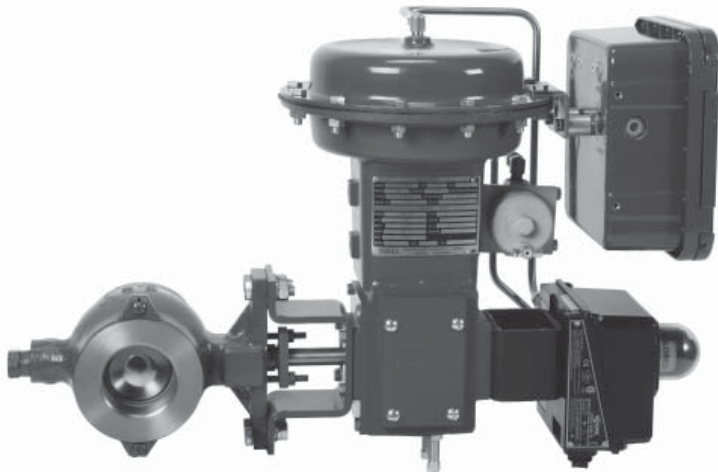


# Model 570, 571, 573 Control Valves

## 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.



# Model 570, 571, 573 Control Valves

## Technical Sales Bulletin

### SPECIFICATIONS

#### Maximum Pressure / Temperature Ratings

Consistent with applicable pressure / temperature ratings per ASME B16.34. See Table 14 & 15.

#### Maximum Allowable Shutoff Pressure Drop

See Table 15.

750 psig (51.71 Bar) @ 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 14 & 15.

#### 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 (3.45 Bar), 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 Table 2 - 10 for valve dimensions.

See Table 5 - 8 for bolting dimensions.

#### Actuator Sizing

See Table 11.

#### Valve and Actuator Assembly Weight

See Table 13.

#### Options

Line Flange Bolting - Tables 5, 6, 7, & 8.

Stainless Steel Construction.

Internal Coatings.

Shaft Connections.

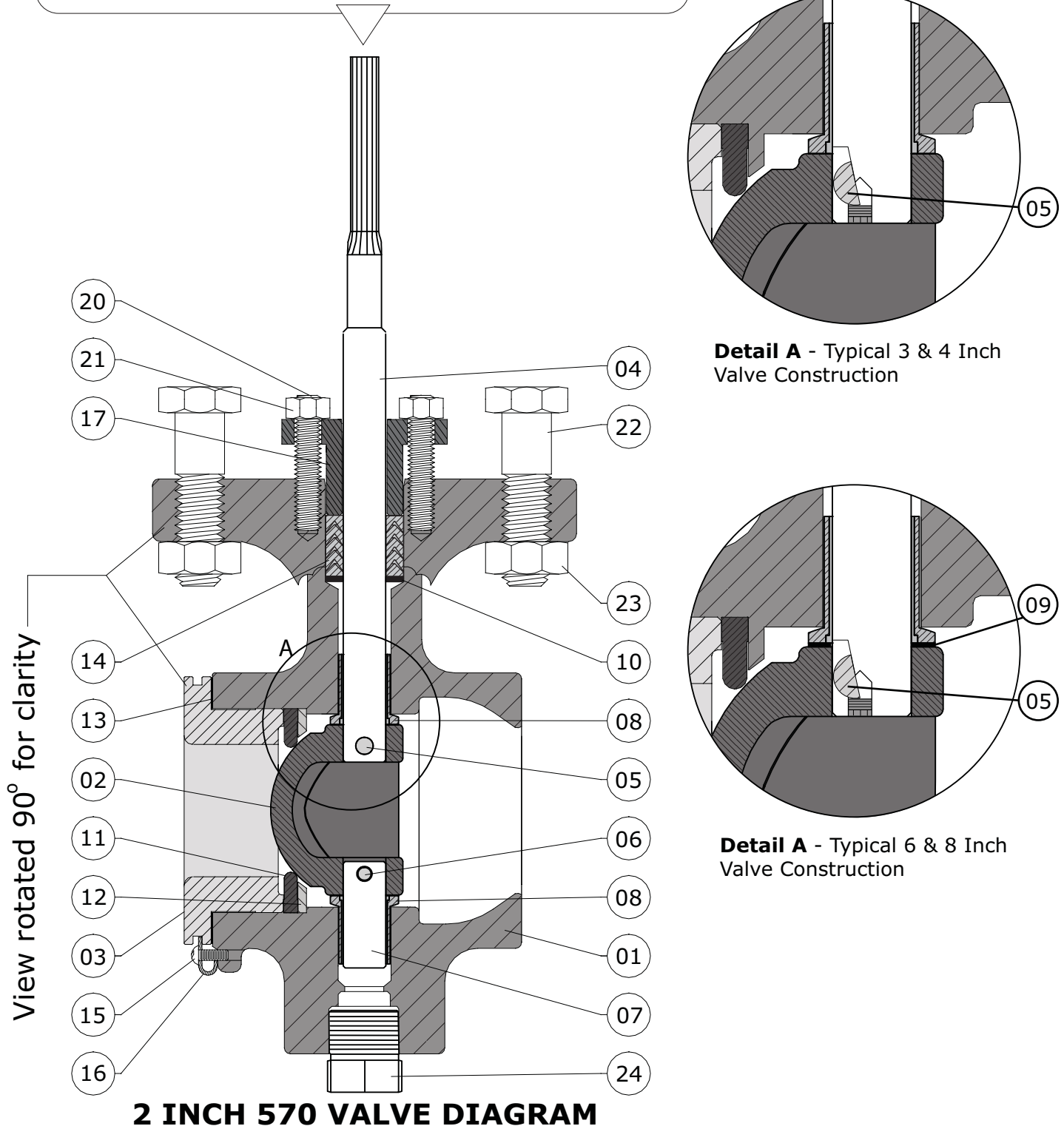
For more information and other options contact your Dyna-Flo sales office.

