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Dezurik bhp high performance butterfly valves



Time-Tested, Exceptional Performance

DeZURIK BHP High Performance Butterfly Valves are specially designed for applications in the chemical, hydrocarbon processing, pulp & paper, water & wastewater and HVAC industries worldwide. The valve was designed with an understanding that process industries need products that provide exceptional performance while reducing the total cost of ownership.

BHP butterfly valves have been rigorously tested to meet industry performance requirements. A fully supported one-piece shaft and heavy-duty bearings ensure perfect alignment of seat and disc leading to long life and trouble-free performance.

DeZURIK offers a wide variety of seat options including PTFE seat, reinforced PTFE seat, flexible metal seat and a dual seat.

DeZURIK BHP Butterfly Valves combine extreme service capabilities with features which have been time-tested for over 30 years.

Wafer or Lugged Body Styles

BHP butterfly valves are available in both lugged and wafer bodies in sizes 2–60" (50–1500mm). Body materials include Carbon Steel, 316 stainless steel, 317 stainless steel and higher alloys. In addition, DeZURIK regularly supplies valves in materials such as Hastelloy C, Monel, Alloy 20, and Titanium.

Material Certification

Materials chosen for the construction of the BHP butterfly valve are certified per ASME B16.34.

Face-To-Face Options

DeZURIK offers valve face-to-face dimensions in compliance with API 609, MSS SP-68 and ASME B16.1.





Flange Drilling Options

Flange drilling conformance to ASME 150, PN10/16 (ISO, DIN, BS, JIS) and ASME 300, PN25/40 (ISO, DIN, BS, JIS).

Full Bi-Directional Seating

Dual Seat, PTFE, and reinforced PTFE seats provide full bi-directional seating.

Dead-End Service

BHP lugged body style allows installation in dead-end service to the full pressure rating of the valve.

Flange Gasket Compatibility

Standard construction provides effective sealing with ASME B16.20 gaskets (formerly API 601). The standard seat retainer is drilled to meet the requirements of API 609 standard. As an option, an undrilled seat retainer is available to provide full gasket seal area contact. The seat retaining ring is nested in the valve body, providing support and protection for the seat and a captured blow-out resistant body-to-retainer seal.

Recommended for Critical Applications

BHP butterfly valves are designed to handle everything from general applications to viscous and corrosive liquids; corrosive gases; and steam. They have been successfully applied in extreme services, including:

- high temperature services
- · cryogenic applications
- · throttling steam control
- · polymerizing media
- · liquor service with entrained solids
- · high cycle industrial gas
- process gas-off applications
- · paper stock isolation
- vacuum pump isolation
- · corrosive chemical service (titanium construction)
- · fire-safe refinery & chemical service
- heat transfer service
- · throttling hydrocarbon service

Proven Performance & Reliability

To ensure accurate and reliable performance, BHP butterfly valves have been tested to the most demanding industry specifications:

- Performance tested in up to 5% consistency pulp stock isolation.
- Tested for over 1 million cycles in oxygen manufacturing service with zero leakage.
- · Fire tested to API 607, 6th edition.
- Tested in hydrogen peroxide service for over 75,000 cycles with zero leakage.
- Accuracy to repeat signal changes as small as 0.5% of total signal.



Offset Disc Design

The offset disc design provides uninterrupted 360° sealing surface. The offset disc also minimizes the amount of seat-to-disc interference, lowering operating torque, increasing cycle life, and reducing the size of actuators required. Smaller actuators reduce initial purchase price and use less energy over time.

One-Piece Stainless Steel Shaft

The solid one-piece stainless steel shaft provides superior strength and disc support. The extra support provided by the one-piece shaft enhances alignment, ensuring a proper seal.



Solid Disc-To-Shaft Pinning

DeZURIK uses a reliable method for disc-to-shaft pinning. The 2–12" (50–300mm) valves utilize a wedge-shaped, tangential pin with a locking taper to ensure a tight connection between disc and shaft. On 14" (350mm) and larger, two pins mounted in compression offer a non-shear method of locking. Both connections place the pin, shaft and disc in compression load providing a much stronger connection. This solid pinning ensures no lost motion between shaft and disc, an essential feature for a control valve. Set screws and pins are securely locked in place, but can be removed if repairs are necessary.

Disc Centered In Body/Seat

Close-tolerance machined surfaces between the body and disc hubs ensure proper alignment and seating.

3

Multiple Shaft Bearings

The valve shaft is fully supported with bearings for high cycle capability. Bearing options include PTFE backed with 317 stainless steel or Hastelloy C and solid metal (nickel stainless steel, 316 stainless steel). The bearings also provide a large area of radial support, greatly reducing any possibility of shaft fatigue and breakage. The bearing has a low coefficient of friction, minimizing operating torque.

NACE Trim

BHP butterfly valves meet the requirements of ASME/NACE MR0175/ISO 15156. NACE trim (NT) is optional when "NS" bearing material is ordered and standard on all other combinations. When ordered with the "NT" option, the bearing material is 316 stainless steel nickel-plated and heat-treated.

Ease of Maintenance

DeZURIK BHP valves are easily repairable. In the unlikely event that a seat, disc or bearing needs to be replaced, the valve can be easily disassembled. Internal valve components can be replaced or repaired in minutes, not hours. There are no welds to remove or pins to drill out, and all fasteners are common sizes. All that is required is to remove the screws fastening the retainer to the body and the screw that locks the disc-to-shaft pin.



Features For Extended Service Life

Extended service life is an important attribute when considering a valve for a given application. DeZURIK realizes installation and replacement costs, combined with the costs of a process shutdown, are expensive. That's why DeZURIK has always been dedicated to designing and manufacturing valves that last longer and perform better.

Metal Seated Valves Incorporate an Independent Static Seal

DeZURIK's Class IV and Class V metal seated valves have a gasket between the valve body, seat and seat retainer which provides an independent static seal. Without this seal, corrosion or pitting on the body or seat retainer could cause leakage around the seat. This is of particular concern in valves of carbon steel construction, or in applications where stainless steel is prone to pitting due to corrosive precipitation.



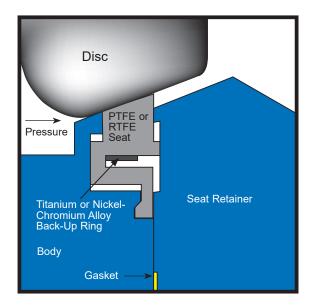
Compatible with Standard Actuators

High Performance Butterfly Valves are compatible with all DeZURIK standard actuators including levers, handwheels, chainwheels, PowerRac® cylinder, spring diaphragm, and Compak actuators.

Full Line of Accessories

Also available is a full line of accessories integrated with the actuator system including positioners, solenoids, switches, and speed controls.

