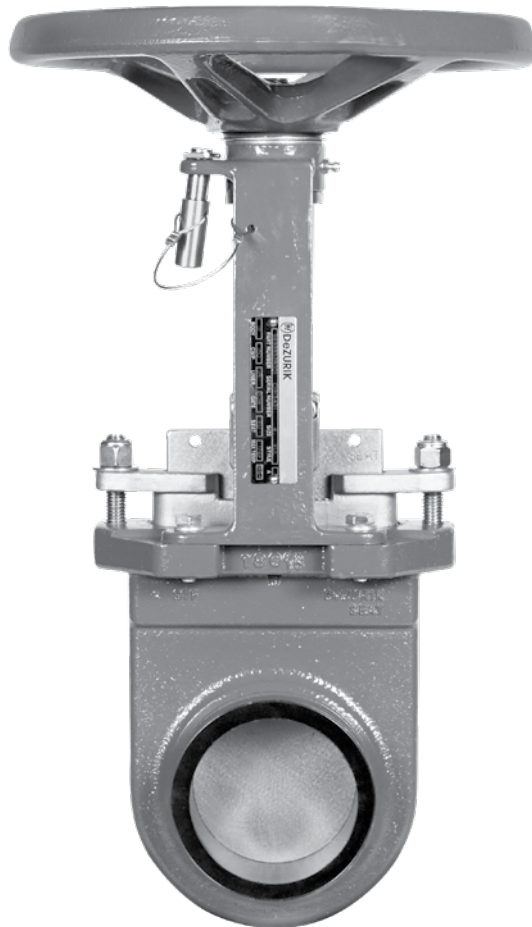
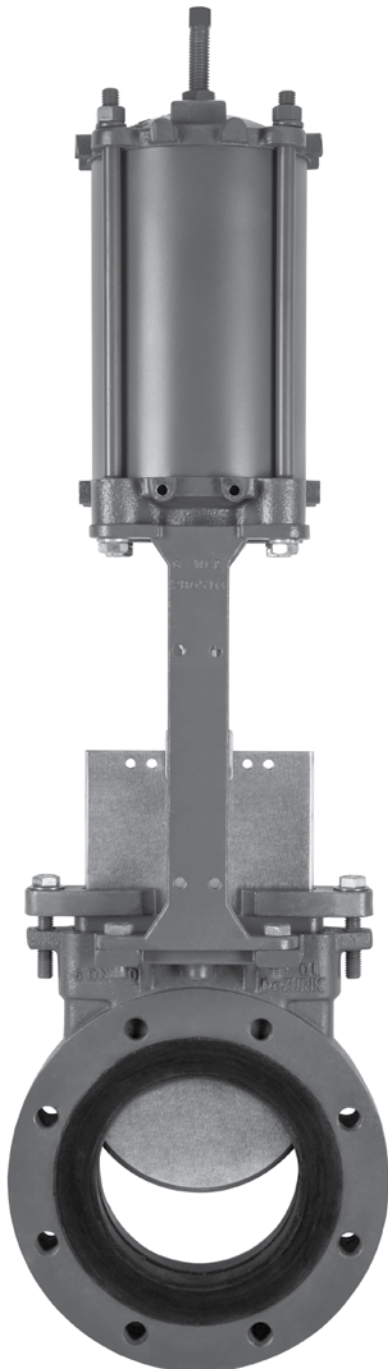




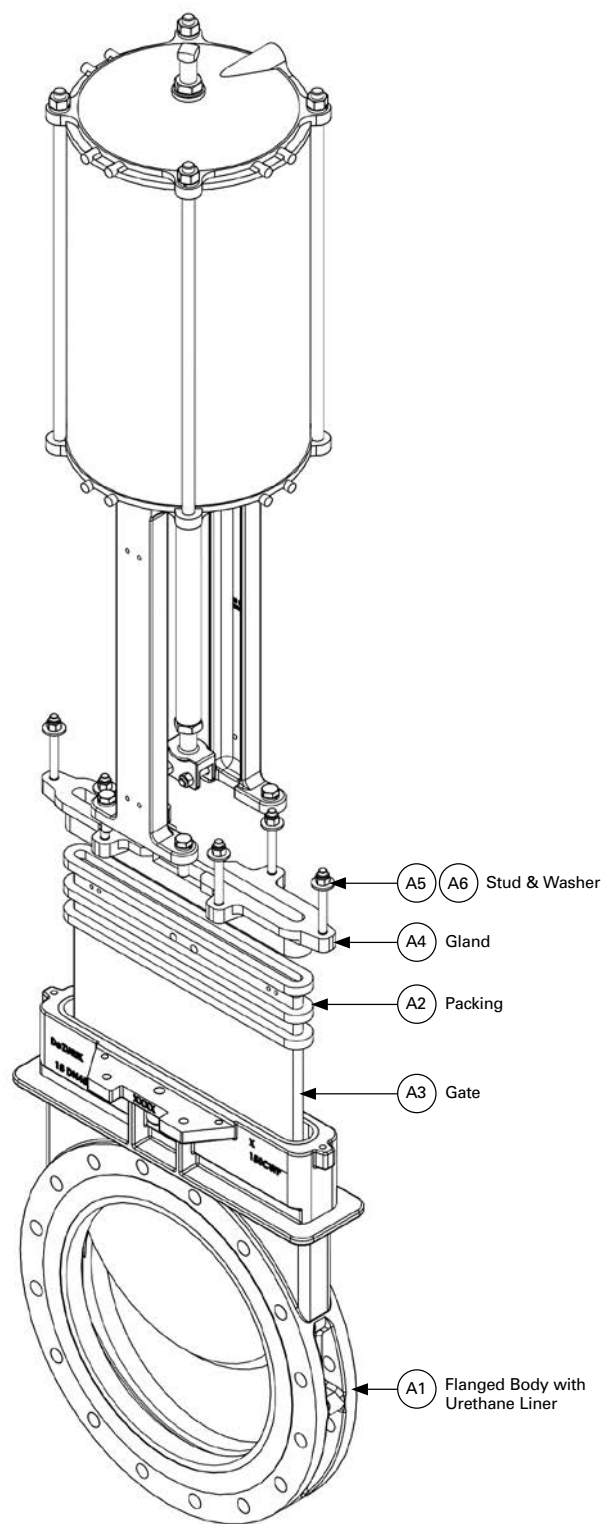
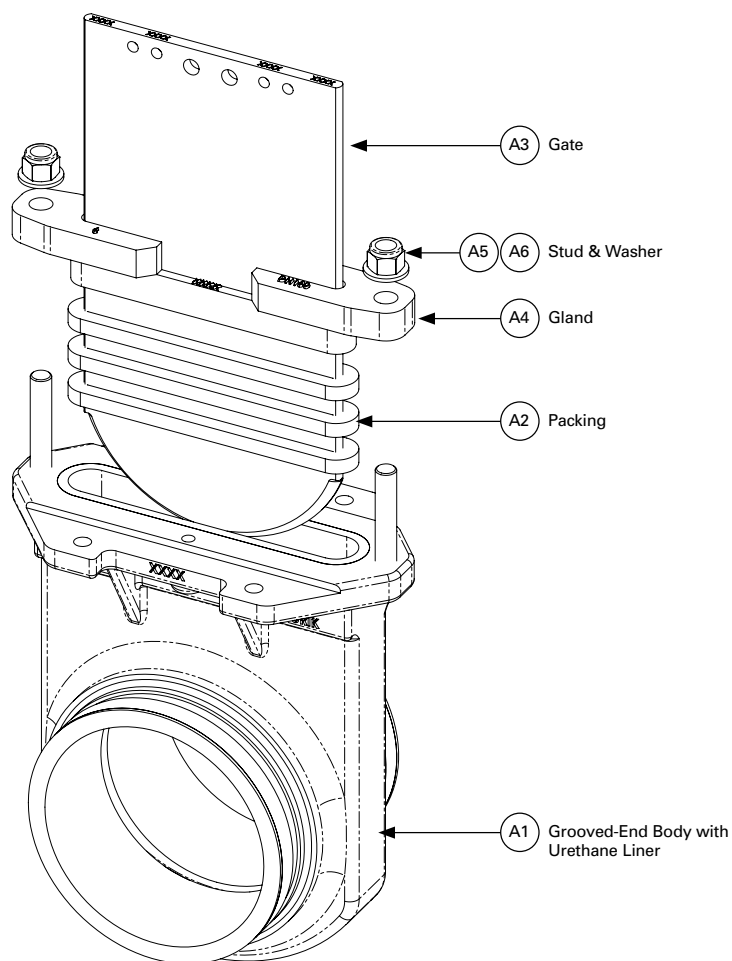
DeZURIK KUL URETHANE LINED KNIFE GATE VALVES TECHNICAL SPECIFICATIONS

- **Materials of Construction**
- **Specifications**
- **Ordering**
- **Dimensions**



Materials of Construction

Item	Description	Material
A1	Body	Ductile Iron, ASTM A395, Grade 65-45-15 with Urethane Liner
A2	Packing	SMP - PTFE Square Braided Packing to 500°F (260°C) (pH Range 0-14)
		ASP - Self-Adjusting PTFE Braided Packing with Fluoroelastomer Cord to 400°F (204°C) (pH Range 0-14)
		TDP - Dry Service, Dry PTFE Braided Packing with Solid PTFE Cord to 500°F (260°C) (pH Range 0-14)
		FGP - Food Grade Service to 450°F (232°C) (pH Range 3-11)
A3	Gate	304 Stainless Steel, ASTM A240
		316 Stainless Steel, ASTM A240
		17-4 Stainless Steel H900 Heat Treated, ASTM A564, Type 630 Condition H900
		254-SMO Stainless Steel, ASTM A240 S31254
		410 Stainless Steel, ASTM A240
		2205 Duplex Stainless Steel, ASTM A240 S31803 or S32205
		Hastelloy C, ASTM B575 C276
A4	Gland	316 Stainless Steel, ASTM A351, Type CF-8M
A5	Stud	Stainless Steel 18-8 or 304
A6	Washer	Stainless Steel 18-8 or 304



Valve Selection

Flow Parameters, Flanged Valves

Valve Size	Cv* Kv* 100% Open	K** (resistance)	Port Area (in ² /cm ²)
2" 50mm	300 260	0.16	3 20
2.5" 65mm	470 406	0.16	5 32
3" 80mm	675 584	0.16	7 45
4" 100mm	1200 1040	0.16	12 81
5" 125mm	1900 1640	0.16	19 126
6" 150mm	2700 2340	0.16	28 182
8" 200mm	4800 4200	0.16	50 324
10" 250mm	7500 6500	0.16	78 506
12" 300mm	10800 9300	0.16	113 729

Valve Size	Cv* Kv* 100% Open	K** (resistance)	Port Area (in ² /cm ²)
14" 350mm	13200 11400	0.16	137 889
16" 400mm	17400 15100	0.16	182 1178
18" 450mm	22300 19300	0.16	233 1507
20" 500mm	27800 24000	0.16	291 1877
24" 600mm	40500 35000	0.16	424 2739
30" 750mm	64000 55400	0.16	672 4335
36" 900mm	93000 80400	0.16	975 6296
42" 1050mm	126000 109000	0.16	1336 8621
48" 1200mm	165000 142700	0.16	1753 11312

Flow Parameters, Grooved End Valves

Valve Size	Cv* Kv* 100% Open	K** (resistance)	Port Area (in ² /cm ²)
2" 50mm	220 190	0.44	2.4 16
3" 80mm	530 460	0.36	6 38
4" 100mm	1005 870	0.30	11 69
5" 125mm	1640 1415	0.24	17 110
6" 150mm	2425 2100	0.17	26 168
8" 200mm	3855 3370	0.35	40 259
10" 250mm	6390 540	0.27	67 434
12" 300mm	9490 8175	0.24	99 641

*Cv = Flow in GPM of water at 1 psi pressure drop.
 Kv = Flow in m3/hr. of water at 100 kPa pressure drop.
 ** K = The resistance coefficient of the valve.
 The constant (K) can be used to determine the equivalent length of pipe.

