

Fisher™ 8580 Rotary Valve

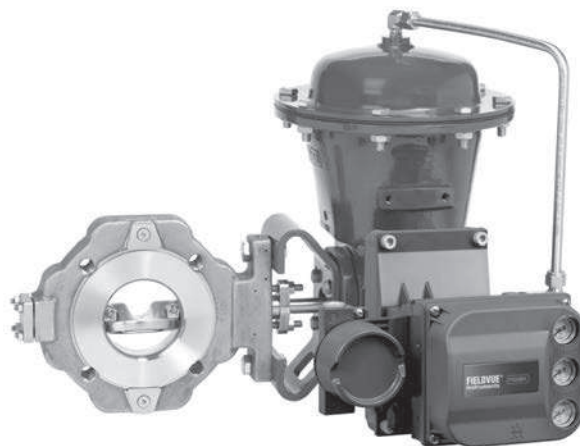
The Fisher 8580 rotary valve offers excellent throttling and automated on-off, quarter-turn performance. An approximately linear flow characteristic provides precise throttling control. The 8580 valve offers high cycle life and rugged reliability.

The valve body meets PN 10 through PN 40, CL150, and CL300 ratings. Face-to-face dimensions meet EN 558, API 609, and MSS-SP68 standards. Line centering clips provide for versatility to mount and align the same wafer style valve body in different piping configurations (ASME and EN ratings).

The 8580 rotary valve features an eccentrically-mounted disk with either soft or metal seal, providing capability for enhanced shutoff. The interchangeable sealing technology allows for the same valve body to accept both soft and metal seals.

8580 Features

- Approximately linear flow characteristic -- An approximately linear flow characteristic provides precise throttling control.
- Global Standards -- The valve meets API, ASME, and EN standards, making it suitable for use in all world areas. An optional mounting bracket provides ISO 5211 actuator mounting capability.
- PEEK/PTFE bearing as standard -- The PTFE-lined PEEK bearing is a low friction, low wear bearing. It allows the valve to operate under high pressure drops for a high cycle life while maintaining low torque. The “drop-in” bearing design enables fast, easy maintenance.
- Spline-ended Shaft -- The splined shaft with clamped lever and single-pivot linkage reduces lost motion between the actuator and the valve shaft.
- Quarter-turn performance -- The valve has an optional square shaft-to-actuator connection and offers automated on-off, quarter-turn performance with rack-and-pinion, spring-return and double-acting piston actuators.
- Improved shaft-disk pinning -- The improved expansion pin system ensures there is a positive, durable connection between disk and shaft. This



W9498-2

LUGGED STYLE
(NPS 3 through NPS 12)



WR9479

WAFER STYLE
(Limited sizes and pressure class)

connection reduces backlash and wear in the drive system, optimizing long-term performance. It also makes disassembly for maintenance quick and simple with no need for special tools.

- **New Spring-Loaded Shaft** -- The spring in the outboard shaft provides support to the drive train and disk, enabling the shaft to be installed in both horizontal and vertical orientations with no detriment to performance or cycle life. This complements the ability to mount the actuator on the left- or right-hand side, enabling access for any installation.
- **Excellent Emissions Capabilities** -- The optional ENVIRO-SEAL™ packing systems, are designed with very smooth shaft surfaces and live-loading to provide improved sealing, guiding, and loading force transmission. The seal of the ENVIRO-SEAL system can control emissions to below 100 ppm (parts per million).
- **Sour Service Capability** -- Trim and bolting materials are available for applications involving sour liquids and gases. These constructions comply with NACE MR0175-2002, MR0103, and MR0175 / ISO 15156.
- **Field-Reversible Valve Action** -- The actuator/valve assembly action can be converted from push-down-to-open to push-down-to-close, or vice versa, without additional parts.
- **Easy Installation** -- Line-centering clips engage the line flange bolts to simplify installation and provide for centering of wafer-style valves in the pipeline. End connections are compatible with EN and ASME standards.

- **Excellent Shutoff** -- Both the metal and soft seal rings have pressure-assisting sealing action that ensures tight shutoff regardless of pressure drop.
- **Long Seal Life** -- The opening and closing path of the eccentric disk minimizes disk contact with the seal ring, thereby reducing seal wear, undue friction, and seating torque requirements. See figure 2.
- **Reliable Flange Gasketing Surface** -- The seal retainer screws and retention clips are outside the gasket surface of the seal retainer. Spiral-wound or flat-sheet gaskets can be installed between the uninterrupted seal retainer face and the pipeline flange.
- **Integral Shaft-to-Valve Body Bonding** -- Standard valve construction includes conductive packing to provide electrical bonding for hazardous area applications.
- **Powder paint as standard** -- The Emerson Process Management™ powder paint finish offers an excellent corrosion-resistant finish to all steel parts.
- **High Temperature Capability** -- The valve will operate at elevated temperatures, with the appropriate trim components.
- **Shaft Retention** -- Redundant shaft retention provides added protection. The packing follower, anti-blowout ring, and shaft groove interact to hold the shaft securely in the valve body (see figure 1).
- **Travel Indication** -- Additional travel indication can be achieved by using the indication line on the shaft, along with the disk position markings on the packing follower (see figure 4).

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8580 Valve Specifications and Materials of Construction

Table 1. Fisher 8580 Valve Specifications

Specifications		EN	ASME
Valve Body Size		DN 50, 80, 100, 150, 200, 250, and 300	NPS 2, 3, 4, 6, 8, 10, and 12
Pressure Rating		PN 10 to 40 per EN 12516-1	CL150 / 300 per ASME B16.34, CL150-600 for NPS 2
Valve Body Materials		EN 1.0619 steel	WCC steel
		EN 1.4409 stainless steel	CF3M (316L) stainless steel
		LCC	LCC
		CW2M ⁽¹⁾	CW2M ⁽¹⁾
		M35-2 ⁽²⁾	M35-2
Disk Materials	PTFE or RPTFE ⁽⁴⁾ Seal	EN 1.4409 stainless steel	CF3M stainless steel
		CW2M	CW2M
		M35-2	M35-2
		Metal or UHMWPE ⁽³⁾ Seal	Chrome-plated EN 1.4409 Stainless Steel
End Connections		Mates with raised-face flanges per EN 1092-1	Mates with raised-face flanges per ASME B16.5
Valve Body Style		Wafer (flangeless) and lugged with tapped or through holes	
Face-to-Face Dimensions		Meets MSS SP68, API 609, and EN 558 standards	
Shutoff		PTFE, RPTFE, or UHMWPE seal ring - Class VI per ANSI/FCI 70-2 and IEC 60534-4	
		S31600 (316 SST) seal ring - Class IV per ANSI/FCI 70-2 and IEC 60534-4	
Flow Coefficients		See Fisher Catalog 12	
Flow Direction		Standard (forward flow) is with the seal retainer facing upstream; reverse flow is permissible for soft seals only	
Flow Characteristic		Approximately linear	
Disk Rotation		Counterclockwise to open (when viewed from actuator side of valve body) through 90 degrees of disk rotation	
Shaft Diameters and Approximate Weights		See table 7	
1. This material is not listed in EN 12516-1 or ASME B16.34. See figure 6 for pressure/temperature ratings. 2. This material is not listed in EN 12516-1. See figure 6 for pressure/temperature ratings. 3. UHMWPE stands for ultra high molecular weight polyethylene. 4. RPTFE is a reinforced PTFE seal.			

