Technical Sales Bulletin





Figure 1 Dyna-Flo Model DF2000 with DFC Actuator

The Model DF2000 Control Valves are heavy duty globe style control valves used in all kinds of demanding oil and gas applications, from well head to gas plant and beyond.

The Model DF2000 control valves are post guided, single port valves that can be used for either throttling or on-off control of either liquids or gasses.

The actuator for the Model DF2000 valve is typically a Dyna-Flo Model DFC or DFO linear actuators. These heavy duty actuators are spring return diaphragm style, and can be used with or without a valve positioner.

The Model DF2000 control valves are manufactured to a high level of quality specifications to ensure superior performance and customer satisfaction.

Features

Configuration

Globe valve with screwed-on bonnet, unbalanced, post-guided valve plug, screwed-in metal seat ring construction, and push-down-to close valve plug action.

Low Temperature Construction Standard

Grade LCC low temperature steel, rated to $-50^{\circ}F$ ($-46^{\circ}C$), is standard for the valve body and bonnet.

Severe Service Capable

Constructions are available for service in very erosive applications using a valve plug with a tungsten carbide tip and a seat ring with a full-bore tungsten carbide insert.

Valve Sizes and Flange Ratings

The Model DF2000 is available in a 1" and 2" body size, with NPT, RF, or RTJ end connections, in ASME Class 150-2500

Easy Maintenance

The screwed bonnet/body joint, and seat ring allow repair or maintenance with a minimum of tools.

Shut Off Capability

The standard shut off classification is ANSI/FCI 70.2 and IEC 60534-4 Class IV. Class V is a readily available option.

Superior Construction

The latest in CNC manufacturing and the heavy duty design positively align the valve plug in the seat ring for high pressure drop applications.

NACE Service Capability is Standard

The standard construction materials comply with the recommendations of the National Association of Corrosion Engineers (NACE) MR0175, 2002.





SPECIFICATIONS

Valve Size, Flange Ratings, and Connections

Size: 1" and 2" (Globe and Angle Body).

Rating: ASME 150/300/600/900/1500/2500.

Connections: RF / RTJ / NPT.

Rated Inlet Pressure and Temperature

Per ASME B16.34 Also refer to Table 1.

Maximum Allowable Pressure Drops (Refer to Tables 9 & 10)

Flow-to-open: Capable of full rated pressure drops.

Flow-to-close: For more information contact your Dyna-Flo

Sales Office.

Material Temperature Capabilities

LCC body (standard): -50 to 450°F (-46 to 232°C).

CF8M body: -50 to 700°F (-46 to 371°C).

Construction Materials

Refer to Figures 3 & 4 for valve diagram. Refer to Table 8 for construction materials.

Dimensions

Valve and Actuator assembly diagram - Refer to Figure 2. Valve and Actuator assembly dimensions - Refer to Tables 3 - 7.

Flow Direction

Typically up through seat ring and out past valve plug.

Flow Characteristic

Dyna-Form Equal Percent

Dyna-Flute 1 Flute (Equal Percent) Dyna-Flute 3 Flute (Equal Percent)

Port, Yoke Boss Diameter, Stem Diameters, and Travel

Refer to Table 11.

Valve Sizing Coefficients

For standard coefficients at maximum travel, refer to Tables 12 & 13. For full list of coefficients refer to document P-CVSM.

Valve Body and Actuator

Approximate Weights - Refer to Table 2.

Options

- · Trim in Tungsten Carbide.
- Anti-corrosion coating of internal body passage.
- Live loaded low emission packing.

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

P-2000B0524

Technical Sales Bulletin



Valve Size	Body Type	Class≎	Temp	erature	Maximun	Maximum Pressure	
			°F	°C	Psi	bar	
		3750 Psig (259 bar)	100	38	3,750	259	
	NPT	(1500 ASME)	450	232	3,425	236	
		6250 Psig (431 bar)	100	38	6,250	431	
		(2500 ASME) (2" Body Only)	450	232	5,710	394	
[Flanged	150 ASME	100	38	290	20	
			450	232	185	13	
1 and 2 Inch		300 ASME	100	38	750	52	
			450	232	685	47	
		Flanged 600 ASME	100	38	1,500	103	
			450	232	1,370	94	
		1500 ACM5	100	38	3,750	259	
		1500 ASME	450	232	3,425	236	
		2500 ASME	100	38	6,250	431	
		(2" Body Only)	450	232	5,710	394	

