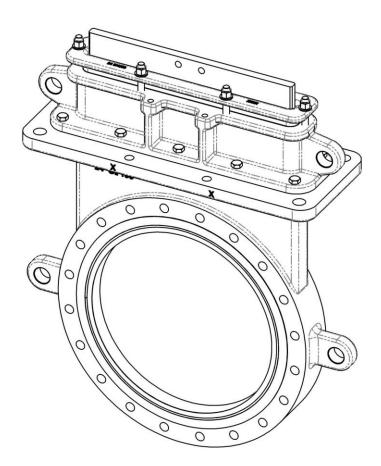


DeZURIK KSV CL150 & CL300 BONNETLESS KNIFE GATE VALVES





Instructions

These instructions are for use by personnel who are responsible for the installation, operation and maintenance of DeZURIK valves, actuators or accessories.

Safety Messages

All safety messages in the instructions are identified by a general warning sign and the signal word CAUTION, WARNING or DANGER. These messages indicate procedures to avoid injury or death.

Safety label(s) on the product indicate hazards that can cause injury or death. If a safety label becomes difficult to see or read, or if a label has been removed, please contact DeZURIK for replacement label(s).

Personnel involved in the installation or maintenance of valves should be constantly alert to potential emission of pipeline material and take appropriate safety precautions. Always wear suitable protection when dealing with hazardous pipeline materials. Handle valves which have been removed from service with suitable protection for any potential pipeline material in the valve.

Inspection

Your DeZURIK product has been packaged to provide protection during shipment; however, items can be damaged in transport. Carefully inspect the unit for damage upon arrival and file a claim with the carrier if damage is apparent.

Parts

Replaceable wear parts are listed on the assembly drawing. These parts can be stocked to minimize downtime. Order parts from your local DeZURIK sales representative or directly from DeZURIK. When ordering parts please provide the following information:

If the valve has a data plate: please include the 7-digit part number with either 4-digit revision number (example: 99999998000) or 8-digit serial number (example: S1900001) whichever is applicable. The data plate will be attached to the valve assembly. Also, include the part name, the assembly drawing number, the balloon number and the quantity stated on the assembly drawing.

If there isn't any data plate visible on the valve: please include valve model number, part name, and item number from the assembly drawing. You may contact your local DeZURIK Representative to help you identify your valve.

DeZURIK Service

DeZURIK service personnel are available to maintain and repair all DeZURIK products. DeZURIK also offers customized training programs and consultation services. For more information, contact your local DeZURIK sales representative or visit our website at DeZURIK.com.

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Description

The DeZURIK KSV bonnetless knife gate valves are constructed with a one-piece cast body, gate, packing chamber, replaceable seat rings and either an all-metal or metal/resilient seat. A choice of several actuators and accessories are available.

Installation



CAUTION!

When installed with rubber lined pipe/flange faces, additional flange seals would be required. Factory consultation is advised.



CAUTION!

Additional valve support may be required for non-vertical installations or where the valve may be exposed to external or vibrational forces. Factory consultation is advised.

Install the valve between appropriate ASME Class pipeline flanges. Flange gaskets are required. Before installation, remove foreign material such as weld spatter, oil, grease, and dirt from the valve and pipeline.

Metal Seat

Install the valve so that the side marked "SEAT" is on the lower pressure side of the valve when the valve is closed; the pipeline pressure will then help seal the valve in the closed position.

Resilient Seat

Resilient seat values are bi-directional and can be installed with the "SEAT" side on the high- or low-pressure side of the pipeline. It is preferred that the "SEAT" side be on the low-pressure side.

General Installation Guidelines

Observe the following points to prevent distortion of the valve body and gate when the flange bolts are tightened:

- Align the mating pipeline flanges.
- Select the length of the flange bolts so that the bolts used in the chest blind holes do not bottom out when tightened. We recommend studs and nuts.
- Tighten the flange bolts evenly, in a crisscross pattern. Refer to Table A for recommended flange bolt/stud torques.

Note: Torque ranges are based on ASME Pressure Vessel Code Calculations and lab test data. These torques are only spiral wound type gaskets. For other gasket types listed in ASME, consult DeZURIK.