$L = \frac{K \cdot D}{f}$ Where

L = Equivalent length of pipe in feet
 K = Resistance coefficient
 D = Pipe diameter in feet
 f = Friction factor, related to type of pipe

Applicable Standards

DeZURIK KUL Knife Gate Valves are designed and/or tested to meet the following standards:	
ASME B16.1 (ASA B16.1) 8-24" (200-600mm)	Flanged valves conform to Cast Iron Pipe Flanges and Flanged Fittings, 125 lbs. Conforms to related flange drilling dimensions.
ASME B16.42	Flanged valves conform to Class 150. Conforms to minimum wall thickness 2-24" sizes.
ASME B16.47	Flanged valves conform to Large Diameter Steel Flanges. Series A. 30-48" (750-1200mm) sizes conform to related dimensions.
ASME B16.5 2-6" (50-150mm)	Flanged valves conform to Carbon Steel Flanges and Flanged Fittings, 150 lbs. Conforms to related flange drilling dimensions.
ASME B31.3	Process piping, conforms to allowable stresses and minimum temperature
ANSI/AWWA C606	Grooved Ends conform to standard for Grooved and Shouldered Joints.
International Standards	Flanged valves conform to flanged bolt guides and pressure ratings JIS 10; DIN 10 and DIN 16; ISO 7005-1/PN 10 and 7005-2/PN 16; BS 4504/ PN16; AS2129 table D and E; SANS 1123-1000 and SANS 1123-1600.
MSS SP-81	Flanged valves conform to face-to-face dimensions and pressure rating. 2-24" (50-600mm).
MSS SP-151	Pressure testing of knife gate valves.
SIL	Valves with pneumatic or hydraulic actuators meet IEC 61508SIL3 safety integrity level.

Valve Weights* Flanged Valves

Valve Size	Basic Valve	With Handwheel	With Chainwheel	With Bevel Gear Handwheel		With Bevel Gear Chainwheel		With Cylinder		
				Standard & 180°	90° & 270°	Standard & 180°	90° & 270°	Size	Lbs	Kg
2" 50mm	<u>16</u> 8	<u>26</u> 12	<u>38</u> 18	—	—	—	—	4"	31	15
2.5" 65mm	<u>22</u> 10	<u>33</u> 15	<u>45</u> 22	—	—	—	—	4"	31	15
3" 80mm	<u>22</u> 10	<u>33</u> 15	<u>45</u> 21	<u>94</u> 43	<u>94</u> 43	<u>106</u> 49	<u>106</u> 49	4"	37	17
4" 100mm	<u>29</u> 14	<u>43</u> 20	<u>54</u> 25	<u>103</u> 47	<u>103</u> 47	<u>112</u> 51	<u>112</u> 51	4"	50	23
								6"	66	30
5" 125mm	<u>40</u> 19	<u>53</u> 25	<u>67</u> 31	<u>117</u> 54	<u>117</u> 54	<u>124</u> 57	<u>124</u> 57	4"	61	28
								6"	74	34
								8"	86	40
6" 150mm	<u>45</u> 21	<u>64</u> 30	<u>78</u> 36	<u>122</u> 56	<u>122</u> 56	<u>129</u> 59	<u>129</u> 59	4"	69	32
								6"	82	38
								8"	91	42
8" 200mm	<u>86</u> 40	<u>107</u> 49	<u>121</u> 55	<u>169</u> 77	<u>169</u> 77	<u>176</u> 80	<u>176</u> 80	6"	126	58
								8"	137	63
								10"	174	79
10" 250mm	<u>122</u> 56	<u>144</u> 66	<u>178</u> 81	<u>215</u> 98	<u>215</u> 98	<u>223</u> 102	<u>223</u> 102	8"	190	87
								10"	219	100
								12"	249	113
12" 300mm	<u>179</u> 82	<u>218</u> 99	<u>251</u> 114	<u>274</u> 125	<u>274</u> 125	<u>283</u> 129	<u>283</u> 129	8"	250	114
								10"	279	127
								12"	309	141
14" 350mm	<u>203</u> 93	<u>267</u> 122	<u>282</u> 128	<u>335</u> 152	<u>385</u> 175	<u>338</u> 154	<u>386</u> 176	10"	313	143
								12"	343	156
16" 400mm	<u>289</u> 132	<u>361</u> 164	<u>390</u> 177	<u>430</u> 196	<u>478</u> 217	<u>432</u> 197	<u>480</u> 218	10"	409	186
								12"	439	200
								14"	463	211
18" 450mm	<u>397</u> 181	—	—	<u>551</u> 250	<u>599</u> 272	<u>551</u> 250	<u>559</u> 272	12"	562	255
								14"	586	266
								16"	1071	486
20" 500mm	<u>511</u> 232	—	—	<u>679</u> 309	<u>723</u> 329	<u>700</u> 318	<u>748</u> 340	12"	691	314
								14"	715	325
								16"	1310	595
24" 600mm	<u>783</u> 356	—	—	<u>969</u> 440	<u>1017</u> 462	<u>989</u> 449	<u>1037</u> 471	12"	964	438
								14"	987	448
								16"	1707	775
30" 750mm	<u>1563</u> 710	—	—	<u>1755</u> 797	<u>1853</u> 841	<u>1818</u> 825	<u>1915</u> 869	18"	1753	796
36" 900mm	<u>2440</u> 1108	—	—	<u>2643</u> 1200	<u>2740</u> 1244	<u>2705</u> 1228	<u>2803</u> 1272	—	—	—
42" 1050mm	<u>3929</u> 1783	—	—	<u>4321</u> 1961	<u>4464</u> 2026	<u>4378</u> 1987	<u>4522</u> 2052	—	—	—
48" 1200mm	<u>5449</u> 2473	—	—	<u>6003</u> 2724	<u>6205</u> 2816	<u>6060</u> 2750	<u>6204</u> 2815	—	—	—

Grooved End Valves (Based on V7 Grooved End)

Valve Size	Basic Valve	With Handwheel	With Chainwheel	With Bevel Gear Handwheel		With Bevel Gear Chainwheel		With Cylinder		
				Standard & 180°	90° & 270°	Standard & 180°	90° & 270°	Size	Lbs	Kg
2" 50mm	<u>11</u> 5	<u>21</u> 10	<u>33</u> 15	N/A	N/A	N/A	N/A	4"	26	12
3" 80mm	<u>17</u> 8	<u>28</u> 13	<u>40</u> 18	<u>89</u> 40	<u>89</u> 40	<u>101</u> 46	<u>101</u> 46	4"	32	15
4" 100mm	<u>27</u> 12	<u>41</u> 19	<u>52</u> 24	<u>101</u> 46	<u>101</u> 46	<u>110</u> 50	<u>110</u> 50	4"	48	22
								6"	64	29
5" 125mm	<u>37</u> 17	<u>50</u> 23	<u>64</u> 29	<u>114</u> 52	<u>114</u> 52	<u>121</u> 55	<u>121</u> 55	4"	58	26
								6"	71	32
								8"	83	38
6" 150mm	<u>44</u> 20	<u>63</u> 29	<u>77</u> 35	<u>121</u> 55	<u>121</u> 55	<u>128</u> 58	<u>128</u> 58	4"	68	31
								6"	81	37
								8"	90	41
8" 200mm	<u>77</u> 35	<u>94</u> 43	<u>108</u> 49	<u>156</u> 71	<u>156</u> 71	<u>163</u> 74	<u>163</u> 74	6"	113	51
								8"	124	56
								10"	161	73
10" 250mm	<u>140</u> 64	<u>162</u> 73	<u>196</u> 89	<u>233</u> 106	<u>233</u> 106	<u>241</u> 109	<u>241</u> 109	8"	208	94
								10"	237	108
								12"	267	121
12" 300mm	<u>184</u> 83	<u>223</u> 101	<u>256</u> 116	<u>279</u> 127	<u>279</u> 127	<u>288</u> 131	<u>288</u> 131	8"	255	116
								10"	284	129
								12"	314	142

lbs.
Kg. * Weights are approximate and do not include crating.

Seat/Packing Options

Seat Characteristic	Description	Type	Color	Packing Options	Temperature Range
EU	Urethane, General Water Service	Polyether	Black	SMP, ASP, TDP	-20 to 175°F (-29 to 79°C)
AUCO	Urethane, Oil Service	Polyester	Clear	SMP, ASP, TDP	0 to 175°F (-18 to 79°C)
EUCW	Urethane, Water Service	Polyether	Clear	SMP, ASP, TDP	-20 to 210°F (-29 to 99°C)
AUFO	Urethane, Food Grade Oil Service	Polyester	White	FGP	-20 to 175°F (-29 to 79°C)
EUFW	Urethane, Food Grade Water Service	Polyether	White	FGP	-20 to 175°F (-29 to 79°C)
EUHT	Urethane, High Temp Service	Polyether	Red	SMP, ASP, TDP	-20 to 265°F (-29 to 129°C)
BRPA	Urethane, Phosphoric Acid Service	Polybutadiene	Green	SMP, ASP	5 to 200°F (-15 to 93°C)

NOTE: The limiting factor in valve selection is the lowest temperature component.

Shut-Off Capabilities

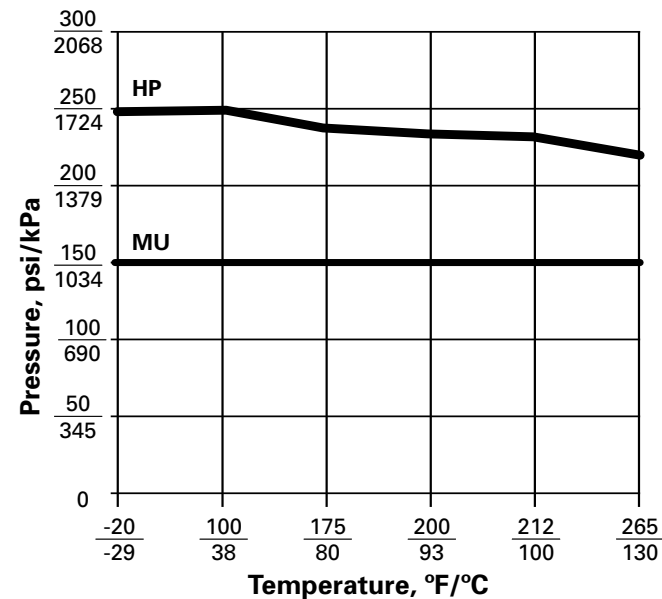
Urethane Seat	Bi-directional leak tight/zero leakage, good for dead-end service.
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Pressure Ratings (Ambient Temperatures)

Valve Size	Direct Pressure	Reverse Pressure
2-48" (50-1200mm)	150 or 250 psi CWP 1035 or 1724 kPa CWP	150 or 250 psi CWP 1035 or 1724 kPa CWP

Pressure/Temperature Ratings*

NOTE: *Urethane compound temperature is the limiting factor in valve selection.