# Model 570, 571, 573 Control Valves

Technical Sales Bulletin



Figure 3 570 Cross Section



**Detail A - Typical 3 & 4 Inch Valve Construction**

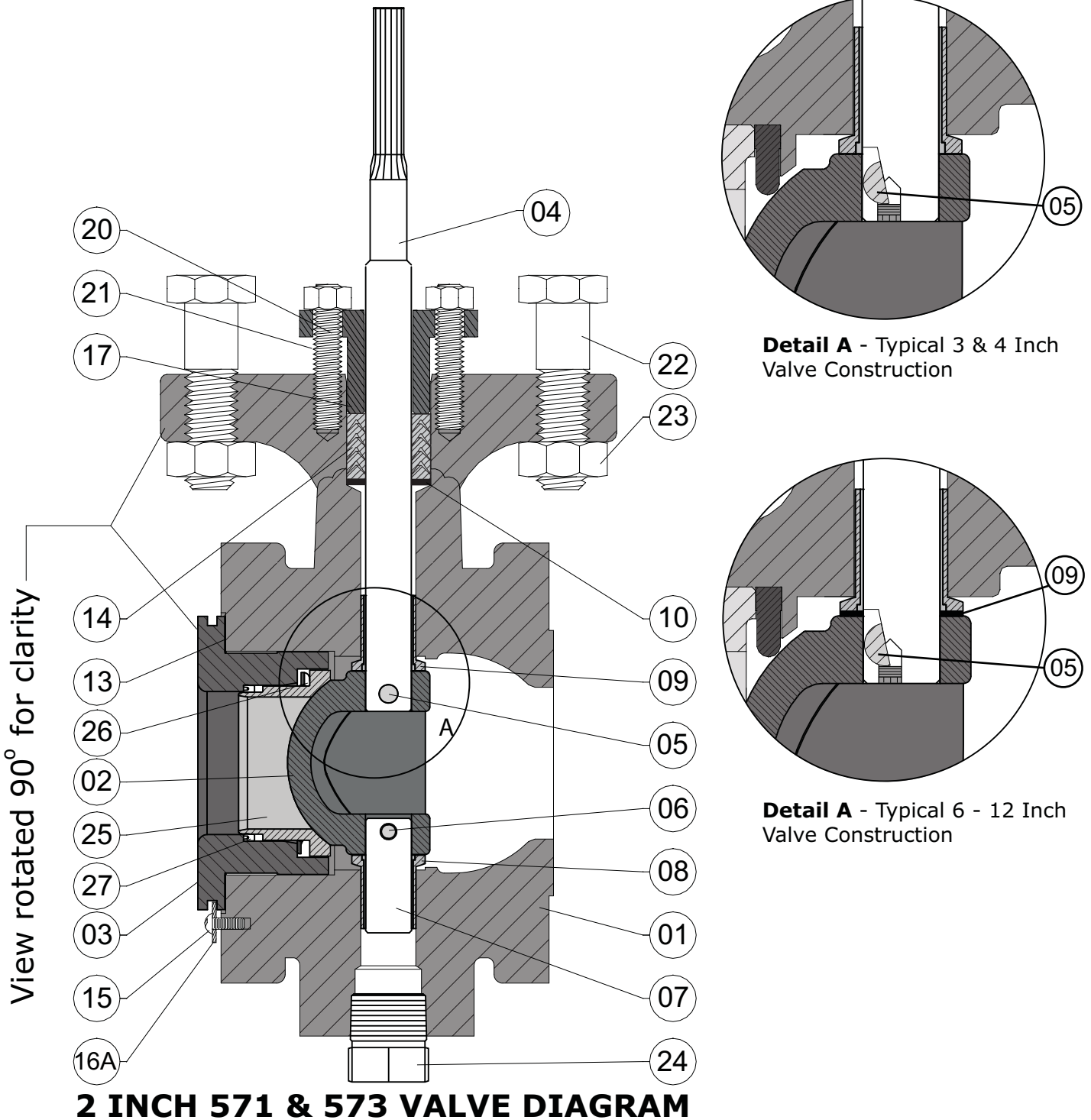
**Detail A - Typical 6 & 8 Inch Valve Construction**



