-2313-505-9-04	1.9	VG1841AE - 9T4AGA	2.4	VBN3AF3P0A		
			3	B312B+LRB24-3			4.7	VG1841AG - 9T4AGA				
3/4 in.	4	599-10254	4.7	B313B+LRB24-3	4.3	VF-2313-505-9-05	7.4	VG1841AL - 9T4AGA	4.3	VBN3AH3P0A		
	10	599-10255	10	B315B+LRB24-3	8	VF-2313-505-9-06	11.7	VG1841AN - 9T4AGA	8	VBN3AJ3P0A		
					0.40	VF-2313-505-9-11			0.40	VBN3BC3P0A		
					0.66	VF-2313-505-9-12			0.66	VBN3BD3P0A		
					1.3	VF-2313-505-9-13			1.3	VBN3BE3P0A		
					2.4	VF-2313-505-9-14			2.4	VBN3BF3P0A		
			4.7	B317B+LRB24-3	3.8	VF-2313-505-9-15	4.7	VG1841BG - 9T4AGA	3.8	VBN3BG3P0A		
	16	599-10256	7.4	B318B+LRB24-3			7.4	VG1841BL - 9T4AGA	7	VBN3BJ3P0A		
1 in.			24	B320B+LRB24-3	12.6	VF-2313-505-9-16			11.7	VG1841BN - 9T4AGA	11	VBN3BK3P0A
					0.40	VF-2313-505-9-21			0.40	VBN3CC3P0A		
					0.65	VF-2313-505-9-22			0.65	VBN3CD3P0A		
					1.3	VF-2313-505-9-23			1.3	VBN3CE3P0A		
					2.3	VF-2313-505-9-24			2.3	VBN3CF3P0A		
					3.5	VF-2313-505-9-25			3.5	VBN3CG3P0A		
					4.5	VF-2313-505-9-26			4.5	VBN3CH3P0A		
	10	599-10257	7.4	B322B+LRB24-3	8.6	VF-2313-505-9-27	7.4	VG1841CL - 9T4AGA	8.6	VBN3CJ3P0A		
	16	599-10258	10	B323B+LRB24-3	14.9	VF-2313-505-9-29	11.7	VG1841CN - 9T4AGA	14.9	VBN3CK3P0A		
	25	599-10259			22.3	VF-2313-505-9-30	18.7	VG1841CP - 9T4AGA	22	VBN3CL3P0A		
1-1/4 in.			30	B325B+LRB24-3	30.8	VF-2313-505-9-31			31	VBN3CM3P0A		
					4.1	VF-2313-505-9-41			4.1	VBN3DH3P0A		
			10	B329B+LRB24-3	8.7	VF-2313-505-9-43			8.7	VBN3DJ3P0A		
	16	599-10260	19	B330B+LRB24-3	19.4	VF-2313-505-9-44	11.7	VG1841DN - 906AGA	12.7	VBN3DK3P0A		
			25	B331B+ARB24-3			18.7	VG1841DP - 906AGA	19.4	VBN3DL3P0A		
1-1/2 in.	40	599-10261	37	B332B+ARB24-3	34.1	VF-2313-505-9-46	29.2	VG1841DR - 906AGA	27	VBN3DM3P0A		
					4	VF-2313-505-9-51			4	VBN3EH3P0A		
					8.3	VF-2313-505-9-52			8.3	VBN3EJ3P0A		
	16	599-10262	19	B338B+ARB24-3	13.4	VF-2313-505-9-53			13.4	VBN3EK3P0A		
	25	599-10263	29	B339B+ARB24-3	23.5	VF-2313-505-9-54	18.7	VG1841EP - 906AGA	24	VBN3EL3P0A		
			37	B340B+ARB24-3	32	VF-2313-505-9-55	29.2	VG1841ER - 906AGA	32	VBN3EM3P0A		
2 in.	63	599-10264			61.1	VF-2313-505-9-56	46.8	VG1841ES - 906AGA	61	VBN3EP3P0A		
	25	599-10265	29	B348B+ARB24-3	23.9	VF-2313-505-9-61			24	VBN3FL3P0A		
	40	599-10266	46	B349B+ARB24-3	38.2	VF-2313-505-9-62	29.2	VG1841FR - 909AGA	38	VBN3FN3P0A		
			57	B350B+ARB24-3	56.7	VF-2313-505-9-63	46.8	VG1841FS - 909AGA	57	VBN3FP3P0A		
2-1/2 in.							73.7	VG1841FT - 909AGA	83	VBN3FR3P0A		
	100	599-10267			109	VF-2313-505-9-64			109	VBN3FT3P0A		
									38	VBN3GN3P0A		
4 in.									74	VBN3GR3P0A		
									100	VBN3GS3P0A		
									91	VBF3JS1S0A		
									118	VBF3JT1S0A		
									152	VBF3JU1S0A		
5 in.									197	VBF3JL1S0A		
									254	VBF3J21S0A		
									327	VBF3J31S0A		
									144	VBF3KU1S0A		
6 in.									185	VBF3K11S0A		
									240	VBF3K21S0A		
									309	VBF3K31S0A		
									400	VBF3K41S0A		
6 in.									208	VBF3L11S0A		
									268	VBF3L21S0A		
									346	VBF3L41S0A		
									441	VBF3L51S0A		
									577	VBF3L61S0A		
								650	VBF3L71S0A			