Ordering

To order, simply complete the valve order code from information shown. An ordering example is shown for your reference.

Valve Style

Give valve style code as follows:

KUL = Urethane Lined Knife Gate Valve

Valve Size

Give valve size code as follows:

2	=	2"	(50mm)	14	=	14"	(350mm)
2.5	=	2.5"	(65mm)	16	=	16"	(400mm)
3	=	3"	(80mm)	18	=	18"	(450mm)
4	=	4"	(100mm)	20	=	20"	(500mm)
5	=	5"	(125mm)	24	=	24"	(600mm)
6	=	6"	(150mm)	30	=	30"	(750mm)
8	=	8"	(200mm)	36	=	36"	(900mm)
10	=	10"	(250mm)	42	=	42"	(1050mm)
12	=	12"	(300mm)	48	=	48"	(1200mm)

Body Style

Give body style code as follows:

MU = Multi-use to 150 psi (1035 kPa)
HP = High Pressure to 250 psi (1725 kPa) Must use S5, S8, or S10 gate material.

End Connection

Give end connection code as follows:

F1 = ASME 150 UNC Tapping for Threads
F110 = ISO 7005/PN10 Drilling*
F116 = ISO 7005/PN16 Drilling
F1DA = AS2129 Table D Drilling
F1EA = AS2129 Table E Drilling
F1T = ASME 150 Through Bolting
F1S10 = SANS1123-1000*
F1S16 = SANS1123-1600
F1J1 = JIS 10 Drilling (2-36" except 12")
V7 = Grooved Style 77, for Steel and other metallic pipe per AWWA C606-15, Table 4
Not available on 2.5" (65mm) valve size
VF = Grooved Style 31, Flexible joint for ductile iron pipe per AWWA C606-15, Table 2. Not available on 2", 2.5", 3" or 5" (50mm or 125mm) valve sizes
VR = Grooved Style 31, Rigid joint for ductile iron pipe per AWWA C606-15, Table 3. Not available on 2", 2.5", 3" or 5" (50mm or 125mm) valve sizes

*For use with MU Body Style to 150 psi (1035 kPa) maximum.

Body Material

Give body material code as follows:

DI = Ductile Iron

Packing Material**

Give packing material code as follows:

SMP = PTFE Braided Packing to 500°F (260°C) (pH Range 0-14)
ASP = Self-Adjusting PTFE Braided Packing with Fluoroelastomer Cord to 400° F (205° C) (pH Range 0-14)
TDP = Dry Service, Dry PTFE Braided Packing with Solid PTFE Cord to 500°F (260°C) (pH Range: 0-14)
FGP = Food Grade Service to 450°F (232°C) (pH Range: 3-11)
Not for use in sanitary valve service

Gate Material

Give gate material code as follows:

S1 = 304 Stainless Steel (MU Body Style)
S2 = 316 Stainless Steel (MU Body Style)
S5 = 17-4 Stainless Steel H900 Heat Treated (MU or HP Body Style)
S6 = 254-SMO Stainless Steel (MU Body Style)
HC = Hastelloy C (MU Body Style)
S8 = 410 Stainless Steel (MU or HP Body Style)
S10 = 2205 Duplex Stainless Steel (MU or HP Body Style)

Seat Material**

Give seat material code as follows:

EU = Polyether Urethane, Black, Water Service -20 to 175°F (-29 to 80°C)
AUCO = Polyester Urethane, Clear, Oil Service 0 to 175°F (-18 to 80°C)
EUCW = Polyether Urethane, Clear, Water Service -20 to 210°F (-29 to 100°C)
AUFO = Polyester Urethane, White, Food Grade Oil Service -20 to 175°F (-29 to 80°C)
EUFW = Polyether Urethane, White, Food Grade Water Service -20 to 175°F (-29 to 80°C)
EUHT = Polyether Urethane, Red, High Temp Service -20 to 265°F (-29 to 130°C)
BRPA = Polybutadiene Urethane, Green, Phosphoric Acid Service 5 to 200°F (-15 to 90°C)

Options

Give option code as follows:

CMC = Certificate of Material Conformance
CRT = Certified Physical and Chemical Test Reports
DTR = DeZURIK Standard Certified Production Hydrostatic Shell and Seat Test Report
— = Optional Coating (contact DeZURIK)

Ordering Example:

KUL,6,MU,F1,DI,SMP,S1-EU*actuator

**NOTE: The urethane seat material temperature is the limiting factor in valve selection.

Manual Actuators

Handwheel and Chainwheel Actuators

All 2-16" (50-400mm) valves can be furnished with handwheel actuators or chainwheel actuators. To order handwheel or chainwheel actuators, add the appropriate order code to the basic valve order code. Refer to information on bevel gear actuators for use on dry solids, paper stock, slurries or when pressure exceeds limits shown. Order chain for chainwheel actuators as a separate item.

Handwheel Actuator

Valve Size	Order Code	Order Code	Maximum Pressure Differential psi/kPa
	Carbon Steel (CS) Yoke	304 SST (S1) Yoke	
2" & 2.5" 50mm & 65mm	MN-HD8-CS	MN-HD8-S1	250 1725
3" 80mm	MN-HD8-CS	MN-HD8-S1	250 1725
4" 100mm	MN-HD12-CS	MN-HD12-S1	250 1725
5" 125mm	MN-HD12-CS	MN-HD12-S1	150 1035
	MN-HD16-CS	MN-HD16-S1	250 1725
6" 150mm	MN-HD12-CS	MN-HD12-S1	150 1035
	MN-HD16-CS	MN-HD16-S1	250 1725
8" 200mm	MN-HD16-CS	MN-HD16-S1	250 1725
10" 250mm	MN-HD16-CS	MN-HD16-S1	150 1035
12" 300mm	MN-HD16-CS	MN-HD16-S1	150 1035
14" 350mm	MN-HD20-CS	MN-HD20-S1	100 690
16" 400mm	MN-HD20-CS	MN-HD20-S1	75 518

NOTE: The limiting factor in actuator selection is the lowest pressure rating of the valve or actuator.

Bevel gear actuators recommended for dry solids, paper stocks, slurries, or when pressure exceeds limits shown.

Ordering Example:

KUL,6,MU,F1,DI,SMP,S1-EU*MN-HD12-CS

Chainwheel Actuator

Valve Size	Order Code	Order Code	Maximum Pressure Differential psi/kPa
	Carbon Steel (CS) Yoke	304 SST (S1) Yoke	
2" & 2.5" 50mm & 65mm	MN-CW8-CS	MN-CW8-S1	250 1725
3" 80mm	MN-CW8-CS	MN-CW8-S1	250 1725
4" 100mm	MN-CW12-CS	MN-CW12-S1	250 1725
5" 125mm	MN-CW12-CS	MN-CW12-S1	150 1035
	MN-CW20-CS	MN-CW20-S1	250 1725
6" 150mm	MN-CW20-CS	MN-CW20-S1	250 1725
8" 200mm	MN-CW20-CS	MN-CW20-S1	150 1035
10" 250mm	MN-CW20-CS	MN-CW20-S1	100 690
12" 300mm	MN-CW20-CS	MN-CW20-S1	100 690
14" 350mm	MN-CW30-CS	MN-CW30-S1	150 1035
16" 400mm	MN-CW30-CS	MN-CW30-S1	100 690

NOTE: The limiting factor in actuator selection is the lowest pressure rating of the valve or actuator.

Bevel gear actuators recommended for dry solids, paper stocks, slurries, or when pressure exceeds limits shown.

Ordering Example:

KUL,6,MU,F1,DI,SMP,S1-EU*MN-CW20-CS

Nut Actuators

Nut actuators are available when the ENTS extension is ordered on Flanged Valves.

Nut Actuator

Valve Size	Order Code	Order Code	Maximum Pressure Differential psi/kPa
	Carbon Steel (CS) Yoke	304 SST (S1) Yoke	
2" & 2.5" 50mm & 65mm	MN-N-CS	MN-N-S1	250 1725
3" 80mm	MN-N-CS	MN-N-S1	250 1725
4" 100mm	MN-N-CS	MN-N-S1	250 1725
5" 125mm	MN-N-CS	MN-N-S1	250 1725
6" 150mm	MN-N-CS	MN-N-S1	250 1725
8" 200mm	MN-N-CS	MN-N-S1	250 1725
10" 250mm	MN-N-CS	MN-N-S1	250 1725

Valve Size	Order Code	Order Code	Maximum Pressure Differential psi/kPa
	Carbon Steel (CS) Yoke	304 SST (S1) Yoke	
12" 300mm	MN-N-CS*	MN-N-S1*	250 1725
14" 350mm	MN-N-CS*	MN-N-S1*	250 1725
16" 400mm	MN-N-CS*	MN-N-S1*	150 1035

NOTE: The limiting factor in Actuator Selection is the lowest pressure rating of the valve or actuator.

Bevel gear actuators recommended for dry solids, paper stock, slurries, or when pressure exceeds limits shown.

Ordering Example:

KUL,4,MU,F1,DI,SMP,S1-EU*MN-N-CS,ENTS

Manual Actuators

Bevel Gear Actuators

Bevel Gear Actuators are available on 2-48" (50-1200mm) valves with handwheel or chainwheel actuators. Bevel Gear Actuators provide vertical mounting of the handwheel or chainwheel, or can be used where space limitations prohibit the use of a standard handwheel or chainwheel. A mechanical advantage makes large valve operation easier and faster.

Bevel Gear Handwheel Actuators

Valve Size	Order Code Carbon Steel (CS) Yoke	Order Code 304 SST (S1) Yoke	Maximum Pressure Differential psi/kPa
3" 80mm	MNB-HD12-CS	MNB-HD12-S1	250 1725
4" 100mm	MNB-HD12-CS	MNB-HD12-S1	250 1725
5" 125mm	MNB-HD12-CS	MNB-HD12-S1	250 1725
6" 150mm	MNB-HD12-CS	MNB-HD12-S1	250 1725
8" 200mm	MNB-HD12-CS	MNB-HD12-S1	250 1725
10" 250mm	MNB-HD12-CS	MNB-HD12-S1	150 1035
	MNB-HD16-CS	MNB-HD16-S1	250 1725
12" 300mm	MNB-HD12-CS	MNB-HD12-S1	150 1035
	MNB-HD16-CS	MNB-HD16-S1	250 1725
14" 350mm	MNB-HD12-CS	MNB-HD12-S1	150 1035
	MNB-HD16-CS	MNB-HD16-S1	250 1725
16" 400mm	MNB-HD16-CS	MNB-HD16-S1	150 1035
	MNB-HD24-CS	MNB-HD24-S1	250 1725
18" 450mm	MNB-HD24-CS	MNB-HD24-S1	150 1035
	MNB-HD30-CS	MNB-HD30-S1	250 1725
20" 500mm	MNB-HD24-CS	MNB-HD24-S1	150 1035
	MNB-HD36-CS	MNB-HD36-S1	250 1725
24" 600mm	MNB-HD24-CS	MNB-HD24-S1	250 1725
30" 750mm	MNB-HD24-CS	MNB-HD24-S1	250 1725
36" 900mm	MNB-HD24-CS	MNB-HD24-S1	250 1725
42" 1050mm	MNB-HD24-CS	MNB-HD24-S1	150 1035
	MNB-HD30-CS	MNB-HD30-S1	250 1725
48" 1200mm	MNB-HD24-CS	MNB-HD24-S1	150 1035
	MNB-HD30-CS	MNB-HD30-S1	250 1725

NOTE: The limiting factor in actuator selection is the lowest pressure rating of the valve or actuator.

