

Model 570, 571, 573 Control Valves

Technical Sales Bulletin

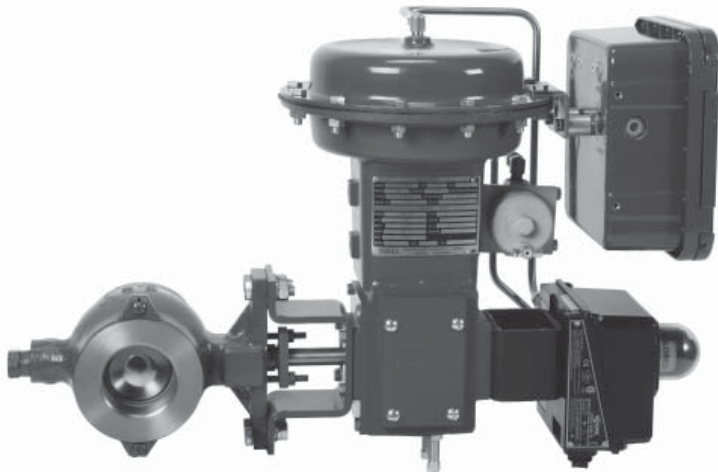


Figure 1 *Dyna-Flo Model 570 Control Valve with Model DFR Size 047 Actuator Assembly*

The Model 570 series segmented ball style control valve is used in all kinds of demanding applications, in oil and gas production and chemical process industries. It is also suited to high flow, low pressure drop services. The 570 series is used in both throttling and on/off control of liquids or gases.

The flangeless 570 valve mates with ASME class 150, 300, and 600 raised face flanges. Models 571 and 573 are RF flanged valves in ASME class 150 (571) and 300 (573). The straight through unrestricted flow path provides higher capacity than globe style valves. A splined shaft provides accurate control in throttling operations and flexibility in actuation options. The 570 series, when combined with a Model DFR spring and diaphragm actuator, is a rugged control valve assembly, to which a wide variety of positioners and accessories can be mounted.

The Model 570, 571 and 573 control valves are manufactured to a high level of quality specifications to ensure superior performance and customer satisfaction.

Features

Valve Sizes and Connections

The 2", 3", 4", 6", and 8" flangeless valves will mate ASME Class 150, 300, and 600 raised face flanges.

The 2", 3", 4", 6", 8", 10", and 12" RF flanged 571 and 573 will mate with ASME Class 150 (571) and 300 (573) raised face flanges.

Maximum Temperatures

800°F (427°C) Maximum with WCC body.

NACE Service

Trim and bolting materials are available for applications handling sour fluids and gases. These construction materials comply with the recommendations of (NACE) National Association of Corrosion Engineers MR0175.

Easy Maintenance

A unique ball to shaft connection makes for easy disassembly, and reduces packing replacement time as well. Replacing the ball seal is easily done by removing two screws.

Lightweight Installation

The 570 series is a rugged, yet light weight flangeless ball valve that is designed to easily fit in between ASME flanges.

Adjustable Shaft Packing

The shaft to body interface is sealed to atmosphere by externally adjustable PTFE or optional graphite packing rings. Live Loaded packing is available for reduced emissions.

Field Reversible

The action of all valve and actuator combinations is easily changed between fail closed and fail open without additional hardware.

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SPECIFICATIONS

Maximum Pressure / Temperature Ratings

Consistent with applicable pressure / temperature ratings per ASME B16.34. See Table 17 & 18.

Maximum Allowable Shutoff Pressure Drop

See Table 18.

750 psig (5,171 kPag) @ 100°F (38°C) (Standard Construction)

Material Temperature Capabilities

Standard: -50°F to 450°F (-46°C to 232°C) LCC

Optional: High Temp -20°F to 800°F (-29°C to 427°C) WCC

See Table 17 & 18.

Construction Materials

See Tables 1 for construction materials.

Contact your Dyna-Flo sales office for more information and other options.

Flow Direction

Forward (through seal into ball).

Actuator Mounting

Right-hand, or Left-hand (as viewed from seal end of valve).
In one of 4 positions (12 (Std.), 3, 6, and 9 o'clock) with respect to the valve body in a horizontal pipe.

Maximum Ball Rotation

90 degrees.

Shutoff Classification

- **Composition Ball Seal:** Class VI
- **Metal Ball Seal:** Class IV
- Classes and testing per ASME/FCI 70-2
- Tested at the service pressure drop, or 50 Psig (345 kPag), whichever is lower

ASME RATING	
VALVE	CLASS
570	150
	300
	600
571	150
573	300

Valve Dimensions

See Figure 8 & 9 for valve diagram.

See Tables 2 - 13 for valve dimensions.

See Tables 5, 6, 10, & 11 for bolting dimensions.

Actuator Sizing

See Table 14.

Valve and Actuator Assembly Weight

See Table 16.

Options

Line Flange Bolting - Tables 5, 6, 10, & 11.

Stainless Steel Construction.

Internal Coatings.

Shaft Connections:

- Splined (Standard)
- Square (Optional - 2" to 6" Valves)
- Keyed (Optional - 8" to 12" Valves)

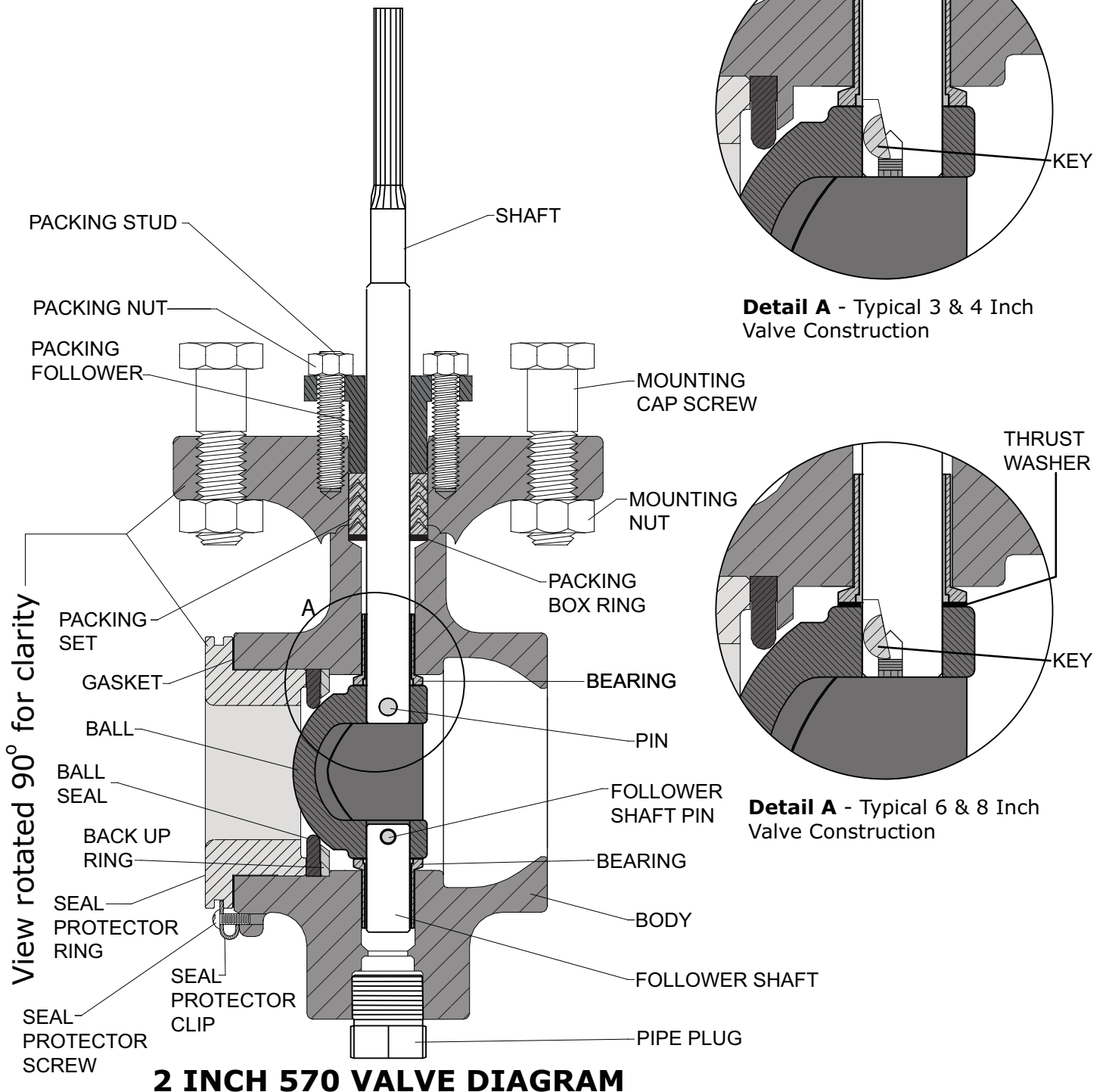
For more information and other options contact your Dyna-Flo sales office.