Seat Designs



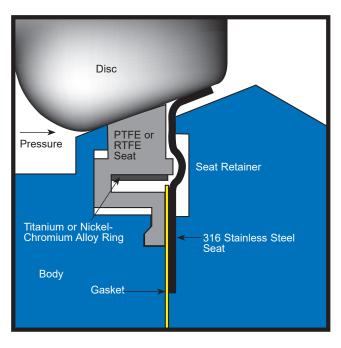
Spring & Pressure Assisted Soft Seats

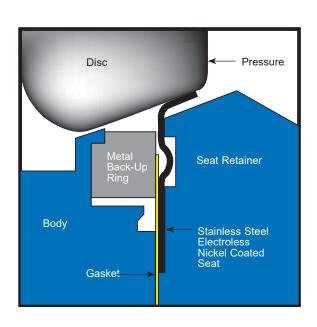
Pressure assisted soft seats, in either PTFE and reinforced PTFE, offer bi-directional bubble tight shutoff. Soft seat options include either a titanium or nickel-chromium alloy back-up ring which utilizes hoop stress to provide memory for the seat.

The unique PTFE / RTFE design seals as well at low pressures as it does at high pressures. The soft seats also provide tight shutoff in vacuum service applications.

High-Temperature & Low-Temperature Metal Seats

For high-temperature applications to 700°F (370°C) as standard and to over 1000°F (538°C), a metal seat of 316 stainless steel provides ANSI/FCI 70-2 Class IV or V shutoff even at elevated temperatures. For increased economy in applications to 450°F (232°C), the metal seat can be specified with lower temperature bearings, packing and paint. The metal seat is electroless nickel coated and heat treated for superior service without the use of costly, exotic seating materials.





Dual Seat Design

The dual seat design is ideal for applications in which scaling media can solidify on the disc edge. The secondary metal seat wipes the disc edge, protecting the PTFE or RTFE seat. For services requiring a fire-tested valve, the Fyre-Block® option with dual seat combines a primary PTFE soft seat with a secondary 316 stainless steel metal seat. This dual, bi-directional seat design provides positive sealing even when the resilient seat has been destroyed by fire.

The Fyre-Block® option with dual seat design meets the API 607 standard, 6th Edition.

Special Construction Options

Fugitive Emissions Packing Systems

To enable manufacturers to meet clean air regulations, DeZURIK offers options for fugitive emissions control including live loaded and dual packing sets. Dual packing options feature a primary and secondary packing set, lantern ring and emissions sniffing port. When required, the packing gland can be live loaded with spring washers to maintain compression, even through extreme thermal cycling. Live loaded and dual packing options have been cycle tested per EPA method 21 and have been proven to provide long service life with emissions control well below Clean Air Act regulations of 500 parts per million. Live loaded packing and dual packing sets are available in the BHP butterfly valve with a bolt-on packing chamber.



NSF/ANSI 61, 372 Certified for Drinking Water

DeZURIK BHP High Performance Butterfly Valves are specially designed for critical applications in the water industry, where high pressures, high velocity flows and stainless steel construction are required. When specified, DeZURIK BHP Valves are certified to meet the NSF/ANSI-61, 372 standard *Drinking Water Systems Components – Lead Content* which provides recognized safety in municipal water service.

Typical Water Applications High Service Pumps:

- Transmission lines requiring NSF 61, 372 approval
- Pressures over 250 psi (1720 kPa)
- Pump isolation at pressures in excess of 250 psi (1720 kPa)
- Control Check service at pressures in excess of 300 psi (2070 kPa)

Typical Wastewater Applications

- Aeration lines in filter systems
- Oxygen and Ozone service



Fire-Tested Per API 607 Standard

The High Performance Butterfly Valve with Fyre-Block® FB construction and manual actuators are certified to API 607, 6th edition fire tests. Fyre-Block® valves offer a seat and seal design that provides positive sealing, even when the resilient material has been burned away. It is also certified to ISO 10497:2010.



BTG Tail Gas Butterfly Valves

DeZURIK has specially designed the Tail Gas High Performance Butterfly Valve to meet the rigorous requirements of services where polymerization or solidification of media can prevent valve operation, including: Tail gas service in refinery sulfur recovery units, polymer processing or adhesive manufacturing.

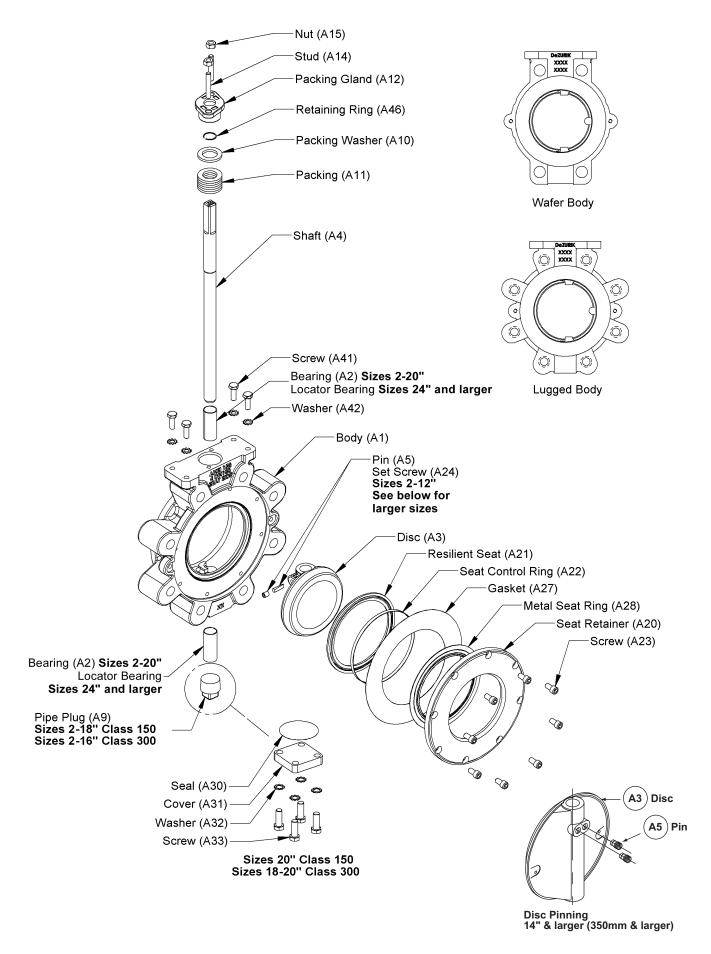
DeZURIK standard High Performance Butterfly Valves are available with standard steam jackets for less rigorous requirements, but Tail Gas Valves include unique features which keep the valve at process temperature and protect critical bearing and seat areas. In addition to steam jacketing the body, internal steam passage ports are located near the upper and lower body bearings. These features prevent hydrogen sulfide and other media from solidifying, freezing the bearings, damaging the seat and preventing tight shutoff. NACE trim is standard (NACE MR0175) with 316 stainless steel bearing.

Critical Service Valve Cleaning & Packaging

Meeting the highest standards for special valve cleaning and packaging services is of paramount importance for DeZURIK. In order to ensure proper cleaning procedures are performed on BHP High Performance Butterfly valves intended for oxygen, ozone, chlorine, hydrogen peroxide, isocyanate and other applications, DeZURIK has constructed a dedicated clean room within its Sartell manufacturing plant. Our professional, skilled and trained cleaning technicians maintain a safe environment for a wide variety of cleaning services.

