BULLETIN JUNE 2020 38.00-1

DeZURIK UNIVAL PORTED GATE VALVES



Technologically Superior Design

DeZURIK's Unival incorporates a technologically innovative sealing mechanism with features that surpass any other ported gate valve. Unival has undergone extensive field testing in abrasive, corrosive and scaling applications in the mining and process industries. The field tests have demonstrated the superiority of this design in terms of quality, extended service life and reliability.

Reduce Downtime, Save Money

All of the features of Unival were designed to reduce downtime and save money. The improved packing sealing system and the pressure-assisted seat were engineered to provide trouble-free operation and extend the service life of the valve.

Streamlined Flow Passage

Unival Valves feature a full-port design. The valve does not intrude into the flow path, thereby reducing turbulence, abrasive wear and premature valve failure. Because there are no intrusions into the flow path or irregular geometry, head loss is minimal.

Standard Face-to-Face Dimensions

Unival Ported Gate Valves feature standard MSS-SP-81 face-to-face dimensions on 2-24" (50-600mm) valves. No piping changes are required to change from competitive gate valves to Unival.

International Flange Drillings

In addition to ANSI 150 wafer drillings, Unival Ported Gate Valves are also available with other international flange drillings, including DIN, BS, AS and JIS.

Dry Service Applications

Unique design allows Unival to be used on dry service applications including, but not limited to, powders, plastic pellets, fly ash, Kaolin, lime and sand.

Bi-Directional Shut-Off

Unival Ported Gate Valves provide bi-directional shut-off and are rated to accept a 150 psi (1,000 kPa) pressure drop.

Application Flexibility

Sleeve material options include a variety of corrosion- and abrasion-resistant materials. These materials have been field tested and provide the required protection where corrosion or abrasion pose a problem

Ease of Maintenance

When required, the sleeves can easily be replaced by simply removing the mating flange. Changing the sleeves does not require disassembly of the valve or actuator. This greatly simplifies maintenance and means there are fewer parts to stock.

Adjustable Packing

The standard packing is a multistage adaptive system that forms the secondary atmospheric seal. This exclusive packing system provides excellent wear resistance and overcomes traditional cold flow problems and strength issues.

Quick, Easy Actuator Conversion

One common mounting pad allows quick and easy conversion from manual to powered actuators with no major changes in parts or valve construction. All that's required is removal of six holts.

Lower-Body Seal

The valve can be ordered without the lower-body seal. The lower-body cover can also be removed for easy inspection and clean-out when the valve isn't under pressure.

Purge Ports

Positive pressure applied to the purge ports prevents build-up of material in the lower body. Chest-area purge ports are provided on valves for dry services, and available as an option on wet-service valves.

Rounded Gate Edges

To increase packing life and provide a superior seal, the gate edges are rounded. The rounded edges reduce packing stress and operating forces and provide longer packing life.



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Stainless Steel Fasteners and Superstructure

As standard corrosion protection, fasteners are 316 stainless steel. The superstructure is carbon steel and available in 304 and 316 stainless steel.

Stem Protection

One hundred percent stem protection is provided, as standard, on all valves.

Corrosion/Abrasion Resistant Gates

The standard gate material is 316 stainless steel. To meet more demanding corrosive and abrasive applications, DeZURIK offers a variety

of gate materials, including 317 stainless steel, titanium, Alloy 20, Hastelloy or any available alloy or plate material.



Lock Device Standard

As standard, a closed-position lockout device is supplied on all Unival Valves. It conforms to OSHA lockout/tag-out requirement 29 CFR 1910.14]. A quick disconnect may also be specified with the lockout when required.

Innovative Sealing Method

Unival Ported Gate Valves feature a unique pressureassisted sealing system. This patented design utilizes elastomer sleeves with radial support rings and gate-thrust support rings. The seats rely on line pressure, rather than compression, to assist the sealing process. The upstream pressure on the seat provides the primary seal. This innovative new pressure-assisted sealing system provides longer seal life.