Ordering Example:

KUL,6,MU,F1,DI,SMPS1-EU*MNB-HD12-CS

For alternate mounting of bevel gear actuators, add -90, -180 or -270 after the actuator code and as 2nd line information on the order.

Bevel Gear Chainwheel Actuators

Valve Size	Order Code Carbon Steel (CS) Yoke	Order Code 304 SST (S1) Yoke	Maximum Pressure Differential psi/kPa
3" 80mm	MNB-CW12-CS	MNB-CW12-S1	250 1725
4" 100mm	MNB-CW12-CS	MNB-CW12-S1	250 1725
5" 125mm	MNB-CW12-CS	MNB-CW12-S1	250 1725
6" 150mm	MNB-CW12-CS	MNB-CW12-S1	250 1725
8" 200mm	MNB-CW12-CS	MNB-CW12-S1	250 1725
10" 250mm	MNB-CW12-CS	MNB-CW12-S1	150 1035
	MNB-CW20-CS	MNB-CW20-S1	250 1725
12" 300mm	MNB-CW12-CS	MNB-CW12-S1	150 1035
	MNB-CW20-CS	MNB-CW20-S1	250 1725
14" 350mm	MNB-CW12-CS	MNB-CW12-S1	150 1035
	MNB-CW20-CS	MNB-CW20-S1	250 1725
16" 400mm	MNB-CW20-CS	MNB-CW20-S1	150 1035
	MNB-CW30-CS	MNB-CW30-S1	250 1725
18" 450mm	MNB-CW30-CS	MNB-CW30-S1	250 1725
20" 500mm	MNB-CW30-CS	MNB-CW30-S1	250 1725
24" 600mm	MNB-CW20-CS	MNB-CW20-S1	150 1035
	MNB-CW30-CS	MNB-CW30-S1	250 1725
30" 750mm	MNB-CW20-CS	MNB-CW20-S1	150 1035
	MNB-CW30-CS	MNB-CW30-S1	250 1725
36" 900mm	MNB-CW30-CS	MNB-CW30-S1	250 1725
42" & 48" 1050-1200mm	MNB-CW30-CS	MNB-CW30-S1	250 1725

NOTE: The limiting factor in actuator selection is the lowest pressure rating of the valve or actuator.

Ordering Example:

KUL,14,MU,F1,DI,SMPS1-EU*MNB-CW12-CS-90

Actuator mounted at 90 degrees

Manual Actuator Accessories

Chain for Chainwheel Actuators

Order as a separate item by giving the correct code and specify required length of chain as second line information. One closing link is supplied with the chainwheel actuator.

Order Code	Description
ACC*CN102	Steel, Zinc Plated 3/16
ACC*CN103	Galvanized 3/16
ACC*CN106	316 Stainless Steel 3/16

Ordering Example:

ACC*CN102

Chain 12 feet long (366cm)

Lockout Device

Available on all sizes of handwheel and bevel gear handwheel actuated valves. To order, add a comma and the order code "LK" after the actuator code.

Ordering Example:

KUL,6,MU,F1,DI,SMPS1-EU*MN-HD12-S1,LK

Extension for Handwheel or 2" Nut Extension

Provides extension of the handwheel or nut to allow remote operation – normally from above. The extension includes fittings and extension pipe with handwheel or nut mounted. To order, specify description and extension length from center line of valve to handwheel or nut.

Order Code	Description
ENHD	Extension for Handwheel
ENTS	Extension for Nut

Ordering Example:

KUL,6,MN,F1,DI,SMPS1-EU*MN-N-S1,ENTS

Center line of valve to top of nut 72 inches (1829mm).

Cylinder Actuators

DeZURIK Cylinder Actuators are available with double-acting pneumatic or hydraulic cylinders for on/off or positioning services. Supply pressure is 60 or 80 psi (410 or 550 kPa). To order, add the proper code from the table to the valve order code. Specify hydraulic media if other than oil.

Actuator Sizing

60 psi (410 kPa) Air Supply

Valve Size	Order Code	Order Code	Maximum Pressure Differential psi/kPa	
	Carbon Steel (CS) Yoke	304 SST (S1) Yoke	Dry Solids, Slurries, Paper Stock	Liquids & Gases
2" & 2.5" 50mm & 65mm	CY-PC4-CS	CY-PC4-S1	250 1725	250 1725
3" 80mm	CY-PC4-CS	CY-PC4-S1	250 1725	250 1725
4" 100mm	CY-PC4-CS	CY-PC4-S1	100 690	150 1035
	CY-PC6-CS	CY-PC6-S1	250 1725	250 1725
5" 125mm	CY-PC4-CS	CY-PC4-S1	N/A	50 345
	CY-PC6-CS	CY-PC6-S1	100 690	150 1035
	CY-PC8-CS	CY-PC8-S1	250 1725	250 1725
6" 150mm	CY-PC4-CS	CY-PC4-S1	N/A	50 345
	CY-PC6-CS	CY-PC6-S1	100 690	150 1035
	CY-PC8-CS	CY-PC8-S1	250 1725	250 1725
8" 200mm	CY-PC6-CS	CY-PC6-S1	100 690	150 1035
	CY-PC8-CS	CY-PC8-S1	200 1380	250 1725
	CY-PC10-CS	CY-PC10-S1	250 1725	N/R
10" 250mm	CY-PC8-CS	CY-PC8-S1	75 518	100 690
	CY-PC10-CS	CY-PC10-S1	200 1380	250 1725
	CY-PC12-CS	CY-PC12-S1	250 1725	N/R
12" 300mm	CY-PC8-CS	CY-PC8-S1	75 518	100 690
	CY-PC10-CS	CY-PC10-S1	150 1035	200 1380
	CY-PC12-CS	CY-PC12-S1	250 1725	250 1725
14" 350mm	CY-PC10-CS	CY-PC10-S1	100 690	150 1035
	CY-PC12-CS	CY-PC12-S1	250 1725	250 1725
16" 400mm	CY-PC10-CS	CY-PC10-S1	75 518	100 690
	CY-PC12-CS	CY-PC12-S1	100 690	150 1035
	CY-PC14-CS	CY-PC14-S1	250 1725	250 1725

Valve Size	Order Code	Order Code	Maximum Pressure Differential psi/kPa	
	Carbon Steel (CS) Yoke	304 SST (S1) Yoke	Dry Solids, Slurries, Paper Stock	Liquids & Gases
18" 450mm	CY-PC12-CS	CY-PC12-S1	75 518	100 690
	CY-PC14-CS	CY-PC14-S1	200 1380	250 1725
	CY-PC16-CS	CY-PC16-S1	250 1725	N/R
20" 500mm	CY-PC12-CS	CY-PC12-S1	50 345	75 518
	CY-PC14-CS	CY-PC14-S1	100 690	150 1035
	CY-PC16-CS	CY-PC16-S1	250 1725	250 1725
24" 600mm	CY-PC14-CS	CY-PC14-S1	75 518	100 690
	CY-PC16-CS	CY-PC16-S1	150 1035	200 1380
	CY-PC18-CS	CY-PC18-S1	250 1725	250 1725
30" 750mm	Contact DeZURIK for cylinder actuator sizing.			
36" 900mm				
42" 1050mm				
48" 1200mm				

NOTE: The limiting factor in actuator selection is the lowest pressure rating of the valve or actuator.

N/R = Not required. Use next smaller actuator.

N/A = Not available. Use larger actuator or contact DeZURIK.

For alternate mounting, add -90, -180 or -270 after the actuator code and as a second line information on the order.

Cylinder Actuators

Actuator Sizing

80 psi (550 kPa) Air Supply

Valve Size	Order Code	Order Code	Maximum Pressure Differential psi/kPa	
	Carbon Steel (CS) Yoke	304 SST (S1) Yoke	Dry Solids, Slurries, Paper Stock	Liquids & Gases
2" & 2.5" 50mm & 65mm	CY-PC4-CS	CY-PC4-S1	250 1725	250 1725
3" 80mm	CY-PC4-CS	CY-PC4-S1	250 1725	250 1725
4" 100mm	CY-PC4-CS	CY-PC4-S1	150 1035	200 1380
	CY-PC6-CS	CY-PC6-S1	250 1725	250 1725
5" 125mm	CY-PC4-CS	CY-PC4-S1	50 345	75 518
	CY-PC6-CS	CY-PC6-S1	200 1380	250 1725
	CY-PC8-CS	CY-PC8-S1	250 1725	N/R
6" 150mm	CY-PC4-CS	CY-PC4-S1	50 345	75 518
	CY-PC6-CS	CY-PC6-S1	150 1035	200 1380
	CY-PC8-CS	CY-PC8-S1	250 1725	250 1725
8" 200mm	CY-PC6-CS	CY-PC6-S1	100 690	150 1035
	CY-PC8-CS	CY-PC8-S1	250 1725	250 1725
10" 250mm	CY-PC8-CS	CY-PC8-S1	100 690	150 1035
	CY-PC10-CS	CY-PC10-S1	250 1725	250 1725
12" 300mm	CY-PC8-CS	CY-PC8-S1	100 690	150 1035
	CY-PC10-CS	CY-PC10-S1	200 1380	250 1725
	CY-PC12-CS	CY-PC12-S1	250 1725	N/R
14" 350mm	CY-PC10-CS	CY-PC10-S1	100 690	150 1035
	CY-PC12-CS	CY-PC12-S1	250 1725	250 1725
16" 400mm	CY-PC10-CS	CY-PC10-S1	75 518	100 690
	CY-PC12-CS	CY-PC12-S1	200 1380	250 1725
	CY-PC14-CS	CY-PC14-S1	250 1725	N/R
18" 450mm	CY-PC12-CS	CY-PC12-S1	200 1380	250 1725
	CY-PC14-CS	CY-PC14-S1	250 1725	N/R

NOTE: The limiting factor in actuator selection is the lowest pressure rating of the valve or actuator.

N/R = Not required. Use next smaller actuator.

N/A = Not available. Use larger actuator or contact DeZURIK.

For alternate mounting, add -90, -180 or -270 after the actuator code and as a second line information on the order.