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Figure 3 570 Cross Section

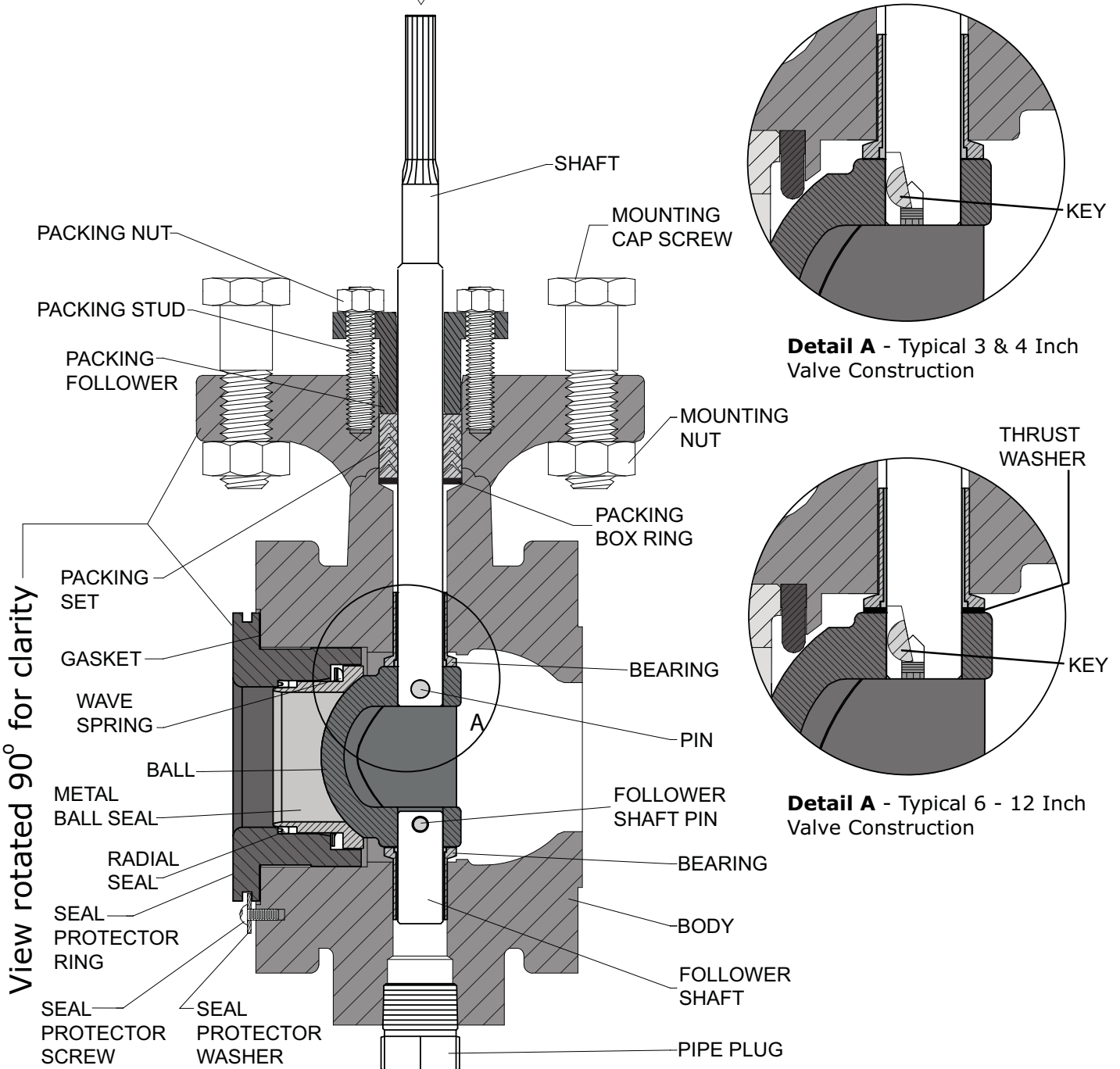




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Figure 3 571 & 573 Cross Section