KSV CL150 & CL300 BONNETLESS KNIFE GATE VALVES

Table A: Bolt Torques

	CL150	CL150	CL 150 Non	CL150 Non	CL300	CL300	CL200 Non	CL300 Non
	Lubricated	Lubricated	-lubricated	-lubricated	Lubricated	Lubricated	-lubricated	
Valve Size	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
	Torque	Torque	Torque	Torque	Torque	Torque	Torque	Torque
<u>in.</u>	ft.lbs.	ft.lbs.	ft.lbs.	ft.lbs.	ft.lbs.	ft.lbs.	ft.lbs.	ft.lbs.
mm.	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm
<u>3"</u>	<u>41</u>	45	<u>73</u>	<u>81</u>	<u>41</u>	45	<u>73</u>	<u>81</u>
75mm	56	61	99	110	56	61	99	110
_4"	<u> 30 </u>	<u>32</u>	<u>53</u>	<u>59</u>	<u>35</u>	<u>38</u>	<u>64</u>	<u>_70</u>
100mm	41	43	72	80	47	52	87	95
<u>6"</u>	<u>58</u>	<u>64</u>	<u>107</u>	<u>117</u>	<u>39</u>	47	<u>71</u>	<u>85</u>
150mm	79	87	145	159	53	64	96	115
8"	<u>79</u>	<u>87</u>	<u>144</u>	<u>158</u>	<u>61</u>	<u>81</u>	<u>112</u>	<u>149</u>
200mm	107	118	195	214	83	110	152	202
<u>10"</u>	<u>74</u>	<u>82</u>	<u>136</u>	<u>149</u>	<u>71</u>	<u>106</u>	<u>131</u>	<u>197</u>
250mm	100	111	184	202	96	144	178	267
<u>12"</u>	<u>94</u>	<u>104</u>	<u>172</u>	<u>190</u>	<u>90</u>	<u>144</u>	<u>166</u>	<u>267</u>
300mm	127	141	233	258	122	195	225	362
<u>14"</u> 350mm	<u>117</u> 159	<u>129</u> 175	<u>214</u>	<u>236</u>	<u>78</u> 106	<u>133</u> 180	<u>145</u> 197	<u>246</u> 334
16"			290	320				
400mm	<u>109</u> 148	<u>120</u> 163	<u>200</u> 271	<u>220</u> 298	<u> 107</u> 145	<u>188</u> 255	<u>199</u> 270	<u>351</u> 476
<u>400mm</u>	140	<u>171</u>	288	<u>317</u>	<u>143</u>	203	213	377
450mm	212	232	<u>200</u> 390	430	155	<u>203</u> 275	289	<u>511</u>
20"	137	<u>151</u>	253	279	126	238	234	444
500mm	186	205	343	378	171	323	317	602
24"	188	207	350	385	185	387	350	729
600mm	255	281	475	522	251	525	475	988
26"	121	133	225	248	132	365	251	674
650mm	164	180	305	336	179	495	340	914
28"	<u>111</u>	122	207	<u>228</u>	142	405	269	<u>766</u>
700mm	150	165	281	309	193	549	365	1039
<u> </u>	<u>119</u>	<u>138</u>	<u>221</u>	<u>257</u>	<u>163</u>	490	<u>309</u>	<u>931</u>
750mm	161	187	300	348	221	664	419	1262
32"	<u>158</u>	<u>185</u>	<u>297</u>	<u>349</u>	<u>194</u>	594	<u> </u>	<u>1132</u>
800mm	214	251	403	473	263	805	503	1535
<u>36"</u>	<u>169</u>	204	<u>319</u>	<u>385</u>	222	<u>696</u>	424	<u>1332</u>
900mm	229	277	433	522	301	944	575	1806
<u>42"</u>	<u>181</u>	<u>241</u>	<u>341</u>	454	220	<u>759</u>	416	<u>1437</u>
1050mm	245	327	462	616	298	1029	564	1948
<u>48"</u>	<u>175</u>	<u>253</u>	330	476	<u>297</u>	<u>1113</u>	<u>566</u>	<u>2123</u>
1200mm	237 343 447 645 403 1509 767 2878							
<u>54"</u> 1400mm								
1400mm <u>60"</u>	Contact DeZURIK							
<u> </u>								
1500000	<u> </u>							

Operation

The gate in the valve is positioned by the valve actuator. The actuator moves the gate over the valve port in the closed position, and withdraws the gate from the port in the throttling and open positions. Refer to the Actuator Instructions for adjustment and maintenance requirements for the actuator.