# Model 570, 571, 573 Control Valves

Technical Sales Bulletin

Figure 3 571 & 573 Cross Section



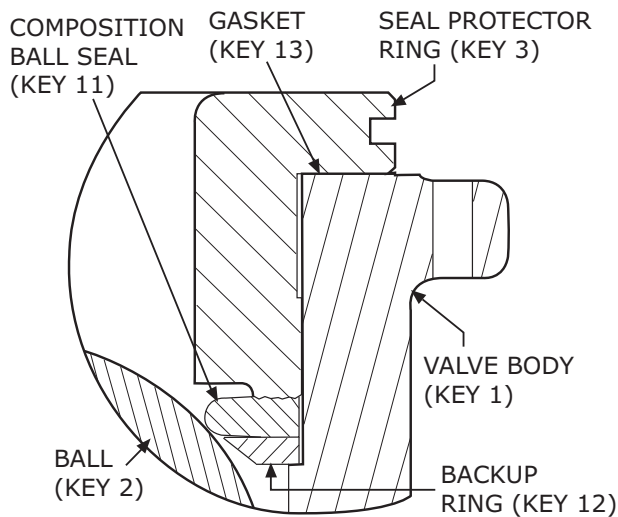
## 2 INCH 571 & 573 VALVE DIAGRAM

# Model 570, 571, 573 Control Valves

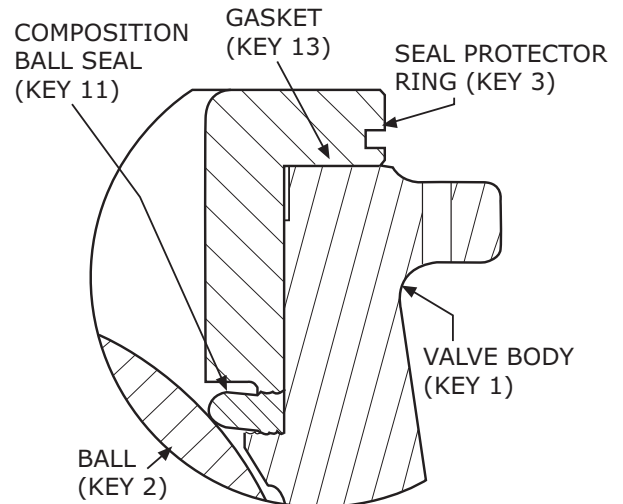
Technical Sales Bulletin



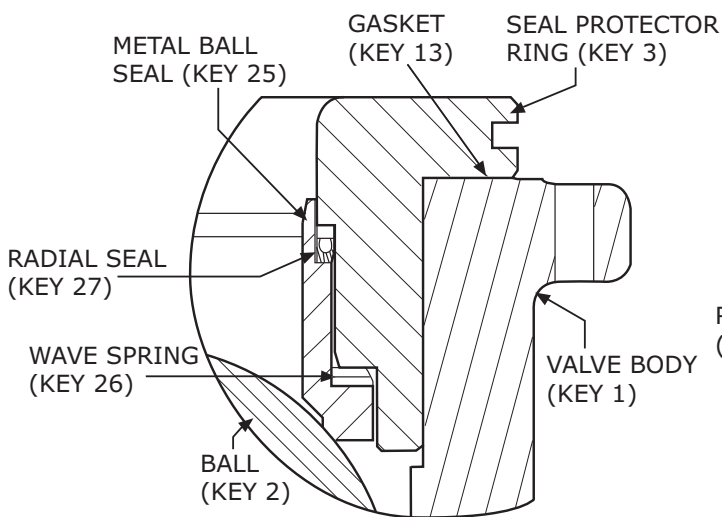
**Figure 6** Ball Seal Assembly Diagrams for Valve Sizes 2 Through 12 Inch