ı	
۱	Approximate Valve Body and Standard Actuator Assembly Weights - Pounds (Kilograms)

Table 2

DF2000	Valve Only	DFC [DFO] 1069	DFC [DFO] 2069	DFC [DFO] 2105	DFC [DFO] 2156
1 Inch NPT	25 (11)	73 (33) [65 (29)]	N/A	N/A	N/A
1 Inch 150 to 600	45 (20)	93 (42) [85 (39)]	N/A	N/A	N/A
1 Inch 900/1500	75 (34)	123 (56) [115 (52)]	N/A	N/A	N/A
2 Inch NPT	75 (34)	N/A	125 (57) [126 (57)]	165 (75) [157 (71)]	196 (89) [182 (83)]
2 Inch 150 to 600	95 (43)	N/A	145 (66) [146 (66)]	185 (84) [177 (80)]	216 (98) [202 (92)]
2 Inch 900/1500	115 (52)	N/A	165 (75) [166 (75)]	205 (93) [197 (89)]	236 (107) [222 (101)]
2 Inch 2500	115 (52)	N/A	165 (75) [166 (75)]	205 (93) [197 (89)]	236 (107) [222 (101)]

Toll Free: 1 • 866 • 396 • 2356

Phone: 780 • 469 • 4000



Phone: 780 • 469 • 4000

Technical Sales Bulletin

DF2000 Globe Boo	dy Dimensions - Inch (mm)		
Valve Size	End Connection	A	C
	NPT ASME 1500	6.62 (168)	1.81 (46)
	150# RF	8.12 (206)	1.81 (46)
	300# RF	8.62 (219)	1.81 (46)
1 Inch	300# RTJ	9.12 (232)	1.81 (46)
1 Inch	600# RF	9.12 (232)	1.81 (46)
	600# RTJ	9.12 (232)	1.81 (46)
	900# and 1500# RF	10.00 (254)	1.81 (46)
	900# and 1500# RTJ	10.00 (254)	1.81 (46)
	NPT ASME 1500	9.00 (229)	1.81 (46)
	NPT ASME 2500	10.50 (267)	3.25 (83)
	150# RF	10.50 (267)	2.75 (70)
	300# RF	10.50 (267)	2.75 (70)
2.7	600# RF	11.25 (286)	2.75 (70)
2 Inch	600# RTJ	11.38 (289)	2.75 (70)
	900# and 1500# RF	12.12 (308)	2.75 (70)
	900# and 1500# RTJ	12.25 (311)	2.75 (70)
	2500# RF	15.38 (391)	3.25 (83)
	2500# RTJ	15.50 (394)	3.25 (83)
	150# RF	11.75 (299)	2.75 (70)
	150# RTJ	12.25 (311)	2.75 (70)
	300# RF	12.50 (318)	2.75 (70)
	300# RTJ	13.12 (333)	2.75 (70)
	600# RF	13.25 (337)	2.75 (70)
2 Inch V 2 Inch	600# RTJ	13.38 (340)	2.75 (70)
3 Inch X 2 Inch	900# RF	17.38 (441)	2.75 (70)
	900# RTJ	17.50 (445)	2.75 (70)
	1500# RF	18.13 (461)	2.75 (70)
	1500# RTJ	18.25 (464)	2.75 (70)
	2500# RF	19.62 (498)	3.25 (83)
	2500# RTJ	19.88 (505)	3.25 (83)

Curtiss-Wright Flow Control Company Canada, doing business as Dyna-Flo Control Valve Services ____