Control Ball Valve & Non-Spring Return, Modulating Actuator

3-way

Pipe Size	Cv	Siemens	Cv	Belimo	Cv	Invensys	Cv	Johnson Controls	Cv	Honeywell	
										Ni-Brass	Stainless Steel
1/2 in.	0.40	599-10250	0.3	B307B+LRB24-SR	0.33	VS-2313-505-9-01			0.33	VBN3AB3P0B	
	0.63	599-10251	0.46	B308B+LRB24-SR							
	1	599-10252	0.8	B309B+LRB24-SR	0.59	VS-2313-505-9-02			0.59	VBN3AC3P0B	
	2.5	599-10253	1.2	B310B+LRB24-SR	1	VS-2313-505-9-03	1.2	VG1841AD - 9T4GGA	1	VBN3AE3P0B	
			1.9	B311B+LRB24-SR	2.4	VS-2313-505-9-04	1.9	VG1841AE - 9T4GGA	2.4	VBN3AF3P0B	
			3	B312B+LRB24-SR			4.7	VG1841AG - 9T4GGA			
3/4 in.	4	599-10254	4.7	B313B+LRB24-SR	4.3	VS-2313-505-9-05	7.4	VG1841AL - 9T4GGA	4.3	VBN3AH3P0B	
	10	599-10255	10	B315B+LRB24-SR	8	VS-2313-505-9-06	11.7	VG1841AN - 9T4GGA	8	VBN3AJ3P0B	
					0.40	VS-2313-505-9-11			0.40	VBN3BC3P0B	
					0.66	VS-2313-505-9-12			0.66	VBN3BD3P0B	
					1.3	VS-2313-505-9-13			1.3	VBN3BE3P0B	
					2.4	VS-2313-505-9-14			2.4	VBN3BF3P0B	
			4.7	B317B+LRB24-SR	3.8	VS-2313-505-9-15	4.7	VG1841BG - 9T4GGA	3.8	VBN3BG3P0B	
	16	599-10256	7.4	B318B+LRB24-SR			7.4	VG1841BL - 9T4GGA	7	VBN3BJ3P0B	
1 in.					12.6	VS-2313-505-9-16		11.7	VG1841BN - 9T4GGA	11	VBN3BK3P0B
			24	B320B+LRB24-SR							
					0.40	VS-2313-505-9-21			0.40	VBN3CC3P0B	
					0.65	VS-2313-505-9-22			0.65	VBN3CD3P0B	
					1.3	VS-2313-505-9-23			1.3	VBN3CE3P0B	
					2.3	VS-2313-505-9-24			2.3	VBN3CF3P0B	
					3.5	VS-2313-505-9-25			3.5	VBN3CG3P0B	
			7.4	B322B+LRB24-SR	4.5	VS-2313-505-9-26	7.4	VG1841CL - 9T4GGA	4.5	VBN3CH3P0B	
	10	599-10257	10	B323B+LRB24-SR	8.6	VS-2313-505-9-27	11.7	VG1841CN - 9T4GGA	8.6	VBN3CJ3P0B	
	16	599-10258			14.9	VS-2313-505-9-29	18.7	VG1841CP - 9T4GGA	14.9	VBN3CK3P0B	