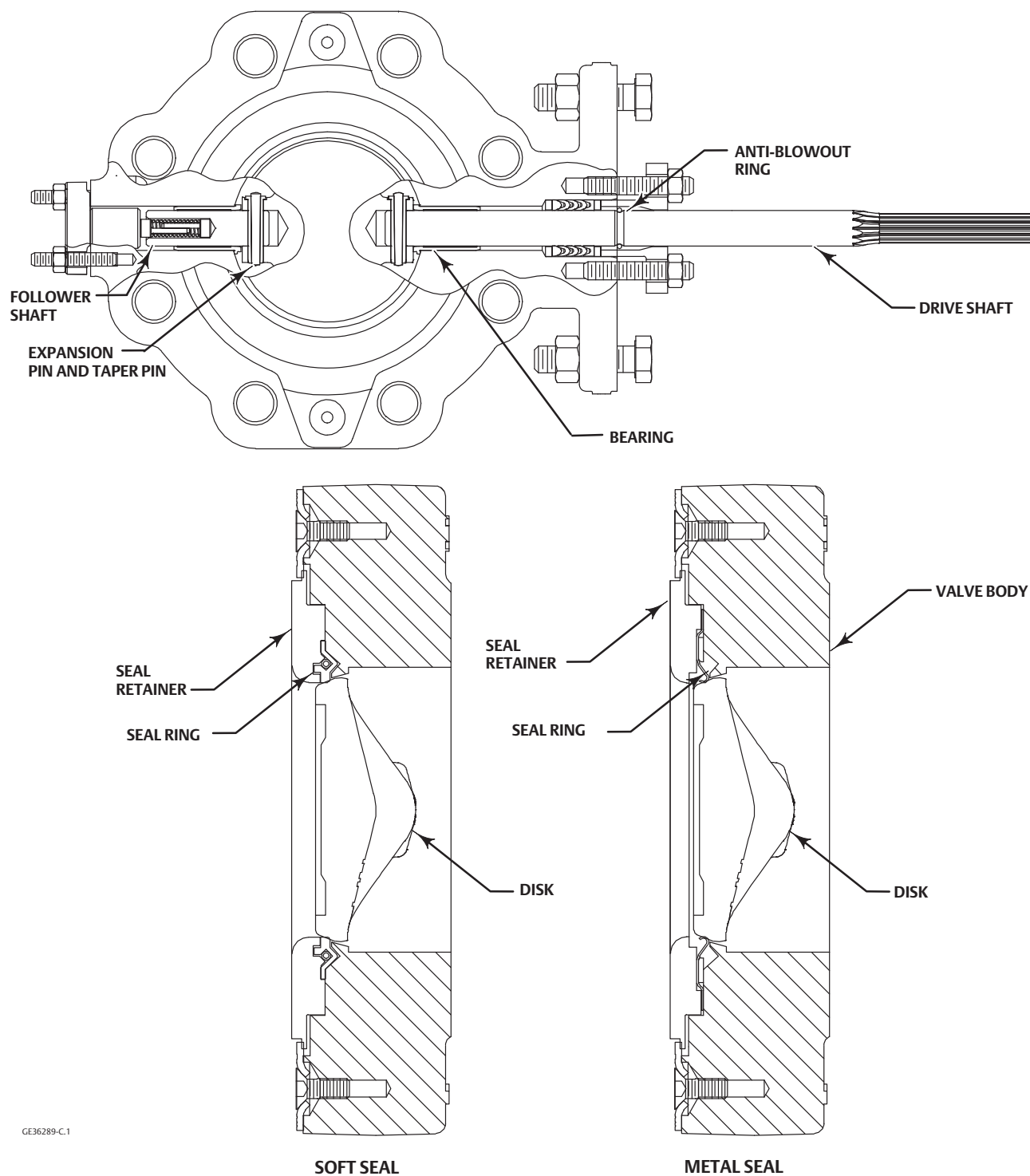
Table 2. Materials (Other Valve Components)

Component	Material
Shafts and Pins	S17400 (17-4PH) stainless steel, S20910 (XM-19) stainless steel, N10276, N05500
Anti-blowout Ring	N07718
Seal	PTFE, RPTFE, or UHMWPE with S31600 (316 stainless steel) or R30003 spring. Metal seal is 316 stainless steel with graphite gaskets
Bearings	PEEK/PTFE, R30006 (Alloy 6), S31600 Nitride
Packing	PTFE/carbon-filled PTFE (standard), graphite die-molded ribbon, ENVIRO-SEAL PTFE packing, ENVIRO-SEAL graphite packing
Follower Spring	N07718 with carbon-filled PEEK or S31600 spring seats
Bolting	B8M Class 2, B7M, N05500, N07718
Nuts	8M, 2HM, N04400, N10276

Table 3. Trim Combinations with Standard Construction Materials

Valve Body Material	Shaft Material	Disk Material	Bearings	Seal Material
1.0619 & WCC	S17400 H1075	1.4409 & CF3M	PEEK/PTFE	PTFE or RPTFE
		1.4409 & CF3M Chrome-Plated	PEEK/PTFE	UHMWPE or Metal
			Alloy 6 or S31600 Nitride	Metal
LCC	S17400 H1075	1.4409 & CF3M	PEEK/PTFE	PTFE
1.4409 & CF3M	S20910	1.4409 & CF3M	PEEK/PTFE	PTFE or RPTFE
		1.4409 & CF3M Chrome-Plated	PEEK/PTFE	UHMWPE or Metal
			Alloy 6 or S31600 Nitride	Metal
CW2M	N10276	CW2M	PEEK/PTFE	PTFE or RPTFE
M35-2	N05500	M35-2	PEEK/PTFE	PTFE or RPTFE