Valve Size	Order Code	Order Code	Maximum Pressure Differential psi/kPa	
	Carbon Steel (CS) Yoke	304 SST (S1) Yoke	Dry Solids, Slurries, Paper Stock	Liquids & Gases
20" 500mm	CY-PC12-CS	CY-PC12-S1	75 518	100 690
	CY-PC14-CS	CY-PC14-S1	200 1380	250 1725
	CY-PC16-CS	CY-PC16-S1	250 1725	N/R
24" 600mm	CY-PC12-CS	CY-PC12-S1	50 345	100 690
	CY-PC14-CS	CY-PC14-S1	150 1035	250 1725
	CY-PC16-CS	CY-PC16-S1	250 1725	N/R
30" 750mm	Contact DeZURIK for cylinder actuator sizing.			
36" 900mm				
42" 1050mm				
48" 1200mm				

Cylinder Actuator Accessories

Positioners

DeZURIK Cylinder Actuators are available with pneumatic, electro-pneumatic or digital positioners for throttling control. Positioners are available in various NEMA ratings and mounted to the actuator legs.

Air Filter Regulator

The DeZURIK Air Filter Regulator is designed to provide clean, accurate air pressure to actuators and positioners.

Four-Way Solenoid Valves

Solenoid Valves may be ordered mounted and piped as part of a complete valve/actuator assembly or as a separate item.

Speed Control Valves

Speed Control Valves are available for controlling valve opening or closing speed with pneumatic actuators. The speed of operation is adjustable.

Position Indicating Switches

Mechanical or Proximity Position Indicating Switches are available for use on double-acting cylinder actuators. One switch can be set to indicate open or closed position. Two switches will automatically be set to indicate full open and full closed positions.

Corrosion Resistant Cylinder

The Corrosion Resistant Cylinder assembly includes epoxy coating on the head, cap and gland – all of which are cast iron. The tube is fiberglass and all fasteners are stainless steel. To order Corrosion-Resistant Cylinder construction, add -CR to the actuator code.

Ordering Example:

KUL,6,MU,F1,DI,SMPS1-EU*CY-PC6-S1-CR

Electric Motor Actuators

DeZURIK Knife Gate Valves can be furnished with electric motor actuators including Limitorque, Auma, Rotork, E.I.M. and others.

When ordering Electric Motor Actuators, specify valve order code, shutoff pressure, service conditions (flowing media and installation direction); type of application (on/off or throttling); speed of operation; NEMA rating (4, 7, submersible, etc.); electrical characteristics (voltage and phase); actuator accessories and controls as per specification requirements.

High-Strength Actuator Legs

For unsupported horizontal mounting of 3-12" (80-300mm) valve sizes with cylinder actuators, High-Strength Actuator Legs are available as part of a complete valve and actuator assembly. To order, add the SAL code after the actuator code.

Ordering Example:

KUL,6,MU,F1,DI,SMPS1-EU*CY-PC6-S1,SAL

Stem Cover Bellows

To protect valve stem from environmental debris, the Stem Cover Bellows may be ordered as part of a complete valve and cylinder actuator assembly. To order, add the SCB code to the valve and actuator code.

Ordering Example:

KUL,6,MU,F1,DI,SMPS1-EU*CY-PC6-S1,SCB

Lockout Device

Available on all sizes of Cylinder Actuated Valves. To order, add the LK code to the valve and actuator code.

Ordering Example:

KUL,6,MU,F1,DI,SMPS1-EU*CY-PC6-S1,LK

Stainless Steel Tubing and Fittings

To order accessories piped with stainless steel tubing and fittings, add -SF to the order code.

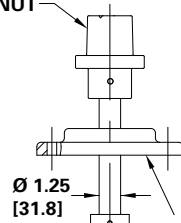
Dimensions

Valve and Nut

Valve Size	Dimensions				
	F	G	H	L	M
2"	3.25	1.88	4.00	22.44	17.63
50mm	83	48	102	570	448
2.5"	3.64	2.00	4.75	25.60	19.79
65mm	92	51	121	650	503
3"	3.75	2.00	4.75	25.92	20.11
80mm	95	51	121	658	511
4"	4.50	2.00	5.00	28.20	23.39
100mm	114	51	127	716	594
5"	5.00	2.25	5.75	32.62	27.81
125mm	127	57	146	829	706
6"	5.50	2.25	5.75	34.20	29.39
150mm	140	57	146	869	747
8"	6.75	2.75	6.38	39.70	34.89
200mm	171	70	162	1008	886
10"	8.00	2.75	8.25	46.53	41.72
250mm	203	70	210	1182	1060
12"	9.50	3.00	8.25	52.19	47.38
300mm	241	76	210	1326	1203
14"	10.50	3.00	8.25	63.19	58.38
350mm	267	76	210	1605	1483
16"	11.75	3.50	8.69	70.63	65.82
400mm	298	89	221	1794	1672

Inches
Millimeters

2" [51]
SQUARE NUT



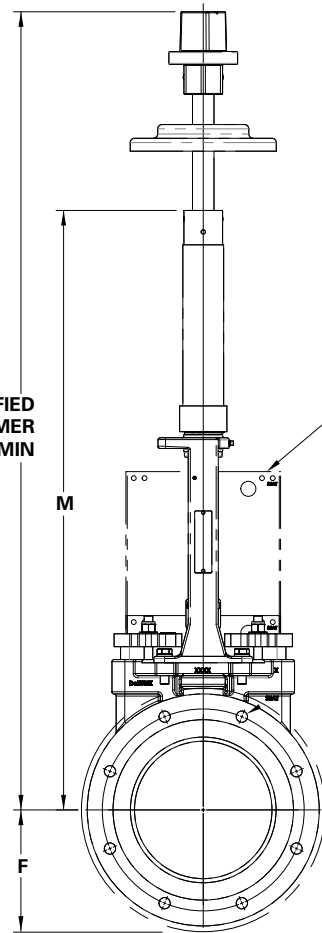
CUSTOMER
TO PROVIDE
SUPPORT BEARING
PLATE FURNISHED
WHEN ORDERED

AS SPECIFIED
BY CUSTOMER
"L" MIN

H

SEAT SIDE
OF VALVE

G



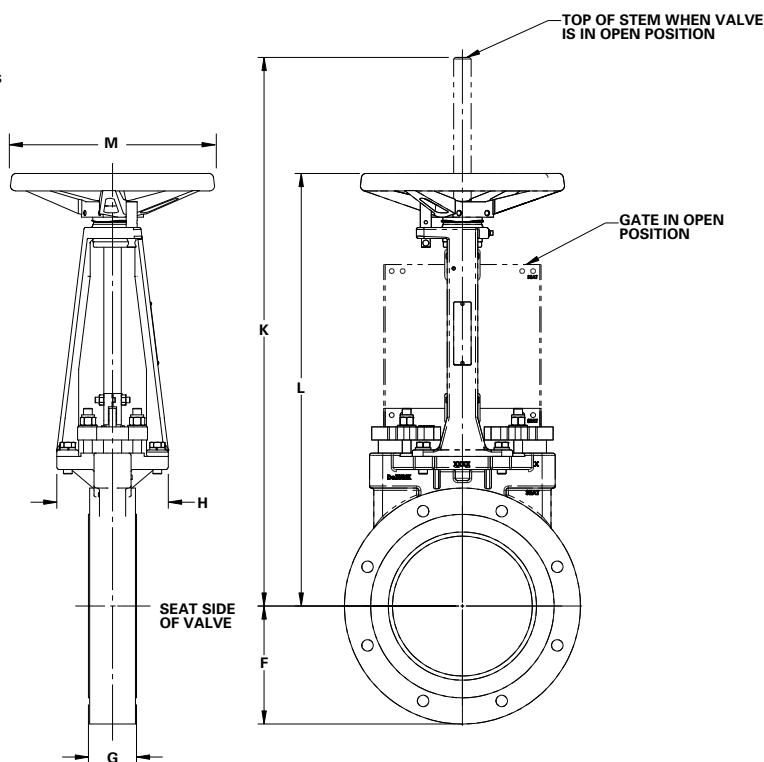
GATE IN
OPEN
POSITION

Dimensions

Flanged Valve and Handwheel

Valve Size	Dimensions					
	F	G	H	K	L	M
2"	3.25	1.88	4.00	14.93	13.25	8.00
50mm	83	48	102	379	337	203
2.5"	3.64	2.00	4.75	16.44	14.42	8.00
65mm	92	51	121	418	366	203
3"	3.75	2.00	4.75	16.62	14.74	8.00
80mm	95	51	121	422	374	203
4"	4.50	2.00	5.00	19.94	17.27	12.00
100mm	114	51	127	506	439	305
5"	5.00	2.25	5.75	24.35	19.71	12.00
	127	57	146	618	501	305
125mm	5.00	2.25	5.75	24.35	19.58	16.00
	127	57	146	618	497	406
6"	5.50	2.25	5.75	26.04	21.22	12.00
	140	57	146	661	539	305
150mm	5.50	2.25	5.75	26.04	21.14	16.00
	140	57	146	661	537	406
8"	6.75	2.75	6.38	31.54	24.63	16.00
200mm	171	70	162	801	626	406
10"	8.00	2.75	8.25	39.05	30.10	16.00
250mm	203	70	210	992	765	406
12"	9.50	3.00	8.25	44.75	33.79	16.00
300mm	241	76	210	1137	858	406
14"	10.50	3.00	8.30	53.66	36.53	20.00
350mm	267	76	211	1363	928	508
16"	11.75	3.50	8.70	57.23	40.23	20.00
400mm	298	8	221	1454	1022	508

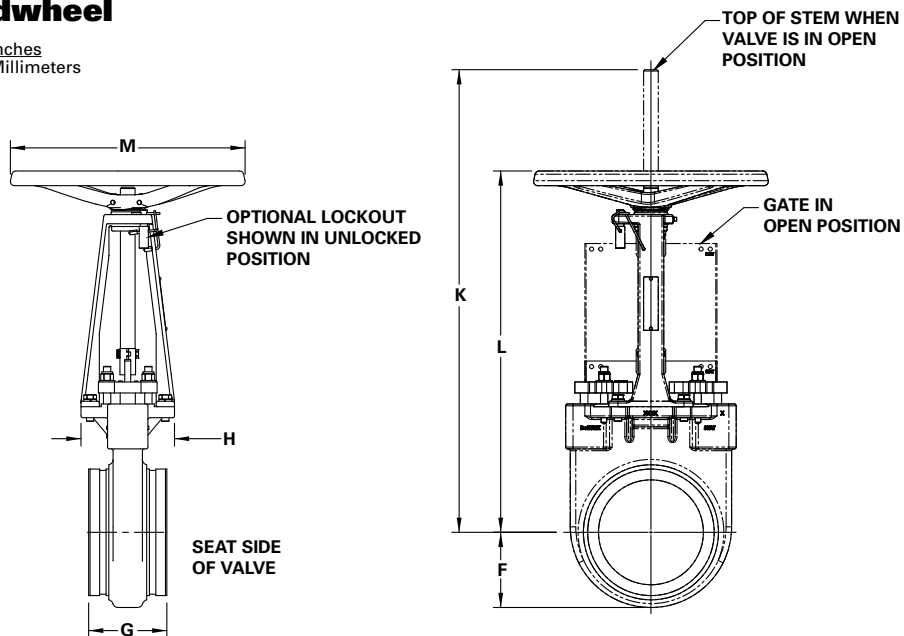
Inches
Millimeters



Grooved End Valve and Handwheel

Valve Size	Dimensions					
	F	G	H	K	L	M
2"	2.19	3.21	4.00	14.85	13.30	8.00
50mm	56	82	102	377	338	203
3"	3.00	3.77	4.75	16.76	14.74	8.00
80mm	76	96	121	426	374	203
4"	3.19	4.63	5.00	20.04	17.27	12.00
100mm	81	118	127	509	439	305
5"	3.66	5.88	5.75	24.48	19.71	12.00
	93	149	146	622	501	305
125mm	3.66	5.88	5.75	24.48	19.58	16.00
	93	149	146	622	497	406
6"	4.38	5.88	5.75	26.04	21.22	12.00
	111	149	146	661	539	305
150mm	4.38	5.88	5.75	26.04	21.14	16.00
	111	149	146	661	537	406
8"	5.13	5.33	6.38	31.54	24.63	16.00
200mm	130	135	162	801	626	406
10"	6.54	6.40	8.25	39.25	30.10	16.00
250mm	166	163	210	997	765	406
12"	7.38	6.50	8.25	44.93	33.79	16.00
300mm	187	165	210	1141	858	406