1-1/4 in.	25	599-10259	30	B325B+LRB24-SR	22.3	VS-2313-505-9-30			22	VBN3CL3P0B	
					30.8	VS-2313-505-9-31			31	VBN3CM3P0B	
					4.1	VS-2313-505-9-41			4.1	VBN3DH3P0B	
					8.7	VS-2313-505-9-43	11.7	VG1841DN - 906GGA	8.7	VBN3DJ3P0B	
	16	599-10260	10	B329B+LRB24-SR	12.7	VS-2313-505-9-44	18.7	VG1841DP - 906GGA	12.7	VBN3DK3P0B	
			19	B330B+LRB24-SR	19.4	VS-2313-505-9-45	29.2	VG1841DR - 906GGA	19.4	VBN3DL3P0B	
1-1/2 in.									27	VBN3DM3P0B	
					37	VS-2313-505-9-46			34	VBN3DN3P0B	
					4	VS-2313-506-9-51			4	VBN3EH3P0B	
					8.3	VS-2313-506-9-52	18.7	VG1841EP - 906GGA	8.3	VBN3EJ3P0B	
					13.4	VS-2313-506-9-53	29.2	VG1841ER - 906GGA	13.4	VBN3EK3P0B	
	16	599-10262	19	B338B+ARB24-SR	23.5	VS-2313-506-9-54	46.8	VG1841ES - 906GGA	24	VBN3EL3P0B	
	25	599-10263	29	B339B+ARB24-SR	32	VS-2313-506-9-55			32	VBN3EM3P0B	
2 in.	63	599-10264	37	B340B+ARB24-SR			29.2	VG1841FR - 909GGA			
					61.1	VS-2313-506-9-56	46.8	VG1841FS - 909GGA	61	VBN3EP3P0B	
	25	599-10265	29	B348B+ARB24-SR	23.9	VS-2313-506-9-61	73.7	VG1841FT - 909GGA	24	VBN3FL3P0B	
	40	599-10266	46	B349B+ARB24-SR	38.2	VS-2313-506-9-62			38	VBN3FN3P0B	
			57	B350B+ARB24-SR	56.7	VS-2313-506-9-63			57	VBN3FP3P0B	
2-1/2 in.									83	VBN3FR3P0B	
									109	VBN3FT3P0B	
									38	VBN3GN3P0B	
4 in.									74	VBN3GR3P0B	
									100	VBN3GS3P0B	
									91		VBF3JS1S0B
									118		VBF3JT1S0B
									152		VBF3JU1S0B
									197		VBF3J11S0B
5 in.									254		VBF3J21S0B
									327		VBF3J31S0B
									144		VBF3KU1S0B
									185		VBF3K11S0B
									240		VBF3K21S0B
6 in.									309		VBF3K31S0B
									400		VBF3K41S0B
									208		VBF3L11S0B
									268		VBF3L21S0B
									346		VBF3L41S0B
								441		VBF3L51S0B	
								577		VBF3L61S0B	
								650		VBF3L71S0B	