Lubrication

The valve does not require lubrication. If applicable, ensure that valve threaded stems are maintained with proper lubrication. Refer to the Actuator Instructions for lubrication requirements for the actuator.

Purging

Purge connections allow for optional pressurized purging fluid to be circulated through the valve to clear out sedimentation or other material buildup. Purge lines should be the same size as the purge ports. The recommended maximum purge pressure is 25-50 psi (170-345 kPa) above the pipeline pressure.

Packing

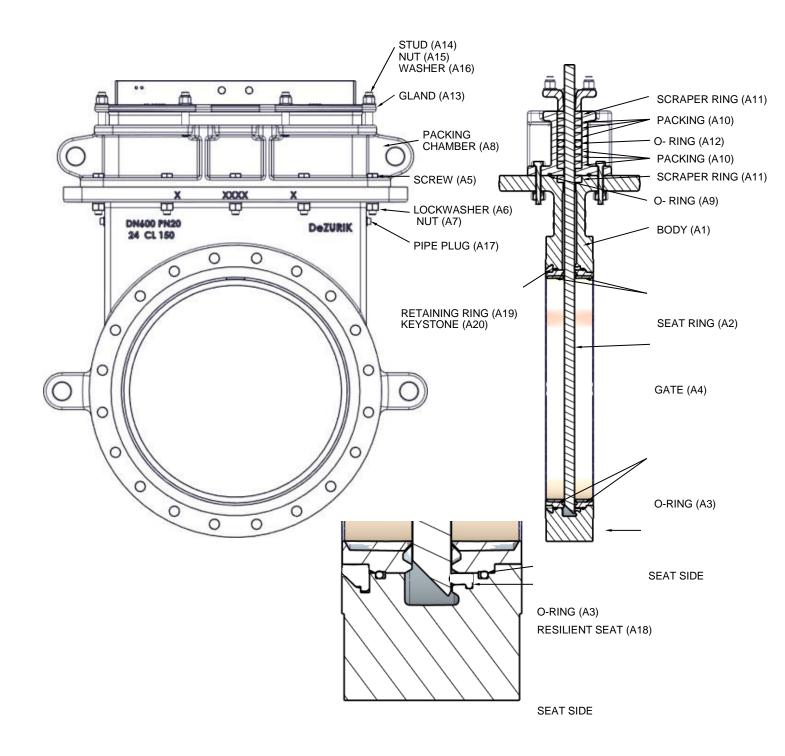
The gate packing is contained and compressed by the packing gland (A13). See Figure 1 and Figure 2 for component identification.

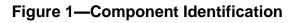
Note: The packing gland (A13) is slightly loosened prior to shipping. This is done to increase the life of the packing during extended storage. It must be tightened just enough to stop a packing leak prior to energizing the pipeline.

Adjustment

If packing leaks, tighten the adjustment nuts (A15) on top of the packing gland (A13). Tighten all the nuts equally and gently just enough to stop the leak. Over tightening will cause excessive operating forces, and will decrease the life of the packing.

Drawings





Packing Replacement Only

Removing the Old Packing

1. Relieve the pressure in the pipeline and close the valve.



WARNING!

Pipeline pressure can cause personal injury or equipment damage. Relieve pipeline pressure before removing gate stem and packing gland nuts.

2. If the actuator is powered, disconnect and lock out power to prevent accidental operation of the actuator.



WARNING!

Accidental operation of power actuator can cause personal injury or equipment damage. Disconnect and lock out power to actuator before servicing.

- 3. Remove the two screws and nuts near the top of the gate and disengage the clip from the gate by stroking the actuator (not the valve) to the open position. Remove closed position lockout bars if so equipped.
- 4. Remove the gland nuts (A15), washers (A16) and the packing gland (A13).
- 5. Remove the used top scraper ring (A11), packing (A10) and O-ring (A12) from the packing chamber (A8).