Toll Free: 1 • 866 • 396 • 2356

Technical Sales Bulletin



el DF2000 Globe Body	y Dimensions - Inch (mm)		Table 3 - Cont
Valve Size	End Connection	Α	С
	150# RF	13.88 (353)	2.75 (70)
	150# RTJ	14.38 (365)	2.75 (70)
	300# RF	14.50 (368)	2.75 (70)
	300# RTJ	15.12 (384)	2.75 (70)
	600# RF	15.50 (394)	2.75 (70)
4 Inch X 2 Inch	600# RTJ	15.62 (397)	2.75 (70)
4 Inch X 2 Inch	900# RF	20.12 (511)	2.75 (70)
	900# RTJ	20.25 (514)	2.75 (70)
	1500# RF	20.88 (530)	2.75 (70)
	1500# RTJ	21.00 (533)	2.75 (70)
	2500# RF	22.62 (575)	3.25 (83)
	2500# RTJ	23.00 (584)	3.25 (83)

Table Globe Body Valve Dimensions (Refer to Figure 3)							
Valve B							
Sino (Inch)	End Connection	9	Stem Diameter inch (mm	າ)			
Size (Inch)	(ASME Class)	3/8 (9.5)	1/2 (12.7)	3/4 (19.1)			
1	NPT (1500)	6.80 (173)	7.19 (183)				
2	NPT (1500 & 2500)		8.53 (217)	8.25 (210)			
1	RF & RTJ (150-600)	6.80 (173)	7.19 (183)				
2	RF & RTJ (150-600)		8.53 (217)	8.25 (210)			
1	RF & RTJ (900-1500)	6.80 (172)	7.19 (183)				
2	RF & RTJ (900-1500)		8.53 (217)	8.25 (210)			
2	RF & RTJ (2500)		8.53 (217)	8.25 (210)			

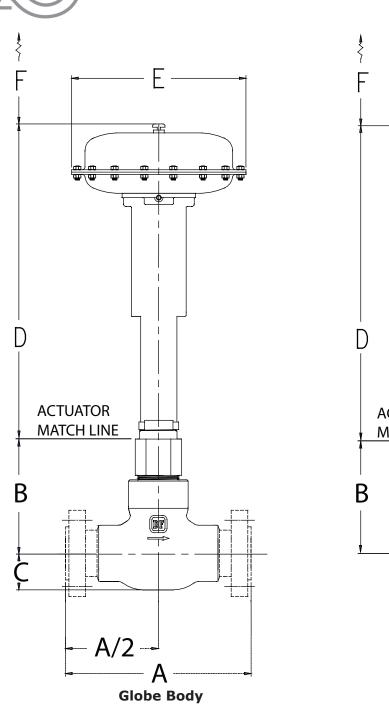
Toll Free: 1 • 866 • 396 • 2356

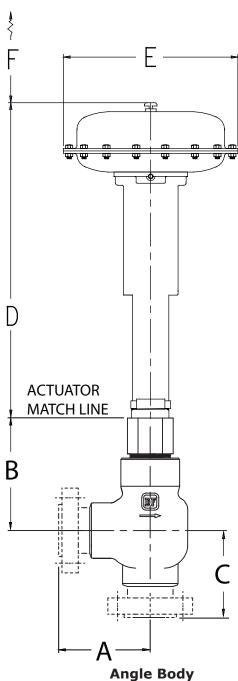
Curtiss-Wright Flow Control Company Canada, doing business as Dyna-Flo Control Valve Services ____

Phone: 780 • 469 • 4000

P-2000B0524A **5**

Technical Sales Bulletin





Note: Valve with or without flanges. Model DFC Actuator Shown

Figure 2 Valve Actuator Schematic (Refer to Tables 13-17)

Technical Sales Bulletin



			Tal
gle Body Dimen	sions - Inch (mm)		
Valve Size	End Connection	A	С
	NPT ASME 1500	3.00 (76)	3.50 (89)
	300# RF	4.31 (109)	4.31 (109)
	300# RTJ	4.56 (116)	4.56 (116)
1 Inch	600# RF	4.56 (116)	4.56 (116)
	600# RTJ	4.56 (116)	4.56 (116)
	900# and 1500# RF	5.00 (127)	5.00 (127)
	900# and 1500# RTJ	5.00 (127)	5.00 (127)
	NPT ASME 1500	4.00 (102)	4.88 (124)
	NPT ASME 2500	4.50 (114)	5.12 (130)
	300# RF	6.12 (155)	6.12 (155)
	300# RTJ	6.44 (164)	6.44 (164)
2 To als	600# RF	6.50 (165)	6.50 (165)
2 Inch	600# RTJ	6.56 (167)	6.56 (167)
	900# and 1500# RF	7.00 (178)	7.00 (178)
	900# and 1500# RTJ	7.06 (179)	7.06 (179)
	2500# RF	7.69 (195)	7.69 (195)
	2500# RTJ	7.75 (197)	7.75 (197)
er to Figure 3 Val	ve Actuator Schematic	,	