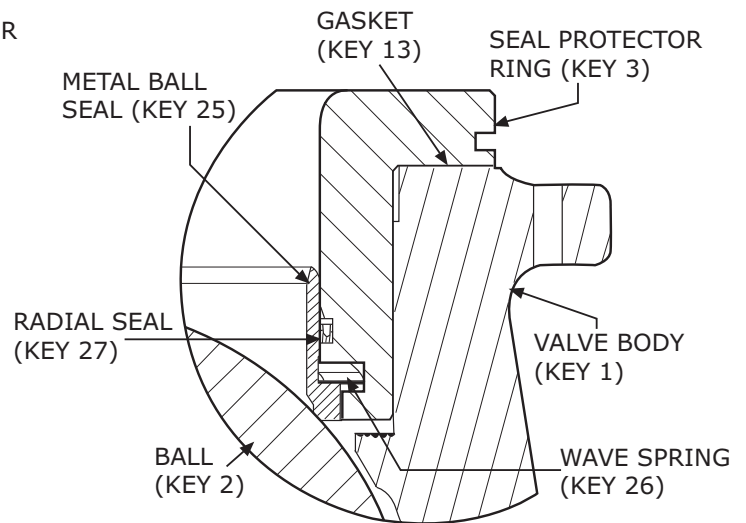
**2 INCH COMPOSITION BALL SEAL & BACKUP RING**



**SIZE 3 THROUGH 12 INCH COMPOSITION BALL SEAL**



**2 INCH METAL BALL SEAL**



**SIZE 3 THROUGH 12 INCH METAL BALL SEAL**



# Model 570, 571, 573 Control Valves

## Technical Sales Bulletin

Table 1

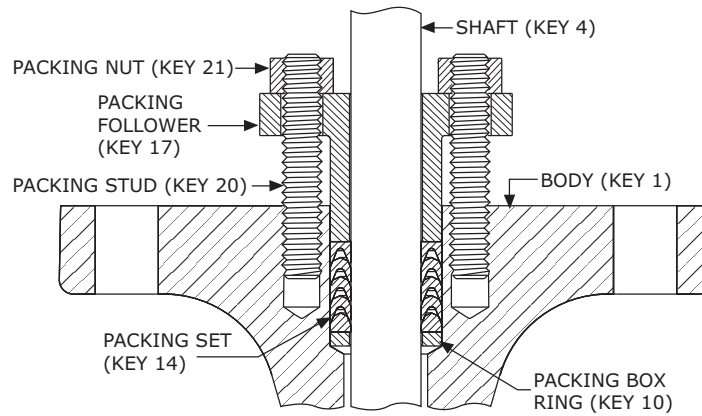
### Model 570, 571, & 573 Construction Materials

Key	Part Description	Material
01	Body	LCC, WCC, CG8M
02	Ball	CG8M Chrome Plated
03	Seal Protector Ring	LCC, WCC, CG8M
*04	Shaft	S20910, S17400
05	Pin for 2", Key for 3" - 12"	S20910
06	Pin	S30400
*07	Follower Shaft	S20910, S17400
08	Bearing	S17400 / CPTFE Lined (2 required), S44004 (2 required), Alloy 6 (2 required)
09	Thrust Washer	CPTFE (For 6 - 12 Inch Valve Sizes Only)
10	Packing Box Ring	S31600**
11	Composition Ball Seal	PTFE Composite
12	Back Up Ring (2" Valve Only)	S31600**
13	Gasket	Graphoil Laminate
14	Packing Set	PTFE, CPTFE, Graphite, Live Loaded
15	Seal Protector Screw	S30400 (2 required)
16	Seal Protector Clip	Stainless Steel (2 required)
16A	Seal Protector Washer	Stainless Steel (2 required)
17	Packing Follower	CF8M
18	Live Loaded Packing Follower	PTFE / CF8M
19	Packing Flange	CF8M
20	Packing Stud	S31600, B8M (with CF8M Body) (2 required)
21	Packing Nut	S31600, 8M (with CF8M Body) (2 required)
22	Actuator Mounting Bolt	Plated Steel (2 required)
23	Actuator Mounting Nut	Plated Steel (2 required)
24	Pipe Plug	A105 Steel, S31600**
25	Metal Ball Seal	S21800, S31600** / Alloy 6 (solid Alloy 6 for 2" valves)
26	Wave Spring	N07750
27	Radial Seal	CPTFE / R30003
28	Spring Washers	N07718

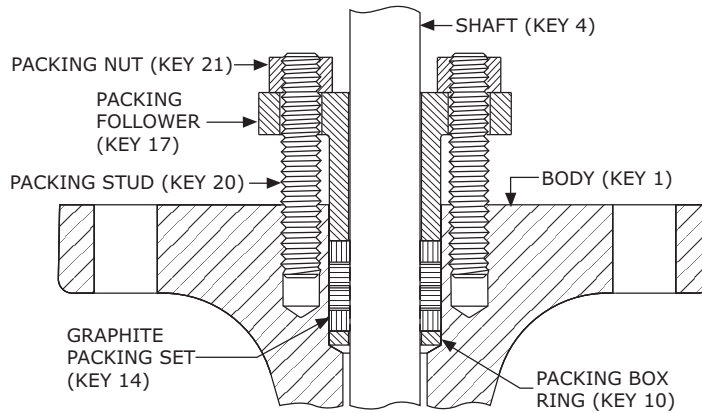
\* Standard NACE Service requires S20910. \*\* All S31600 barstock is dual grade S31600/S31603 (316/316L).