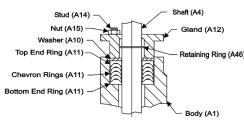


Materials of Construction

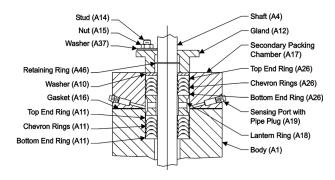


Packing Options

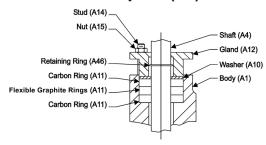
Standard PTFE V-Flex Packing (TC)



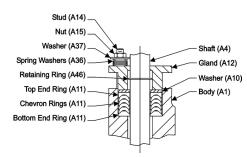
PTFE V-Flex, Dual Seal, Low Cycle Packing (TCD)



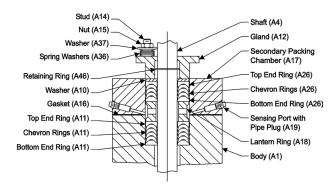
Standard Carbon Graphite (G1)



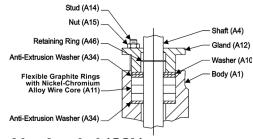
PTFE V-Flex Packing, Live Loaded, Low Cycle (TCL)



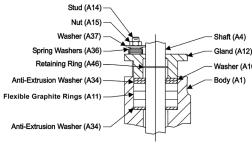
PTFE V-Flex, Dual Seal, Live Loaded, Low Cycle Packing (TCDL)



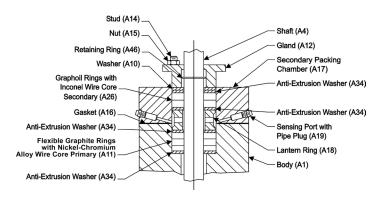
Flexible Carbon Graphite (G2)



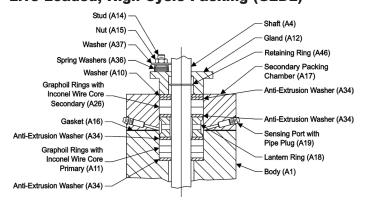
Flexible Carbon Graphite, High Cycle Live Loaded (G2L)



Flexible Carbon Graphite, Dual Seal, High Cycle Packing (G2D)



Flexible Carbon Graphite, Dual Seal, Live Loaded, High Cycle Packing (G2DL)



Materials of Construction

ltom	Description	Metaviel
Item	Description	Material Control ACTM ACCO Control MCC
		Carbon Steel, ASTM A216, Grade WCB
A1	Body	316 Stainless Steel, ASTM A351, Grade CF8M
		317 Stainless Steel, ASTM A351, Grade CG-3M except with .03% max carbon
		PTFE Fabric with 317 Stainless Steel Backing, to 500°F (260°C)
	Bearing	316 Stainless Steel, Diffusion Hardened, to 700°F (371°C)
A2		Nickel Stainless Steel ASTM A494, Grade CY5SnBiM, to 700°F (371°C)
,	2509	316 Stainless Steel Nickel Coated, Heat Treated, to 700°F (371°C)
		316 Stainless Steel, Diffusion Hardened, to 700°F (371°C)
		PTFE Fabric with Hastelloy C Backing, to 500°F (260°C)
		316 Stainless Steel, ASTM A351, Grade CF8M
A3	Disc	316 Stainless Steel, ASTM A351, Grade CF8M, Nickel Overlay, Heated Treated to RC70
		317 Stainless Steel, ASTM A351, Grade CG-3M except with .03% max carbon
		2205 Duplex Stainless Steel, ASTM A276 Type 2205
A4	Shaft	17-4 PH Stainless Steel, ASTM A 564, Type 630, Cond H1150 per NACE MR-01-75
		316 Stainless Steel, ASTM A479, Type 316
		Nitrogren-Strengthened Austenitic Alloy ASTM A479, Type XM-19, Condition A,
A5	Pin	to NACE MR0175/ISO 15156
		316 Stainless Steel, ASTM A276, Type 316, Flash Chrome Plate
		Carbon Steel, ASTM A216, Grade WCB, Galvanized
A9	Pipe Plug	316 Stainless Steel, ASTM A351, Grade CF8M
		317 Stainless Steel, ASTM A240, Type 317
		316 Stainless Steel, ASTM A240, Type 316
	Packing Washer	316 Stainless Steel, ASTM A276, Type 316, Condition A
A10		316 Stainless Steel, ASTM A511, Type 316
		317 Stainless Steel, A167, Type 317
		PTFE, V-Flex
A11	Packing	Carbon Graphite
		317 Stainless Steel, ASTM A351, Type 317
A12	Packing Gland	316 Stainless Steel, ASTM A511, Grade MT316
A14	Stud	316 Stainless Steel
A15	Gland Nut	316 Stainless Steel
	-	
A16	Gasket	Carbon Graphite/Stainless Steel
A19	Pipe Plug	316 Stainless Steel
400	0 1011	Carbon Steel, ASTM A516, Grade 70 or ASTM A216, Grade WCB
A20	Seat Retainer	316 Stainless Steel, ASTM A240, Type 316 or ASTM A351, Grade CF8M
		317 Stainless Steel, ASTM A240, Type 317
A21	Resilient Seat	PTFE, White Virgin
		RTFE, 10% Carbon Graphite Filled PTFE
A22	Seat Control Ring	Titanium, ASTM B265, Grade 3
,	Cour Common rung	Nickel-Chromium Alloy
A23	Screw	316 Stainless Steel
7120	Corew	317 Stainless Steel
A24	Set Screw	316 Stainless Steel
M24	Jet Jolew	317 Stainless Steel, ASTM A167, Type 317
A27	Gasket	Carbon Graphite, Commercial Grade GTB
A28	Metal Seat Ring	316 Stainless Steel, ASTM A240, Type 316, Condition A
A30	Cool	PTFE
A3U	Seal	Carbon Graphite, Commercial Grade GTB
461	0	Carbon Steel, ASTM A516, Grade 70
A31	Cover	316 Stainless Steel, ASTM A240, Type 316, Condition A
4.5.7		410 Stainless Steel
A32	Lock Washer	316 Stainless Steel
A33	Screw	Stainless Steel, ASTM A193, Grade B8M, Class 1 or 2
A34	Anti-Extrusion Washer	PTFE/317 Stainless Steel (See page 7)
A37	Washer	Steel, Zinc Plated (See page 7)
		410 Stainless Steel
A42	Lock Washer	316 Stainless Steel
A46	Retaining Ring	303 Series Stainless Steel
A40	I verailing trillà	000 Octios Oldifficss Ofeci