Table 6 Angle Body Valve Dimensions (Refer to Figure 3)							
v							
Size (inch)	End Connection		Stem Diameter inch (mm)			
Size (inch)	(ASME Class)	3/8 (9.5)	1/2 (12.7)	3/4 (19.1)			
1	NPT (1500)	5.25 (133)	6.00 (152)	5.50 (140)			
2	NPT (1500 & 2500)		6.38 (162)	6.19 (157)			
1	RF & RTJ (150-600)	5.31 (135)	6.06 (154)	5.56 (141)			
2	RF & RTJ (150-600)		6.44 (164)	6.25 (159)			
1	RF & RTJ (900-1500)	5.31 (135)	6.06 (154)	5.56 (141)			
2	RF & RTJ (900-1500)		6.44 (164)	6.25 (159)			
2	RF & RTJ (2500)		6.44 (164)	6.25 (159)			

Phone: 780 • 469 • 4000

Toll Free: 1 • 866 • 396 • 2356 Website: www.cw-dynaflo.com



Technical Sales Bulletin

Tab Model DFC and DFO Outline Dimensions - Inch (mm)							
Actuator Size		D	E	F			
	DFC	DFO					
1069	22.68 (576)	19.25 (489)	13.12 (333)	5.00 (127)			
2069	23.38 (594)	21.20 (538)	13.12 (333)	6.88 (175)			
2105	30.25 (768)	25.72 (653)	16.00 (406)	6.88 (175)			
2156	30.25 (768)	25.72 (653)	18.62 (473)	6.88 (175)			
3105	30.91 (785)	28.10 (714)	16.00 (406)	9.12 (232)			
3156	30.91 (785)	28.10 (714)	18.62 (473)	9.12 (232)			
3220	36.48 (927)	32.69 (830)	21.10 (536)	9.12 (232)			

		Table 8		
Model DF2000 Standard Construction Mater Description	1	aterial		
Body	LCC	CF8M (Optional)		
Flanges	A350-LF2	A182-F316 (Optional)		
Ponnet 9. Bushing Assembly	LCC (A	\350-LF2*)		
Bonnet & Bushing Assembly	A18	32-F316		
Bushing	S1740	00 DH1150		
Bonnet Gasket	S	30400		
Lower Wiper		PTFE		
Packing Box Ring	S3	1600**		
Packing Set (2 Required)		PTFE		
Packing Spacer	S3	S31600**		
Packing Follower	S3	1600**		
Packing Flange	Plat	ed Steel		
Stem Wiper		Felt		
Packing Nut (2 Required)		2H		
Packing Stud (2 Required)		B7		
Yoke Nut	Zinc P	Zinc Plated Steel		
Seat Ring Gasket	S	30400		
Seat Ring*	S31600)** / Alloy 6		
Plug & Stem Assembly*	S31600** /	Alloy 6 & S20910		

^{*}Dyna-Flo reserves the right to substitute a cast material with the forged bar equivalent in the event a casting is not available.