# Model 570, 571, 573 Control Valves

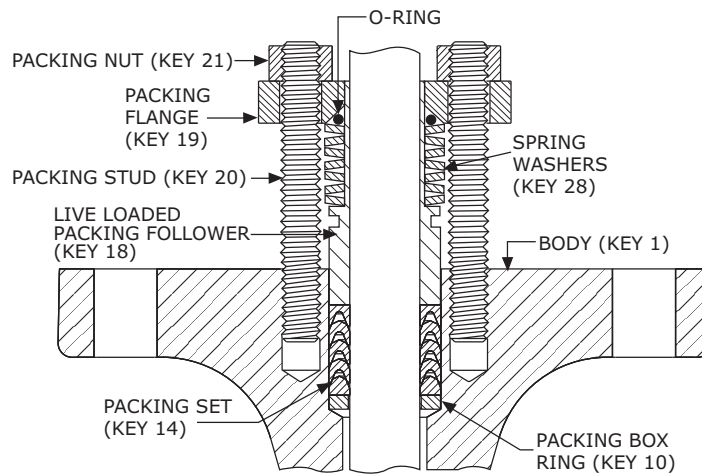
## Technical Sales Bulletin



### PTFE PACKING



### GRAPHITE PACKING

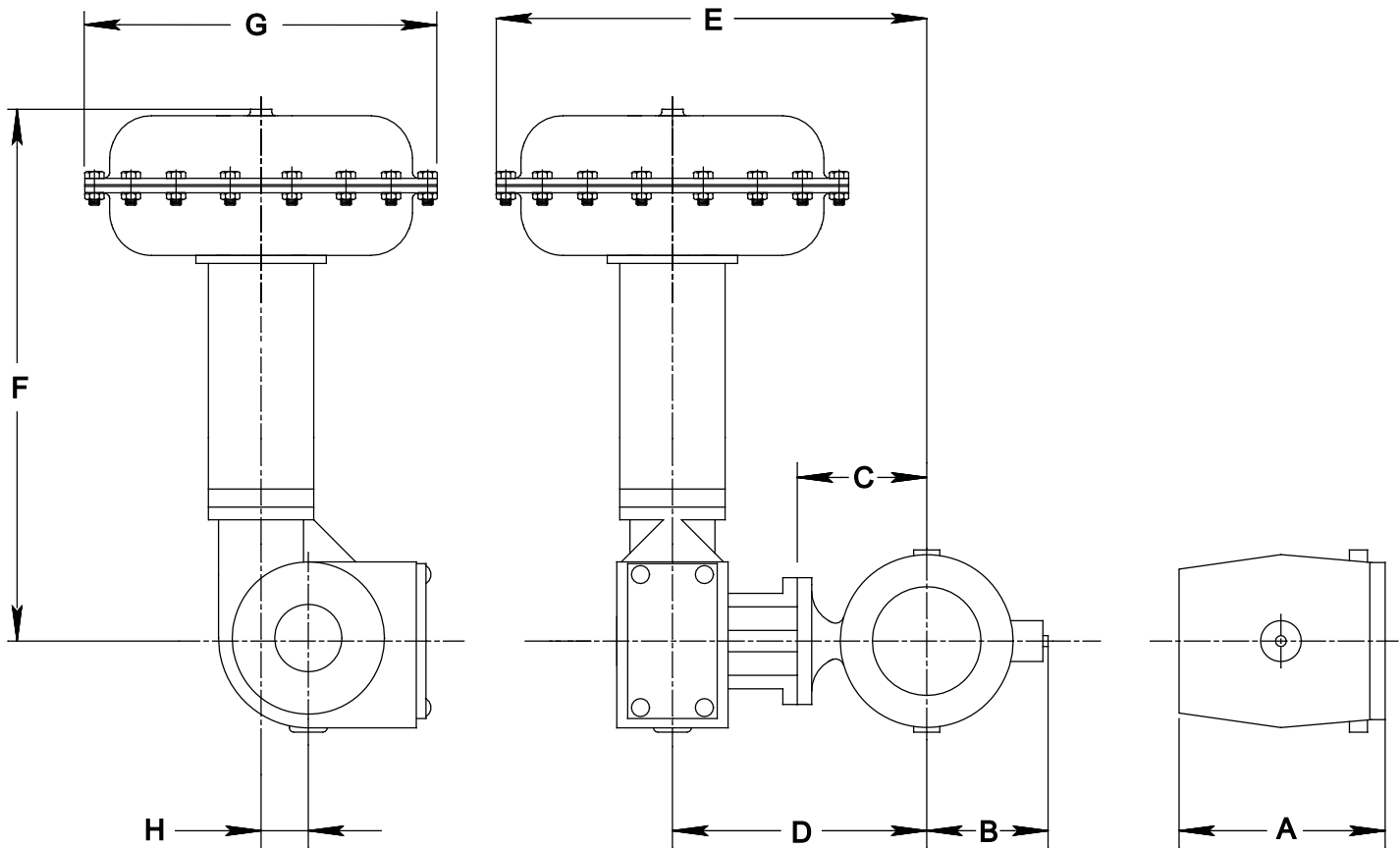


### LIVE LOADED PTFE PACKING

**Figure 7** Valve Packing Configurations

# Model 570, 571, 573 Control Valves

Technical Sales Bulletin

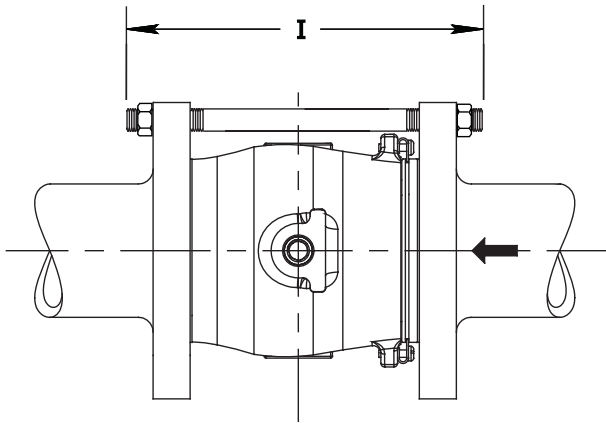


**Figure 8** Typical Valve Assembly Diagram and Dimensions

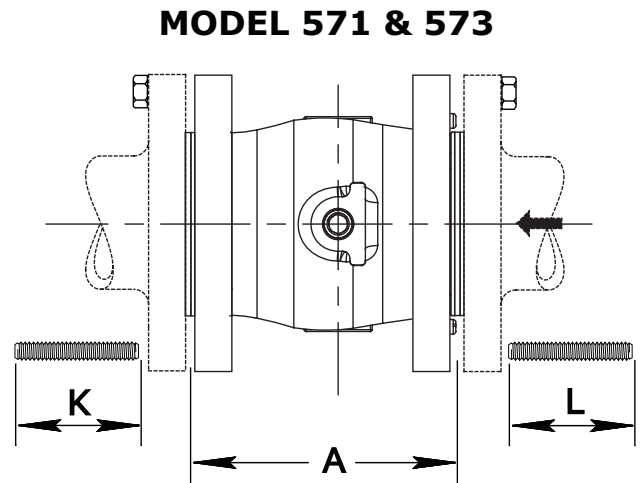


# Model 570, 571, 573 Control Valves

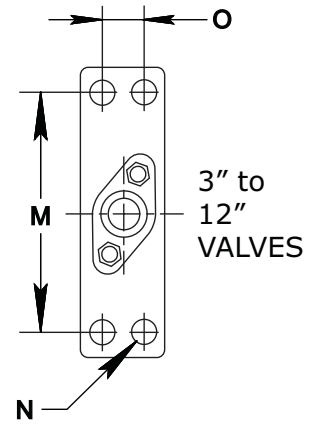