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Valve Selection

Applicable Standards

DeZURIK BHP Hi and/or tested to	gh Performance Butterfly Valves are designed meet the following standards:
ASME B16.1	Cast Iron Pipe Flanges and Flanged Fittings. Class 150 valves mate with pipeline flanges conforming to the Class 125 requirements and Class 300 valves are designed to mate with Class 250 pipe flanges.
ASME B16.20	Metallic Gaskets for Pipe Flanges Ring-Joint, Spiral-Wound, and Jacketed. End connections compatible (within the limits of API 609) with spiral-wound gaskets in accordance with API 601 gaskets. Optional undrilled seat retainer (UR) construction available to provide full seal area contact with API 601 gaskets
ASME B16.34	Valves-Threaded and Welded End. All BHP Butterfly Valves comply with requirements of this standard.
ASME B16.47	Pipe Flanges and Flanged Fittings. Class 150, Series A, Table I-29; Class 300, Series A, Table I-30. Sizes 28" (700mm) and larger are designed to mate with pipeline flanges conforming to the Series A requirements, Large Diameter Steel Flanges.
ASME B16.5	Pipe Flanges and Flanged Fittings. 2–24" (80-300mm) valves are designed to mate with Class 150 or 300 flanges.
ANSI/FCI 70-2	Control Valve Seat Leakage. Metal-seated valves conform to the Class IV leak rate requirements. All valves are tested to Class IV. If Class V is required, it must be specified as an option to allow for test differences. PTFE and RTFE seat options meet or exceed Class VI requirements.
API 598	Seat/Shell Test. Resilient and Dual Seated Valves meet the leak rate requirements of this standard.
API 607	Fire Test for Soft Seated, Quarter-Tum Valves, 6th Edition. Valves with Fyre-Block (FB) option conform to this requirement.
API 609	Face-to-face dimensions for 3-24" valves conform to Category B Class 150 and Class 300 requirements (Sizes 2", 2.5" and 5 are not named in this standard). Class 150 sizes 28" and large conform to the requirements of Category A.
AWWA C207	Class 150, Class D (175-150 psi), Table 3 and Class E (275 psi) Table 4.
BS 4504	Conforms to flange bolt guide and pressure ratings.
BS 5146	Inspection and Test of Steel Valves for the Petroleum, Petrochemical and Allied Industries. Dual Seated valves with Fyre-Block (FB) option meet with fire portion of standard.
DIN 2632	Conforms to flange bolt guides and pressure 2635 ratings.
DIN 3230	Leak Rate 1 Requirement. Resilient and Dual Seated Valves meet the leak rate requirements of this standard.
EN 29001	DeZURIK manufacturing processes comply with this quality standard.
ISA D79.01	Level 2 Leak Rates Cryogenic Tests ISA A75.02 Standard Control Valve Capacity Test Procedure.
ISO 5208	Conforms to pressure testing requirements of this standard.
ISO 5211	Conforms to flange bolt guide and pressure ratings.
ISO 5752	All valves designed to comply with face-to-face dimensions.
ISO 7005	Conforms to flange bolt guide and pressure ratings.
ISO 9001	DeZURIK manufacturing processes certified to this quality standard.
JIS B2212	Conforms to flange bolt guide and pressure ratings.
MSS SP-25	Standard Marking System for Valves, Fittings, Flanges, and Unions. All valves comply with requirements of this standard.
MSS SP-44	Steel Pipeline Flanges, Class 150, Annex C, Table C3; Class 300, 740 psi, Annex C, Table C4.
MSS SP-61	Pressure Testing of Steel Valves.
MSS SP-68	High Pressure Offset Seat Butterfly Valves. All valves comply with the requirements of this standard.
NACE MR0175	Sulfide Stress Cracking Resistant Metallic Material for Oil Field Equipment. NACE trim is standard on all valves except metal seated. This construction available as an option with metal seated valves.
NSF/ANSI-61	Certified to NSF/ANSI-61 Drinking Water System Components.
NSF/ANSI-372	Certified to NSF/ANSI-372 with requirements for Lead-free as defined by CA, VT, MD, LA state laws and the US Safe Drinking Water Act.
PED Pressure Equipment Directive	Quality System for the design, manufacture, final inspection and testing meet provisions of the directive.

Shut-Off Capabilities

Seat Type	Shutoff Capability
PTFE & RTFE Seated	Bubble-Tight Shutoff with pressure on either side of the disc
Dual Seated	Class VI - DIN 1 Bubble-Tight Shutoff
Metal Seated	Standard, Class IV unidirectional on seat side.
ivietai Seateu	With optional C5, Class V unidirectional on seat side.

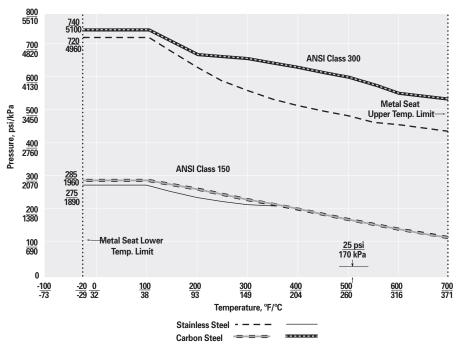
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Pressure Ratings (Ambient Temperature)

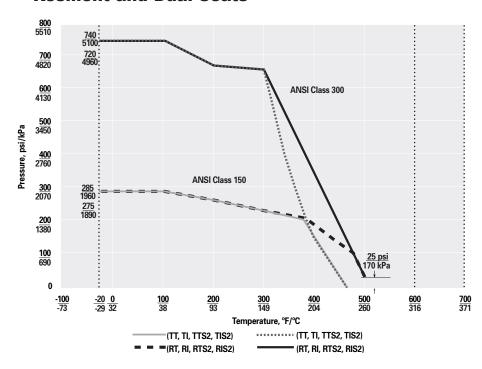
Body Material/Class	Pressure Rating
Carbon Steel, Class 150	285 psi (1960 kPa)
Carbon Steel, Class 300	740 psi (5100 kPa)
Stainless Steel, Class 150	275 psi (1890 kPa)
Stainless Steel, Class 300	720 psi (4960 kPa)

Pressure/Temperature Curves

Metal Seat



Resilient and Dual Seats

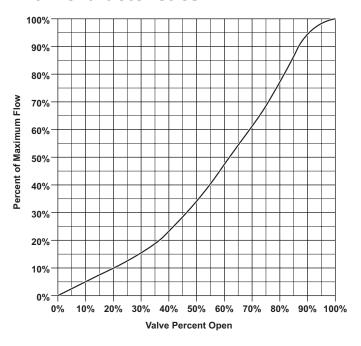


Valve Selection

Flow Parameters

Valve	Cla	ss 150	Clas	s 300
Size	Cv*/Kv* 100% Open	K Factor**	Cv*/Kv* 100% Open	K Factor**
<u>2"</u> 50mm	85 74	2.25	85 74	1.74
2.5" 65mm	<u>180</u> 156	1.02	<u>160</u> 138	1.01
<u>3"</u> 80mm	<u>275</u> 238	1.04	<u>260</u> 225	0.93
<u>4"</u> 100mm	<u>520</u> 450	0.87	<u>475</u> 411	0.85
<u>5"</u> 125mm	<u>860</u> 744	0.78	<u>770</u> 666	0.81
<u>6"</u> 150mm	<u>1360</u> 1176	0.65	<u>1130</u> 977	0.77
<u>8"</u> 200mm	<u>2260</u> 1955	0.71	<u>2110</u> 1825	0.68
<u>10"</u> 250mm	3550 3071	0.71	3350 2898	0.66
<u>12"</u> 300mm	<u>5000</u> 4325	0.72	4800 4152	0.65
<u>14"</u> 350mm	6800 5882	0.57	6390 5527	0.53
<u>16"</u> 400mm	9000 7785	0.56	8460 7318	0.52
<u>18"</u> 450mm	11800 10207	0.52	<u>11100</u> 13500	0.49
<u>20"</u> 500mm	14400 12456	0.54	13500 11678	0.51
<u>24"</u> 600mm	20000 17300	0.58	<u>17700</u> 15311	0.61
28" 700mm	27000 23355	0.67		DeZURIK
<u>30"</u> 750mm	33300 28805	0.53	26300 22750	0.74
<u>36"</u> 900mm	<u>56500</u> 48873	0.40	47000 40655	0.51
<u>42"</u> 1050mm	67000 57955	0.53	Contact	DeZURIK
<u>48"</u> 1200mm	<u>103000</u> 89095	0.39	Contact	DOZOININ
<u>54-60"</u> 1400-1500mm		Contact I	DeZURIK	

Flow Characteristics



^{*}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.