Control Ball Valve & Spring Return, 2-Position Actuator

3-way

Pipe Size	Cv	Siemens	Cv	Belimo	Cv	Invensys	Cv	Johnson Controls	Cv	Honeywell	
										Ni-Brass	Stainless Steel
1/2 in.	0.40	599-10250	0.3	B307B+TFX24 US	0.33	VA-2313-536-9-01			0.33	VBN3AB3POC	
	0.63	599-10251	0.46	B308B+TFX24 US							
	1	599-10252	0.8	B309B+TFX24 US	0.59	VA-2313-536-9-02			0.59	VBN3AC3POC	
	2.5	599-10253	1.2	B310B+TFX24 US	1	VA-2313-536-9-03	1.2	VG1841AD - 22TBGA	1	VBN3AE3POC	
			1.9	B311B+TFX24 US	2.4	VA-2313-536-9-04	1.9	VG1841AE - 22TBGA	2.4	VBN3AF3POC	
			3	B312B+TFX24 US			4.7	VG1841AG - 22TBGA			
3/4 in.	4	599-10254	4.7	B313B+TFX24 US	4.3	VA-2313-536-9-05	7.4	VG1841AL - 22TBGA	4.3	VBN3AH3POC	
	10	599-10255	10	B315B+TFX24 US	8	VA-2313-536-9-06	11.7	VG1841AN - 22TBGA	8	VBN3AJ3POC	
					0.40	VA-2313-536-9-11			0.40	VBN3BC3POC	
					0.66	VA-2313-536-9-12			0.66	VBN3BD3POC	
					1.3	VA-2313-536-9-13			1.3	VBN3BE3POC	
					2.4	VA-2313-536-9-14			2.4	VBN3BF3POC	
			4.7	B317B+TFX24 US	3.8	VA-2313-536-9-15	4.7	VG1841BG - 22TBGA	3.8	VBN3BG3POC	
			7.4	B318B+TFX24 US			7.4	VG1841BL - 22TBGA	7	VBN3BJ3POC	
	16	599-10256					11.7	VG1841BN - 22TBGA	11	VBN3BK3POC	
					12.6	VA-2313-536-9-16					
1 in.			24	B320B+TFX24 US							
					0.40	VA-2313-536-9-21			0.40	VBN3CC3POC	
					0.65	VA-2313-536-9-22			0.65	VBN3CD3POC	
					1.3	VA-2313-536-9-23			1.3	VBN3CE3POC	
					2.3	VA-2313-536-9-24			2.3	VBN3CF3POC	
					3.5	VA-2313-536-9-25			3.5	VBN3CG3POC	
					4.5	VA-2313-536-9-26	7.4	VG1841CL - 936BGA	4.5	VBN3CH3POC	
	10	599-10257	7.4	B322B+LF24 US	8.6	VA-2313-536-9-27	11.7	VG1841CN - 936BGA	8.6	VBN3CJ3POC	
	16	599-10258	10	B323B+LF24 US	14.9	VA-2313-536-9-29	18.7	VG1841CP - 936BGA	14.9	VBN3CK3POC	
25	599-10259			22.3	VA-2313-536-9-30			22	VBN3CL3POC		
1-1/4 in.			30	B325B+LF24 US	30.8	VA-2313-536-9-31			31	VBN3CM3POC	
					4.1	VA-2313-536-9-41	11.7	VG1841DN - 936BGA	4.1	VBN3DH3POC	