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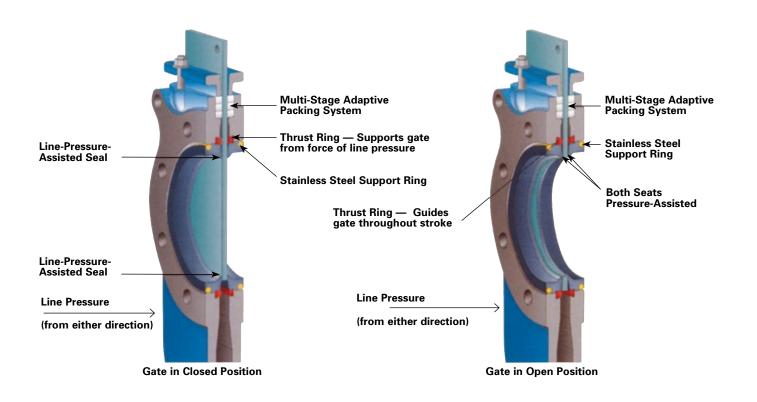
Unique, Pressure-Assisted Seat

Unival Ported Gate Valves provide bubble-tight, bi-directional shut-off. In the open position, both seats provide a pressure-assisted seal. In the closed position, the upstream seal is line-pressure assisted.



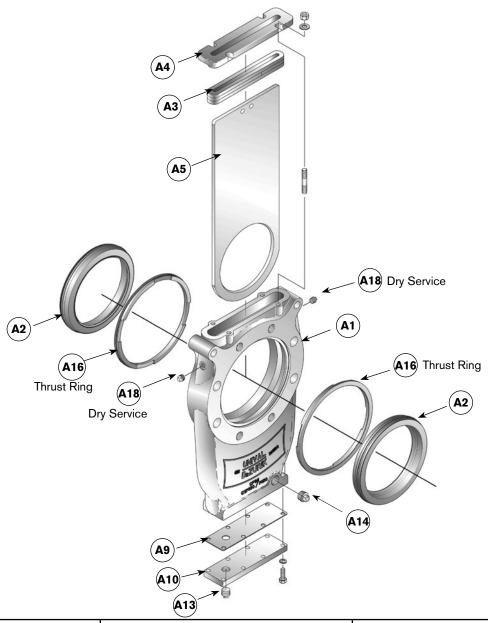
Improved Packing Sealing System

This innovative design includes thrust rings to support the full load of the gate. The thrust rings absorb the stress of gate movement throughout the valve stroke, keeping the gate centered in the body and packing chamber.



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Materials of Construction



Item	Description	Ductile Iron Body 2-24" (50-600mm)	316 Stainless Steel Body 2-24" (50-600mm)
A1	Body	Ductile iron, ASTM A536 65-45-12	316 stainless steel, ASTM A351 CF8M
A5	Gate	316 stainless steel, ASTM A240 T316	316 stainless steel, ASTM A240 T316
A4	Gland	Ductile iron, ASTM A536 65-45-12	316 stainless steel, ASTM A351 CF8M
A10	Bottom Cover	Carbon steel, ASTM A36	316 stainless steel, ASTM A240 T316
ATO	Fasteners	316 stainless steel	316 stainless steel
A2	Rubber Seat	See seat chart page 3	See seat chart page 3
А3	Packing	See packing chart page 3	See packing chart page 3
A9	Gasket	Synthetic fiber nitrile binder	Synthetic fiber nitrile binder
A13 & A14	Plug	Carbon steel, ASTM A36	316 stainless steel, ASTM A240 T316
A16	Thrust Ring	PPS/PTFE	PPS/PTFE
A18	Dry Service Plugs	Carbon steel, ASTM A36	316 stainless steel, ASTM A240 T316

Ordering

Valve Style

Give body code as follows:

PGV = Unival Ported Gate Valve, 2–24" (50–600mm) 150 psi C.W.P. (1034 kPa).

Valve Size

Give size code as follows:

O O O.E.O			
2	=	2"	(50mm)
3	=	3"	(80mm
4	=	4"	(100mm)
6	=	6"	(150mm)
8	=	8"	(200mm)
10	=	10"	(250mm)
12	=	12"	(300mm)
14	=	14"	(350mm)
16	=	16"	(400mm)
18	=	18"	(450mm)
20	=	20"	(500mm)
24	=	24"	(600mm)

End Style

Give end style code as follows:

W1 = ANSI 150 wafer

W110 = DIN 10 or BS 4504/10 drilling

W1J1 = JIS 10 drilling

On Application:

W116 = DIN 16 or BS 4504/16 drilling

W1D = B.S. Table D
W1E = B.S. Table E
W1CA = AS2129 Table C
W1DA = AS2129 Table D
W1EA = AS2129 Table E
Consult factory for optional flange drillings.