Weights

Basic Valve, Class 150

Valve Wafer Body Lugged Body Size Body Body 2" 3 7 50mm 2 4 2.5" 4 9 65mm 2 5 3" 10 11 80mm 5 5 4" 11 19 100mm 5 9 5" 18 26 125mm 9 12 6" 22 45 150mm 10 21 8" 36 46 200mm 17 21 10" 61 67 250mm 28 31 12" 100 145 300mm 46 66 14" 142 188 350mm 65 86 16" 192 243
2" 3 7 50mm 2 4 2.5" 4 9 65mm 2 5 3" 10 11 80mm 5 5 4" 111 19 100mm 5 9 5" 18 26 125mm 9 12 6" 22 45 150mm 10 21 8" 36 46 200mm 17 21 10" 61 67 250mm 28 31 12" 100 145 300mm 46 66 14" 144 188 350mm 65 86
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100mm 5 9 5" 18 26 125mm 9 12 6" 22 45 150mm 10 21 8" 36 46 200mm 17 21 10" 61 67 250mm 28 31 12" 100 145 300mm 46 66 14" 142 188 350mm 65 86
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8" 36 46 200mm 17 21 10" 61 67 250mm 28 31 12" 100 145 300mm 46 66 14" 142 188 350mm 65 86
200mm 17 21 10" 61 67 250mm 28 31 12" 100 145 300mm 46 66 14" 142 188 350mm 65 86
10" 61 67 250mm 28 31 12" 100 145 300mm 46 66 14" 142 188 350mm 65 86
250mm 28 31 12" 100 145 300mm 46 66 14" 142 188 350mm 65 86
12" 100 145 300mm 46 66 14" 142 188 350mm 65 86
300mm 46 66 14" 142 188 350mm 65 86
14" 142 188 350mm 65 86
350mm 65 86
400mm 88 111 18" 314 363
18" 314 363 450mm 143 165
20" 411 335
500mm 187 333 152
24" 665 800
600mm 302 363
20"
700mm Contact DeZURIK
<u>30"</u> <u>975</u> <u>1175</u>
750mm 443 534
<u>36"</u> <u>1560</u> <u>1900</u>
900mm 708 863
<u>42"</u> Contact <u>4507</u>
1050mm DeZURIK 2045
<u>48"</u> <u>4015</u> <u>4545</u>
1200mm 1822 2063
54-60" Contact DeZURIK
1400-1500mm Contact Dezorting

Basic Valve, Class 300

Malara		
Valve	Wafer Body	Lugged
Size		Body
2"	<u>4</u> 2	<u>11</u> 5
50mm		
<u>2.5"</u>	<u>6</u>	<u>18</u>
65mm	3	9
3"	8	<u>21</u>
80mm	4	10
<u>4"</u>	<u>14</u>	<u>35</u>
100mm	7	16
<u>5"</u>	<u>25</u>	<u>49</u>
125mm	12	23
<u>6"</u>	<u>28</u>	<u>64</u>
150mm	13	30
<u>8"</u>	<u>49</u>	<u>110</u>
200mm	23	50
<u>10"</u>	<u>79</u>	<u>175</u>
250mm	36	80
<u>12"</u>	<u>124</u>	<u>230</u>
300mm	57	105
<u>14"</u>	<u>182</u>	<u>232</u>
350mm	83	106
<u>16"</u>	246	312
400mm	112	142
18"	<u>402</u>	<u>465</u>
450mm	183	211
20"	<u>525</u>	<u>613</u>
500mm	239	279
24"	736	1025
600mm	334	466
30"		3000
750mm	Contact	1362
36"	DeZURIK	4350
900mm		1974

Pounds Kilograms

Note: Weights are approximate and do not include crating.

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:

High Performance Butterfly Valve

Valve Size

Give valve size code as follows:

2	=	2"	(50mm)	18	=	18"	(450mm)
2.5	=	2.5"	(65mm)	20	=	20"	(500mm)
3	=	3"	(80mm)	24	=	24"	(600mm)
4	=	4"	(100mm)	28	=	28"	(700mm)
5	=	5"	(125mm)	30	=	30"	(750mm)
6	=	6"	(150mm)	36	=	36"	(900mm)
8	=	8"	(200mm)	42	=	42"	(1050mm)
10	=	10"	(250mm)	48	=	48"	(1200mm)
12	=	12"	(300mm)	54	=	54"	(1400mm)
14	=	14"	(350mm)	60	=	60"	(1500mm)
16	=	16"	(400mm)				

End Connection

Give end connection code as follows:

Class 150 Wafer

ASME

W110 = DIN 10 or BS4504/10 Drilling DIN 16 or BS4504/16 Drilling W116 =

W1D B.S. Table D Drilling B.S. Table E Drilling W1J1 = JIS 10 Drilling

Class 150 Lugged

L110 = DIN 10 or BS4504/10 Drilling DIN 16 or BS4504/16 Drilling L116

B.S. Table D Drilling B.S. Table E Drilling L1J1 JIS 10 Drilling

Class 300 Wafer

ASME W225 =

DIN 25 or BS4504/25 Drilling DIN 40 or BS4504/40 Drilling W240 =

W2F B.S. Table F Drilling B.S. Table H Drilling B.S. Table J Drilling W2J2 = JIS 20 Drilling

Class 300 Lugged

ASME

DIN 25 or BS4504/25 Drilling DIN 40 or BS4504/40 Drilling L225 L240 B.S. Table F Drilling L2F

L2H B.S. Table H Drilling B.S. Table J Drilling L2J2 JIS 20 Drilling

Body Material

Give body material code as follows:

CS Carbon Steel 316 Stainless Steel

317 Stainless Steel (3-12" except 5" Class 150 Lugged only)

On Application

Allov 20 AA HC Hastelloy C Titanium Grade 3

Packing Material

Give packing material code as follows:

PTFE V-Flex, to 500°F (260°C) Carbon Graphite to 700°F (371°C)

Special Packing

Flexible Graphite to 1000°F (538°C)

PTFE V-Flex, Dual Seal, Low Cycle to 500°F (260°C) TCD

PTFE V-Flex, Dual Seal, Live Loaded, Low Cycle to 500°F (260°C) TCDL = TCL PTFE V-Flex, Live Loaded, Low Cycle to 500°F (260°C)