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

Technical Sales Bulletin



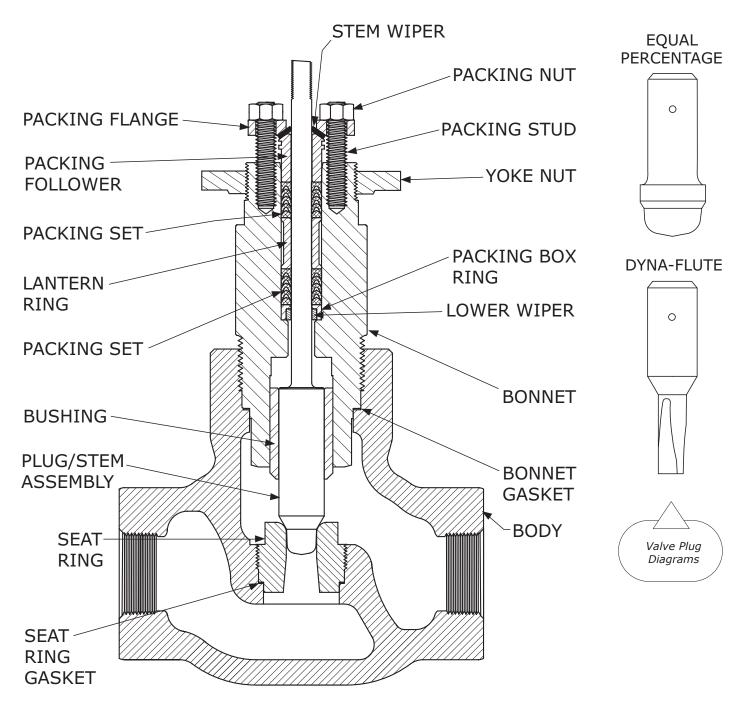


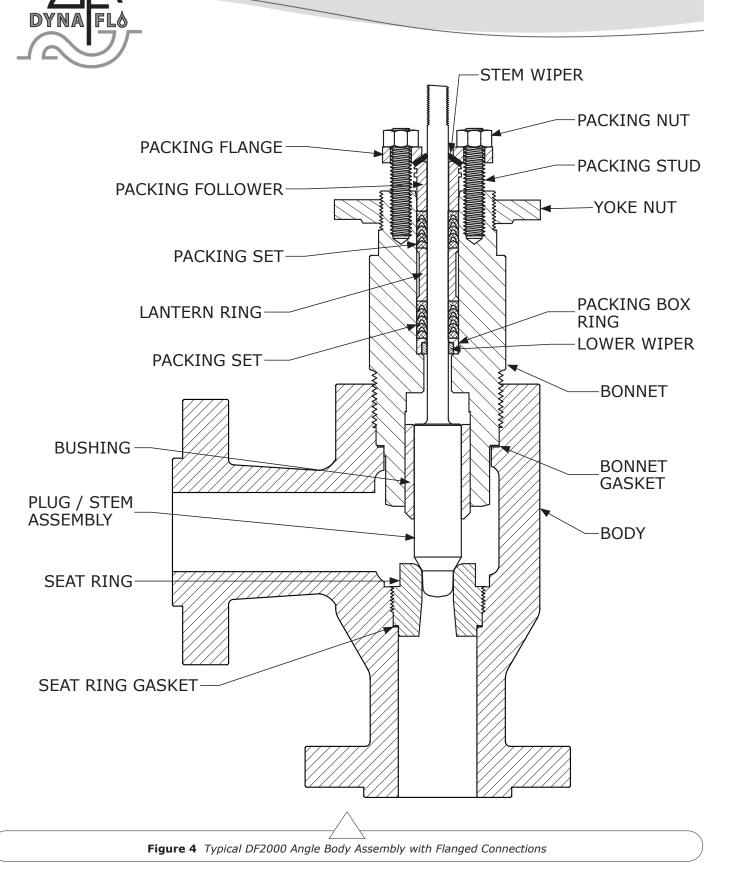
Figure 3 Typical DF2000 Globe Body Assembly with NPT Connections

Curtiss-Wright Flow Control Company Canada, doing business as Dyna-Flo Control Valve Services _

Phone: 780 • 469 • 4000

P-2000B0524A

Technical Sales Bulletin



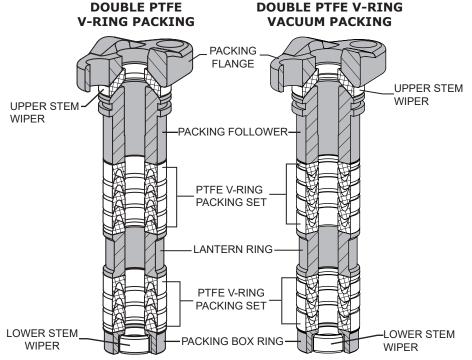
Curtiss-Wright Flow Control Company Canada, doing business as Dyna-Flo Control Valve Services