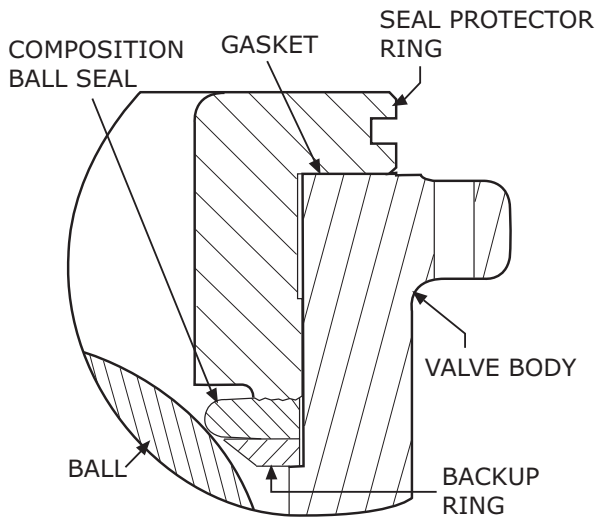
2 INCH 571 & 573 VALVE DIAGRAM

Model 570, 571, 573 Control Valves

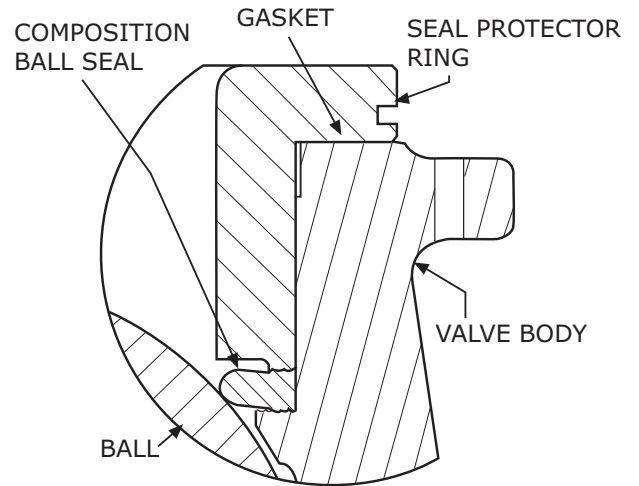
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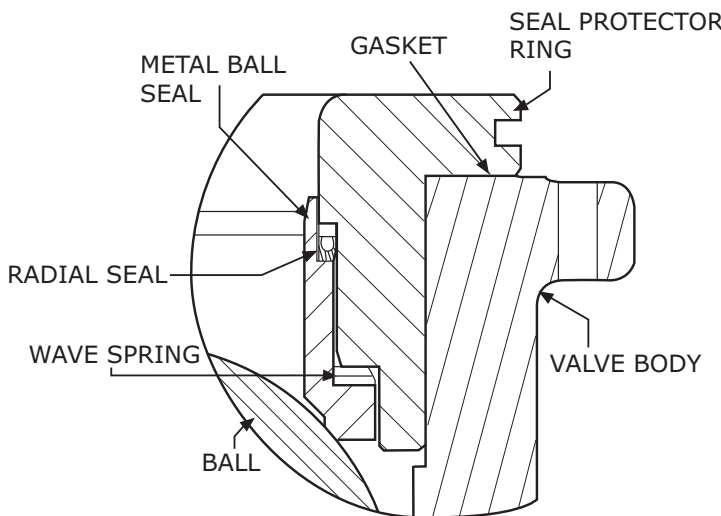
Figure 6 Ball Seal Assembly Diagrams for Valve Sizes 2 Through 12 Inch



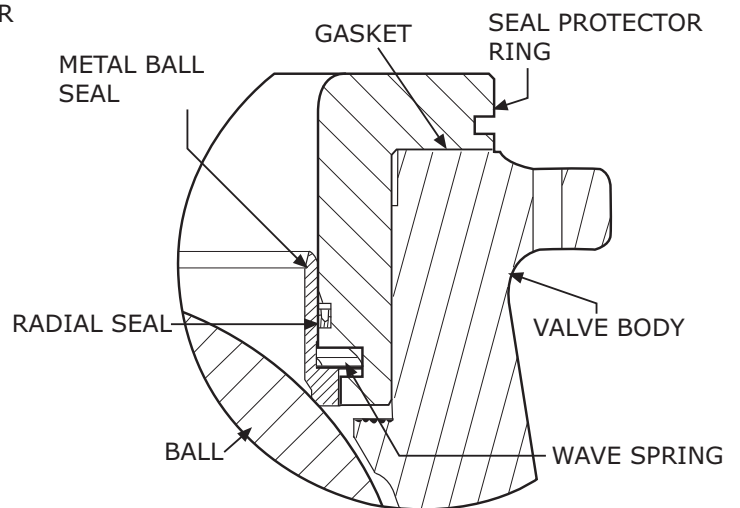
2 INCH COMPOSITION BALL SEAL & BACKUP RING



SIZE 3 THROUGH 12 INCH COMPOSITION BALL SEAL



2 INCH METAL BALL SEAL



SIZE 3 THROUGH 12 INCH METAL BALL SEAL



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Table 1

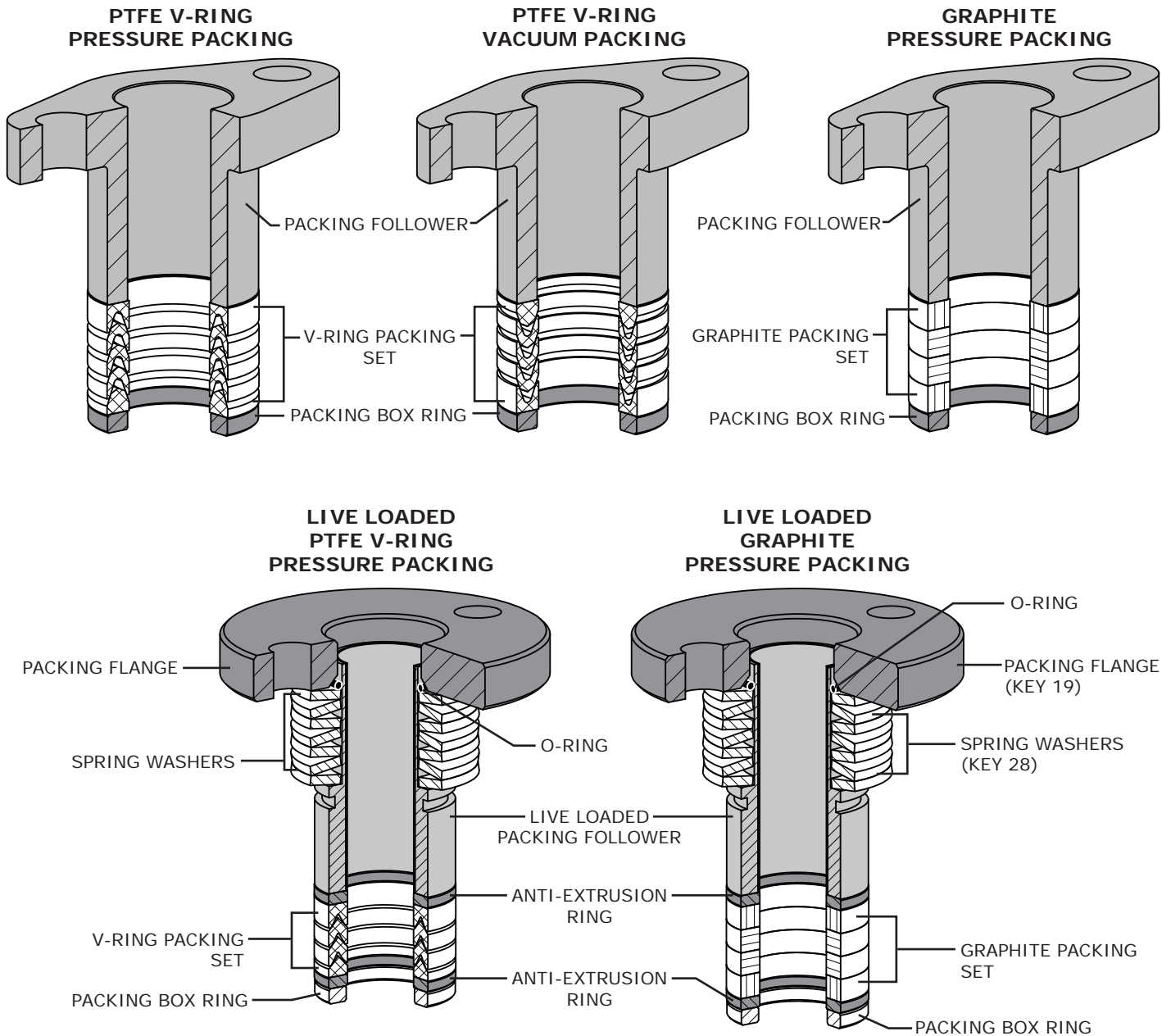
Model 570, 571, & 573 Construction Materials

