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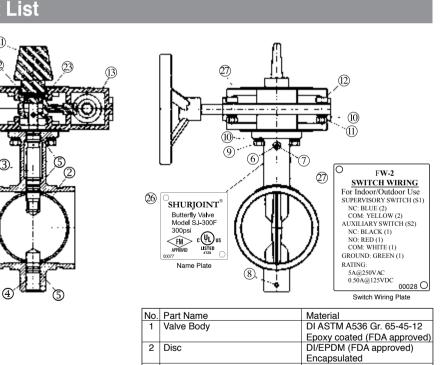
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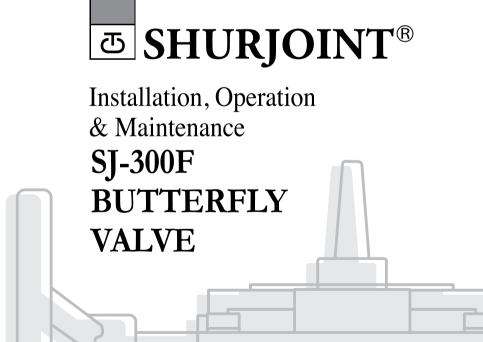
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Βυττεβείχ ναίνε **WODEL SHURJOINT SJ-300F**

Resilient Seated Butterfly Valve from 2" to 12"

Product Description

a worm gear operator and supervisory switch and wiring. The Model SJ-300F Butterfly Valve is a grooved-end shut-off valve equipped with

UL Specification 1091 and FM Approval Standard 112. (water working pressure) for indoor and outdoor use. Flow characteristics satisfy The Model SJ-300F is cULus* and FM* approved 300 psi (20 Bar, 2.0 MPa) WWP

* For approval information, please visit Shurjoint website, www.shurjoint.com for details.

installations shall conform to NFPA 13 and NFPA 72. When the Model SJ-300F Butterfly Valve is used in fire protection applications,

certified under NSF/ANSI 61 & NSF/ANSI 372 for use in potable water systems. rubber encapsulated dual-seal disc. The EPDM disc encapsulation rubber is The valve consists of an epoxy powder coated ductile iron body and EPDM



Shell test: 200% of working pressure (20 Bar, 2.0 MPa) Sealing test: 110% of working pressure Working pressure: 300 psi All valves are tested prior to shipping. Range: 2" – 12" Factory tested: :stsG lsoindoeT

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Web site: www.shurjoint.com

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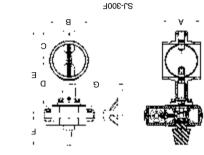
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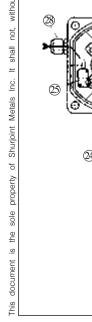
Performance Data



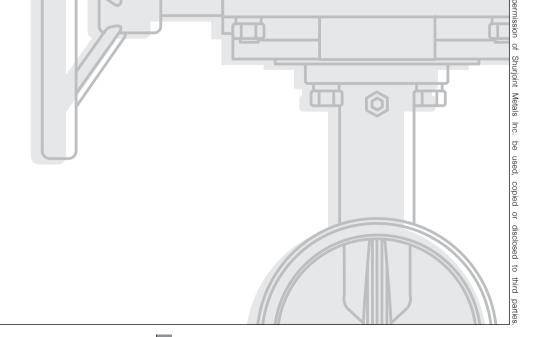
05.6 74.97 S4.8 3.62 19.53 10.24 70.8 78.21 12.750 15 88.92 163 ٥٢٢ 975 426 0.675 520 52 436 532 75.68 6.42 3.62 71.71 9.25 69'9 78.01 6.25 097.01 10 09.71 163 64E 222 216.3 52 208 041 133 200 JIS 38.72 6.42 3.62 26.41 61.8 13.8 47.8 £2.8 915.8 09.71 163 62E 140 222 133 1.915 200 52 208 38.72 6.42 3.62 14.92 61.8 13.3 47.8 \$2.24 8.625 8 13.70 163 329 172 £.881 120 52 48t ŧ١ 841 30.14 S4.8 3.62 15.95 7.25 4.50 77.ð 18.8 6.625 13.61 163 52 359 184 114 172 841 1.661 mmt.201 30.38 6.42 3.62 12.95 7.25 4.50 77.ð 18.Z 005.9 12.20 163 945 141.3 152 52 304 89 L 105 841 **\$8.84** S4.8 38.11 19.9 ¢.00 ۲T.ð 18.8 5.500 3.62 15.25 163 301 105 142 7.951 52 89 L 841 mm7.951 10.72 6.42 3.62 28.11 19.9 4.00 ۲۲.ð 18.Z 5.500 06.6 163 811 911 114.3 001 52 555 132 68 87.15 S4.8 3.62 40.01 16.3 3.50 £9.4 95.4 4.500 09.8 163 233 52 ۷6 08 52 156 92 6.88 26.81 6.42 3.62 6.11 96.4 3.00 3.62 18.6 3.500 3 75.8 163 52 210 111 89 08 ۷6 1.97 ատք.9۲ 14.81 S4.8 7S.8 75.4 89.5 3.15 18.6 3.000 3.62 0£.8 163 210 111 ۷6 0.67 52 89 08 92 18.26 6.42 3.62 7S.8 75.4 89.S 3.15 18.6 278.5 5% 09[.]7 163 £.0a 52 200 90 L 63 92 ۲8 90 0Z.81 6.45 3.62 78.T 71.4 84.5 2.56 3.19 2.375 2 kgs աա աա աա աա աա աա աա աա աա uį sq٦ uı u uı uı uı uı uı uı OD əziS Ð Ξ Δ С В $(\mathfrak{k}) A$ (_______)1UBieN **Snoisnemi**D 9di9 IsnimoN