Body Material

Give body material code as follows:

DI = Ductile Iron 2-24" (50-600mm) S2 = 316 stainless steel 2-24" (50-600mm)

On Application:

CS = Carbon steel S3 = 317 stainless steel

TN = Titanium

AA = Alloy 20

HC = Hastelloy C

Additional material options available on request.

Gate Material

Give gate material code as follows:

S2 = 316 stainless steel

On Application:

S3 = 317 stainless steel

TN = Titanium

AA = Alloy 20

HC = Hastelloy C

S5 = 17-4 PH stainless steel hardened (RC43)

Plasmadize and Nedox coatings available.

Consult factory for information.

Packing Material

Give packing material code as follows:

- = Square braid, solid PTFE to 500°F (260°C) (contains lubricant). Recommended for all liquid or slurry applications except molten alkalai metals.
- ZJ = Square braided PTFE impregnated synthetic fiber with one ring PTFE rubber cord to 500°F (260°C) (contains no lubricant). Recommended for all dry service applications.
- ESP = Multi lock braided TFE with one ring EPDM rubber cord and Teflon Glass filled Anti-Extrusion Ring to 300°F (150°C) (contains no lubricants).

Other packing options available on request.

Trim Combination

Resilient Seat Material

Give resilient seat material code as follows:

FKM = Fluoro-rubber Viton to 350°F (177°C)

EPDM = Terpolymer of ethylene, propylene and a diene

to 250°F (121°C)

Note: Temperature limit of FKM exceeds temperature limit of standard thrust ring. Contact factory for special thrust ring on services with temperatures above 250°F (121°C)

Optional seat material codes:

CIIR = Chloro-isobutene-isoprene to 250°F (121°C)

CR = Chloroprene (Neoprene) to 180°F (82°C)

NBR = Acrylonitrile-butadiene (Nitrile) to 180°F (82°C)

NAR = Natural (gum) rubber to 180°F (82°C)

NBRW = White food grade nitrile to 180°F (82°C)

AF = Aflas 350°F (177°C)GF = Viton 350°F (177°C)

Thrust Ring

Give thrust ring material code as follows:

PT = PPS/PTFE 250°F (121°C)

Options

Give option code as follows, separate with dash if both are specified:

LC = Less lower body cover

DS = Dry service

Actuators

Add actuator code from following pages to basic valve code.

Valve Accessories

Order as separate item only. Enter ACC*FLS-PGV followed by dash, material code and valve size.

ACC* FLS = Flange seal

CS = Carbon steel 14 - 24" (350-600mm)

Required only if valve is installed in non-standard ANSI or international flanges. Refer to page 6 for face-to-face dimensions when using flange seals.

Ordering Example:

ACC*FLS-PGV-CS-14

Ordering Example:

PGV,4,W1,S2,S2,T,EPDM-PT*MN-HD12-CS

Rotary Manual Actuators

Valves through 12" (300mm) can be furnished with Handwheel or Chainwheel Actuators. Bevel Gear style Handwheel and Chainwheel Actuators are available on valve sizes 8–24" (200–600mm). Bevel Gear Actuators are available on smaller valve sizes on application. Standard yoke material is carbon steel. Stainless steel yokes are available on request. To order, add the appropriate code from the table to the basic valve order code.