Replacing the Scraper Ring in the Body

If the bottom scraper ring (A11) in the body (A1) needs to be replaced, use the following steps:

- 1. Remove the screws (A5), nuts (A7) and lockwashers (A6) and remove the packing chamber (A8) from the body.
- 2. Remove the used O-ring (A9) from the packing chamber (A8) and remove the used scraper ring (A11) from the body (A1).

KSV CL150 & CL300 BONNETLESS KNIFE GATE VALVES

Packing Replacement Only continued

Installing the New Packing

DeZURIK recommends using a square-ended wood or plastic tool, driven by a hammer or mallet for packing rings.

Table B: Packing Ring Lengths

Note: DO NOT USE ANY SHARP OR HARD METAL TOOLS TO PACK THE RINGS.

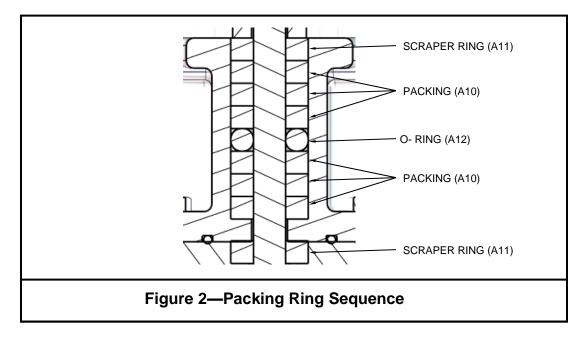
If the bottom scraper ring (A11) in the body (A1) is being replaced, use steps 1 and 2. If not, go to step 3.

- 1. With the gate (A4) closed, center the gate in the body (A1) and place the scraper ring (A11) into the top of the body (A1).
- 2. Place the O-ring (A9) into the groove in the bottom of the packing chamber (A8).
- With the gate closed, center the gate (A4) in the body (A1) and attach the packing chamber (A8) to the body (A1) using the screws (A5), nuts (A7) and lockwashers (A6). Leave snug, but not tight.
- Cut new packing rings (A10) to the length and quantity shown in Table B.
- 5. Install and pack the scraper ring (A11), packing rings (A10) and Oring (A12) one at a time in the sequence shown in Figure 2.
- 6. Install packing gland (A13) and snug all nuts (A15) equally just enough to stop a packing leak.
- 7. Tighten nuts (A7) on packing chamber (A8)

Note: Install the packing with the ends together, but not overlapped. Stagger the packing joints on the long sides of the packing chamber. Make sure the inside and outside edges of each ring are tightly packed against the gate and packing chamber, especially in the corner areas. Pack each ring until it is flat and even.

10	able B: Pa		ng Leng				
	Valve Size	Size square	CL 150 Length	CL 300 Length	Number		Number
	<u>in.</u>	in.	in.	in.	of	of Scraper	of Packing
	mm	mm	mm	mm	O-rings	Rings	Rings
	3"		11.25	11.25			
	75mm		286	286			
	4"		14.00	14.00			
•	100mm		356	356			1
	6"		18.25	17.50			
	150mm	0.375	464	445			
	8"	9.5	22.50	23.25			
	200mm		572	591			
	10"		28.00	27.50			
	250mm		712	699			
	12"		32.00	32.75			
•	300mm		813	832			
	14"	0.500	35.50	35.50			
)	350mm	12.7	902	902			
	16"		39.25	39.75			
	400mm		997	1010			
	<u>18"</u>		43.75	44.25			
	450mm	0.625	1112	1124	1	2	6
	20"	15.9	47.25	48.25			
	500mm		1201	1226			
	24"		56.50	57.25			
	600mm		1436	1455			
	26"		60.75	<u>61.75</u>			
	650mm		1544	1569			
	28"		65.00	<u>65.75</u>			
	700mm		1651	1671			
	30"		68.50	70.75			
	750mm	0.750	1740	1798			
	32"	19.1	73.50	O/A			
	800mm		1867	U/A			
	36"		81.50	O/A			
	900mm		2071	0/A 0/A 0/A			
	42"		94.00				
	1050mm		2388				
	48"		107.00				
	1200mm		2718	5//7			
	<u>54"</u>						
	1400mm <u>60"</u>	Contact DeZURIK					
	<u> </u>						
	100011111						