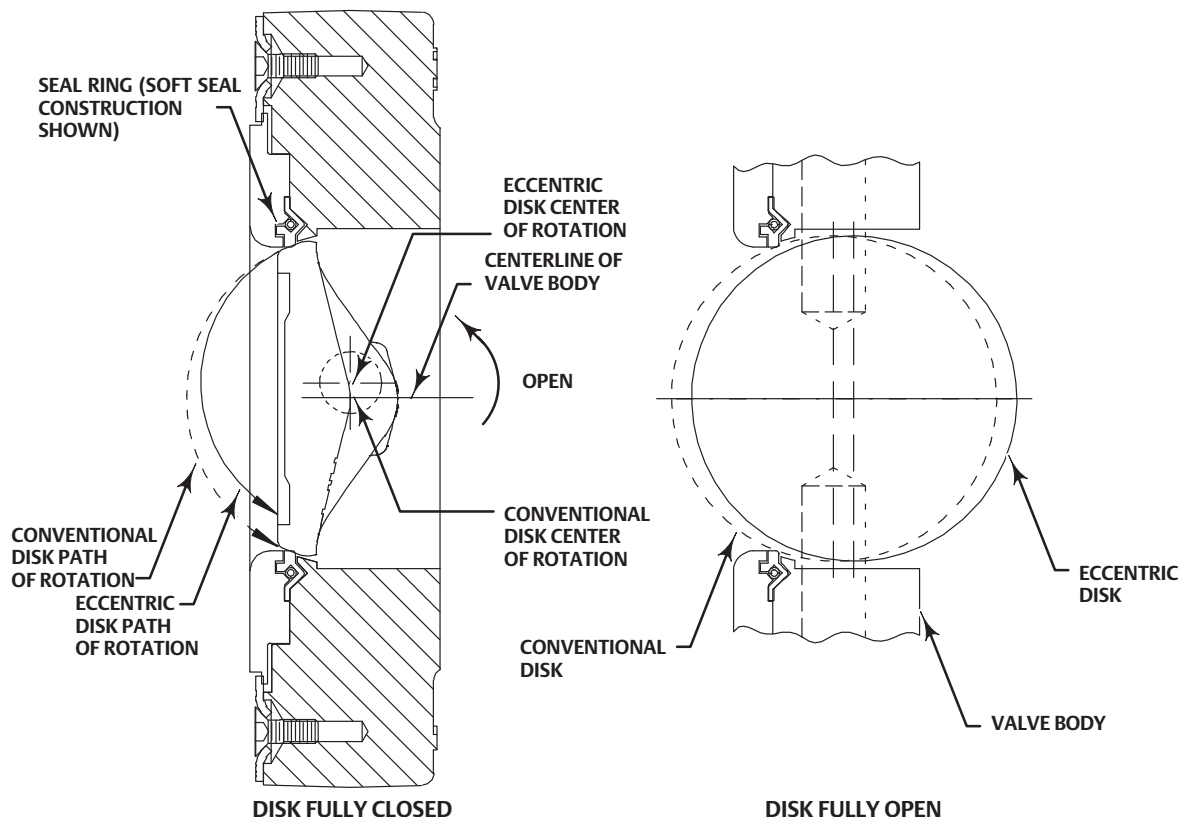
Figure 1. Typical Fisher 8580 Valve Construction Detail



GE36289-C.1

Note: Split shaft construction shown.

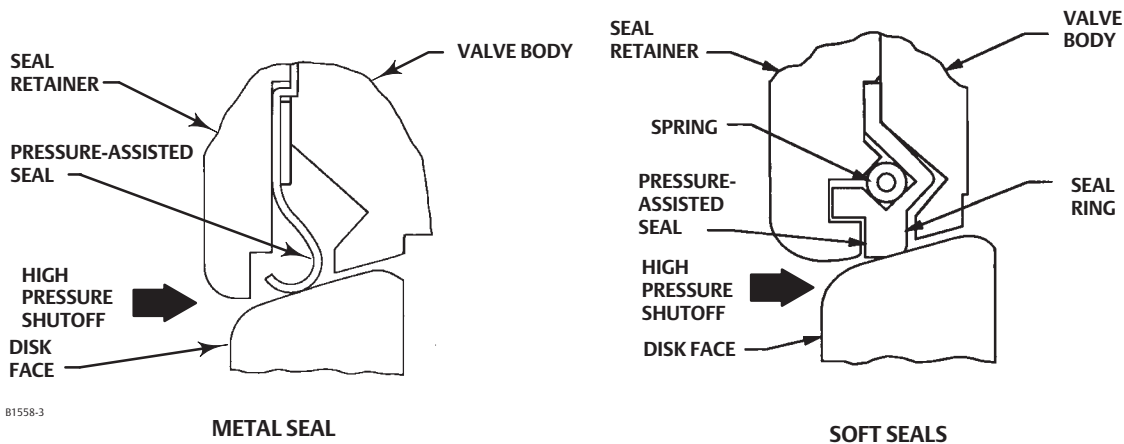
Figure 2. Comparison of Disk Action



GE36289-C.1

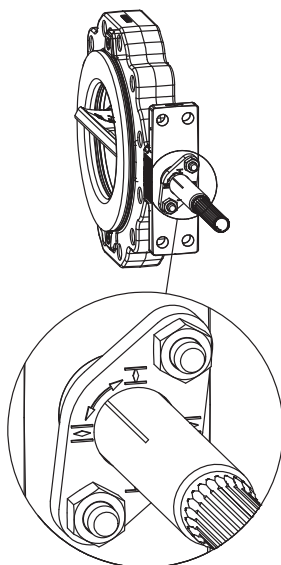
Note: Split shaft construction shown.