G2D Flexible Graphite, Dual Seal, High Cycle to 1000°F (538°C) G2L

Flexible Graphite, Live Loaded, High Cycle to 1000°F (538°C) Flexible Graphite, Dual Seal, Live Loaded, High Cycle to 1000°F (538°C) G2DL

Trim Combination

Disc Material

Give disc material code as follows:

316 Stainless Steel S2NH = 316 Stainless Steel Nickel Plated Heat Treated

(must use 17-4 PH Shaft material)

S3 317 Stainless Steel

(used with S10 Shaft, FT bearings and TT, TI, RT or RI seat)

On Application

Alloy 20

CSN Carbon Steel Nickel Coated (24" and larger only)

Carbon Steel Nickel Coated Heat Treated (24" and larger only) CSNH =

(must use 17-4 PH Shaft material)

HC Hastelloy C Monel

ML

TN3 Titanium Grade 3 (anodized)

Shaft Material (2-20")

Give shaft material code as follows:

2205 Duplex S10 S10B

2205 Duplex (used only with L1 or W1 end connection, CS or S2 body material & TT, TI, RT or RI seat)

S5A 17-4 PH Stainless Steel

S5B 17-4 PH Stainless Steel (used only with L1 or W1 End Connection CS or S2 Body

Material & TT/TI/RT/TI Seats)

Shaft Material (24-60")

316 Stainless Stee

S5 17-4 PH Stainless Steel

On Application (all sizes)

Alloy 20 AA

НС Hastelloy C

ML Monel T5C

Titanium Grade 5 (ceramic coated)

Bearing Material

Give bearing material code as follows:

PTFE Fabric with 317 Stainless Steel Backing, to 500°F (260°C) 316 Stainless Steel, Diffusion Hardened, to 700°F (371°C) Sizes 2-20" NS NS Nickel Stainless Steel ASTM A494, Grade CY5SnBiM, to 700°F (371°C)

Sizes 24" and Larger

NS 316 Stainless Steel Nickel Coated, Heat Treated, to 700°F (371°C)

Used with NT option

316 Stainless Steel, Diffusion Hardened, to 700°F (371°C) 24" and S2

Larger with NSF option

On Application

PTFE Fabric with Hastelloy C Backing, to 500°F (260°C)

Seat Seal/Seat Control Ring Material

Give seat material code as follows:

Standard Seats

PTFE/Titanium to 450°F (232°C) TTS2 =

PTFE/Titanium and 316 Stainless Steel to 450°F (232°C) S2

316 Stainless Steel, to 700°F (371°C), must use Graphite packing and NS bearings or to 450°F (232°C), recommended with TC packing and FT bearing. Not available on 5" valve.

Special Seats

PTFE/Nickel-Chromium Alloy, to 450°F (232°C). For oxygen service.

TIS2 PTFE/Nickel-Chromium Alloy and 316 Stainless Steel, to 450°F (230°C).

For oxygen service.

Reinforced PTFE/Titanium, to 500°F (260°C)

RTS2 = Reinforced PTFE/Titanium and 316 Stainless Steel, to 500°F (260°C) RI Reinforced PTFE/Nickel-Chromium Alloy, to 500°F (260°C) RIS2 Reinforced PTFE/Nickel-Chromium Alloy and 316 Stainless Steel, to 500°F (260°C)

Note: Any seat seal/seat control ring combination with S2 seat is not available in 5" (125mm) or 54" (1400mm) sizes

Ordering (Continued)

Options

Give options code as follows:

NSF = Certified to NSF/ASME Standard 61 Drinking Water System Components
FB = Conforms to ASME/API 607 Sixth Edition Fire Test for Soft-Seated Quarter
Turn Valves. API 607 Sixth Edition does not cover the testing requirements for

valve actuators other than manually operated gear boxes or levers.

BAA = Buy American Act

CRT = Certified Material Physical & Chemical Test Report

CMC = Certificate of Material Conformance
DTR = DeZURIK Standard Certified Production Hydrostatic Shell and Seat Test Report

UR = Undrilled Seat Retainer - Available on 2-10" lugged valves only.

Not rated for dead end service. = Class 5 Seat Test for (S2) metal seated valves per ASME B16.104/FCI70.2

15 = 150 psi Disc - 36" & Larger (Not available with Dual Seat, Fyre Block

or Metal Seats)

= ANSI/NACE MR0175/ISO 15156, Petroleum and natural gas industries, NT Materials for use in H2S-containing environments in oil and gas production. Specify (NT) NACE Trim when NS bearings are ordered. All other combinations are NACE Certified as standard.

API = Conforms to API-609 Butterfly Valves: Double Flanged, Lug- and Wafer-Type and API-598 Valve Inspection and Testing. Conformance to these API standards do not apply to valves with the (S2) metal seat because of allowable seat leak rate or valve sizes 2", 2.5" or 5".

On Application

Pressure Equipment Directive (CE Mark)

Ordering Example

BHP,6,W1,CS,TC,S2-S10-FT-TT*Actuator

NOTE: For High Temperature Service, the limiting factor in valve selection is the lowest temperature rating of the packing, bearing or seat seal material.

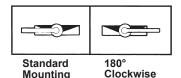
Manual Actuators

10-Position Levers

A 10-position dial provides positive latching in open, closed and eight intermediate positions. A pointer indicates position of disc plus a notch in the handle allows use of a padlock to prevent unauthorized valve operation.

Mounting

Lever actuators can be mounted at standard and 180° clockwise from standard. Specify mounting positions other than standard below the valve and actuator identification.



Ordering

Mounting

To order, add lever code LT to basic valve identification. Lever actuators available on 2-8" (50-200mm) Class 150 and Class 300 valve sizes only. Handwheel actuators are recommended for valve sizes over 6" (150mm) and where water hammer may occur due to a sudden valve closure. Maximum pipeline velocity for lever operated valve is 20 feet (6 meters) per second.

Lever Actuator Sizing Class 150

Valve	Order	Maximum Shutoff Pressure Differential psi/kPa						
Size	Code			S2/TTS2 & FB RTS2 & FB				
<u>2-6"</u>	LT	<u>285</u>	<u>285</u>	<u>285</u>				
50-150mm		1960	1960	1960				
<u>8"</u>	LT	<u>285</u>	<u>285</u>	<u>50</u>				
200mm		1960	1960	340				

Note: Stainless Steel valves are rated to 275 psi (1890 kPa).

Class 300

Valve	Order	Maximum Shutoff Pressure Differential psi/kPa						
Size	Code	TT/TI RT/RI	TTS2/TIS2 RTS2/RIS2	S2/TTS2 & FB RTS2 & FB				
2 & 4" 50 & 100mm	LT	<u>740</u> 5100	<u>740</u> 5100	<u>740</u> 5100				
<u>6"</u> 150mm	LT	<u>740</u> 5100	650 4480	<u>300</u> 2070				
<u>8"</u> 200mm	LT	<u>740</u> 5100	<u>450</u> 3100	<u>50</u> 340				

Note: Stainless Steel valves are rated to 720 psi (4960 kPa).