Inches
Millimeters

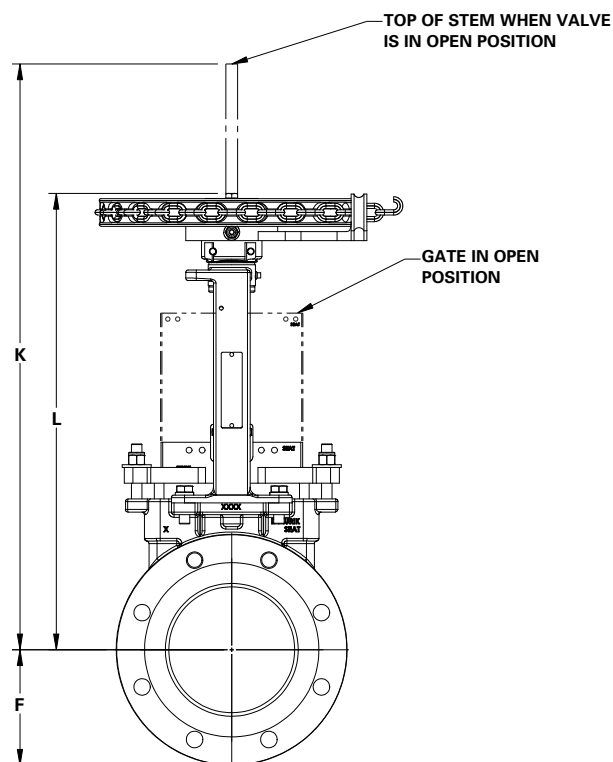
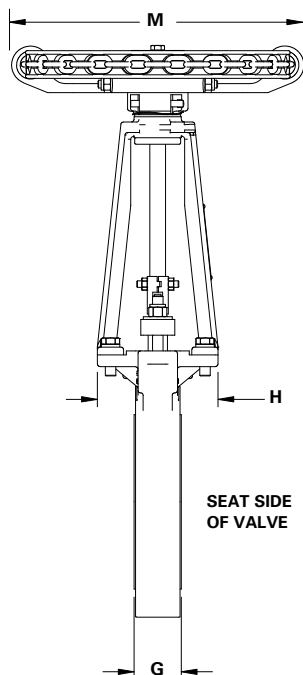


Dimensions

Flanged Valve and Chainwheel

Valve Size	Dimensions					
	F	G	H	K	L	M
2"	3.25	1.88	4.00	15.94	13.83	8.00
50mm	83	48	102	405	351	203
2.5"	3.64	2.00	4.75	18.44	15.72	8.00
65mm	92	51	121	468	399	203
3"	3.75	2.00	4.75	18.63	15.49	8.00
80mm	95	51	121	473	393	203
4"	4.50	2.00	5.00	21.74	17.60	12.00
100mm	114	51	127	552	447	305
5"	5.00	2.25	5.75	25.17	20.03	12.00
	127	57	146	639	509	305
125mm	5.00	2.25	5.75	25.17	20.03	20.00
	127	57	146	639	509	508
6"	5.50	2.25	5.75	27.74	21.58	20.00
150mm	140	57	146	705	548	508
8"	6.75	2.75	6.38	33.31	25.07	20.00
200mm	171	70	162	846	637	508
10"	8.00	2.75	8.25	40.86	30.57	20.00
250mm	203	70	210	1038	776	508
12"	9.50	3.00	8.25	46.94	34.58	20.00
300mm	241	76	210	1192	878	508
14"	10.50	3.00	8.25	53.56	41.09	30.00
350mm	267	76	210	1360	1044	762
16"	11.75	3.50	8.69	57.23	42.69	30.00
400mm	298	89	221	1454	1084	762

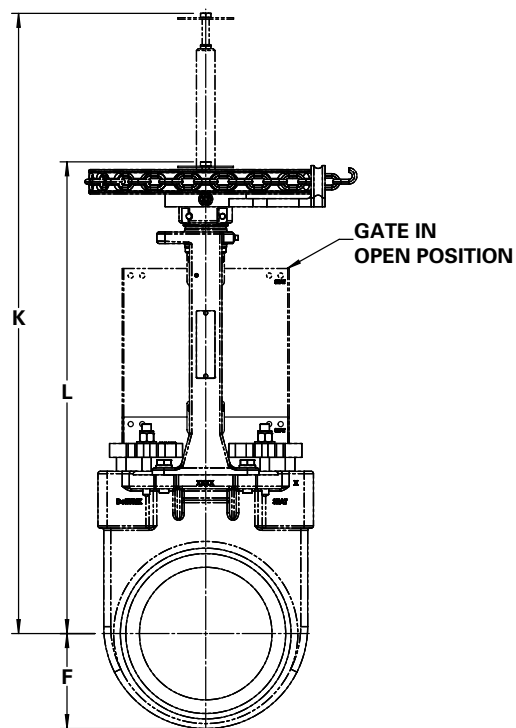
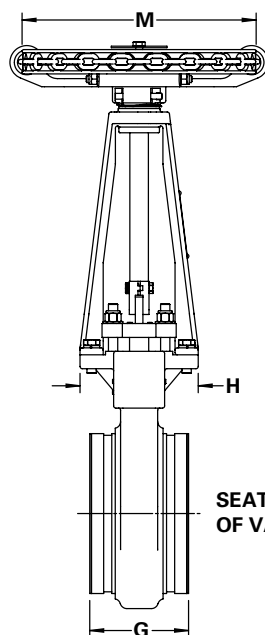
Inches
Millimeters



Grooved End Valve and Chainwheel

Valve Size	Dimensions					
	F	G	H	K	L	M
2"	2.19	3.21	4.00	16.33	13.95	8.00
50mm	56	82	102	415	354	203
3"	3.00	3.77	4.75	18.76	15.63	8.00
80mm	76	96	121	477	397	203
4"	3.19	4.63	5.00	21.98	17.89	12.00
100mm	81	118	127	558	454	305
5"	3.66	5.88	5.75	25.68	20.58	12.00
	93	149	146	652	523	305
125mm	3.66	5.88	5.75	25.68	20.58	20.00
	93	149	146	652	523	508
6"	4.38	5.88	5.75	27.92	21.72	12.00
150mm	111	149	146	709	552	305
8"	5.13	5.33	6.38	33.45	25.44	12.00
200mm	130	135	162	850	646	305
10"	6.54	6.40	8.25	41.06	30.93	20.00
250mm	166	163	210	1043	786	508
12"	7.38	6.50	8.25	47.13	34.97	20.00
300mm	187	165	210	1197	888	508

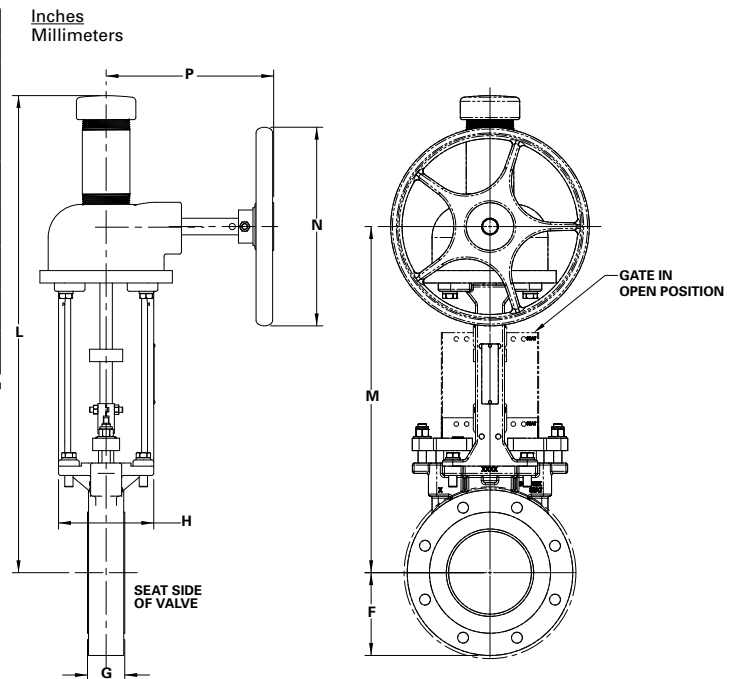
Inches
Millimeters



Dimensions

Flanged Valve and Bevel Gear Handwheel 3-8" MU & HP Body Styles

Valve Size	Dimensions							
	F	G	H	L	M	N	P	
							Standard & 180 Mounting	90 & 270 Mounting
3"	3.75	2.00	4.75	22.12	16.19	12.00	10.12	10.12
80mm	95	51	121	562	411	305	257	257
4"	4.50	2.00	5.00	24.38	18.47	12.00	10.12	10.12
100mm	114	51	127	619	469	305	257	257
5"	5.80	2.25	5.75	28.82	20.91	12.00	10.12	10.12
125mm	147	57	146	732	531	305	257	257
6"	5.48	2.25	5.75	30.39	22.47	12.00	10.12	10.12
150mm	139	57	146	772	571	305	257	257
8"	6.75	2.75	6.38	35.89	25.97	12.00	10.12	10.12
200mm	171	70	162	912	660	305	257	257



Flanged Valve 10" & Larger, MU Body Style

Valve Size	Dimensions							
	F	G	H	L	M	N	P	
							Standard & 180 Mounting	90 & 270 Mounting
10"	8.00	2.75	8.24	46.57	31.66	12.00	10.12	10.12
250mm	203	70	209	1183	804	305	257	257
12"	9.50	3.00	8.25	50.26	35.35	12.00	10.12	10.12
300mm	241	76	210	1277	898	305	257	257
14"	10.50	3.00	8.25	56.82	37.91	12.00	10.12	24.13
350mm	267	76	210	1443	963	305	257	613
16"	11.75	3.50	8.69	60.51	41.60	16.00	17.62	24.13
400mm	298	89	221	1537	1057	406	448	613
18"	12.50	3.50	9.31	69.95	47.04	24.00	17.62	32.88
450mm	318	89	236	1777	1195	610	448	835
20"	13.75	4.50	9.42	73.63	50.72	24.00	17.62	32.88
500mm	349	114	239	1870	1288	610	448	835
24"	16.00	4.50	9.42	81.20	61.58	24.00	23.75	33.75
600mm	406	114	239	2062	1564	610	603	857
30"	19.38	5.50	11.25	109.58	76.00	24.00	23.75	33.75
750mm	492	140	286	2783	1930	610	603	857
36"	23.00	6.00	12.00	121.46	87.49	24.00	23.75	32.87
900mm	584	152	305	3085	2222	610	603	835
42"	26.50	6.50	13.50	150.30	103.51	24.00	25.55	36.57
1050mm	673	165	343	3818	2629	610	649	929
48"	29.75	7.00	18.50	163.64	116.85	24.00	25.55	36.57
1200mm	756	178	470	4156	2968	610	649	929