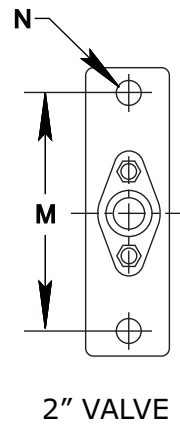
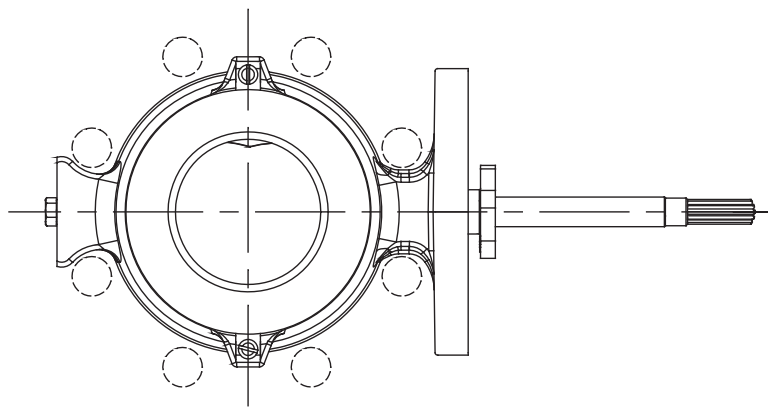
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**MODEL 570**



**MODEL 571 & 573**



**Figure 9 Typical Valve Dimensions**



# Model 570, 571, 573 Control Valves

## Technical Sales Bulletin

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)	21.8 (548)	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)	21.8 (548)	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)	26.7 (678)	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