Handwheel/Chainwheel Actuators and Bevel Gear Handwheel/Chainwheel Actuators

Valve Size		CWD (DN) ==:			
DN	Handwheel	Chainwheel	Bevel Gear Handwheel	Bevel Gear Chainwheel	CWP (PN) psi (kPa)
<u>2"</u> 50mm	2" Omm MN-HD12-CS MN-CW8-CS		-	_	<u>150</u> 1034
<u>3"</u> 80mm	MN-HD12-CS	MN-CW8-CS	-	-	150 1034
4 <u>"</u> 100mm	MN-HD12-CS	MN-CW8-CS	-	_	150 1034
<u>6"</u> 150mm	MN-HD12-CS	MN-CW12-CS	-	_	<u>150</u> 1034
<u>8"</u> 200mm	8" MN-HD16-CS MN-CW20-CS		MNB-HD12-CS	MNB-CW12-CS	<u>150</u> 1034
<u>10"</u> 250mm	MN-HD20-CS	MN-CW20-CS	MNB-HD12-CS	MNB-CW12-CS	150 1034
<u>12"</u> 300mm	MN-HD20-CS	MN-CW20-CS	MNB-HD12-CS	MNB-CW12-CS	<u>150</u> 1034
<u>14"</u> 350mm	-	_	MNB-HD16-CS	MNB-CW20-CS	<u>150</u> 1034
<u>16"</u> 400mm	16" – –		MNB-HD16-CS	MNB-CW20-CS	150 1034
<u>18"</u> 450mm	<u>18"</u> – – – 450mm		MNB-HD16-CS	MNB-CW20-CS	<u>150</u> 1034
<u>20"</u> 500mm	-	-	MNB-HD30-CS	MNB-CW30-CS	150 1034
24 <u>"</u> 600mm	-	_	MNB-HD30-CS	MNB-CW30-CS	150 1034

Ordering Example:

PGV,8,W1,S2,S2,T,CR-PT*MNB-HD12-CS

Cylinder Actuators

DeZURIK Unival Ported Gate Valves are available with Double-Acting Pneumatic or Hydraulic Cylinders. Maximum supply pressure is 100 psi (690 kPa) for Pneumatic Cylinders and 1500 psi (10,342 kPa) for hydraulic. Minimum supply pressure for hydraulic actuators is 1000 psi (6,895 kPa). Corrosion-resistant cylinder coatings are available on application. Consult factory for Spring Return Cylinder sizing information.

To order, add the appropriate code to the basic valve order code.

Ordering Example:

PGV,4,W1,S2,S2,T,CR-PT*CY-PC6-CS

Valve Size	Order	CWP (PN)	
DN	Pneumatic 60 psi (414 kPa)	Hydraulic 1000 psi (6,896 kPa)	psi (kPa)
<u>2"</u> 50mm	CY-PC6-CS	CY-H1.5-CS	<u>150</u> 1034
<u>3"</u> 80mm	CY-PC6-CS	CY-H2-CS	<u>150</u> 1034
100mm	CY-PC6-CS	CY-H2-CS	<u>150</u> 1034
<u>6"</u> 150mm	CY-PC8-CS	CY-H2-CS	<u>150</u> 1034
<u>8"</u> 200mm	CY-PC8-CS	CY-H2-CS	<u>150</u> 1034
<u>10"</u> 250mm	CY-PC10-CS	CY-H2-CS	<u>150</u> 1034
<u>12"</u> 300mm	CY-PC10-CS	CY-H2.5-CS	<u>150</u> 1034
<u>14"</u> 350mm	CY-PC12-CS	CY-H3.25-CS	<u>150</u> 1034
<u>16"</u> 400mm	CY-PC12-CS	CY-H3.25-CS	<u>150</u> 1034
<u>18"</u> 450mm	CY-PC14-CS	CY-H4-CS	<u>150</u> 1034
<u>20"</u> 500mm	CY-PC14-CS	CY-H4-CS	<u>150</u> 1034
<u>24"</u> 600mm	CY-PC14-CS	CY-H4-CS	<u>150</u> 1034

Accessories

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.

Position Indicating Switches

Position Indicating Switches are available for use on double-acting cylinder actuators. Order as part of a complete valve/actuator assembly by adding the appropriate code from the table below to the valve and actuator order code. Two switches will automatically be set to indicate full open and full closed positions.