Flanged Valve 10" & Larger, HP Body Style

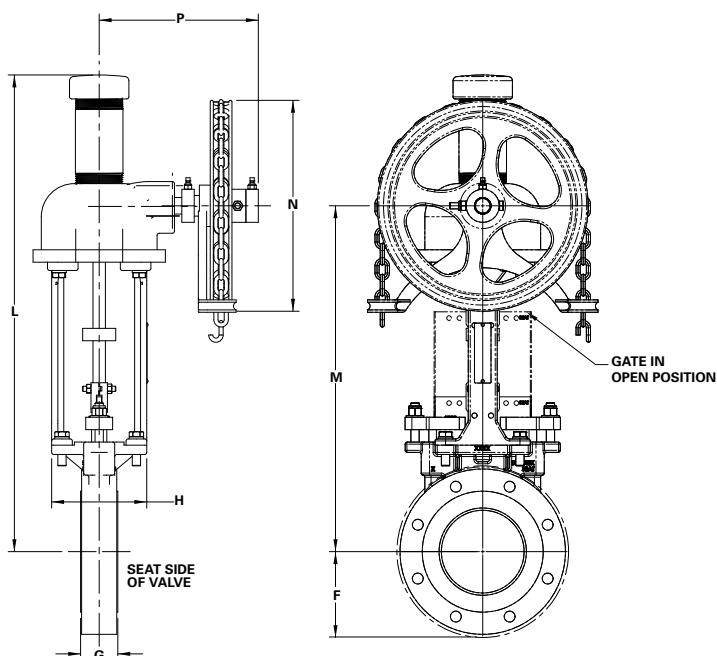
Valve Size	Dimensions							
	F	G	H	L	M	N	P	
							Standard & 180 Mounting	90 & 270 Mounting
10"	8.00	2.75	8.24	46.57	31.66	16.00	10.50	10.50
250mm	203	70	209	1183	804	406	267	267
12"	9.50	3.00	8.25	50.26	35.35	16.00	10.50	10.50
300mm	241	76	210	1277	898	406	267	267
14"	10.50	3.00	8.25	56.82	37.91	16.00	10.50	24.15
350mm	267	76	210	1443	963	406	267	613
16"	11.75	3.50	8.69	60.51	41.60	24.00	17.62	32.88
400mm	298	89	221	1537	1057	610	448	835
18"	12.50	3.50	9.31	69.95	47.04	30.00	9.75	24.13
450mm	318	89	236	1777	1195	762	248	613
20"	13.75	4.50	9.42	73.63	53.61	36.00	23.15	38.40
500mm	349	114	239	1870	1362	914	588	975
24"	16.00	4.50	9.42	81.20	61.58	24.00	23.75	33.75
600mm	406	114	239	2062	1564	610	603	857
30"	19.38	5.50	11.25	111.95	77.16	24.00	26.57	36.57
750mm	492	140	286	2844	1960	610	675	929
36"	23.00	6.00	12.00	123.45	88.66	24.00	26.57	36.57
900mm	584	152	305	3136	2252	610	675	929
42"	26.50	6.50	13.50	150.30	103.51	30.00	17.68	28.72
1050mm	673	165	343	3818	2629	762	449	729
48"	29.75	7.00	18.50	163.64	116.85	30.00	17.68	28.72
1200mm	756	178	470	4156	2968	762	449	729

Dimensions

Flanged Valve and Bevel Gear Chainwheel 3-8" MU & HP Body Styles

Valve Size	Dimensions							
	F	G	H	L	M	N	P	
							Standard & 180 Mounting	90 & 270 Mounting
3" 80mm	3.75 95	2.00 51	4.75 121	22.12 562	16.19 411	12.75 324	9.62 244	9.62 244
4" 100mm	4.50 114	2.00 51	5.00 127	24.39 620	18.47 469	12.75 324	9.62 244	9.62 244
5" 125mm	5.80 147	2.25 57	5.75 146	28.83 732	20.89 531	12.75 324	9.62 244	9.62 244
6" 150mm	5.48 139	2.25 57	5.75 146	30.41 772	22.47 571	12.75 324	9.62 244	9.62 244
8" 200mm	6.75 171	2.75 70	6.38 162	34.90 886	25.97 660	12.75 324	9.62 244	9.62 244

Inches
Millimeters



Flanged Valve 10" & Larger, MU Body Style

Valve Size	Dimensions							
	F	G	H	L	M	N	P	
							Standard & 180 Mounting	90 & 270 Mounting
10" 250mm	8.00 203	2.75 70	8.24 209	46.57 1183	31.66 804	12.00 305	9.62 244	9.62 244
12" 300mm	9.50 241	3.00 76	8.25 210	50.26 1277	35.35 898	12.00 305	9.62 244	9.62 244
14" 350mm	10.50 267	3.00 76	8.25 210	56.82 1443	37.91 963	12.75 324	9.62 244	24.12 613
16" 400mm	11.75 298	3.50 89	8.69 221	60.51 1537	41.60 1057	20.00 508	9.62 244	24.12 613
18" 450mm	12.50 318	3.50 89	9.31 236	69.95 1777	47.04 1195	30.00 762	9.62 244	24.12 613
20" 500mm	13.75 349	4.50 114	9.42 239	73.63 1870	50.72 1288	30.00 762	9.62 244	24.12 613
24" 600mm	16.19 411	4.50 114	9.42 239	81.20 2062	61.58 1564	20.00 508	15.00 381	25.00 635
30" 750mm	19.38 492	5.50 140	11.25 286	109.58 2783	76.00 1930	20.00 508	15.00 381	25.00 635
36" 900mm	23.00 584	6.00 152	12.00 305	121.46 3085	87.49 2222	30.00 762	15.00 381	25.00 635
42" 1050mm	26.50 673	6.50 165	13.50 343	150.30 3818	103.51 2629	30.00 762	17.82 453	27.82 707
48" 1200mm	29.75 756	7.00 178	18.50 470	163.64 4156	116.85 2968	30.00 762	17.82 453	27.82 707

Flanged Valve 10" & Larger, HP Body Style

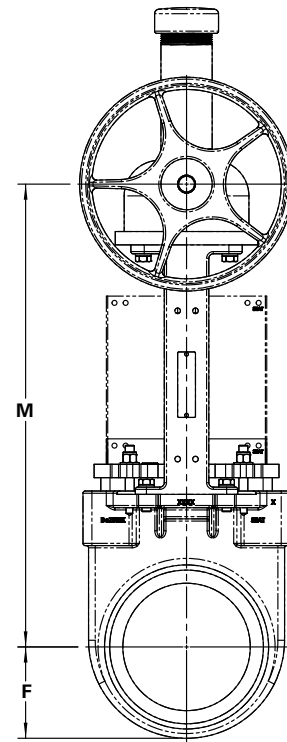
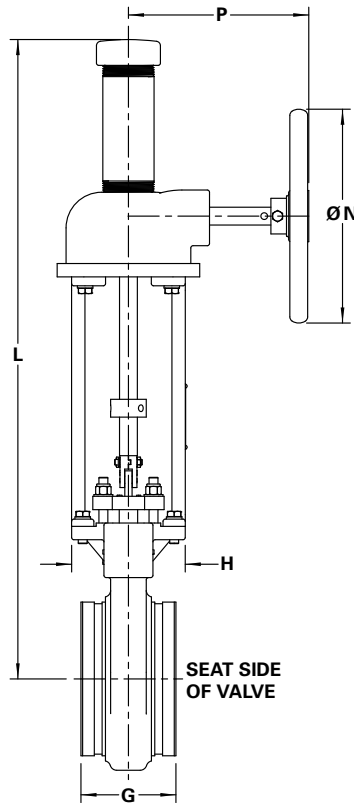
Valve Size	Dimensions							
	F	G	H	L	M	N	P	
							Standard & 180 Mounting	90 & 270 Mounting
10" 250mm	8.00 203	2.75 70	8.24 209	46.57 1183	31.66 804	20.00 508	9.62 244	9.62 244
12" 300mm	9.50 241	3.00 76	8.25 210	50.26 1277	35.35 898	20.00 508	9.62 244	9.62 244
14" 350mm	10.50 267	3.00 76	8.25 210	56.82 1443	37.91 963	20.00 508	9.62 244	24.12 613
16" 400mm	11.75 298	3.50 89	8.69 221	60.51 1537	41.60 1057	30.00 762	9.62 244	24.12 613
18" 450mm	12.50 318	3.50 89	9.31 236	69.95 1777	47.04 1195	30.00 762	9.62 244	24.12 613
20" 500mm	13.75 349	4.50 114	9.42 239	73.63 1870	53.61 1362	30.00 762	15.00 381	25.00 635
24" 600mm	16.19 411	4.50 114	9.42 239	81.20 2062	61.58 1564	30.00 762	15.00 381	25.00 635
30" 750mm	19.38 492	5.50 140	11.25 286	111.95 2844	77.16 1960	30.00 762	17.82 453	25.00 635
36" 900mm	23.00 584	6.00 152	12.00 305	123.45 3136	88.65 2252	30.00 762	17.82 453	27.82 707
42" 1050mm	26.50 673	6.50 165	13.50 343	150.30 3818	103.51 2629	30.00 762	17.82 453	27.82 707
48" 1200mm	29.75 756	7.00 178	18.50 470	163.64 4156	116.85 2968	30.00 762	17.82 453	27.82 707

Dimensions

Grooved End Valved and Bevel Gear Handwheel

Valve Size	Dimensions						
	F	G	H	L	M	N	P
3"	3.00	3.77	4.75	22.06	16.19	12.00	10.12
80mm	76	96	121	560	411	305	257
4"	3.19	4.63	5.00	24.38	18.47	12.00	10.12
100mm	81	118	127	619	469	305	257
5"	3.66	5.88	5.75	28.82	20.91	12.00	10.12
125mm	93	149	146	732	531	305	257
6"	4.38	5.88	5.75	30.38	22.47	12.00	10.12
150mm	111	149	146	772	571	305	257
8"	5.13	5.33	6.38	35.88	25.97	12.00	10.12
200mm	130	135	162	911	660	305	257
10"	6.54	6.40	8.25	46.57	31.66	12.00	10.12
250mm	166	163	210	1183	804	305	257
12"	6.54	6.40	8.25	46.57	31.66	16.00	10.50
	166	163	210	1183	804	406	267
	7.38	6.50	8.25	50.26	35.35	12.00	10.12
300mm	187	165	210	1277	898	305	257
	7.38	6.50	8.25	50.26	35.35	16.00	10.50
	187	165	210	1277	898	406	267