P-2000B0524A

Phone: 780 • 469 • 4000 Toll Free: 1 • 866 • 396 • 2356 Website: www.cw-dynaflo.com

Technical Sales Bulletin





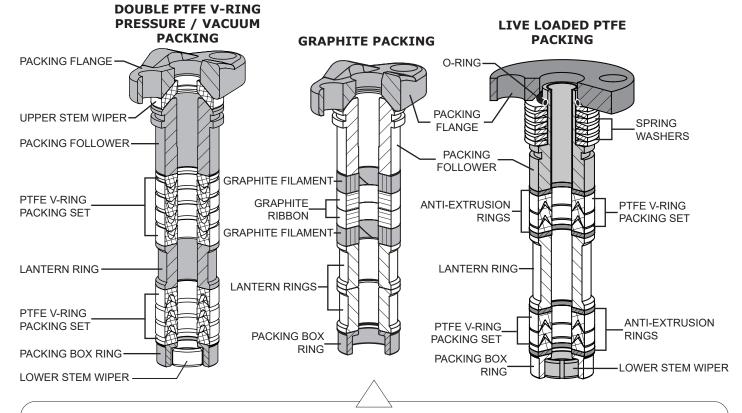


Figure 5 Typical Packing Arrangements

Curtiss-Wright Flow Control Company Canada, doing business as Dyna-Flo Control Valve Services _

P-2000B0524A

Phone: 780 • 469 • 4000 Toll Free: 1 • 866 • 396 • 2356 Website: www.cw-dynaflo.com





Table 9

Fail Closed Actuator Maximum Shut-off Capabilities with 6 to 30 psig Signal, 35 Psig Supply

1 Inch Valve

Port Size Inch (mm)	DFC Size 1069 Psig (bar)
1/4 (6.4)	3,750 (259)¹
3/8 (9.5)	3,750 (259)¹
1/2 (12.7)	3,750 (259)²
3/4 (19.1)	2,450 (169)⁴

2 Inch Valve

Port Size Inch (mm)	DFC Size 2069 Psig (bar)	DFC Size 2105 Psig (bar)	DFC Size 2156 Psig (bar)	DFC Size 3220 Psig (bar)
1/4 (6.4)	6,250 (431)²	6,250 (431)¹	6,250 (431)¹	-
3/8 (9.5)	6,250 (431)²	6,250 (431)¹	6,250 (431)¹	-
1/2 (12.7)	5,750 (396)4	6,250 (431)³	6,250 (431)³	-
3/4 (19.1)	2,400 (165)4	4,100 (283)5	6,250 (431) ⁶	-
1 (25.4)	1,325 (91)⁴	2,685 (185) ⁷	3,900 (269) ⁶	5,850 (403)7
1-1/4 (31.8)	820 (57) 4	1,689 (116)7	2,474 (171) ⁶	3,655 (252) ⁷

NOTE - All the above actuator fail closed shut-off capabilities are Class IV. A higher shut-off may be achieved by using a higher bench set, contact your Dyna-Flo sales office for additional information.

Bench Set	Psi (bar)
1	10 - 30 (0.69 - 2.07)
2	14 - 30 (0.97 - 2.07)
3	17 - 30 (1.17 - 2.07)
4	18 - 30 (1.24 - 2.07)
5	19 - 30 (1.31 - 2.07)
6	21 - 30 (1.45 - 2.07)
7	22 - 30 (1.52 - 2.07)

Curtiss-Wright Flow Control Company Canada, doing business as Dyna-Flo Control Valve Services ____ Phone: 780 • 469 • 4000 Toll Free: 1 • 866 • 396 • 2356 Website: www.cw-dynaflo.com

Technical Sales Bulletin



Table 10

Fail Open Actuator Maximum Shut-off Capabilities with 6 to 30 psig Signal, 35 Psig Supply

1 Inch Valve

Port Size Inch (mm)	DFO Size 1069 Psig (bar)
1/4 (6.4)	3,750 (259)¹
3/8 (9.5)	3,750 (259)²
1/2 (12.7)	3,750 (259)⁴
3/4 (19.1)	2,625 (181) ⁶