Figure 3. Available Seal Configuration



B1558-3

Figure 4. Travel Indication



GE36289-C.2

Table 4. Material Temperature Capabilities

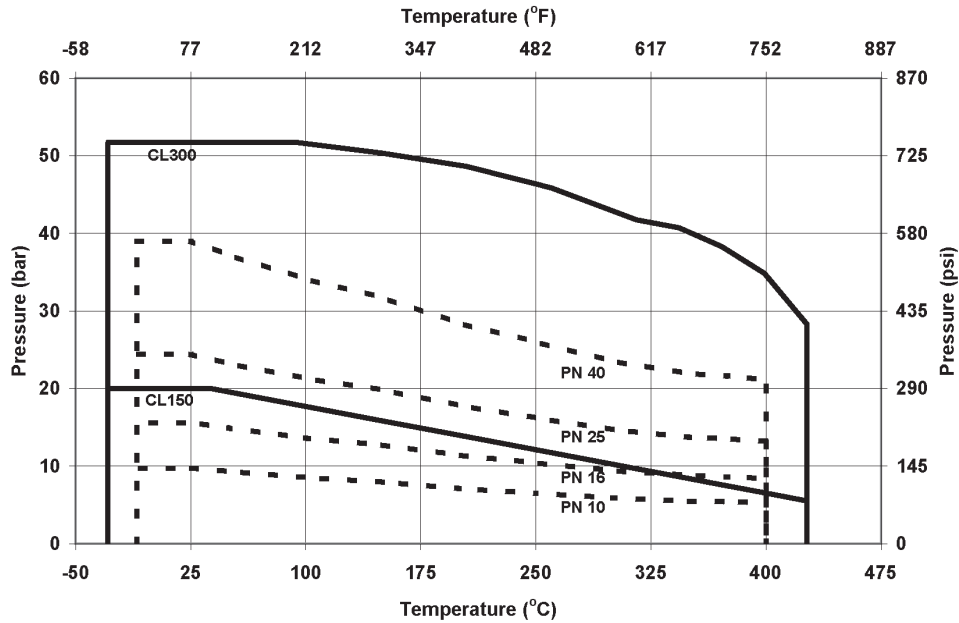
MATERIAL					TEMPERATURE LIMITS	
PN FLANGES						
Valve Body	Shaft	Bearing Lining and Jacket	Seal	Packing	°C	°F
1.0619 Steel	S17400 or S20910	PEEK / PTFE	PTFE or RPTFE	PTFE or Graphite	-10 to 232	14 to 450
			UHMWPE	PTFE or Graphite	-10 to 93	14 to 200
			Metal	PTFE	-10 to 232	14 to 450
		Graphite		-10 to 260	14 to 500	
		R30006 (Alloy 6) or S31600 Nitride	Metal	Graphite	-10 to 400	14 to 752
LCC	S17400 or S20910	PEEK / PTFE	PTFE	PTFE	-46 to 232	-50 to 450
1.4409 Stainless Steel	S20910	PEEK / PTFE	PTFE or RPTFE	PTFE or Graphite	-46 to 232	-50 to 450
			UHMWPE	PTFE or Graphite	-18 to 93	0 to 200
			Metal	PTFE	-46 to 232	-50 to 450
		Graphite		-46 to 260	-50 to 500	
		R30006 (Alloy 6) or S31600 Nitride	Metal	Graphite	-10 to 500 ⁽¹⁾	14 to 932 ⁽¹⁾
CW2M	N10276	PEEK / PTFE	PTFE or RPTFE	PTFE	-10 to 232	14 to 450
M35-2	N05500	PEEK / PTFE	PTFE or RPTFE	PTFE	-10 to 232	14 to 450
ASME FLANGES						
Valve Body	Shaft	Bearing Lining and Jacket	Seal	Packing	°C	°F
WCC steel	S17400 or S20910	PEEK / PTFE	PTFE or RPTFE	PTFE or Graphite	-29 to 232	-20 to 450
			UHMWPE	PTFE or Graphite	-18 to 93	0 to 200
			Metal	PTFE	-29 to 232	-20 to 450
		Graphite		-29 to 260	-20 to 500	
		R30006 (Alloy 6) or S31600 Nitride	Metal	Graphite	-29 to 427	-20 to 800
LCC	S17400 or S20910	PEEK / PTFE	PTFE	PTFE	-46 to 232	-50 to 450
CF3M Stainless Steel	S20910	PEEK / PTFE	PTFE or RPTFE	PTFE or Graphite	-46 to 232	-50 to 450
			UHMWPE	PTFE or Graphite	-18 to 93	0 to 200
			Metal	PTFE	-46 to 232	-50 to 450
		Graphite		-46 to 260	-50 to 500	
		R30006 (Alloy 6) or S31600 Nitride	Metal	Graphite	-46 to 454 ⁽¹⁾	-50 to 850 ⁽¹⁾
CW2M	N10276	PEEK / PTFE	PTFE or RPTFE	PTFE	-46 to 232	-50 to 450
M35-2	N05500	PEEK / PTFE	PTFE or RPTFE	PTFE	-46 to 232	-50 to 450
1. For applications exceeding 427°C (800°F), consult your Emerson Process Management sales office, for appropriate disk edge coating material selection.						

1. For applications exceeding 427°C (800°F), consult your [Emerson Process Management sales office](#), for appropriate disk edge coating material selection.