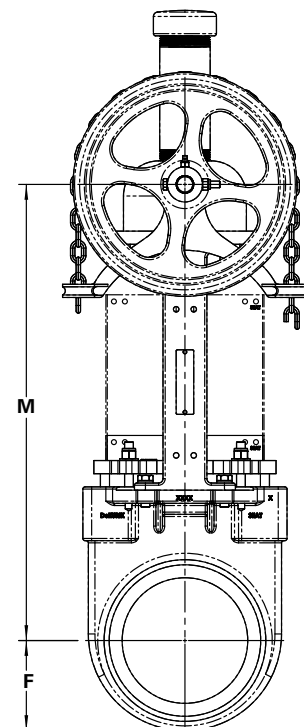
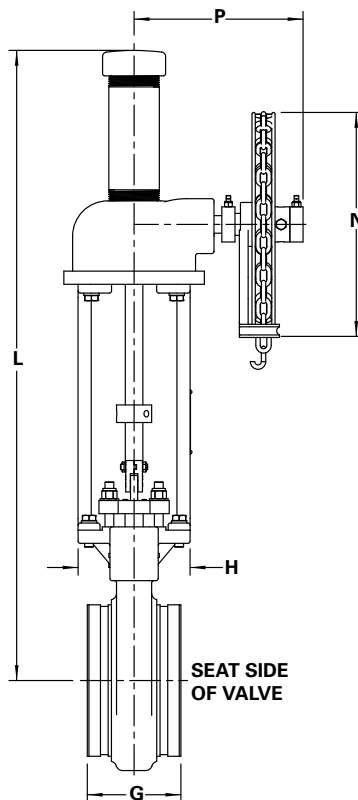
Inches
Millimeters



Grooved End Valved and Bevel Gear Chainwheel

Valve Size	Dimensions						
	F	G	H	L	M	N	P
3"	3.00	3.77	4.75	22.06	16.19	12.00	9.62
80mm	76	96	121	560	411	305	244
4"	3.19	4.63	5.00	24.38	18.47	12.00	9.62
100mm	81	118	127	619	469	305	244
5"	3.66	5.88	5.75	28.82	20.91	12.00	9.62
125mm	93	149	146	732	531	305	244
6"	4.38	5.88	5.75	30.38	22.47	12.00	9.62
150mm	111	149	146	772	571	305	244
8"	5.13	5.33	6.38	35.88	25.97	12.00	9.62
200mm	130	135	162	911	660	305	244
10"	6.54	6.40	8.25	46.57	31.66	12.00	9.62
250mm	166	163	210	1183	804	305	244
12"	6.54	6.40	8.25	46.57	31.66	20.00	9.62
	166	163	210	1183	804	508	244
	7.38	6.50	8.25	50.26	35.35	12.00	9.62
300mm	187	165	210	1277	898	305	244
	7.38	6.50	8.25	50.26	35.35	20.00	9.62
	187	165	210	1277	898	508	244

Inches
Millimeters

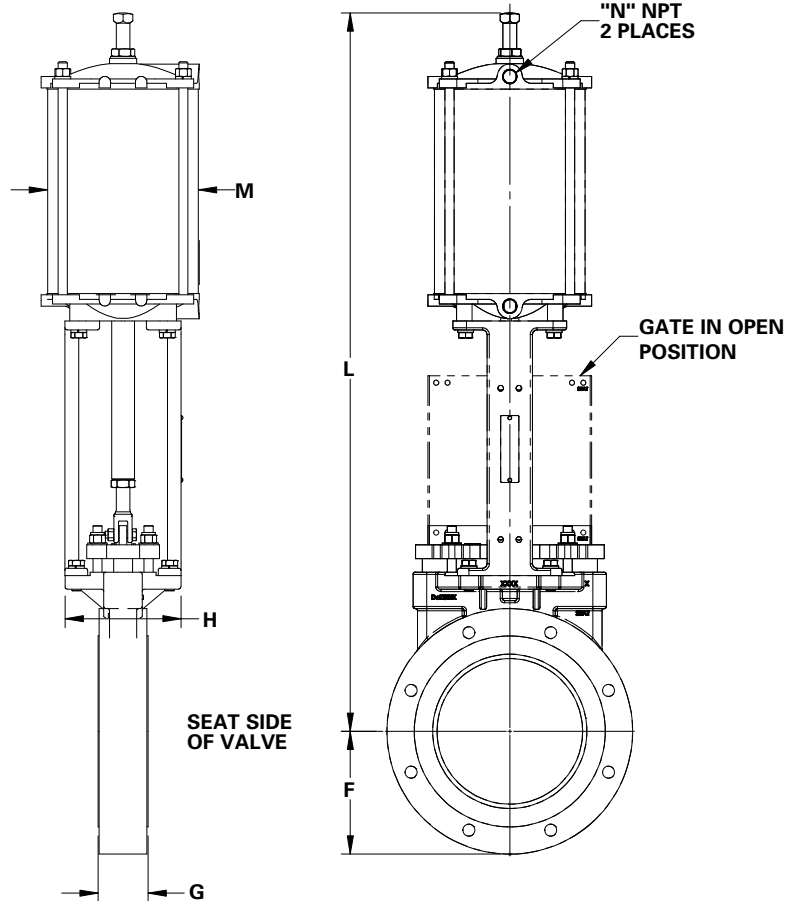


Dimensions

Flanged Valve and Cylinder Actuator

Valve Size	Dimensions		
	F	G	H
2"	3.25	1.88	4.00
50mm	83	48	102
2.5"	3.64	2.00	4.75
65mm	92	51	121
3"	3.75	2.00	4.75
80mm	95	51	121
4"	4.50	2.00	5.00
100mm	114	51	127
5"	5.00	2.25	5.75
125mm	127	57	146
6"	5.50	2.25	5.75
150mm	140	57	146
8"	6.75	2.75	6.38
200mm	171	70	162
10"	8.00	2.75	8.25
250mm	203	70	210
12"	9.50	3.00	8.25
300mm	241	76	210
14"	10.50	3.00	8.25
350mm	267	76	210
16"	11.75	3.50	8.69
400mm	298	89	221
18"	12.50	3.50	9.31
450mm	318	89	237
20"	13.75	4.50	9.42
500mm	349	114	239
24"	16.00	4.50	9.42
600mm	406	114	239

Inches
Millimeters



Cylinder Actuator

Actuator Code	Dimensions															M	N
	L																
	2" 50mm	2.5" 65mm	3" 80mm	4" 100mm	5" 125mm	6" 150mm	8" 200mm	10" 250mm	12" 300mm	14" 350mm	16" 400mm	18" 450mm	20" 500mm	24" 600mm			
CY-PC4	22.18 563	23.53 598	23.84 606	26.12 663	30.47 774	32.09 815	—	—	—	—	—	—	—	—	5.38 137	1/4	
CY-PC6	—	—	—	29.45 748	32.13 816	33.48 850	39.25 997	—	—	—	—	—	—	—	7.88 200	1/4	
CY-PC8	—	—	—	—	32.50 826	34.13 867	39.63 1007	49.16 1249	53.18 1351	—	—	—	—	—	10.50* 267	1/2	
CY-PC10	—	—	—	—	—	—	—	50.66 1287	54.35 1380	60.56 1538	64.25 1632	—	—	—	10.88 276	1/2	
CY-PC12	—	—	—	—	—	—	—	50.74 1289	54.55 1386	60.68 1541	64.37 1635	73.81 1875	77.50 1969	89.46 2272	12.94 329	1/2	
CY-PC14	—	—	—	—	—	—	—	—	—	—	64.31 1633	74.15 1883	77.84 1977	89.81 2281	15.13 384	1/2	
CY-PC16	—	—	—	—	—	—	—	—	—	—	—	70.25 1784	75.94 1929	87.91 2233	17.00 432	1/2	
CY-PC18	—	—	—	—	—	—	—	—	—	—	—	—	—	88.28 2242	19.00 483	3/4	

Inches
Millimeters

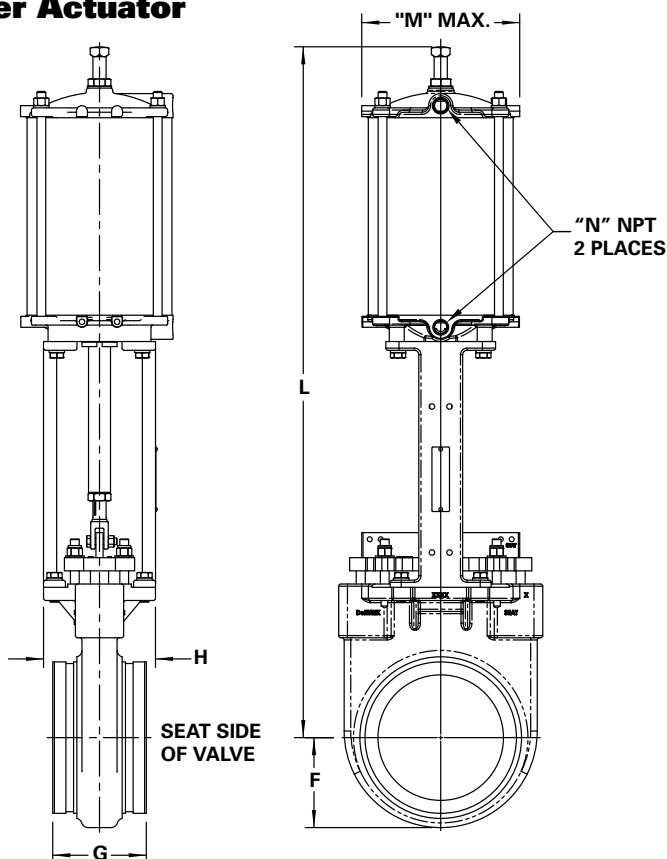
* M Dimension on 10" & 12" valve sizes is 8.69
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Dimensions

Grooved End Valve and Cylinder Actuator

Valve Size	Dimensions		
	F	G	H
2"	2.19	3.21	4.00
50mm	56	82	102
3"	3.00	3.77	4.75
80mm	76	96	121
4"	3.19	4.63	5.00
100mm	81	118	127
5"	3.66	5.88	5.75
125mm	93	149	146
6"	4.38	5.88	5.75
150mm	111	149	146
8"	5.13	5.33	6.38
200mm	130	135	162
10"	6.54	6.40	8.25
250mm	166	163	210
12"	7.38	6.50	8.25
300mm	187	165	210

Inches
Millimeters



Cylinder Actuator

Actuator Code	Dimensions									M	N
	L										
	2" 50mm	3" 80mm	4" 100mm	5" 125mm	6" 150mm	8" 200mm	10" 250mm	12" 300mm			
CY-PC4	22.57 573	24.00 610	26.29 668	30.72 780	32.28 820	—	—	—	5.00 127	1/4	
CY-PC6	—	—	27.55 700	31.99 813	33.62 854	39.01 991	—	—	7.00 178	1/4	
CY-PC8	—	—	—	32.23 819	33.85 860	39.35 999	49.23 1250	52.92 1344	9.00 229	1/2	
CY-PC10	—	—	—	—	—	40.86 1038	50.67 1287	54.35 1380	11.25 286	1/2	
CY-PC12	—	—	—	—	—	—	50.88 1292	54.56 1386	13.25 337	1/2	

Inches
Millimeters

Sales and Service

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