			10	B329B+LF24 US	8.7	VA-2313-536-9-43	18.7	VG1841DP - 936BGA	8.7	VBN3DJ3POC	
	16	599-10260			12.7	VA-2313-536-9-44	29.2	VG1841DR - 936BGA	12.7	VBN3DK3POC	
			19	B330B+LF24 US	19.4	VA-2313-536-9-45			19.4	VBN3DL3POC	
			25	B331B+AF24 US					27	VBN3DM3POC	
1-1/2 in.	40	599-10261	37	B332B+AF24 US	34.1	VA-2313-536-9-46			34	VBN3DN3POC	
					4	VA-2313-536-9-51	18.7	VG1841EP - 936BGA	4	VBN3EH3POC	
					8.3	VA-2313-536-9-52	29.2	VG1841ER - 936BGA	8.3	VBN3EJ3POC	
	16	599-10262			13.4	VA-2313-536-9-53	46.8	VG1841ES - 936BGA	13.4	VBN3EK3POC	
			19	B338B+AF24 US	23.5	VA-2313-536-9-54			24	VBN3EL3POC	
	25	599-10263	29	B339B+AF24 US	32	VA-2313-536-9-55	29.2	VG1841FR - 926BGA	32	VBN3EM3POC	
2 in.	63	599-10264	37	B340B+AF24 US			46.8	VG1841FS - 926BGA	46.8	VBN3EP3POC	
					61.1	VA-2313-536-9-56	73.7	VG1841FT - 926BGA	61	VBN3FL3POC	
	25	599-10265	29	B348B+AF24 US	23.9	VA-2313-536-9-61			24	VBN3FN3POC	
	40	599-10266	46	B349B+AF24 US	38.2	VA-2313-536-9-62			38	VBN3FP3POC	
			57	B350B+AF24 US	56.7	VA-2313-536-9-63			57	VBN3FR3POC	
2-1/2 in.									83	VBN3FT3POC	
									109	VBN3GN3POC	
	100	599-10267			109	VA-2313-536-9-64			109	VBN3GR3POC	
4 in.									38	VBN3GS3POC	
									74	VBN3JT1S0C	
									100	VBN3JU1S0C	
									91	VBN3J11S0C	VBF3JS1S0C
									118	VBN3J21S0C	VBF3JT1S0C
									152	VBN3J31S0C	VBF3JU1S0C
5 in.									197	VBN3K11S0C	VBF3J11S0C
									254	VBN3K21S0C	VBF3J21S0C
									327	VBN3K31S0C	VBF3J31S0C
									144	VBN3K41S0C	VBF3K11S0C
									185	VBN3L11S0C	VBF3K21S0C
6 in.									240	VBN3L21S0C	VBF3K31S0C
									309	VBN3L31S0C	VBF3K41S0C
									400	VBN3L41S0C	VBF3L11S0C
									208	VBN3L51S0C	VBF3L21S0C
									268	VBN3L61S0C	VBF3L31S0C
								346	VBN3L71S0C	VBF3L41S0C	
								441	VBN3L81S0C	VBF3L51S0C	
								577	VBN3L91S0C	VBF3L61S0C	
								650	VBN3L01S0C	VBF3L71S0C	