2 Inch Valve

Port Size Inch (mm)	DFO Size 2069 Psig (bar)	DFO Size 2105 Psig (bar)	DFO Size 2156 Psig (bar)	DFO Size 3220 Psig (bar)
1/4 (6.4)	6,250 (431)²	6,250 (431)²	6,250 (431)³	_
3/8 (9.5)	6,250 (431)4	6,250 (431)³	6,250 (431)³	_
1/2 (12.7)	3,750 (259)4	6,250 (431)³	6,250 (431)³	_
3/4 (19.1)	1,950 (134)4	4,100 (283)6	5,700 (393) ⁵	6,250 (431)6
1 (25.4)	1,050 (72)4	2,285 (158)6	3,300 (228)5	5,020 (346)6
1-1/4 (31.8)	650 (45)⁴	1,425 (98)6	2,090 (144)5	3,175 (219)6

NOTE - All the above actuator fail open shut-off capabilities are Class IV. A higher shut-off may be achieved by using a higher bench set, contact your Dyna-Flo sales office for additional information.

Bench Set	Psi (bar)
1	6 - 26 (0.41 - 1.79)
2	6 - 22 (0.41 - 1.52)
3	6 - 19 (0.41 - 1.31)
4	6 - 18 (0.41 - 1.24)
5	6 - 15 (0.41 - 1.03)
6	6 - 14 (0.41 - 0.97)

Phone: 780 • 469 • 4000 Toll Free: 1 • 866 • 396 • 2356 Website: www.cw-dynaflo.com



Technical Sales Bulletin

Table 11

Table 12

Port Size, Yoke Boss Diameter, Stem Diameters, and Rated Travel - Inch (mm)

		Standard Inch (mm)			Optional Inch (mm)		
Valve Size	Port Diameter Inch (mm)	Yoke Boss Stem Rated Diameter Diameter Travel		Yoke Boss Diameters	Stem Diameter	Rated Travel	
	1/4 (6.4)		3/8 (9.5)	3/4 (19)	2-13/16 (71)	1/2 (12.7)	3/4 (19.1)
1 Inch	3/8 (9.5)	2-1/8 (54)					
1 IIICII	1/2 (12.7)	2-1/6 (34)					
	3/4 (19.1)						
	1/4 (6.4)		1/2 (12.7)	3/4 (19)	3-9/16 (90)	3/4 (19)	3/4 (19.1)
	3/8 (9.5)						
2 Inch	1/2 (12.7)	2 12/16 (71)					
2 IIICII	3/4 (19.1)	2-13/16 (71)					
	1 (25.4)						
	1-1/4 (31.8)						

MAXIMUM SIZING COEFFICIENTS

FULL PORT EQUAL PERCENTAGE CHARACTERISTIC GLOBE BODY VALVE FLOW UP

Valve Size	Port	Coefficient	Percentage of Valve Travel			
Inches	Inches (mm)	Coefficient	100%			
	1/4 (6.4)	C_V	1.64			
1	3/8 (9.5)	C_V	4.03			
1	1/2 (12.7)	C _V	6.50			
	3/4 (19.1)	C_V	12.2			
	1/4 (6.4)	C_V	1.64			
	3/8 (9.5)	C_V	4.03			
2	1/2 (12.7)	C_V	6.82			
2	3/4 (19.1)	C_V	14.0			
	1 (25.4)	C_V	23.7			
	1-1/4 (31.8)	C _V	34.5			

NOTE: For the complete list of sizing coefficients refer to catalogue P-CVSM.

Curtiss-Wright Flow Control Company Canada, doing business as Dyna-Flo Control Valve Services ___ Phone: 780 • 469 • 4000 Toll Free: 1 • 866 • 396 • 2356 Website: www.cw-dynaflo.com

Technical Sales Bulletin



Table 13

MAXIMUM SIZING COEFFICIENTS **FULL PORT EQUAL PERCENTAGE CHARACTERISTIC ANGLE BODY VALVE** FLOW UP

Valve Size	Port	Coefficient	Percentage of Valve Travel			
Inches	Inches (mm)		100%			
	1/4 (6.4)	C _V	1.65			
1	3/8 (9.5)	C _V	4.04			
1	1/2 (12.7)	C _V	6.50			
	3/4 (19.1)	C _V	12.4			
	1/4 (6.4)	C _V	1.65			
	3/8 (9.5)	C _V	4.05			
2	1/2 (12.7)	C _V	6.80			
2	3/4 (19.1)	C _V	14.1			
	1 (25.4)	C _V	23.5			
	1-1/4 (31.8)	C _V	34.5			

NOTE: For the complete list of sizing coefficients refer to catalogue P-CVSM.