Two Switches - Open/Closed

Description Switch Type		Rating	Order Code
2 SPDT	Mechanical	Nema 1,3,4,6,13	SE649
2 DPDT	Mechanical	Nema 1,3,4,6,13	SE524
2 SPDT	Mechanical	Nema 1,3,4,6,7,9,13	SEH95
2 DPDT	Mechanical	Nema 1,3,4,6,7,9,13	SEH96
2 SPDT, Brass Housing	Proximity	No Approval	SEH93
2 SPDT, ST Housing	Proximity	UL, CSA, FA*	SEH94

^{*}Class I, Div. 1, Group A,B,C,D, Class II, Groups E,F,G

One Switch - Open

Description Switch Type		Rating	Order Code
1 SPDT	Mechanical	Nema 1,3,4,6,13	SEJ40
1 DPDT	Mechanical	Nema 1,3,4,6,13	SEJ42
1 SPDT	Mechanical	Nema 1,3,4,6,7,9,13	SEJ46
1 DPDT	Mechanical	Nema 1,3,4,6,7,9,13	SEJ44
1 SPDT, Brass Housing	Proximity	No Approval	SEJ36
1 SPDT, SST Housing	Proximity	UL, CSA, FA*	SEJ38

One Switch - Closed

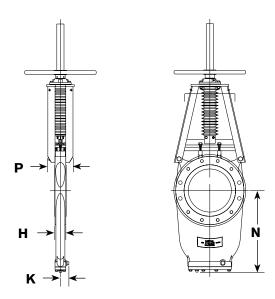
Description	Switch Type	Rating	Order Code
1 SPDT	Mechanical	Nema 1,3,4,6,13	SEJ41
1 DPDT	Mechanical	Nema 1,3,4,6,13	SEJ43
1 SPDT	Mechanical	Nema 1,3,4,6,7,9,13	SEJ47
1 DPDT	Mechanical	Nema 1,3,4,6,7,9,13	SEJ45
1 SPDT, Brass Housing	Proximity	No Approval	SEJ37
1 SPDT, SST Housing	Proximity	UL, CSA, FA*	SEJ39

Ordering Example:

PGV, 4, WI, S2, S2, T, EPDM-PT*CY-PC6-CS*SEH96

Dimensions

Basic Valve 2-24" (50-600mm)



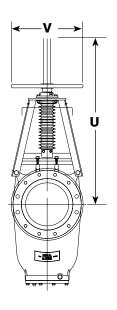
Basic Valve

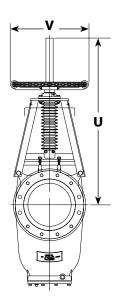
Valve			Dimensions	<u> </u>	
Size DN	H H Flange Standard Seal		К	N	Р
<u>2"</u>	<u>1.88</u>	<u>2.31</u>	<u>1.56</u>	<u>6.34</u>	<u>4.38</u>
50mm	48	59	40	161	111
<u>3"</u>	<u>2.00</u>	<u>2.44</u>	<u>1.62</u>	<u>7.84</u>	<u>5.00</u>
80mm	51	62	41	199	127
100mm	<u>2.00</u>	<u>2.44</u>	<u>1.72</u>	9.63	<u>5.00</u>
	51	62	44	245	127
<u>6"</u>	<u>2.25</u>	<u>2.81</u>	<u>1.85</u>	<u>12.93</u>	<u>5.25</u>
150mm	57	71	47	328	133
<u>8"</u>	<u>2.75</u>	<u>3.31</u>	<u>2.10</u>	<u>16.91</u>	<u>6.75</u>
200mm	70	84	53	430	171
<u>10"</u>	<u>2.75</u>	<u>3.31</u>	<u>2.23</u>	<u>19.66</u>	<u>6.75</u>
250mm	70	84	57	499	171
<u>12"</u>	<u>3.00</u>	<u>3.56</u>	<u>2.35</u>	<u>22.72</u>	<u>7.00</u>
300mm	76	90	60	577	178
<u>14"</u>	<u>3.00</u>	<u>3.81</u>	<u>2.35</u>	<u>24.57</u>	<u>7.00</u>
350mm	76	97	60	624	178
<u>16"</u>	<u>3.50</u>	<u>4.31</u>	<u>2.60</u>	<u>27.69</u>	<u>7.50</u>
400mm	89	109	66	703	191
<u>18"</u>	<u>3.50</u>	<u>4.31</u>	<u>2.78</u>	<u>30.63</u>	<u>7.50</u>
450mm	89	109	71	778	191
<u>20"</u>	<u>4.50</u>	<u>5.56</u>	<u>3.28</u>	<u>34.79</u>	<u>8.50</u>
500mm	114	141	83	884	216
<u>24"</u>	<u>4.50</u>	<u>5.56</u>	<u>3.28</u>	<u>41.01</u>	<u>8.50</u>
600mm	114	141	83	1042	216