Control Ball Valve & Spring Return, Floating Actuator

3-way

Pipe Size	Cv	Siemens	Cv	Belimo	Cv	Invensys	Cv	Johnson Controls	Cv	Honeywell	
										Ni-Brass	Stainless Steel
1/2 in.	0.40	599-10250	0.3	B307B+TF24-3 US	0.33	VF-2313-536-9-01			0.33	VBN3AB3P0D	
	0.63	599-10251	0.46	B308B+TF24-3 US		VF-2313-536-9-01					
	1	599-10252	0.8	B309B+TF24-3 US	0.59	VF-2313-536-9-02			0.59	VBN3AC3P0D	
	2.5	599-10253	1.2	B310B+TF24-3 US	1	VF-2313-536-9-03	1.2	VG1841AD - 22TAGA	1	VBN3AE3P0D	
			1.9	B311B+TF24-3 US	2.4	VF-2313-536-9-04	1.9	VG1841AE - 22TAGA	2.4	VBN3AF3P0D	
			3	B312B+TF24-3 US			4.7	VG1841AG - 22TAGA			
3/4 in.	4	599-10254	4.7	B313B+TF24-3 US	4.3	VF-2313-536-9-05	7.4	VG1841AL - 22TAGA	4.3	VBN3AH3P0D	
	10	599-10255	10	B315B+TF24-3 US	8	VF-2313-536-9-06	11.7	VG1841AN - 22TAGA	8	VBN3AJ3P0D	
					0.40	VF-2313-536-9-11			0.40	VBN3BC3P0D	
					0.66	VF-2313-536-9-12			0.66	VBN3BD3P0D	
					1.3	VF-2313-536-9-13			1.3	VBN3BE3P0D	
					2.4	VF-2313-536-9-14			2.4	VBN3BF3P0D	
			4.7	B317B+TF24-3 US	3.8	VF-2313-536-9-15	4.7	VG1841BG - 22TAGA	3.8	VBN3BG3P0D	
			7.4	B318B+TF24-3 US			7.4	VG1841BL - 22TAGA	7	VBN3BJ3P0D	
							11.7	VG1841BN - 22TAGA	11	VBN3BK3P0D	
		16	599-10256			12.6	VF-2313-536-9-16				
1 in.			24	B320B+TF24-3 US							
					0.40	VF-2313-536-9-21			0.40	VBN3CC3P0D	
					0.65	VF-2313-536-9-22			0.65	VBN3CD3P0D	
					1.3	VF-2313-536-9-23			1.3	VBN3CE3P0D	
					2.3	VF-2313-536-9-24			2.3	VBN3CF3P0D	
					3.5	VF-2313-536-9-25			3.5	VBN3CG3P0D	
			7.4	B322B+LF24-3 US	4.5	VF-2313-536-9-26	7.4	VG1841CL - 936AGA	4.5	VBN3CH3P0D	
	10	599-10257	10	B323B+LF24-3 US	8.6	VF-2313-536-9-27	11.7	VG1841CN - 936AGA	8.6	VBN3CJ3P0D	
	16	599-10258			14.9	VF-2313-536-9-29	18.7	VG1841CP - 936AGA	14.9	VBN3CK3P0D	
25	599-10259			22.3	VF-2313-536-9-30			22	VBN3CL3P0D		
1-1/4 in.			30	B325B+LF24-3 US	30.8	VF-2313-536-9-31			31	VBN3CM3P0D	
					4.1	VF-2313-536-9-41	11.7	VG1841DN - 936AGA	4.1	VBN3DH3P0D	
			10	B329B+LF24-3 US	8.7	VF-2313-536-9-43	18.7	VG1841DP - 936AGA	8.7	VBN3DJ3P0D	
	16	599-10260			12.7	VF-2313-536-9-44	29.2	VG1841DR - 936AGA	12.7	VBN3DK3P0D	
			19	B330B+LF24-3 US	19.4	VF-2313-536-9-45			19.4	VBN3DL3P0D	
									27	VBN3DM3P0D	
1-1/2 in.	40	599-10261			34.1	VF-2313-536-9-46			34	VBN3DN3P0D	
					4	VF-2313-536-9-51	18.7	VG1841EP - 936AGA	4	VBN3EH3P0D	
					8.3	VF-2313-536-9-52	29.2	VG1841ER - 936AGA	8.3	VBN3EJ3P0D	
					13.4	VF-2313-536-9-53	46.8	VG1841ES - 936AGA	13.4	VBN3EK3P0D	
	16	599-10262			23.5	VF-2313-536-9-54			24	VBN3EL3P0D	
	25	599-10263			32	VF-2313-536-9-55	29.2	VG1841FR - 926AGA	32	VBN3EM3P0D	
2 in.	63	599-10264					46.8	VG1841FS - 926AGA			
					61.1	VF-2313-536-9-56	73.7	VG1841FT - 926AGA	61	VBN3EP3P0D	
	25	599-10265			23.9	VF-2313-536-9-61			24	VBN3FL3P0D	
	40	599-10266			38.2	VF-2313-536-9-62			38	VBN3FN3P0D	
2-1/2 in.					56.7	VF-2313-536-9-63			57	VBN3FP3P0D	
									83	VBN3FR3P0D	
	100	599-10267			109	VF-2313-536-9-64			109	VBN3FT3P0D	
4 in.									38	VBN3GN3P0D	
									74	VBN3GR3P0D	
									100	VBN3GS3P0D	
									91		VBF3JS1S0D
									118		VBF3JT1S0D
									152		VBF3JU1S0D
5 in.									197		VBF3J11S0D
									254		VBF3J21S0D
									327		VBF3J31S0D
									144		VBF3KU1S0D
6 in.									185		VBF3K11S0D
									240		VBF3K21S0D
									309		VBF3K31S0D
								208		VBF3L11S0D	
								268		VBF3L21S0D	