Our Commitment to Quality

Curtiss-Wright Flow Control Company Canada is committed to continuous improvement. While all efforts have been made to ensure the accuracy of the content in this document, modifications or improvements to the information, specifications, and designs may occur at any time without notice. This document was published for informational purposes only, and does not express or imply suitability, a warranty,

or guarantee regarding the products or services described herein or their use or applicability.

Neither Curtiss-Wright Flow Control Company, nor any of their affiliated entities assumes responsibility for the selection, use and maintenance of any product. Responsibility for selection, use and maintenance of any product remains with the purchaser and end-user.

Curtiss-Wright Flow Control Company Canada, doing business as Dyna-Flo Control Valve Services _ Phone: 780 • 469 • 4000 Toll Free: 1 • 866 • 396 • 2356 Website: www.cw-dynaflo.com





MODEL NUMBERING SYSTEM

SAMPLE PART NUMBER: DF2000-2AFL-S2J2-E4

									_
							BODY STYLE		1 111111111
-	GLOBE	Α	ANGLE						
							VALVE SIZE	2	1
1	1 INCH	2	2 INCH						
							ASME RATING		1
Α	150	В	300	С	600	D	900 / 1,500		
F	2,500	K	3" X 2" 150	Н	3" X 2" 300	I	3" X 2" 600		
J	3" X 2" 900	G	3" X 2" 1,500	M	3" X 2" 2,500	Q	4" X 2" 150	Α	
Р	4" X 2" 300	L	4" X 2" 600	R	4" X 2" 900	S	4" X 2" 1,500		1
Т	4" X 2" 2,500	Е	3,750 PSI CWP (NPT)	N	6,250 PSI CWP (NPT)				1
							END CONNECTION	F	1
F	RF	J	RTJ	N	NPT			Г	
							BODY MATERIAL	L	<u> </u>
L	LCC	М	CF8M					_	1
							TRIM	S	1
S	S31600 / ALLOY 6	Т	S31600 / TUNGSTEN (CARB	IDE			3	
							PORT SIZE		1
2	1/4"	3	3/8"	4	1/2"	6	3/4"	2	<u> </u>
8	1"	1	1-1/4"						1
							PACKING STYLE]
J	DOUBLE PTFE V-RING	(PRE	ESSURE)	L	LIVE LOADED PTFE (PI	RESS	URE)	J	
V	DOUBLE PTFE V-RING	G (VA	CUUM)	Т	T LIVE LOADED GRAPHITE (PRESSURE)		J		
R	DOUBLE PTFE V-RING	G (VA	CUUM / PRESSURE)	G	SINGLE GRAPHITE (PF	RESSU	JRE)		_
							YOKE BOSS SIZE	2	
1	2-1/8" (3/8" STEM)	2	2-13/16" (1/2" STEM)	3	3-9/16" (3/4" STEM)				1
							PAINT		
-	DFPS-01 (STANDARD			2	DFPS-02 (SEVERE SERVICE)				
3	DFPS-03 (HIGH TEMP	ERAT	URE)						_
							CHARACTERISTIC		
Е	DYNA-FORM (EQUAL								
F			UAL PERCENT) - FLOW	UP					
Т			UAL PERCENT) - FLOW					E	
D	,		CENT) - FLOW DOWN (A						
1					N (ANGLE VALVE ONLY)				
3	DYNA-FLUTE 3 FLUTE	E (EQ	UAL PERCENT) - FLOW	DOW	N (ANGLE VALVE ONLY)				1
		,	,				SHUT-OFF CLASS	4	
4	CLASS IV	5	CLASS V					-]

DF2000