Part Description	Material
Body	LCC, WCC, CG8M
Ball	CG8M Chrome Plated, CG8M/CoCr-A Leading Edge/Chrome Plated, CG8M/CoCr-A Leading Edge, CG8M
Seal Protector Ring	LCC, WCC, CG8M
Shaft	S20910
Pin for 2", Key for 3" - 12"	S20910
Pin	S30400
Follower Shaft	S20910
Bearing	S17400 / CPTFE Lined (2 required), S44004 HT (2 required), Alloy 6 (2 required)
Thrust Washer	CPTFE (For 6 - 12 Inch Valve Sizes Only)
Packing Box Ring	S31600**
Ball Seal	PTFE Composite, Alloy 6, S21800
Back Up Ring (2" Valve Only)	S31600**
Gasket	Graphoil Laminate
Packing Set	PTFE, Graphite
Seal Protector Screw	S30400 (2 required)
Seal Protector Clip	Stainless Steel (2 required)
Seal Protector Washer	Stainless Steel (2 required)
Packing Follower	CF8M
Live Loaded Packing Follower	PTFE / CF8M
Packing Flange	CF8M
Packing Stud	B7, B8M (with CF8M Body) (2 required)
Packing Nut	2H, 8M (with CF8M Body) (2 required)
Actuator Mounting Bolt	Plated Steel (2 required)
Actuator Mounting Nut	Plated Steel (2 required)
Pipe Plug	A105 Steel, S31600**
Metal Ball Seal	S21800, Alloy 6
Wave Spring	N07750
Radial Seal	CPTFE / R30003
Spring Washers	N07718

** All S31600 barstock is dual grade S31600/S31603 (316/316L).

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▲
Figure 7 Valve Packing Configurations

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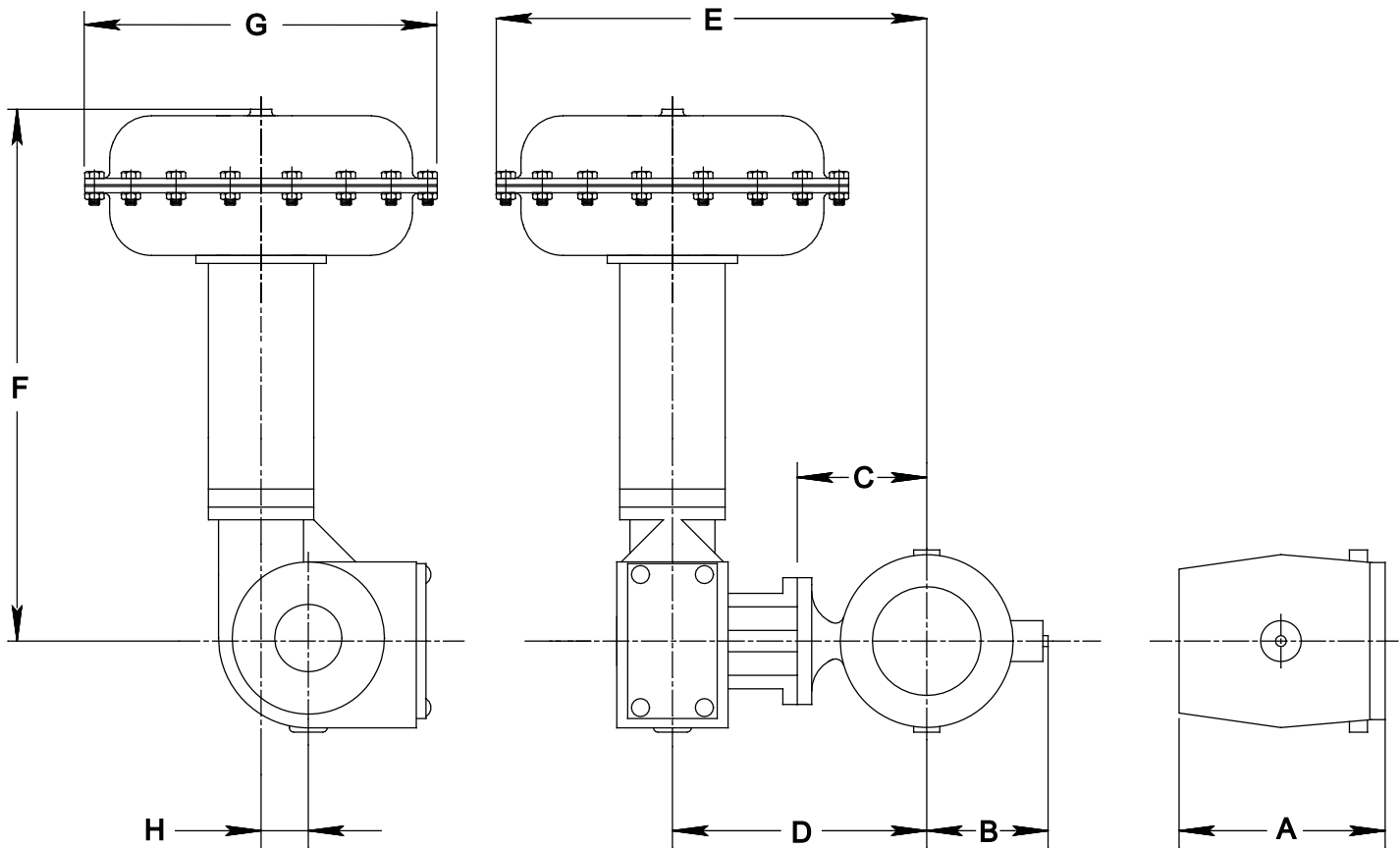
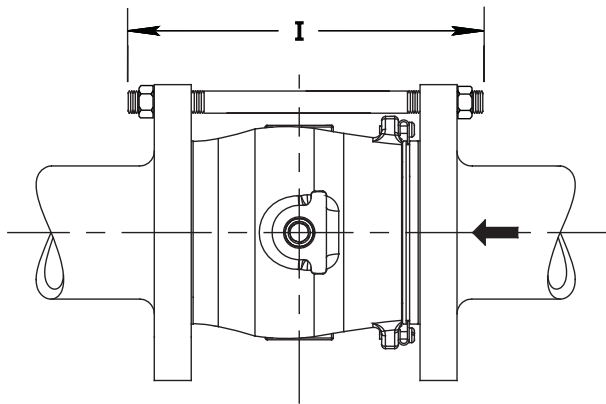