(2) The weight includes the worm gear operator. .78 Content of the second content of the 353.9

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	3	Upper Stem	Stainless Steel AISI 410
	4	Lower Stem	Stainless Steel AISI 410
	5	O-Ring	EPDM
	6	Set Screw	Cr-Mo Steel
	7	Hex. Nut	Carbon Steel
	8	Spring Pin	Spring Steel
	9	Hex. Bolt	Carbon Steel
	10	Spring Washer	Spring Steel
	11	Hex. Nut	Carbon Steel
	12	Set Screw	Cr-Mo Steel
	13	Actuator Case	DI ASTM A 536 Gr. 65-45-12
	14	Segment Gear	DI ASTM A 536 Gr. 65-45-12
	15	Packing	Nitrile
	16	Case O-Ring	Nitrile
	17	Handwheel Shaft	Carbon Steel SAE 1015
)	18	Worm Gear	Carbon Steel SAE 1045
-		Washer	Phosphor Bronze
		Spring Pin	Spring Steel
		Indicator Flag	DI ASTM A536 Gr. 65-45-12
	22	Indicator O-Ring	Nitrile
	23	Snap Ring	Carbon Steel
		Handwheel	DI ASTM A536 Gr. 65-45-12
		Switches & Wiring	UL listed
		Name Plate	Aluminum
	27		Aluminum
		Model No. FW-1 for 2" ~ 3",	
		FW-2 for 4 " ~ 6" and FW-3 for 8" ~ 12".	
	28	Conduit Fitting	Commercial



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This double circuit provides flexibility to operate two electrical devices at separate locations, such as an indicating light and an audible alarm, in the area that the valve is installed.

Besides, a #14 AWG ground lead (green) is provided.

Always wear safety glasses, hardhat, and foot protection before attempting to disassemble the Model SJ-300F Butterfly Valve for maintenance. Failure to do so may cause serious personal injury and or property damage.

Always install a weatherproof conduit and

conduit connection on the housing to protect

1) Drain the fluid completely from the pipeline.

2) Leave the valve slightly opened.

3) Loosen the coupling bolts and nuts.

4) Remove the valve from the pipeline.

Maintenance

When the gear operator or other component fails during service, it is recommended to change the whole valve rather than to repair or replace the failed component(s). All

approved as a complete set with the worm gear operator. Use it as factory supplied and do not dismantle the worm gear operator or other components. No modification to lever handle operation or chain-wheel

temperature use. No submerged use is acceptable.

The valve disc which is encapsulated with EPDM is only good for water and oil-free air services. EPDM rubber is not compatible with petroleum or oil services.

operation is permitted.