Installing the New Packing continued



Reassembling the Valve

- 1. Reconnect the clip to the gate (A4) with the screws and nuts.
- 2. Reinstall the lockouts in their original locations if they were removed.
- 3. If the actuator is a powered actuator, reconnect power to the actuator.
- 4. Pressurize the pipeline and inspect packing for leakage.
- 5. If packing leaks, tighten the adjustment nuts (A15) on top of the packing gland. Tighten the nuts evenly and slowly, just enough to stop the leak. Over tightening will cause excessive operating forces, and will decrease the life of the packing.

Seat Ring, Seat and Packing Replacement

See Figure 1 for component identification.



WARNING! Pipeline pressure can cause personal injury or equipment damage. Relieve pipeline pressure before removing gate stem and packing gland nuts.

1. Relieve the pressure in the pipeline and close the valve.



WARNING! Accidental operation of power actuator can cause personal injury or equipment damage. Disconnect and lock out power to actuator before servicing.

- 2. If the actuator is powered, disconnect and lock out power to prevent accidental operation of the actuator.
- 3. Remove the valve from the pipeline.

Note: If not replacing packing, go to the Note after step 9 to replace the seat rings without removing the packing and packing chamber

- 4. Remove the screws and nuts near the top of the gate and disengage the actuator stem from the gate (A4).
- 5. Remove the actuator yoke and actuator from the valve.
- 6. Remove the gland nuts (A15), washers (A16) and the gland (A13).
- 7. Remove the packing chamber screws (A5), lockwashers (A6), nuts (A7) and the packing chamber (A8).
- 8. Remove the used O-ring (A9) from the packing chamber (A8) and remove the used scraper ring (A11) from the top of the body (A1).
- 9. Remove the gate (A4) from the body (A1). Go to step 10.

Note: If not replacing the packing and scraper rings, then the seat rings may be replaced without removing the gate by following the subsequent steps.

a Open gate a few inches by retracting actuator.



WARNING!

Exercise care to maintain top structure upright.

- b Once gate is retracted, undo screws, nuts and washers to loosen legs from valve body.
- c Slowly actuate gate closed (extend cylinder or turn handwheel to close). Due to packing friction, this will result in the legs being raised up from the valve body. Do this until the legs have been raised approximately an inch.
- d Place blocks between the legs and the valve body and fasten the legs to the valve body with the blocks between them. Longer screws may be required.
- e Fully retract the gate and check to see that the bottom gate edge has cleared the top of the rubber seat.
- *f* If the gate has not cleared the rubber seat, repeat steps a thru e with additional or thicker blocks between the legs and the valve body. Also, longer screws may also be required. Continue to Step 10.