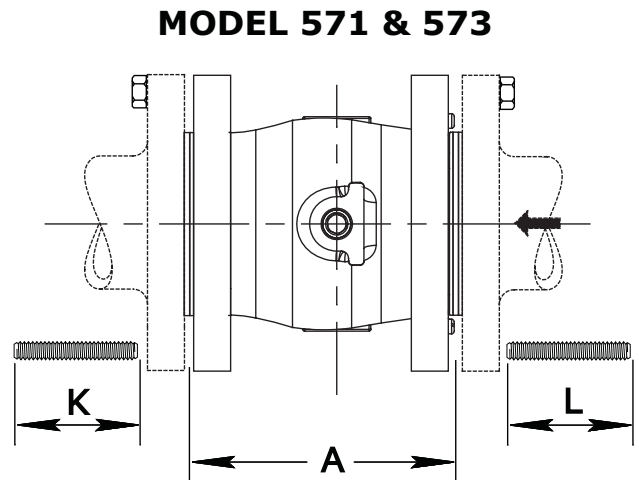
Figure 8 Typical Valve Assembly Diagram and Dimensions

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MODEL 570



MODEL 571 & 573

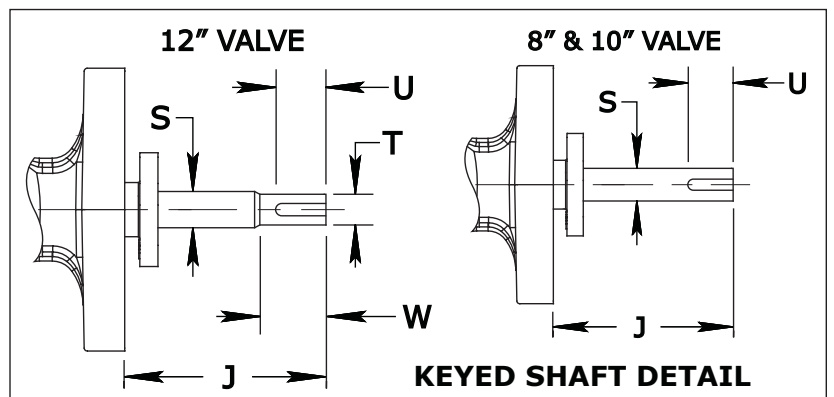
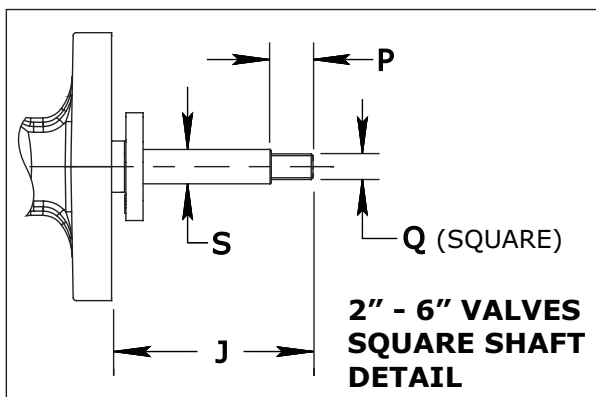
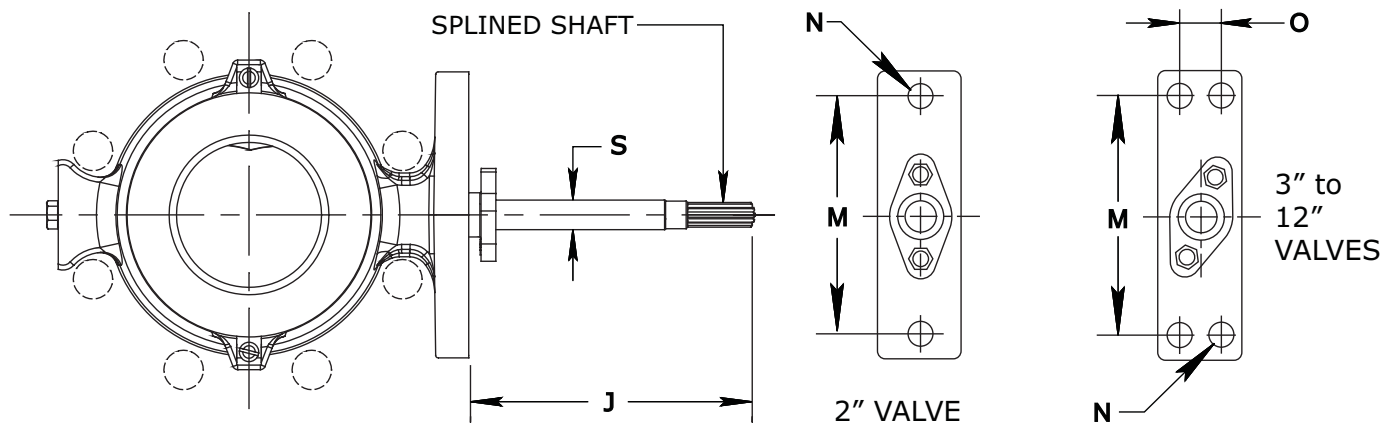


Figure 9 Typical Valve Dimensions



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Table 2

Model 570 Valve Dimensions Inch (mm)

Valve / Actuator Size	Dimensional Reference							
	A	B	C	D	E	F	G	H
2" / DFR026	4.88 (124)	4.19 (106)	5.00 (127)	10.4 (264)	15.3 (389)	10.1 (257)	9.90 (251)	0.70 (17.8)
3" / DFR047	6.50 (165)	4.62 (117)	5.12 (130)	11.4 (290)	17.1 (434)	13.3 (338)	11.4 (290)	1.31 (33.3)
4" / DFR070	7.62 (194)	5.25 (133)	5.56 (141)	11.9 (302)	18.4 (467)	23.9 (607)	13.1 (333)	2.12 (53.8)
6" / DFR156	9.00 (229)	6.25 (159)	7.06 (179)	13.4 (340)	22.6 (574)	34.5 (876)	18.6 (472)	2.50 (63.5)
8" / DFR156	9.56 (243)	7.69 (195)	9.12 (232)	14.9 (378)	24.2 (615)	34.5 (876)	18.6 (472)	2.50 (63.5)
8" / DFR220	9.56 (243)	7.69 (195)	9.12 (232)	14.9 (378)	25.5 (648)	33.4 (848)	21.1 (536)	2.50 (63.5)

ASME Class: 150 / 300 / 600

- Envelope Dimensions are + / - 0.25 in. (6.4 mm)
- Face to Face Tolerance Per ASME

Table 3

Model 571 and 573 Valve Dimensions Inch (mm)