Control Ball Valve & Spring Return, Modulating Actuator

3-way

Pipe Size	Cv	Siemens	Cv	Belimo	Cv	Invensys	Cv	Johnson Controls	Cv	Honeywell	
										Ni-Brass	Stainless Steel
1/2 in.	0.40	599-10250	0.3	B307B+TF24-SR US	0.33	VS-2313-536-9-01			0.33	VBN3AB3P0D	
	0.63	599-10251	0.46	B308B+TF24-SR US							
	1	599-10252	0.8	B309B+TF24-SR US	0.59	VS-2313-536-9-02			0.59	VBN3AC3P0D	
	2.5	599-10253	1.2	B310B+TF24-SR US	1	VS-2313-536-9-03	1.2	VG1841AD - 22TGGA	1	VBN3AE3P0D	
			1.9	B311B+TF24-SR US	2.4	VS-2313-536-9-04	1.9	VG1841AE - 22TGGA	2.4	VBN3AF3P0D	
			3	B312B+TF24-SR US			4.7	VG1841AG - 22TGGA			
3/4 in.	4	599-10254	4.7	B313B+TF24-SR US	4.3	VS-2313-536-9-05	7.4	VG1841AL - 22TGGA	4.3	VBN3AH3P0D	
	10	599-10255	10	B315B+TF24-SR US	8	VS-2313-536-9-06	11.7	VG1841AN - 22TGGA	8	VBN3AJ3P0D	
					0.40	VS-2313-536-9-11			0.40	VBN3BC3P0D	
					0.66	VS-2313-536-9-12			0.66	VBN3BD3P0D	
					1.3	VS-2313-536-9-13			1.3	VBN3BE3P0D	
					2.4	VS-2313-536-9-14			2.4	VBN3BF3P0D	
			4.7	B317B+TF24-SR US	3.8	VS-2313-536-9-15	4.7	VG1841BG - 22TGGA	3.8	VBN3BG3P0D	
			7.4	B318B+TF24-SR US			7.4	VG1841BL - 22TGGA	7	VBN3BJ3P0D	
							11.7	VG1841BN - 22TGGA	11	VBN3BK3P0D	
		16	599-10256			12.6	VS-2313-536-9-16				
1 in.			24	B320B+TF24-SR US							
					0.40	VS-2313-536-9-21			0.40	VBN3CC3P0D	
					0.65	VS-2313-536-9-22			0.65	VBN3CD3P0D	
					1.3	VS-2313-536-9-23			1.3	VBN3CE3P0D	
					2.3	VS-2313-536-9-24			2.3	VBN3CF3P0D	
					3.5	VS-2313-536-9-25			3.5	VBN3CG3P0D	
			7.4	B322B+LF24-SR US	4.5	VS-2313-536-9-26	7.4	VG1841CL - 936GGA	4.5	VBN3CH3P0D	
	10	599-10257	10	B323B+LF24-SR US	8.6	VS-2313-536-9-27	11.7	VG1841CN - 936GGA	8.6	VBN3CJ3P0D	
	16	599-10258			14.9	VS-2313-536-9-29	18.7	VG1841CP - 936GGA	14.9	VBN3CK3P0D	
	25	599-10259			22.3	VS-2313-536-9-30			22	VBN3CL3P0D	
		30	B325B+LF24-SR US	30.8	VS-2313-536-9-31			31	VBN3CM3P0D		
1-1/4 in.					4.1	VS-2313-536-9-41					
					8.7	VS-2313-536-9-43	11.7	VG1841DN - 936GGA	4.1	VBN3DH3P0D	
			10	B329B+LF24-SR US	12.7	VS-2313-536-9-44	18.7	VG1841DP - 936GGA	8.7	VBN3DJ3P0D	
	16	599-10260			19.4	VS-2313-536-9-45	29.2	VG1841DR - 936GGA	12.7	VBN3DK3P0D	
			19	B330B+LF24-SR US					19.4	VBN3DL3P0D	
			25	B331B+AF24-SR US	34.1	VS-2313-536-9-46			27	VBN3DM3P0D	
1-1/2 in.	40	599-10261	37	B332B+AF24-SR US					34	VBN3DN3P0D	
					4	VS-2313-536-9-51					
					8.3	VS-2313-536-9-52	18.7	VG1841EP - 936GGA	4	VBN3EH3P0D	
					13.4	VS-2313-536-9-53	29.2	VG1841ER - 936GGA	8.3	VBN3EJ3P0D	
	16	599-10262	19	B338B+AF24-SR US	32	VS-2313-536-9-55	46.8	VG1841ES - 936GGA	13.4	VBN3EK3P0D	
	25	599-10263	29	B339B+AF24-SR US			29.2	VG1841FR - 926GGA	24	VBN3EL3P0D	
2 in.	63	599-10264	37	B340B+AF24-SR US	61.1	VS-2313-536-9-56	46.8	VG1841FS - 926GGA	61	VBN3EP3P0D	
							73.7	VG1841FT - 926GGA			
	25	599-10265	29	B348B+AF24-SR US	23.9	VS-2313-536-9-61			24	VBN3FL3P0D	
2-1/2 in.	40	599-10266	46	B349B+AF24-SR US	38.2	VS-2313-536-9-62			38	VBN3FN3P0D	
			57	B350B+AF24-SR US	56.7	VS-2313-536-9-63			57	VBN3FP3P0D	
									83	VBN3FR3P0D	
	100	599-10267			109	VS-2313-536-9-64			109	VBN3FT3P0D	
4 in.									38	VBN3GN3P0D	
									74	VBN3GR3P0D	
									100	VBN3GS3P0D	
5 in.									91		VBF3JS1S0D
									118		VBF3JT1S0D
									152		VBF3JU1S0D
									197		VBF3J11S0D
									254		VBF3J21S0D
6 in.									327		VBF3J31S0D
									144		VBF3KU1S0D
									185		VBF3K11S0D
								240		VBF3K21S0D	
								309		VBF3K31S0D	
								208		VBF3L11S0D	
								268		VBF3L21S0D	

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