# Model 570, 571, 573 Control Valves

## Technical Sales Bulletin



Table 4

### Valve Stem 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

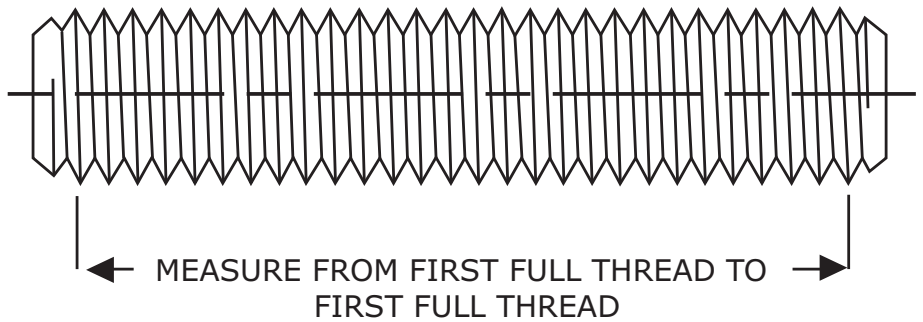


Table 5

### Model 570 Flange Stud Lengths

See Figure 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)	11.00 (279)	11.25 (286)
4	11.25 (286)	12.00 (305)	13.50 (343)
6	13.50 (343)	14.25 (362)	16.25 (423)
8	13.50 (343)	15.25 (387)	16.75 (426)



# Model 570, 571, 573 Control Valves

## Technical Sales Bulletin

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

### 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	7/8" - 9	1" - 8	1-1/4" - 8
12	7/8" - 9	1-1/8" - 8	1-1/4" - 8

# Model 570, 571, 573 Control Valves



Table 8

## 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	12	16	16
12	12	16	20

Table 9

## 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)

# Model 570, 571, 573 Control Valves



Table 10

## 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 11

## 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 (Bar)						
		100 (6.9)	200 (13.8)	300 (20.7)	400 (27.6)	500 (34.5)	600 (41.4)	750 (51.7)
		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 (40.2 Bar) max shutoff pressure differential. 12 Inch valve assembly limited to 545 Psig (37.6 Bar) max shutoff pressure differential.

# Model 570, 571, 573 Control Valves



**Table 12**

<b>Valve Weights lb (Kg)</b>			
<b>Valve Size Inch</b>	<b>Model</b>		
	<b>570</b>	<b>571</b>	<b>573</b>
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 13**

<b>Valve and Actuator Assembly Weights lb (Kg)</b>				
<b>Valve Size Inch/ Actuator model</b>	<b>Model</b>			
	<b>570</b>	<b>571</b>	<b>573</b>	
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)

# Model 570, 571, 573 Control Valves



Table 14

## Model 570 Body Pressure Temperature Ratings

### ASME Pressure Class

Temperature Range	ASME Pressure Class								
	WCC Class 150	LCC <sup>1</sup> Class 150	CG8M Class 150	WCC Class 300	LCC <sup>1</sup> Class 300	CG8M Class 300	WCC Class 600	LCC <sup>1</sup> Class 600	CG8M Class 600
°C	Bar								
-46 to -29	—	19.99	—	—	51.71	—	—	103.42	—
-29 to 38	19.99	19.99	18.96	51.71	51.71	49.64	103.42	103.42	99.28
93	17.93	17.93	16.20	51.71	51.71	42.75	103.42	103.42	85.49
149	15.86	15.86	14.82	50.33	50.33	38.61	100.32	100.32	77.22
204	13.76	13.79	13.44	48.61	48.61	35.50	97.22	97.22	70.67
260	11.72	11.72	11.72	45.85	45.85	33.09	91.70	91.70	65.84
316	9.65	9.65	9.65	41.71	41.71	31.02	83.43	83.43	62.05
343	8.62	8.62	8.62	40.68	40.68	30.33	81.01	81.01	61.02
371	7.58	—	7.58	38.27	—	29.99	78.26	—	59.98
399	6.55	—	6.55	38.42	—	29.30	69.64	—	58.95
427	5.52	—	5.52	34.82	—	28.95	56.88	—	58.26
°F	Psi								
-50 to -20	—	290	—	—	750	—	—	1,500	—
-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