Valve / Actuator Size	Dimensional Reference							
	A	B	C	D	E	F	G	H
2" / DFR026	4.88 (124)	4.19 (106)	5.00 (127)	10.4 (264)	15.3 (389)	10.1 (257)	9.90 (251)	0.70 (17.8)
3" / DFR047	6.50 (165)	4.62 (117)	5.12 (130)	11.4 (290)	17.1 (434)	13.3 (338)	11.4 (290)	1.31 (33.3)
4" / DFR070	7.62 (194)	5.25 (133)	5.56 (141)	11.9 (302)	18.4 (467)	23.9 (607)	13.1 (333)	2.12 (53.8)
6" / DFR156	9.00 (229)	6.25 (159)	7.06 (179)	13.4 (340)	22.6 (574)	34.5 (876)	18.6 (472)	2.50 (63.5)
8" / DFR156	9.56 (243)	7.69 (195)	9.12 (232)	14.9 (378)	24.2 (615)	34.5 (876)	18.6 (472)	2.50 (63.5)
8" / DFR220	9.56 (243)	7.69 (195)	9.12 (232)	14.9 (378)	25.5 (648)	33.4 (848)	21.1 (536)	2.50 (63.5)
10" / DFR220	11.69 (297)	8.75 (222)	10.25 (260)	16.1 (409)	26.6 (676)	33.4 (848)	21.1 (536)	2.50 (63.5)
12" / DFR220	13.31 (338)	10.56 (268)	11.94 (303)	17.74 (451)	28.29 (719)	33.4 (848)	21.1 (536)	2.50 (63.5)

ASME Class: 571 = 150, 573 = 300

- Envelope Dimensions are + / - 0.25 in. (6.4 mm)
- Face to Face Tolerance Per ASME

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Table 4

Valve Shaft Diameters Inch (mm)

Valve Size Inch	Stem Diameter Inch (mm)
2	5/8 x 1/2 spline (15.9 x 12.7 spline)
3	3/4 (19.1)
4	3/4 (19.1)
6	1 (25.4)
8	1-1/4 (31.8)
10	1-1/4 (31.8)
12	1-1/2 (38.1)

Figure 10
Flange Stud Measuring Method

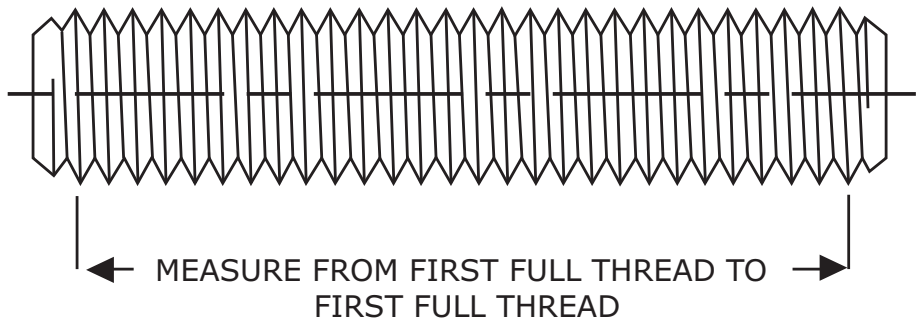


Table 5

Model 570 Line Flange Stud Lengths

See Figures 8 & 9

Valve Size (inches)	I		
	Class 150	Class 300	Class 600
2	8.31 (211)	9.31 (237)	9.31 (237)
3	10.00 (254)	11.25 (286)	11.25 (286)
4	11.25 (286)	13.50 (343)	13.50 (343)
6	13.50 (343)	14.25 (362)	16.25 (423)
8	13.50 (343)	15.25 (387)	16.75 (426)



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Table 6

Model 571 and 573 Flange Stud Lengths Inch (mm)

See Figure 8 & 9

Valve Size Inch	571		573	
	K	L	K	L
2	3.61 (92)	4.11 (104)	3.86 (98)	4.11 (104)
3	3.86 (98)	4.11 (104)	4.65 (118)	5.15 (131)
4	3.86 (98)	4.61 (117)	4.90 (124)	5.40 (137)
6	4.40 (112)	4.90 (124)	5.40 (137)	5.90 (150)
8	4.90 (124)	5.15 (131)	5.94 (151)	6.44 (164)
10	5.19 (132)	5.69 (145)	6.75 (171)	7.25 (184)
12	5.19 (132)	5.94 (151)	7.25 (184)	7.75 (197)

Table 7

Model 570, 571, and 573 Splined Shaft Dimensions Inch (mm)

See Figure 9

Valve Size Inch	570		571		573	
	J	S	J	S	J	S
2	7.38 (188)	5/8 (15.9) & 5/8 X 1/2 (15.9 X 12.7)	7.38 (188)	5/8 (15.9) & 5/8 X 1/2 (15.9 X 12.7)	7.38 (188)	5/8 (15.9) & 5/8 X 1/2 (15.9 X 12.7)
3	8.44 (214)	3/4 (19.1)	8.44 (214)	3/4 (19.1)	8.44 (214)	3/4 (19.1)
4	8.44 (214)	3/4 (19.1)	8.44 (214)	3/4 (19.1)	8.44 (214)	3/4 (19.1)
6	8.44 (214)	1 (25.4)	8.44 (214)	1 (25.4)	8.44 (214)	1 (25.4)
8	8.19 (208)	1-1/4 (31.8)	8.19 (208)	1-1/4 (31.8)	8.19 (208)	1-1/4 (31.8)
10	—	—	8.19 (208)	1-1/4 (31.8)	8.19 (208)	1-1/4 (31.8)
12	—	—	8.19 (208)	1-1/2 (38.1)	8.19 (208)	1-1/2 (38.1)

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Table 8

Model 570, 571, and 573 Square Shaft Dimensions Inch (mm)

See Figure 9

Valve Size Inch	Dimensional Reference			
	J	S	P	Q
2	3.24 (82.3)	5/8 (15.9) & 5/8 X 1/2 (15.9 X 12.7)	0.75 (19.1)	0.431 (11.0)
3	3.82 (97.0)	3/4 (19.1)	0.75 (19.1)	0.431 (11.0)
4	3.82 (97.0)	3/4 (19.1)	0.75 (19.1)	0.431 (11.0)
6	5.07 (128.8)	1 (25.4)	1.00 (25.4)	0.667 (16.9)

Table 9

Model 570, 571, and 573 Keyed Shaft Dimensions Inch (mm)

See Figure 9

Valve Size Inch	570					571 & 573				
	J	S	U	T	W	J	S	U	T	W
8	5.05 (128.3)	1-1/4 (31.8)	2.00 (50.8)	—	—	5.05 (128.3)	1-1/4 (31.8)	2.00 (50.8)	—	—
	8" Valve Shafts use a 3/8" Key Stock.									
10	—	—	—	—	—	5.10 (129.5)	1-1/4 (31.8)	2.00 (50.8)	—	—
	10" Valve Shafts use a 3/8" Key Stock.									
12	—	—	—	—	—	5.10 (129.5)	1-1/2 (38.1)	1.50 (38.1)	1.375 (34.9)	1.75 (44.5)
	12" Valve Shafts use a 5/16" Key Stock.									