Figure 5. Material Pressure/Temperature Curves

Pressure-Temperature Chart for WCC/1.0619



Pressure-Temperature Chart for CF3M/1.4409

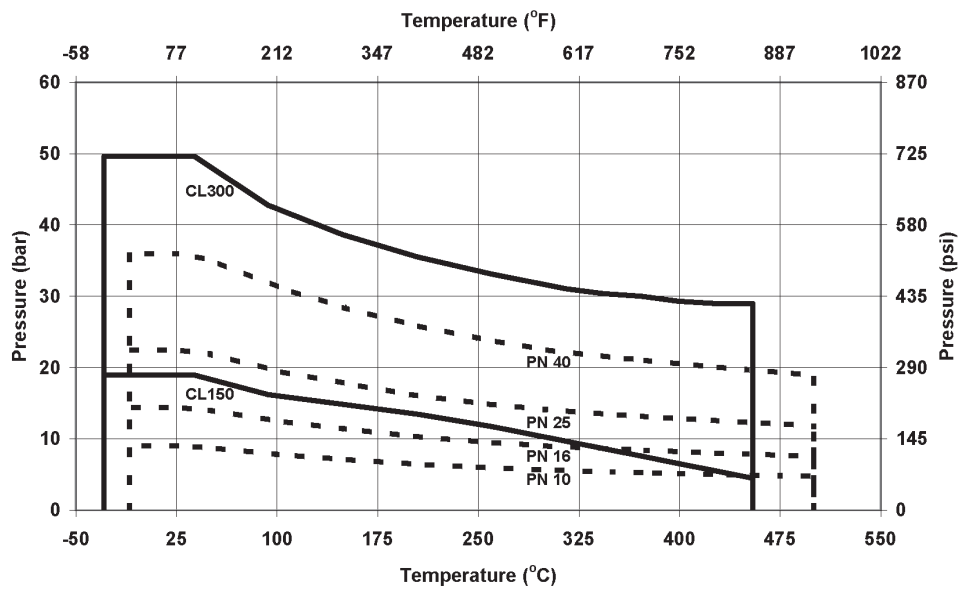
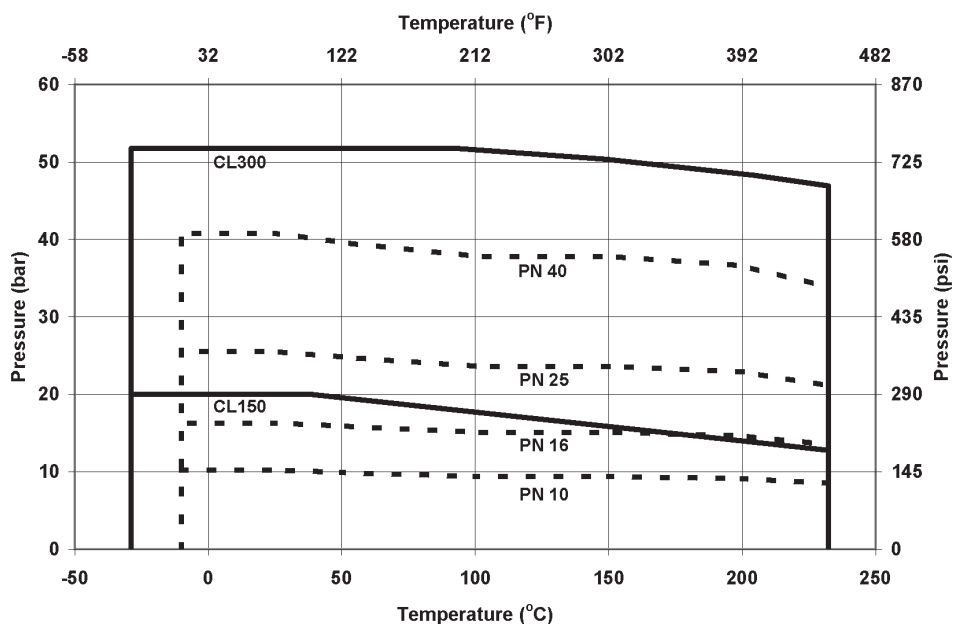
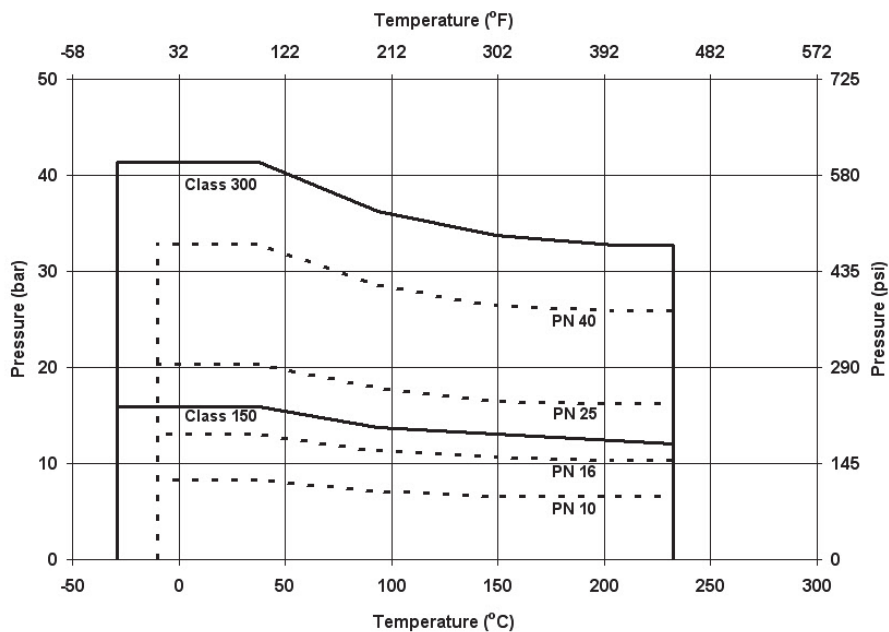


Figure 6. Material Pressure/Temperature Curves

Pressure-Temperature Chart for CW2M

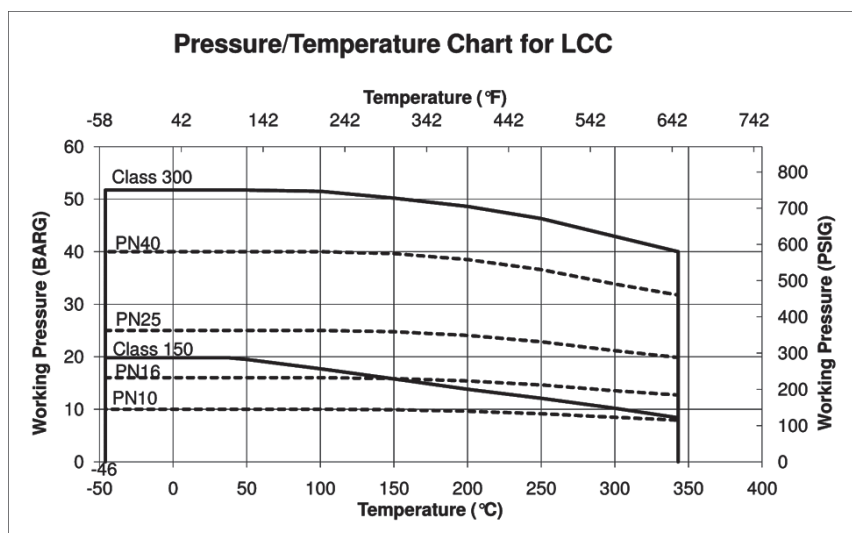


Pressure-Temperature Chart for M35-2



1. CW2M is not listed in EN 12516-1 or ASME B16.34. The PN and CL designations are used only to indicate relative pressure-retaining capabilities.
2. M35-2 is not listed in EN 12516-1. The PN designations are used only to indicate relative pressure-retaining capabilities.

Figure 7. Material Pressure/Temperature Curves



E1140

Table 5. Maximum Allowable Shutoff Pressure Drops based on Trim (Seal, Shaft, and Bearings), Bar

Note: Do not exceed the EN or ASME pressure/temperature rating of the valve or mating flanges.