Seat Ring & Seat Replacement continued

- 10. Push seat ring (A2) on the side opposite the seat towards the center of the valve just far enough so that the retaining ring (A19) is exposed.
- 11. Remove the keystone (A20) and retaining ring (A19), prying it out by starting with the keystone (A20).
- 12. Remove the first O-ring (A3) and then slide out the first seat ring (A2).
- 13. Press out the seat side seat ring (A2), the O-ring (A3) retaining it will be damaged by this and will need to be replaced.
- 14. Remove the resilient seat (A18) (if applicable). Clean the seat area of glue residue and oil.
- 15. Install the new ring and seat:
 - a. Note the gate side and body side of the seat as shown in Figure 1 (enlarged view).
 - b. Coat new O-ring (A3) with anti-seize compound or medium grease and install them into the body.
 - c. For a resilient seat, apply a bead of cyanoacrylate super glue to the seat area. Insert the resilient seat with the seam at the 3 or 9 o'clock position. Coat the resilient seat with anti-seize compound or medium grease after the seat has adhered.
 - d. Insert the new seat ring (A2) into the body, pressing it in until it rests against the shoulder in the body (end face should be flush with exterior face of valve body).
- 16. Install second seat ring (A2), properly orientated so it goes in far enough to expose retaining ring groove —See step 15 a, b and c.
- 17. Place retaining ring (A19) into its groove in the body and install the keystone (A20) near the mounting bracket.
- 18. Slide the second seat ring (A2) back over the retaining ring (A19). If packing was not removed in steps 4 thru 9, then go to step 30.
- 19. Insert gate (A4) fully into the body (A1) until it rests against the jams.
- 20. Insert one scraper ring (A11) into the top of the body (A1).
- 21. Place O-ring (A9) into the packing chamber (A8) and slide the packing chamber (A8) over the gate (A4) and onto the body (A1).
- 22. Center the packing chamber (A8) on the gate (A4) and insert screws (A5), lockwashers (A6) and nuts (A7).
- 23. With the gate (A4) closed, center the gate (A4) in the body (A1) and place the scraper ring (A11) into the top of the body (A1).
- 24. Place the O-ring (A9) into the groove in the bottom of the packing chamber (A8).
- 25. With the gate closed, center the gate (A4) in the body (A1) and attach the packing chamber (A8) to the body (A1) using the screws (A5), nuts (A7) and lockwashers (A6). Leave snug, but not tight.
- 26. Tighten nuts (A7) on packing chamber (A8)

Seat Ring & Seat Replacement continued

- 27. Replace packing as described in "Installing New Packing".
- 28. Place the gland (A13), centering about the gate (A4).
- 29. Install the gland studs (A14), nuts (A15) and washer (A16). Tighten the gland stud nuts (A15) evenly, applying only enough pressure to seal the packing at the rated test pressure.
- 30. Remove blocks and refasten actuator to the valve. Or, replace the yoke and actuator if removed in Step 5.
- 31. Reconnect the stem to the gate with the two screws and locknuts.
- 32. Replace the valve in the pipeline. Refer to the requirements in the "Installation" section.
- 33. If the actuator is a powered actuator, reconnect power to the actuator.
- 34. Pressurize the pipeline and inspect the valve for leaks.
- 35. If the packing leaks, tighten the adjustment nuts (A15 on top of the packing gland. Tighten the nuts evenly and slowly, just enough to stop the leakage. Over tightening will cause excessive operating forces, and will decrease the life of the packing.

Troubleshooting

Condition	Possible Cause	Corrective Action	
Packing leaks, with no evidence of	Packing is loose.	Adjust packing gland.	
galling on gate.	Packing is worn or torn.	Replace packing.	
Packing leaks and gate is galled	Packing is worn or torn.	Replace packing and gate.	
Valve leaks when fully closed, with no evidence of galling on gate.	Seats are worn or torn.	Replace seats.	
Valve leaks when fully closed, and gate is galled.	Seats are worn or torn.	Replace seats and gate.	

Limited Warranty

DeZURIK, Inc. ("Seller") manufactured products, auxiliaries and parts thereof that we manufacture for a period of twenty-four (24) months from date of shipment from Seller's factory, are warranted to the original purchaser only against defective workmanship and material, but only if properly stored, installed, operated, and serviced in accordance with Seller's recommendations and instructions.

For items proven to be defective within the warranty period, your exclusive remedy under this limited warranty is repair or replacement of the defective item, at Seller's option, FCA Incoterms 2020 Seller's facility with removal, transportation, and installation at your cost.

Products or parts manufactured by others but furnished by Seller are not covered by this limited warranty. Seller may provide repair or replacement for other's products or parts only to the extent provided in and honored by the original manufacturer's warranty to Seller, in each case subject to the limitations contained in the original manufacturer's warranty.

No claim for transportation, labor, or special or consequential damages or any other loss, cost or damage is being provided in this limited warranty. You shall be solely responsible for determining suitability for use and in no event shall Seller be liable in this respect.

This limited warranty does not warrant that any Seller product or part is resistant to corrosion, erosion, abrasion or other sources of failure, nor does Seller warrant a minimum length of service.