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Table 10

Flange Stud Diameters and Threads Per Inch (TPI)

Valve Size Inch	TPI		
	Class 150	Class 300	Class 600
2	5/8" - 11	5/8" - 11	5/8" - 11
3	5/8" - 11	3/4" - 10	3/4" - 10
4	5/8" - 11	3/4" - 10	7/8" - 9
6	3/4" - 10	3/4" - 10	1" - 8
8	3/4" - 10	7/8" - 9	1-1/8" - 8
10 (571 & 573 ONLY)	7/8" - 9	1" - 8	N/A
12 (571 & 573 ONLY)	7/8" - 9	1-1/8" - 8	N/A

Table 11

Flange Stud Quantity

Valve Size Inch	Number of Studs Required (Double for Models 571 & 573)		
	Class 150	Class 300	Class 600
2	4	8	8
3	4	8	8
4	8	8	8
6	8	12	12
8	8	12	12
10 (571 & 573 ONLY)	12	16	N/A
12 (571 & 573 ONLY)	12	12	N/A

Table 12

Model 570 Valve Mounting Pad Dimensions Inch (mm)

Valve Inch	Dimensional Reference		
	N	M	O
2	0.56 (14.2)	4.62 (117)	—
3	0.56 (14.2)	6.00 (152)	1.25 (31.8)
4	0.56 (14.2)	6.00 (152)	1.25 (31.8)
6	0.56 (14.2)	6.00 (152)	1.25 (31.8)
8	0.69 (17.5)	9.25 (235)	1.81 (46.0)

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Table 13

Model 571 & 573 Valve Mounting Pad Dimensions Inch (mm)

Valve Inch	Dimensional Reference		
	N	M	O
2	0.56 (14.2)	4.62 (117)	—
3	0.56 (14.2)	6.00 (152)	1.25 (31.8)
4	0.56 (14.2)	6.00 (152)	1.25 (31.8)
6	0.56 (14.2)	6.00 (152)	1.25 (31.8)
8	0.69 (17.5)	9.25 (235)	1.81 (46.0)
10	0.69 (17.5)	9.25 (235)	1.81 (46.0)
12	0.69 (17.5)	9.25 (235)	1.81 (46.0)

Table 14

Actuator Sizing Chart

PTFE Composite Seal Ring and SST / PTFE Bearing

Forward Flow | 35 Psig Supply Pressure | Pressure Differential as Specified @ -50 to 100°F (-46 to 38°C)

Valve Size	Actuator Action	Shutoff Pressure Differential Psig (kPag)						
		100 (689)	200 (1,378)	300 (2,068)	400 (2,758)	500 (3,447)	600 (4,137)	750 (5,171)
		DFR Acuator Size						
2 Inch	FAIL OPEN	026	026	026	026	026	026	026
	FAIL CLOSED	026	026	026	026	026	047	047
3 Inch	FAIL OPEN	047	047	047	047	047	047	047
	FAIL CLOSED	047	047	047	047	047	047	047
4 Inch	FAIL OPEN	047	047	047	047	047	047	047
	FAIL CLOSED	070	070	070	070	070	070	070
6 Inch	FAIL OPEN	156	156	156	156	156	156	156
	FAIL CLOSED	156	156	156	156	156	156	156
8 Inch	FAIL OPEN	156	156	156	156	156	156	156
	FAIL CLOSED	156	156	156	156	156	156	156
10 Inch	FAIL OPEN	156	156	156	220	220	-*	-
	FAIL CLOSED	156	156	156	220	220	-*	-
12 Inch	FAIL OPEN	220	220	220	220	220	-*	-
	FAIL CLOSED	220	220	220	220	220	-*	-

NOTES: * 10 inch valve assembly limited to 583 Psig (4,020 kPag) max shutoff pressure differential. 12 Inch valve assembly limited to 545 Psig (3,758 kPag) max shutoff pressure differential.

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Table 15

Valve Size Inch	Model		
	570	571	573
2	23 (10)	21 (9)	38 (17)
3	34 (15)	43 (13)	61 (28)
4	48 (22)	57 (26)	81 (37)
6	80 (36)	93 (42)	133 (60)
8	136 (62)	158 (72)	226 (103)
10	—	235 (107)	440 (200)
12	—	347 (157)	645 (293)

Table 16

Valve Size Inch/ Actuator model	Model			
	570	571	573	
2	DFR026	53 (24)	51 (23)	68 (31)
	DFR047	69 (31)	67 (30)	84 (38)
3	DFR047	80 (36)	89 (40)	107 (49)
4	DFR047	94 (43)	103 (47)	127 (58)
	DFR070	147 (67)	156 (71)	145 (66)
6	DFR156	283 (128)	296 (134)	336 (152)
8	DFR156	339 (154)	361 (164)	429 (195)
	DFR220	408 (185)	430 (195)	498 (226)
10	DFR220	—	507 (230)	712 (323)
12	DFR220	—	619 (281)	917 (416)

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Table 17

Model 570 Body Pressure Temperature Ratings

Temperature Range	ASME Pressure Class								
	WCC Class 150	LCC ¹ Class 150	CG8M Class 150	WCC Class 300	LCC ¹ Class 300	CG8M Class 300	WCC Class 600	LCC ¹ Class 600	CG8M Class 600
°C	kPa								
-46 to -29	—	1,999	1,896	—	5,171	4,964	—	10,342	9,928
-29 to 38	1,999	1,999	1,896	5,171	5,171	4,964	10,342	10,342	9,928
93	1,793	1,793	1,620	5,171	5,171	4,275	10,342	10,342	8,549
149	1,586	1,586	1,482	5,033	5,033	3,861	10,032	10,032	7,722
204	1,376	1,379	1,344	4,861	4,861	3,550	9,722	9,722	7,067
260	1,172	1,172	1,172	4,585	4,585	3,309	9,170	9,170	6,584
316	965	965	965	4,171	4,171	3,102	8,343	8,343	6,205
343	862	862	862	4,068	4,068	3,033	8,101	8,101	6,102
371	758	—	758	3,827	—	2,999	7,826	—	5,998
399	655	—	655	3,842	—	2,930	6,964	—	5,895
427	552	—	552	3,482	—	2,895	5,688	—	5,826
°F	Psi								
-50 to -20	—	290	275	—	750	720	—	1,500	1,440
-20 to 100	290	290	275	750	750	720	1,500	1,500	1,440
200	260	260	235	750	750	620	1,500	1,500	1,240
300	230	230	215	730	730	560	1,455	1,455	1,120
400	200	200	195	705	705	515	1,405	1,405	1,025
500	170	170	170	665	665	480	1,330	1,330	955
600	140	140	140	605	605	450	1,210	1,210	900
650	125	125	125	590	590	440	1,175	1,175	885
700	110	—	110	555	—	435	1,110	—	870
750	95	—	95	505	—	425	1,015	—	855
800	80	—	80	410	—	420	825	—	845

Pressure Temperature Ratings as per ASME B16.34, 2004
For ratings above 800°F (427 °C) consult factory.