TRIM	TEMPERATURE, °C	DN						
		50	80	100	150	200	250	300
		Bar						
PTFE or RPTFE Seal PEEK/PTFE Bearings	-46 to 65	51.7	51.7	51.7	51.7	51.7	51.7	51.7
	93	48.5	48.5	48.5	48.5	48.5	45.6	46.8
	121	38.6	38.6	38.6	38.6	38.6	38.6	38.6
	149	28.7	28.7	28.7	28.7	28.7	28.7	28.7
	191	13.8	13.8	13.8	13.8	13.8	13.8	13.8
	204	10.3	10.3	10.3	10.3	10.3	10.3	10.3
	232	3.4	3.4	3.4	3.4	3.4	3.4	3.4
UHMWPE Seal PEEK/PTFE Bearings	-17 to 37	51.7	51.7	51.7	51.7	51.7	51.7	51.7
	66	38.6	38.6	38.6	38.6	38.6	38.6	38.6
	93	25.9	25.9	25.9	25.9	25.9	25.9	25.9
Metal Seal ⁽¹⁾ Alloy 6 Bearings	-46 to 37	18.5	16.5	13.9	12.8	11.0	6.8	7.0
	93	17.0	15.1	12.8	11.7	10.1	6.3	6.5
	149	16.0	14.2	12.0	11.0	9.4	5.9	6.1
	204	15.1	13.4	11.4	10.4	9.0	5.6	5.7
	260	14.3	12.8	10.8	9.9	8.5	5.3	5.4
	316	13.8	12.3	10.3	9.5	8.2	5.1	5.2
	371	13.2	11.9	10.0	9.2	7.9	5.0	5.0
	427	12.5	11.6	9.8	9.0	7.7	4.8	5.0
	454	12.1	11.5	9.7	8.9	7.7	4.8	4.9
Metal Seal ⁽¹⁾ S31600/Nitride Bearings, Spline Shaft	-46 to 37	19.5	28.2	26.1	20.8	31.0	15.5	8.0
	93	19.3	28.0	26.0	20.6	31.0	15.4	7.9
	149	17.0	25.4	23.7	18.7	28.8	14.0	7.1
	204	15.9	24.3	22.7	17.8	26.3	13.3	6.8
	260	14.5	22.9	21.4	16.8	24.6	12.5	6.3
	316	13.8	22.1	20.8	16.2	23.2	12.1	6.1
	371	13.2	21.5	20.2	15.7	22.4	11.8	5.9
	427	12.5	20.7	19.5	15.2	21.8	11.4	5.6
	454	12.1	20.3	19.2	14.9	21.6	11.2	5.4
Metal Seal ⁽¹⁾ S31600/Nitride Bearings, Square Shaft	-46 to 37	19.5	22.4	26.1	20.8	27.6	12.8	8.0
	93	19.3	22.4	26.0	20.6	27.6	12.8	7.9
	149	17.0	22.4	23.7	18.7	27.6	12.8	7.1
	204	15.9	22.4	22.7	17.8	26.3	12.8	6.8
	260	14.5	22.4	21.4	16.8	24.6	12.5	6.3
	316	13.8	22.1	20.8	16.2	23.2	12.1	6.1
	371	13.2	21.5	20.2	15.7	22.4	11.8	5.9
	427	12.5	20.7	19.5	15.2	21.8	11.4	5.6
	454	12.1	20.3	19.2	14.9	21.6	11.2	5.4
Metal Seal ⁽¹⁾ PEEK/PTFE Bearings	-46 to 37	51.7	51.7	51.7	51.7	31.0	17.2	17.2
	93	51.7	51.7	51.7	51.7	31.0	17.2	17.2
	149	50.3	50.3	50.3	50.3	31.0	17.2	17.2
	204	48.6	48.6	48.6	48.2	31.0	17.2	17.2
	232	47.2	47.2	46.3	42.6	31.0	17.2	17.2
	260	24.7	21.9	18.5	17.0	14.6	9.1	9.4

1. Pressure drops shown for metal seals are for forward flow only.

Table 6. Maximum Allowable Shutoff Pressure Drops based on Trim (Seal, Shaft, and Bearings), Psi

Note: Do not exceed the EN or ASME pressure/temperature rating of the valve or mating flanges.

TRIM	TEMPERATURE, °F	NPS						
		2	3	4	6	8	10	12
		Psi						
PTFE or RPTFE Seal PEEK/PTFE Bearings	-50 to 150	750	750	750	750	750	750	750
	200	704	704	704	704	704	662	679
	250	560	560	560	560	560	560	560
	300	416	416	416	416	416	416	416
	375	200	200	200	200	200	200	200
	400	150	150	150	150	150	150	150
	450	50	50	50	50	50	50	50
UHMWPE Seal PEEK/PTFE Bearings	0 to 100	750	750	750	750	750	750	750
	150	560	560	560	560	560	560	560
	200	375	375	375	375	375	375	375
Metal Seal ⁽¹⁾ Alloy 6 Bearings	-50 to 100	268	239	202	185	159	99	102
	200	246	219	185	170	146	91	94
	300	232	206	174	160	137	86	88
	400	219	195	165	151	130	81	83
	500	208	186	157	144	124	77	79
	600	200	178	150	138	119	74	76
	700	192	172	145	134	115	72	73
	800	181	168	142	130	112	70	72
	850	176	167	141	129	111	69	71
Metal Seal ⁽¹⁾ S31600/Nitride Bearings, Spline Shaft	-50 to 100	283	409	379	301	450	225	116
	200	280	406	377	299	450	223	115
	300	246	369	344	271	417	203	103
	400	230	352	329	258	382	193	98
	500	211	332	311	243	357	182	91
	600	200	321	301	235	337	176	88
	700	192	312	293	228	325	171	85
	800	181	300	283	220	316	165	81
	850	176	295	278	216	313	162	79
Metal Seal ⁽¹⁾ S31600/Nitride Bearings, Square Shaft	-50 to 100	283	325	379	301	400	185	116
	200	280	325	377	299	400	185	115
	300	246	325	344	271	400	185	103
	400	230	325	329	258	382	185	98
	500	211	325	311	243	357	182	91
	600	200	321	301	235	337	176	88
	700	192	312	293	228	325	171	85
	800	181	300	283	220	316	165	81
	850	176	295	278	216	313	162	79
Metal Seal ⁽¹⁾ PEEK/PTFE Bearings	-50 to 100	750	750	750	750	450	250	250
	200	750	750	750	750	450	250	250
	300	730	730	730	730	450	250	250
	400	705	705	705	699	450	250	250
	450	685	685	672	618	450	250	250
	500	358	318	269	247	212	132	136