Only good for above-ground, ambient

WARNING

This valve is cULus listed and FM

+20°C or +68°F). water are shown below (water temperature at Equivalent length and Cv values for flow of Flow Data Flow Data / Operating Torque

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1500	8.625	8
7.101	£.881	120
006	6.625	9
7.101	1.651	mm1.201
006	005.9	
1.97	141.3	125
002	5.563	G
1°62	7.951	mm7.951
002	5.500	
6.02	114.3	100
097	4.500	4
1.81	6.88	08
09 L	3.500	З
7.61	1.97	mm1.97
150	3.000	
7.81	0.67	99
150	2.875	51/2
0.6	£.0à	90
08	2.375	5
mV \ sdJ-nl	mm / ni	mm / ni

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' At 15 feet/sec, (4.6m/s) Velocity of water (9.4) 1.31 12

(1.4) 8.61

(8.2) S.9 (E.S) 4.7

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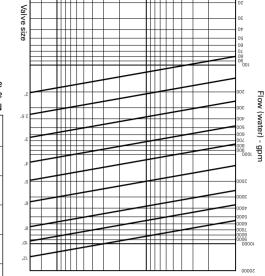
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(0.1) S.2

(4.1) T.4

Feet (Meter)

Equiv. Length of Sch. 40 pipe* Cv Value



Pressure Drop - psig

add a 25% service factor to the above values. Notes: The torque values are based on liquid applications. For dry or non-lubricating applications

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Operating Torque

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Maintenance

the supervisory switches.

Disassembly of valve:

Outdoor use:

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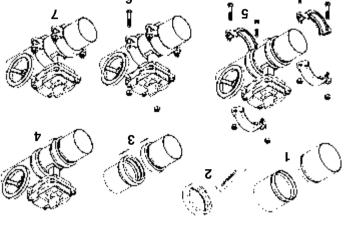
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Normally closed: (1) Black



5. Install coupling halves

into the grooves. make sure that the coupling keys are engaged Place the coupling halves over the gasket and

Switch & Wiring

The supervisory switch is designed to supervise

in the "open" position and contains two, single

Switch 1 (S1) has two #18 AWG wires per

terminal used for connection to supervisory

Switch 2 (S2) has one #18 AWG wire per

terminal for connection to auxiliary devices

Switch Wiring Diagram

Fire Alarm Contro

pole, double throw, pre-wired switches.

circuit of an UL listed alarm control panel.

Normally closed: (2) Blue

Common: (2) Yellow

Switch Rating:

0.5A 125 VDC

5A 250 VAC

Switch & Wiring

and additional support may be required. are used, the valve may rotate after installation coupling for installation. If two flexible couplings Caution: Use at least one Shurjoint rigid

6. Insert bolts

.gninstdgi housing. Valve position can be adjusted prior to of the bolt engages into the bolt hole of the the couplings. Make sure that the oval neck Insert the factory supplied bolts and nuts of

Z. Tighten nuts

bolt pads come together, metal-to-metal. Tighten the nuts alternately and equally until the

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which may be required by the authority having

jurisdiction.



1. Pipe End Preparation

roll marks or other harmful defects that could Make sure that the seating surface is free from size and process a groove at each pipe end. Prepare the right OD pipe to match the valve

affect seating.

2. Lubricate gaskets

complete exterior of gaskets. Apply thin coat of lubricant to gasket lips and

3. Install gaskets

sure that gasket lips do not overhang pipe ends. Place a gasket on each pipe end, and make

and can tell that the valve is open or closed. that an observer can see the indicator clearly valve. The gear-operator should be in a position should protrude into the groove of either pipe or the pipe end and valve. No part of the gasket ends and center it between the grooves on to mating pipe ends. Slide the gasket over the Position the valve between pipe ends and butt 4. Position the butterfly valve

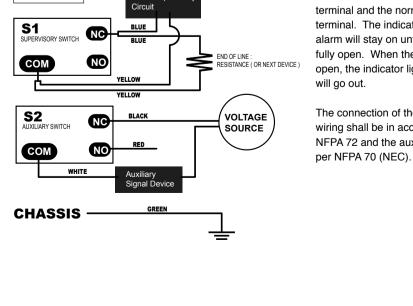
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replacement parts must be obtained from the manufacturer to assure proper operation of the valve, and to maintain cULus listing and FM approval of the device. Only trained or authorized personnel are allowed to replace the failed component(s). Contact Shurjoint for further details.

Failure to do so may cause improper valve operation, serious personal injury and or property damage.

Only good for grooved-end carbon steel pipes. Do not use it with plainend carbon steel pipe or grooved-end ductile iron pipe.

Failure to do so may cause improper valve operation, serious personal injury and or property damage.



terminal and the normally closed terminal. The indicator light and alarm will stay on until the valve is fully open. When the valve is fully open, the indicator light and alarm

The connection of the alarm switch wiring shall be in accordance with NFPA 72 and the auxiliary switch



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