Table 15

## 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 (Bar)						
S17400 / CPTFE	Compositon	-50 to 100 (-46 to 38)	750 (51.71)	750 (51.71)	750 (51.71)	750 (51.71)	750 (51.71)	583 (40.20)	545 (37.58)
		200 (93)	550 (37.92)	550 (37.92)	550 (37.92)	550 (37.92)	550 (37.92)	550 (37.92)	545 (37.58)
		300 (149)	350 (24.13)	350 (24.13)	350 (24.13)	350 (24.13)	350 (24.13)	350 (24.13)	350 (24.13)
		400 (204)	150 (10.34)	150 (10.34)	150 (10.34)	150 (10.34)	150 (10.34)	150 (10.34)	150 (10.34)
		450 (232)	50 (3.45)	50 (3.45)	50 (3.45)	50 (3.45)	50 (3.45)	50 (3.45)	50 (3.45)
	Metal	-50 to 500 (-46 to 260)	750 (51.71)	750 (51.71)	750 (51.71)	750 (51.71)	750 (51.71)	593 (40.89)	553 (38.13)
	Flow Ring	-50 to 500 (-46 to 260)	1,500 (103.42)	1,500 (103.42)	1,050 (72.39)	1,090 (75.15)	1,070 (73.77)	587 (40.47)	547 (37.71)
S44004	Metal	-50 to 550 (-46 to 288)	371 (25.58)	252 (17.37)	160 (11.03)	157 (10.82)	162 (11.17)	89 (6.14)	83 (5.72)
	Flow Ring	-50 to 800 (-46 to 427)	386 (26.61)	272 (18.75)	157 (10.82)	162 (11.17)	160 (11.03)	88 (6.07)	82 (5.65)
Alloy 6	Metal	-50 to 550 (-46 to 288)	371 (25.58)	252 (17.37)	160 (11.03)	157 (10.82)	162 (11.17)	89 (6.14)	83 (5.72)
	Flow Ring	-50 to 800 (-46 to 427)	386 (26.61)	272 (18.75)	157 (10.82)	162 (11.17)	160 (11.03)	88 (6.07)	82 (5.65)

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

# Model 570, 571, 573 Control Valves



Table 16

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

Relationships Of Note:

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

$$C_g = C_v C_1$$

$$K_m = F_L^2$$

# Model 570, 571, 573 Control Valves



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# Model 570, 571, 573 Control Valves

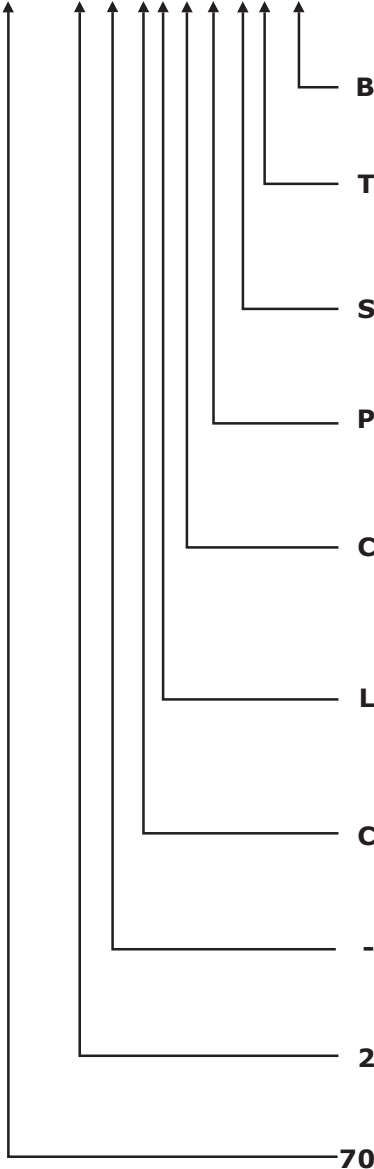


Ordering Guide

## Dyna-Flo 570 Series Control Valve | Model Numbering System

Sample Part Number

**570 - 2 - CLC PST B**



Code	Description				
<b>Options</b>					
<input type="checkbox"/>	None				
<b>B</b>	Bitorq				
<b>Bearings</b>					
<b>T</b>	S17400 / CPTFE				
<b>F</b>	S44004				
<b>A</b>	Alloy 6				
<b>Shaft</b>					
<b>P</b>	S20910 Square End				
<b>N</b>	S20910 Splined				
<b>Packing Material</b>					
<b>P</b>	PTFE				
<b>G</b>	Graphite				
<b>L</b>	Live Loaded PTFE				
<b>Ball Seal Material</b>					
<b>C</b>	PTFE Composition				
<b>H</b>	S21800				
<b>A</b>	Alloy 6				
<b>Body Material</b>					
<b>L</b>	A352 LCC				
<b>W</b>	A216 WCC				
<b>C</b>	A351 CG8M				
<b>ASME Rating (See Page 2)</b>					
<b>A</b>	150	<b>D</b>	150/300		
<b>B</b>	300/600	<b>E</b>	300		
<b>C</b>	150/300/600	<b>F</b>	600		
<b>Ball</b>					
<b>-</b>	Standard Ball				
<b>Body Sizes</b>					
<b>2</b>	2"	<b>6</b>	6"	<b>B</b>	12"
<b>3</b>	3"	<b>8</b>	8"		
<b>4</b>	4"	<b>A</b>	10"		
<b>Model</b>					
<b>70</b>	570	<b>71</b>	571	<b>73</b>	573