1. Pressure drops shown for metal seals are for forward flow only.

Table 7. Dimensions and Weights

Valve Size, Pressure Rating		A	E		F		G		K	R ⁽⁴⁾	S ⁽¹⁾	T	U	W	Approximate Weight ⁽²⁾		
			Splined	Square Shaft	Wafer	Lugged	Wafer	Lugged							Wafer	Lugged	
		mm															kg
DN50/ NPS 2	PN10-40/ CL150-300	43	187.5	74	150	---	109	---	125	102	12.7	117	---	14	4.7	6.7	
DN80/ NPS 3	PN10-40/ CL150-300	47/48 (3)	187.5	76	---	196	---	133	130	144	15.9	117	---	14	---	11.2	
DN100/ NPS 4	PN10-40/ CL150-300	53	214.4	103	---	226	---	147	172	162	19.1	152	32	14	---	17.6	
DN150/ NPS 6	PN10-40/ CL150-300	57	214.4	108	270	300	147	182	205	218	25.4	152	32	14	15.7	26.5	
DN200/ NPS 8	PN10-16/ CL150	61	208	107	---	342	---	225	258	278	31.8	235	46	18	---	40.9	
	PN25-40	61	208	107	358	364	225	225	258	291	31.8	235	46	18	34.6	46.7	
	CL300	73															
DN250/ NPS 10	PN10-16/ CL150	69	208	109	---	395	---	250	270	331	31.8	235	46	18	---	50.7	
	PN25-40	69	208	109	400	450	265	265	270	352	31.8	235	46	18	52.0	79.4	
	CL300	83															
DN300/ NPS 12	PN10-16/ CL150	78	208	114	---	467	---	309	304	381	38.1	235	46	18	---	98.6	
	PN25-40	78	208	114	---	512	---	309	304	410	38.1	235	46	18	---	104.9	
	CL300	92															
		Inches														lbs	
DN50/ NPS 2	PN10-40/ CL150-300	1.69	7.38	2.91	5.91	---	4.29	---	4.92	4.02	0.50	4.62	---	0.55	10	15	
DN80/ NPS 3	PN10-40/ CL150-300	1.85/ 1.89 (3)	7.38	2.99	---	7.72	---	5.24	5.12	5.67	0.63	4.62	---	0.55	---	25	
DN100/ NPS 4	PN10-40/ CL150-300	2.09	8.44	4.06	---	8.90	---	5.79	6.77	6.38	0.75	6.00	1.25	0.55	---	39	
DN150/ NPS 6	PN10-40/ CL150-300	2.24	8.44	4.25	10.63	11.81	5.79	7.17	8.07	8.58	1.00	6.00	1.25	0.55	35	58	
DN200/ NPS 8	PN10-16/ CL150	2.40	8.19	4.21	---	13.46	---	8.86	10.16	10.96	1.25	9.25	1.81	0.71	---	90	
	PN25-40	2.40	8.19	4.21	14.09	14.33	8.86	8.86	10.16	11.46	1.25	9.25	1.81	0.71	76	103	
	CL300	2.87															
DN250/ NPS 10	PN10-16/ CL150	2.72	8.19	4.29	---	15.55	---	9.84	10.63	13.03	1.25	9.25	1.81	0.71	---	112	
	PN25-40	2.72	8.19	4.29	15.75	17.72	10.43	10.43	10.63	13.86	1.25	9.25	1.81	0.71	115	175	
	CL300	3.27															
DN300/ NPS 12	PN10-16/ CL150	3.07	8.19	4.49	---	18.39	---	12.17	11.97	15.00	1.50	9.25	1.81	0.71	---	217	
	PN25-40	3.07	8.19	4.49	---	20.16	---	12.17	11.97	16.14	1.50	9.25	1.81	0.71	---	231	
	CL300	3.62															
1. This nominal valve shaft diameter is the shaft diameter through the packing box. Use this diameter when selecting Fisher actuators. 2. Valve assembly only. 3. 48 mm for CL150 and CL300 lugged only. 4. Dimension shown is seal retainer OD. Diameter for serrated gasket surface may be smaller.																	

Table 8. Line Bolting Dimensions

VALVE SIZE	Y					
	Pressure Rating					
	CL150	CL300	PN10	PN16	PN25	PN40
DN80 / NPS 3	4X 5/8-11	8X 3/4-10	8X M16X2			
DN100 / NPS 4	8X 5/8-11	8X 3/4-10	8X M16X2		8X M20X2.5	
DN150 / NPS 6	8X 3/4-10	12X 3/4-10	8X M20X2.5		8X M24X3 ⁽¹⁾	
DN200 / NPS 8	8X 3/4-10	12X 7/8-9	8X M20X2.5	12X M20X2.5	12X M24X3	12X M27X3 ⁽¹⁾
DN250 / NPS 10	12X 7/8-9	16X 1-8	12X M20X2.5	12X M24X3	12X M27X3	12X M30X3.5 ⁽¹⁾
DN300 / NPS 12	12X 7/8-9	16X 1-1/8-8	12X M20X2.5	12X M24X3	16X M27X3	16X M30X3.5

1. Not available in lugged with threaded holes.

Figure 8. Dimensions for Fisher 8580, Lugged Valve

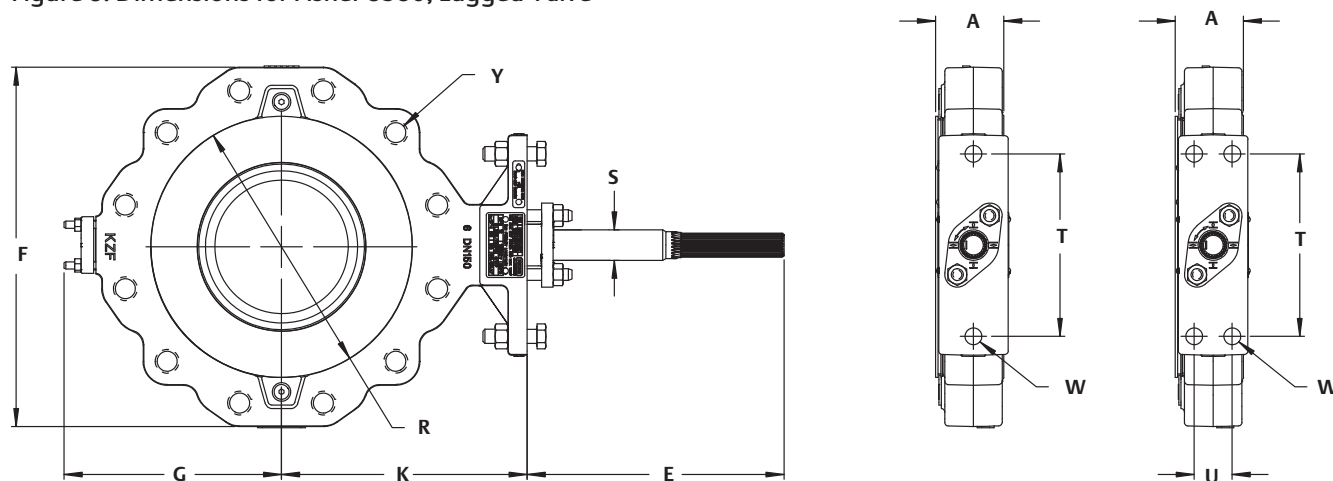


Figure 9. Dimensions for Fisher 8580, Wafer Style Valve (limited sizes)