Inches Millimeters

Handwheel

Chainwheel



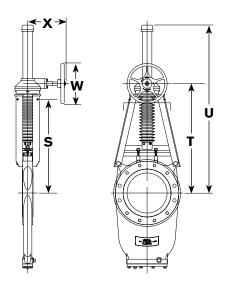


Handwheel/Chainwheel

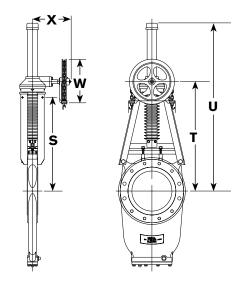
Valve	Dimensions							
Size DN	H Standard	H Flange Seal	К	N	Р			
<u>2"</u>	<u>1.88</u>	<u>2.31</u>	<u>1.56</u>	<u>6.34</u>	<u>4.38</u>			
50mm	48	59	40	161	111			
<u>3"</u>	<u>2.00</u>	<u>2.44</u>	<u>1.62</u>	<u>7.84</u>	<u>5.00</u>			
80mm	51	62	41	199	127			
<u>4"</u>	<u>2.00</u>	<u>2.44</u>	<u>1.72</u>	<u>9.63</u>	<u>5.00</u>			
100mm	51	62	44	245	127			
<u>6"</u>	<u>2.25</u>	<u>2.81</u>	<u>1.85</u>	<u>12.93</u>	<u>5.25</u>			
150mm	57	71	47	328	133			
<u>8"</u>	<u>2.75</u>	<u>3.31</u>	<u>2.10</u>	<u>16.91</u>	<u>6.75</u>			
200mm	70	84	53	430	171			
<u>10"</u>	<u>2.75</u>	<u>3.31</u>	<u>2.23</u>	<u>19.66</u>	<u>6.75</u>			
250mm	70	84	57	499	171			
<u>12"</u>	<u>3.00</u>	<u>3.56</u>	<u>2.35</u>	<u>22.72</u>	<u>7.00</u>			
300mm	76	90	60	577	178			
<u>14"</u>	<u>3.00</u>	<u>3.81</u>	<u>2.35</u>	<u>24.57</u>	<u>7.00</u>			
350mm	76	97	60	624	178			
<u>16"</u>	<u>3.50</u>	<u>4.31</u>	<u>2.60</u>	<u>27.69</u>	<u>7.50</u>			
400mm	89	109	66	703	191			
<u>18"</u>	<u>3.50</u>	<u>4.31</u>	<u>2.78</u>	<u>30.63</u>	<u>7.50</u>			
450mm	89	109	71	778	191			
<u>20"</u>	<u>4.50</u>	<u>5.56</u>	<u>3.28</u>	<u>34.79</u>	<u>8.50</u>			
500mm	114	141	83	884	216			
600mm	<u>4.50</u>	<u>5.56</u>	<u>3.28</u>	<u>41.01</u>	<u>8.50</u>			
	114	141	83	1042	216			