Ordering Example:

BHP,3,L1,S2,TC,S2-S10B-FT-TT*LT

Memory Stop

An adjustable memory stop is available which allows return of the valve to preset open position after shutoff. Order the memory stop as part of a complete valve, by adding "ST" after the actuator code.

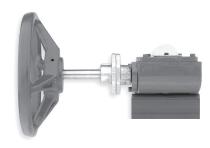
Ordering Example:

BHP,3,L1,S2,TC,S2-S10B-FT-TT*LT,ST

Actuators

MG Manual Gear Actuators

Manual gear actuator housings are constructed of high strength metal and feature sintered bronze bearings on each end of



the input shaft for durability and performance. The high strength gear provides strength for robust applications and a long service life without maintenance. All manual gear actuators feature external position indication and are available with safety lockout devices. Actuators for buried service are available as an option.

G-Series Manual and Cylinder Actuators

Rotary manual actuators feature a cast iron housing with bearings on each end of the input shaft for durability and performance.
The ductile iron gear



provides strength for robust applications and a long service life without maintenance. Rotary manual actuators are available with handwheel, chainwheel, or a 2" (50mm) square nut input option. Actuators feature external position indication and are available with safety lockout devices.

Compak Cylinder Actuators

Compak actuators are a versatile rack-and-pinion design and are available as double-acting or spring-return units.



The compact, modular design allows the actuator to be mounted for a low profile assembly. Compak actuators are matched to each valve's torque requirements to ensure that the most economical valve and actuator package is specified.

PowerRac® Cylinder Actuators

PowerRac double-acting and spring-return actuators feature a proven rack-and-pinion design. PowerRac® provides high torque output throughout the full stroke for accurate control.



Spring-Diaphragm Actuators

DeZURIK spring-diaphragm actuators feature all steel, cast iron and stainless steel construction with no aluminum parts to corrode in caustic environments. The output shaft is supported

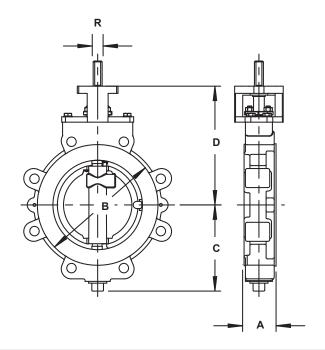


DeZURIK.com

at the top and bottom with bronze bearings that absorb side thrust and ensure smooth, efficient throttling control. Diaphragm actuators provide on-off or modulating control with either spring-to-spring or spring-to-close operation. All diaphragm actuators feature external position indication and are available with safety lockout devices.

Dimensions

Basic Valve

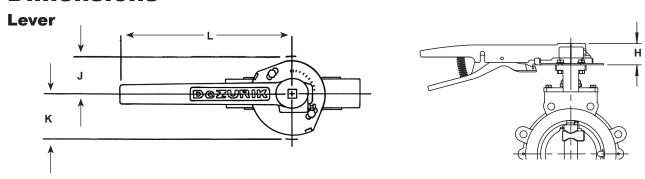


						Dimer	sions					
Valve	/	4		E	3		(С	ı)	R ([Dia.)
Size	Class	Class	Class 150		Clas	Class 300		Class	Class	Class	Class	Class
	150	300	Wafer	Lugged	Wafer	Lugged	150	300	150	300	150	300
<u>2"</u>	<u>1.75</u>	<u>1.75</u>	<u>4.31</u>	<u>6.06</u>	<u>4.31</u>	<u>6.44</u>	<u>3.31</u>	3.50	<u>5.50</u>	<u>5.50</u>	<u>0.371</u>	<u>0.371</u>
50mm	44	44	110	154	110	164	84	89	140	140	9	9
2.5"	1.88	1.88	5.00	7.00	5.00	7.44	3.44	4.00	<u>5.75</u>	6.00	0.371	0.434
65mm	48	48	127	178	127	189	87	102	146	152	9	11
	1.88	1.88	5.66	7.62	5.66	8.19	3.97	4.38	6.00	6.38	0.434	0.496
<u>3"</u> 80mm	48	48	144	7.62 194	<u>5.66</u> 144	208	3.97 101	4.38 102	152	162	11	13
<u>4"</u>	<u>2.12</u>	<u>2.12</u>	<u>6.78</u>	9.00	<u>6.78</u>	<u>9.75</u>	<u>4.75</u>	<u>5.06</u>	<u>6.75</u>	<u>7.75</u>	<u>0.496</u>	<u>0.621</u>
100mm	54	54	172	229	172	248	121	129	171	197	13	16
<u>5"</u>	<u>2.31</u>	<u>2.31</u>	<u>7.69</u>	10.00	<u>7.75</u>	<u>10.94</u>	<u>5.50</u>	<u>5.94</u>	<u>7.75</u>	<u>8.25</u>	<u>0.621</u>	<u>0.746</u>
125mm	59	59	195	254	197	278	140	151	197	210	16	19
<u>6"</u>	<u>2.31</u>	<u>2.44</u>	8.88	<u>11.00</u>	9.00	<u>12.44</u>	<u>6.50</u>	<u>7.16</u>	8.25	9.00	<u>0.746</u>	0.995
150mm	59	62	226	279	229	316	165	182	210	229	19	25
<u>8"</u>	2.50	2.88	<u>11.00</u>	13.50	<u>11.12</u>	<u>14.88</u>	<u>7.59</u>	<u>8.47</u>	9.50	10.75	<u>0.995</u>	<u>1.245</u>
200mm	64	73	279	343	282	378	193	215	241	273	25	32
<u>10"</u>	2.93	<u>3.36</u>	<u>13.75</u>	16.12	<u>13.25</u>	<u>17.50</u>	8.78	10.06	11.19	<u>12.62</u>	1.245	<u>1.495</u>
250mm	74	85	349	409	337	445	223	256	284	321	32	38
<u>12"</u>	3.28	<u>3.72</u>	<u>15.50</u>	<u>19.12</u>	<u>15.50</u>	<u>20.38</u>	<u>10.19</u>	<u>11.38</u>	<u>12.75</u>	<u>13.75</u>	<u>1.495</u>	<u>1.745</u>
300mm	83	95	394	486	394	518	259	289	324	349	38	44
14"	<u>3.61</u>	4.64	<u>16.50</u>	<u>21.00</u>	<u>16.62</u>	<u>22.25</u>	11.81	12.84	14.00	<u>16.88</u>	<u>1.495</u>	1.870
350mm	92	118	419	533	422	565	300	326	356	429	38	48
16"	3.99	5.26	18.75	23.50	18.69	24.50	12.94	13.81	15.75	14.25	1.620	1.995
400mm	101	134	476	597	475	622	329	351	400	362	41	51
<u>18"</u>	<u>4.43</u>	<u>5.89</u>	<u>21.25</u>	<u>25.00</u>	<u>21.38</u>	<u>27.00</u>	<u>14.31</u>	16.00	<u>18.62</u>	<u>15.50</u>	<u>1.870</u>	<u>2.245</u>
450mm	113	150	540	635	543	686	329	406	473	394	48	57
<u>20"</u>	<u>4.92</u>	<u>6.26</u>	23.25	27.75	23.50	<u>29.25</u>	<u>15.81</u>	<u>16.81</u>	20.56	16.75	<u>2.245</u>	2.449
500mm	125	159	591	705	597	743	402	427	522	425	57	63
24"	6.12	7.22	27.25	32.00	27.50	34.50	17.31	20.06	17.75	19.69	2.499	3.624
	155	183	692	813	699	876	440	510	451	500	63	92
600mm <u>28"</u> 700mm	6.50 165		—	36.50 927			19.88 505		20.00 508		2.998 76	
30"	6.50	<u>9.88</u>	<u>33.75</u>	38.75	<u>34.12</u>	43.00	21.06	<u>25.84</u>	21.12	25.00	2.999	<u>4.499</u>
750mm	165	251	857	984	867	1092	535	656	536	635	76	114
36"	7.88	10.88	40.25	46.00	40.88	50.00	25.38	28.75	25.00	28.50	3.624	5.000
900mm	83	276	1022	1168	1038	1270	645	730	635	724	92	127
42" 1050mm	9.88 251	_	53.00 1346	47.25 1200	_	_	28.94 735	-	30.00 762	_	4.499 114	
48" 1200mm	10.88 276	_	<u>59.50</u> 1511	53.81 1367	_	_	32.50 826	_	31.68 805	_	5.000 127	_
<u>54-60"</u> 1400-1500mm												