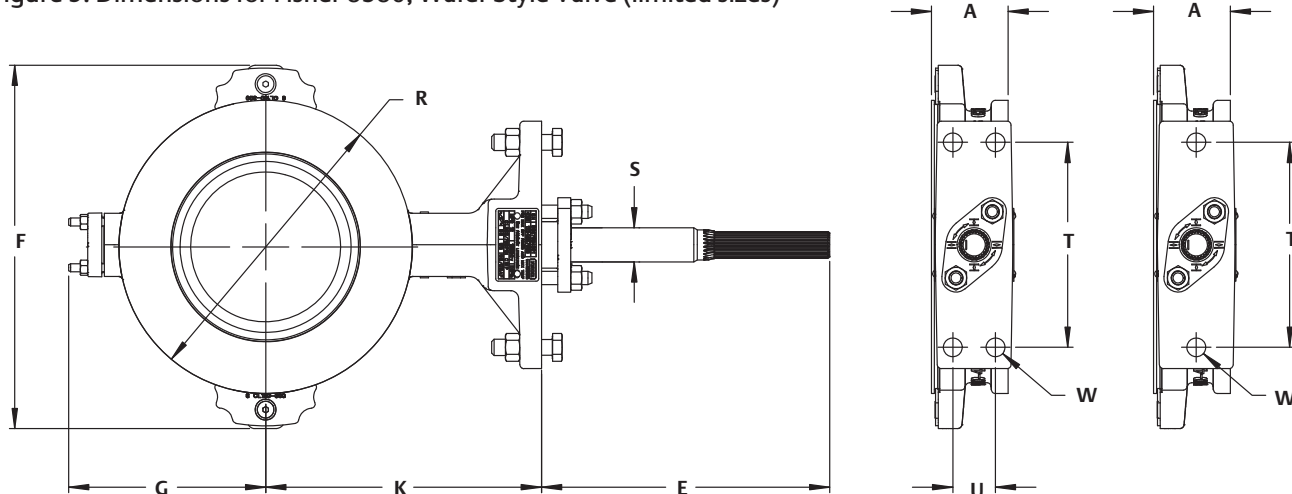
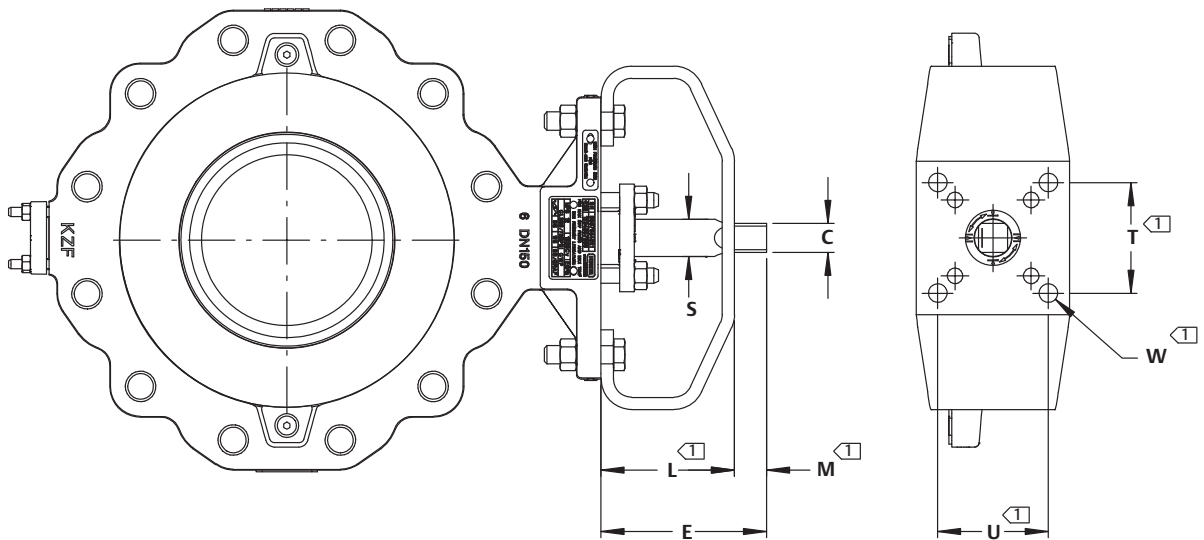


Table 9. Dimensions and Weights, Optional Square Shaft Mounting Bracket

VALVE SIZE / PRESSURE RATING		S ⁽¹⁾		C		E		L		M		T		U		W		ISO 5211
		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	
DN50/ NPS 2	PN10-40/ CL150-300	12.7	0.50	9	0.35	74	2.91	64	2.52	10	0.39	49.50	1.95	49.50	1.95	10	0.39	F07
												72.12	2.84	72.12	2.84	12	0.47	F10
DN80/ NPS 3	PN10-40/ CL150-300	15.9	0.63	11	0.43	76	2.99	64	2.52	12	0.47	49.50	1.95	49.50	1.95	10	0.39	F07
												72.12	2.84	72.12	2.84	12	0.47	F10
DN100/ NPS 4	PN10-40/ CL150-300	19.1	0.75	14	0.55	103	4.06	87	3.43	16	0.63	49.50	1.95	49.50	1.95	10	0.39	F07
												72.12	2.84	72.12	2.84	12	0.47	F10
												88.39	3.48	88.39	3.48	14	0.55	F12
DN150/ NPS 6	PN10-40/ CL150-300	25.4	1.00	19	0.75	108	4.25	87	3.43	21	0.82	49.50	1.95	49.50	1.95	10	0.39	F07
												72.12	2.84	72.12	2.84	12	0.47	F10
												88.39	3.48	88.39	3.48	14	0.55	F12
												99.00	3.90	99.00	3.90	18	0.71	F14
DN200/ NPS 8	PN10-40/ CL300	31.8	1.25	22	0.87	107	4.21	85	3.35	22	0.87	116.67	4.59	116.67	4.59	22	0.87	F16
												72.12	2.84	72.12	2.84	12	0.47	F10
												88.39	3.48	88.39	3.48	14	0.55	F12
												99.00	3.90	99.00	3.90	18	0.71	F14
DN250/ NPS 10	PN10-16/ CL150	31.8	1.25	22	0.87	109	4.29	85	3.35	24	0.94	116.67	4.59	116.67	4.59	22	0.87	F16
												72.12	2.84	72.12	2.84	12	0.47	F10
												88.39	3.48	88.39	3.48	14	0.55	F12
												99.00	3.90	99.00	3.90	18	0.71	F14
DN300/ NPS 12	PN10-16/ CL150	38.1	1.50	27	1.06	114	4.49	85	3.35	29	1.14	116.67	4.59	116.67	4.59	22	0.87	F16
												72.12	2.84	72.12	2.84	12	0.47	F10
												88.39	3.48	88.39	3.48	14	0.55	F12
												99.00	3.90	99.00	3.90	18	0.71	F14

1. This nominal valve shaft diameter is the shaft diameter through the packing box. Use this diameter when selecting Fisher actuators.

Figure 10. Dimensions for Fisher 8580 with Optional Square Shaft Mounting Bracket



GE42533_3

1. Mounting bracket optional.

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