Notes:

1 - Do not use over 650 °F (343 °C)

Model 570, 571, 573 Control Valves

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Table 18

Maximum Allowable Shutoff Pressure Drops for Bearing and Ball Seal Material

Bearing Material	Ball Seal	Temperature Range °F (°C)	Valve Size, Inches						
			2	3	4	6	8	10	12
			Psi (kPa)						
S17400 / CPTFE	Composition	-50 to 100 (-46 to 38)	750 (5,171)	750 (5,171)	750 (5,171)	750 (5,171)	750 (5,171)	583 (4,020)	545 (3,758)
		200 (93)	550 (3,792)	550 (3,792)	550 (3,792)	550 (3,792)	550 (3,792)	550 (3,792)	545 (3,758)
		300 (149)	350 (2,413)	350 (2,413)	350 (2,413)	350 (2,413)	350 (2,413)	350 (2,413)	350 (2,413)
		400 (204)	150 (1,034)	150 (1,034)	150 (1,034)	150 (1,034)	150 (1,034)	150 (1,034)	150 (1,034)
		450 (232)	50 (345)	50 (345)	50 (345)	50 (345)	50 (345)	50 (345)	50 (345)
	Metal	-50 to 500 (-46 to 260)	750 (5,171)	750 (5,171)	750 (5,171)	750 (5,171)	750 (5,171)	593 (4,089)	553 (3,813)
	Flow Ring	-50 to 500 (-46 to 260)	1,500 (10,342)	1,500 (10,342)	1,050 (7,239)	1,090 (7,515)	1,070 (7,377)	587 (4,047)	547 (3,771)
S44004	Metal	-50 to 550 (-46 to 288)	371 (2,558)	252 (1,737)	160 (1,103)	157 (1,082)	162 (1,117)	89 (614)	83 (572)
	Flow Ring	-50 to 800 (-46 to 427)	386 (2,661)	272 (1,875)	157 (1,082)	162 (1,117)	160 (1,103)	88 (607)	82 (565)
Alloy 6	Metal	-50 to 550 (-46 to 288)	371 (2,558)	252 (1,737)	160 (1,103)	157 (1,082)	162 (1,117)	89 (614)	83 (572)
	Flow Ring	-50 to 800 (-46 to 427)	386 (2,661)	272 (1,875)	157 (1,082)	162 (1,117)	160 (1,103)	88 (607)	82 (565)

NOTE: Do not exceed the pressure/temperature rating of the valve body material as per Table 3.

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Table 19

Valve Sizing Coefficients

Forward Flow, Composition And Metal Seals 1:1 Pipe To Valve Size Ratio

Valve Size		Degrees Opening								
		10	20	30	40	50	60	70	80	90
2 inch	C _v	0.054	3.05	9.20	18.1	30.1	42.4	61.0	84.4	112
	X _T	0.648	0.788	0.775	0.688	0.610	0.590	0.487	0.418	0.379
	F _L	0.94	0.90	0.91	0.86	0.85	0.84	0.79	0.76	0.76
3 inch	C _v	1.08	10.5	24.8	41.2	69.4	112	163	230	303
	X _T	0.689	0.608	0.640	0.636	0.588	0.558	0.461	0.399	0.315
	F _L	0.91	0.89	0.89	0.86	0.84	0.82	0.78	0.78	0.75
4 inch	C _v	3.90	21.4	47.2	77.8	117	172	248	375	519
	X _T	0.737	0.854	0.813	0.724	0.657	0.559	0.504	0.355	0.230
	F _L	0.88	0.91	0.91	0.87	0.84	0.81	0.78	0.70	0.63
6 inch	C _v	6.40	31.1	77.9	141	216	310	435	685	1,012
	X _T	0.608	0.775	0.797	0.740	0.635	0.540	0.514	0.362	0.230
	F _L	0.94	0.93	0.92	0.89	0.85	0.80	0.79	0.72	0.62
8 inch	C _v	7.50	53.5	112	203	323	465	631	915	1,670
	X _T	0.580	0.790	0.741	0.642	0.611	0.543	0.569	0.370	0.210
	F _L	0.94	0.94	0.92	0.90	0.85	0.80	0.79	0.72	0.62
10 inch	C _v	41.0	99.4	240	447	689	980	1,320	1,940	2,860
	X _T	0.413	0.652	0.620	0.459	0.510	0.480	0.452	0.310	0.242
	F _L	0.84	0.87	0.88	0.85	0.85	0.82	0.75	0.64	0.53
12 inch	C _v	40.0	152	350	640	1,030	1,460	1,980	2,840	3,710
	X _T	0.450	0.770	0.687	0.602	0.530	0.527	0.451	0.358	0.245
	F _L	0.78	0.81	0.84	0.82	0.82	0.79	0.72	0.67	0.63

Relationships Of Note:

$$C_1 = 39.76\sqrt{X_T}$$

$$C_g = C_v C_1$$

$$K_m = F_L^2$$

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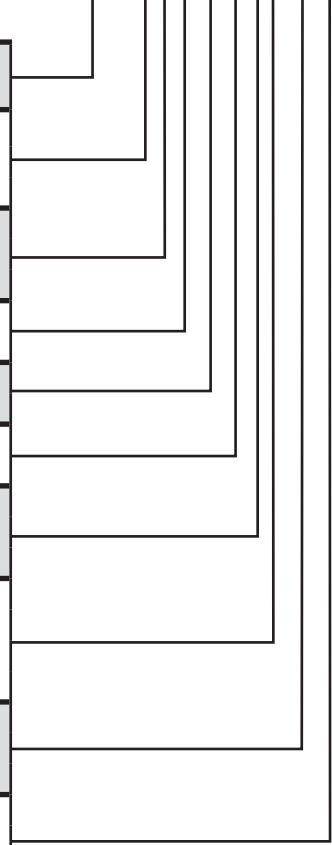


Model 570, 571, 573 Control Valves

MODEL NUMBERING SYSTEM

SAMPLE PART NUMBER: **570-2-CLC-PNT**

MODEL						570		
570	570	571	571	573	573			
VALVE SIZE						2		
2	2 INCH	3	3 INCH	4	4 INCH		6	6 INCH
8	8 INCH	10	10 INCH	12	12 INCH			
BALL MATERIAL						-		
-	CG8M / CRPL (STANDARD)			S	CG8M / CoCr-A LEADING EDGE / CRPL			
N	CG8M / CoCr-A LEADING EDGE			B	CG8M			
ASME RATING (SEE PAGE 2)						C		
A	150	B	300 / 600	C	150 / 300 / 600		E	300
BODY MATERIAL						L		
L	LCC	W	WCC	C	CG8M			
BALL SEAL MATERIAL						C		
C	PTFE COMPOSITION	H	S21800	A	ALLOY 6		S	FLOW RING
PAINT						-		
-	DFPS-01 (STANDARD)			2	DFPS-02 (SEVERE SERVICE)			
3	DFPS-03 (HIGH TEMPERATURE)							
PACKING STYLE						P		
P	SINGLE PTFE V-RING			L	LIVE LOADED PTFE			
V	SINGLE PTFE V-RING (VACUUM)			T	LIVE LOADED GRAPHITE			
G	SINGLE GRAPHITE							
SHAFT MATERIAL / STYLE						N		
N	S20910 / SPLINED			K	S20910 / KEYED (VALVE SIZES 8" - 12" ONLY)			
P	S20910 / SQUARE END (VALVE SIZES 2" - 6" ONLY)							
BEARINGS						T		
T	S17400 / CPTFE			A	ALLOY 6			
F	S44004							



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