Inches Millimeters

NOTE: All dimensions are subject to change without notice. For piping layouts, request certified drawings.

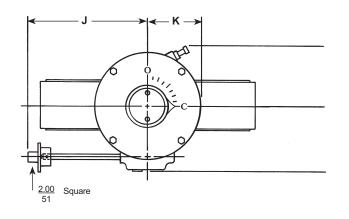
Dimensions

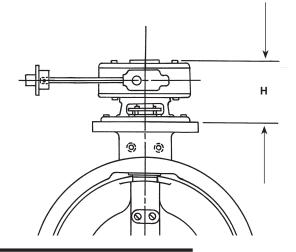


						Dimens	ions				
Valve Size		J		К		L					
	н	Class Class 150 300 Class 150		Class 300	Resilient Seats (RT, RI, TT & TI)		(TTS2, TIS	Seat 52, RTS2 & S2)	Metal Seat (S2)		
						Class 150	Class 300	Class 150	Class 300	Class 150	Class 300
<u>2"</u>	<u>2.00</u>	<u>2.00</u>	<u>2.00</u>	2.44	2.44	10.00	10.00	10.00	10.00	10.00	10.00
50mm	51	51	51	62	62	254	254	254	254	254	254
<u>2.5"</u>	2.00	2.00	2.00	2.44	2.44	10.00	10.00	10.00	10.00	10.00	10.00
65mm	51	51	51	62	62	254	254	254	254	254	254
<u>3"</u>	<u>2.00</u>	2.00	<u>2.00</u>	<u>2.44</u>	<u>2.44</u>	10.00	10.00	10.00	10.00	10.00	10.00
80mm	51	51	51	62	62	254	254	254	254	254	254
<u>4"</u>	<u>2.00</u>	<u>2.00</u>	3.00	<u>2.44</u>	3.56	10.00	10.00	10.00	10.00	10.00	10.00
100mm	51	51	72	62	90	254	254	254	254	254	254
<u>5"</u> 125mm	<u>2.00</u> 51	2.00 51	3.00 72	<u>2.44</u> 62	3.56 90	10.00 254	<u>14.00</u> 356	_	_	_	_
<u>6"</u>	<u>2.25</u>	3.00	3.00	3.56	3.56	14.00	<u>22.00</u>	14.00	<u>22.00</u>	<u>22.00</u>	<u>22.00</u>
150mm	57	72	72	90	90	356	559	356	559	559	559
<u>8"</u>	<u>2.25</u>	3.00	3.00	3.56	3.56	<u>22.00</u>	<u>22.00</u>	<u>22.00</u>	<u>22.00</u>	<u>22.00</u>	<u>22.00</u>
200mm	57	72	72	90	90	559	559	559	559	559	559

Inches Millimeters

2" (50mm) Square Nut, G-Series Actuator





Actuator	Dimensions						
Code	Н	J	K	L	M		
GS-12-N	10.37 263	<u>16.38</u> 416	<u>7.88</u> 200	<u>9.25</u> 235	<u>9.50</u> 241		

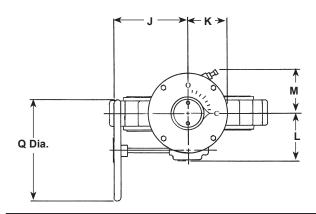
Note: H dimension on 14" (350mm) valve with GS-12-N is <u>11.25</u> 286

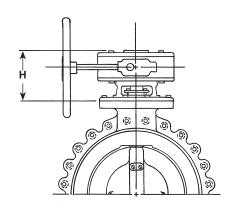
Inches Millimeters

Note: All dimensions are subject to change without notice. For piping layouts, request certified drawings.

Dimensions

Handwheel, G-Series Actuator

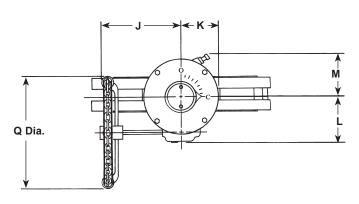


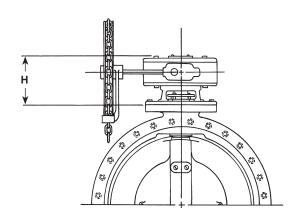


Actuator	Dimensions							
Code	Н	J	K	L	M	Q		
GS-12-HD16	10.37	<u>13.50</u>	<u>7.88</u>	<u>9.25</u>	<u>9.50</u>	<u>16.00</u>		
	263	343	200	235	241	406		
GS-12-HD24	10.37	<u>17.50</u>	<u>7.88</u>	<u>9.25</u>	<u>9.50</u>	<u>24.00</u>		
	263	445	200	235	241	610		
GS-12-HD30	10.37	<u>17.50</u>	<u>7.88</u>	9.25	9.50	30.00		
	263	445	200	235	241	762		

Note: H dimension on 14" (350mm) valve with GS-12-HD24 is 11.25 286

Chainwheel, G-Series Actuator





Actuator	Dimensions							
Code	Н	J	K	L	M	Q		
GS-12-CW20	<u>10.37</u>	<u>13.50</u>	<u>7.88</u>	<u>9.25</u>	<u>9.50</u>	16.00		
	263	343	200	235	241	406		
GS-12-CW30	<u>10.37</u>	<u>17.50</u>	<u>7.88</u>	<u>9.25</u>	<u>9.50</u>	<u>24.00</u>		
	263	445	200	235	241	610		

Note: H dimension on 14" (350mm) valve with GS-12-CW20 is $\frac{11.25}{286}$

Inches Millimeters

Sales and Service

For information about our worldwide locations, approvals, certifications and local representative:

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DeZURIK, Inc. reserves the right to incorporate our latest design and material changes without notice or obligation.

Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing by DeZURIK, Inc. Certified drawings are available upon request.