Inches Millimeters

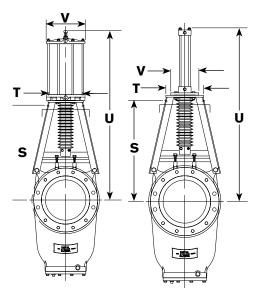
Bevel Gear - Handwheel



Bevel Gear - Chainwheel



Cylinder – Pneumatic Hydraulic



Bevel Gear - Handwheel and Chainwheel

Valve	Dimensions					
Size	S	т	. .	v	V	x
DN	า		U	Handwheel	Chainwheel	^
<u>8"</u>	<u>19.06</u>	<u>23.88</u>	<u>35.44</u>	<u>12.00</u>	<u>12.75</u>	<u>11.38</u>
200mm	484	607	900	305	324	289
<u>10"</u>	<u>23.11</u>	<u>28.00</u>	<u>41.56</u>	<u>12.00</u>	<u>12.75</u>	<u>11.38</u>
250mm	587	711	1056	305	324	289
<u>12"</u>	<u>27.68</u>	<u>32.75</u>	<u>50.31</u>	<u>12.00</u>	<u>12.75</u>	<u>11.38</u>
300mm	703	832	1278	305	324	289
<u>14"</u>	<u>30.57</u>	<u>35.62</u>	<u>53.12</u>	<u>16.00</u>	<u>20.06</u>	<u>11.38</u>
350mm	776	905	1349	305	510	289
<u>16"</u>	<u>33.75</u>	<u>38.81</u>	<u>56.34</u>	<u>16.00</u>	<u>20.06</u>	<u>11.38</u>
400mm	857	986	1431	305	510	289
<u>18"</u>	<u>37.88</u>	<u>43.38</u>	<u>65.88</u>	<u>16.00</u>	<u>20.06</u>	<u>11.38</u>
450mm	962	1102	1673	305	510	289
<u>20"</u>	<u>41.66</u>	<u>47.25</u>	<u>69.75</u>	<u>30.00</u>	<u>29.75</u>	<u>11.38*</u>
500mm	1058	1200	1772	610	756	289
<u>24"</u>	<u>48.15</u>	<u>53.75</u>	<u>82.28</u>	<u>30.00</u>	<u>29.75</u>	<u>11.38*</u>
600mm	1223	1365	2090	610	756	289

Inches Millimeters

*X dimension is 14.88" (378mm) on Handwheel Bevel Gear Actuators.

Cylinder - Pneumatic and Hydraulic

<u> </u>	1 neumane and mydraume						
Valve	Dimensions						
Size			ι	J	v	W	
DN	S	Т	Pneumatic	Hydraulic	Pneumatic	Hydraulic	
<u>2"</u>	_	7.00	23.12	19.84	7.88	6.12	
50mm		178	587	504	200	155	
<u>3"</u>	-	<u>7.00</u>	<u>23.31</u>	22.03	7.88	<u>6.12</u>	
80mm		178	592	560	200	155	
<u>4"</u>	_	<u>7.00</u>	<u>26.00</u>	<u>24.72</u>	<u>7.88</u>	<u>6.12</u>	
100mm		178	660	628	200	155	
6"	ı	<u>7.00</u>	<u>31.62</u>	30.22	<u>10.25</u>	<u>6.12</u>	
150mm		178	803	768	260	155	
<u>8"</u>	<u>19.06</u>	10.50	<u>37.50</u>	<u>35.41</u>	<u>10.25</u>	<u>7.50</u>	
200mm	484	267	953	899	260	191	
<u>10"</u>	<u>23.11</u>	<u>10.50</u>	<u>43.50</u>	<u>43.56</u>	<u>12.31</u>	<u>7.50</u>	
250mm	587	267	1105	1106	313	191	
<u>12"</u>	<u>27.68</u>	<u>10.50</u>	<u>50.81</u>	<u>48.38</u>	<u>12.31</u>	<u>7.75</u>	
300mm	703	267	1291	1229	313	197	
<u>14"</u>	30.57	<u>10.50</u>	<u>57.19</u>	<u>52.88</u>	<u>17.00</u>	<u>7.75</u>	
350mm	776	267	1453	1343	432	197	
<u>16"</u>	<u>33.75</u>	<u>10.50</u>	<u>62.44</u>	<u>58.09</u>	17.00	<u>7.75</u>	
400mm	857	267	1586	1475	432	197	
<u>18"</u>	<u>37.88</u>	<u>13.75</u>	<u>69.75</u>	<u>65.62</u>	<u>17.00</u>	<u>9.00</u>	
450mm	962	349	1772	1667	432	229	
<u>20"</u>	<u>41.66</u>	<u>13.75</u>	<u>76.00</u>	<u>71.88</u>	<u>17.00</u>	<u>9.00</u>	
500mm	1058	349	1930	1826	432	229	
<u>24"</u>	<u>48.15</u>	<u>13.75</u>	<u>86.56</u>	<u>82.41</u>	<u>17.00</u>	<u>9.00</u>	
600mm	1223	349	2199	2093	432	229	

<u>Inches</u> Millimeters

Sales and Service

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