Your failure to give written notice to us of any alleged defect under this warranty within twenty (20) days of its discovery, or attempts by someone other than Seller or its authorized representatives to remedy the alleged defects therein, or failure to return product or parts for repair or replacement as herein provided, or failure to store, install, or operate said products and parts according to the recommendations and instructions furnished by Seller shall be a waiver by you of all rights under this limited warranty.

This limited warranty is voided by any misuse, modification, abuse or alteration of Seller's product or part, accident, fire, flood or other Act of God, or your failure to pay entire contract price when due.

The foregoing limited warranty shall be null and void if, after shipment from our factory, the item is modified in any way or a component of another manufacturer, such as but not limited to; an actuator is attached to the item by anyone other than a Seller factory authorized service personnel.

All orders accepted shall be deemed accepted subject to this limited warranty, which shall be exclusive of any other or previous warranty, and this shall be the only effective guarantee or warranty binding on Seller, despite anything to the contrary contained in the purchase order or represented by any agent or employee of Seller in writing or otherwise, notwithstanding, including but not limited to implied warranties.

THE FOREGOING REPAIR AND REPLACEMENT LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, OBLIGATIONS AND LIABILITIES, INCLUDING, BUT NOT LIMITED TO, ALL WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR OF MERCHANTABILITY OR OTHERWISE, EXPRESSED OR IMPLIED IN FACT OR BY LAW, AND STATE SELLER'S ENTIRE AND EXCLUSIVE LIABILITY AND YOUR EXCLUSIVE REMEDY FOR ANY CLAIM IN CONNECTION WITH THE SALE AND FURNISHING OF SERVICES, GOODS OR PARTS, THEIR DESIGN, SUITABILITY FOR USE, INSTALLATION OR OPERATIONS. NEITHER ANY PERFORMANCE OR OTHER CONDUCT, NOR ANY ORAL OR WRITTEN INFORMATION, STATEMENT, OR ADVICE PREPARED BY SELLER OR ANY OF OUR EMPLOYEES OR AGENTS WILL CREATE A WARRANTY, OR IN ANY WAY INCREASE THE SCOPE OR DURATION OF THE LIMITED WARRANTY.

Disclaimer

Metric fasteners should not be used with ASME Class 150/300 bolt holes and flange bolt patterns. If you use metric fasteners with ASME Class 150/300 bolt holes and flange bolt patterns, it may lead to product failure, injury, and loss of life. DeZURIK Inc. disclaims all liability associated with the use of metric fasteners with ASME Class 150/300 bolt holes and flange patterns, including but not limited to personal injury, loss of life, loss of product, production time, equipment, property damage, lost profits, consequential damages of any kind and environment damage and/or cleanup. Use of metric fasteners with ASME Class 150/300 bolt holes and flange bolt patterns is a misuse that voids all warranties and contractual assurances. If you use metric fasteners with ASME Class 150/300 bolt holes and flange bolt patterns, you do so at your sole risk and any liability associated with such use shall not be the responsibility of DeZURIK, Inc. In addition to the foregoing, DeZURIK's Manufacturer's Conditions apply.

Limitation of Liability

IN NO EVENT SHALL SELLER BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, PUNITIVE, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO; DAMAGE TO OR LOSS OF OTHER PROPERTY OR EQUIPMENT, BUSINESS INTERUPTION, COST OF SUBSTITUTE PRODUCTS, LOSS OF TIME, LOSS OF PROFITS OR REVENUE, COST OF CAPTIAL, LOSS OF USE, OR DIMINUTION IN VALUE) WHATSOEVER, AND SELLER'S LIABILITY, UNDER NO CIRCUMSTANCES, WILL EXCEED THE CONTRACT PRICE FOR THE GOODS AND/OR SERVICES FOR WHICH LIABILITY IS CLAIMED. ANY ACTION FOR BREACH OF CONTRACT BY YOU, OTHER THAN RIGHTS RESPECTING OUR LIMITED WARRANTY DESCRIBED ABOVE, MUST BE COMMENCED WITHIN 12 MONTHS AFTER THE DATE OF SALE.

Sales and Service

For information about our worldwide locations, approvals, certifications and local representative: Web site: www.dezurik.com E-Mail: info@dezurik.com



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