

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 & 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 .Pll valves are tested prior to shipping. Range: 2" – 12" :stsG lsoindoeT

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BAURJOINT® Piping Products Inc.

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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	
	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	
19	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	
24	Handwheel	DI ASTM A536 Gr. 65-45-12	
25	Switches & Wiring	UL listed	
26	Name Plate	Aluminum	
27	Switch Wiring Plate	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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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

sure that gasket lips do not overhang pipe ends. Place a gasket on each pipe end, and make 3. Install gaskets

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

and can tell that the valve is open or closed. that an observer can see the indicator clearly

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make sure that the coupling keys are engaged Place the coupling halves over the gasket and 5. Install coupling halves

are used, the valve may rotate after installation coupling for installation. If two flexible couplings Caution: Use at least one Shurjoint rigid into the grooves.

and additional support may be required.

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 6. Insert bolts

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Z. Tighten nuts

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

E / 3005-LS / II

Flow (water)

- gpm

12

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8

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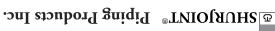
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E / 3005-US / 11

Flow Data / Operating Torque

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Equivalent length and Cv values for flow of Flow Data

150	(4.1) 7. 4	5				
neqO lluT)	Feet (Meter)	(nl) əzi 2				
Ov Value	Equiv. Length of Sch. 40 pipe*	IsnimoN				
+20°C or +68°F).						
water are shown below (water temperature s						

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

(9.4) 1.31

(1.4) 8.61

(8.2) S.9

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Pressure Drop - psig

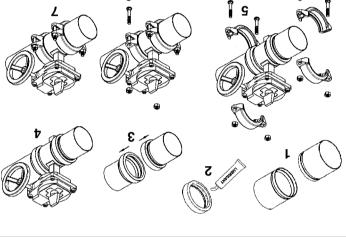
l Bui	5200	12.750	12
Pip	203.4	0.672	520
joint	1800	092.01	10
Shur	132.6	216.3	200 AIS
of S	1200	913.8	
sion	132.6	1.012	500
mise	1200	8.625	8
ber	7.101	£.88†	190
itten	006	626.6	9
r wr	7.101	1.201	mm1.201
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add a 25% service factor to the above values.

Notes: The torque values are based on liquid applications. For dry or non-lubricating applications

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Mounting Instructions



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Normally closed: (1) Black

in the area that the valve is installed.

The diagram shows a typical

Normally open: (1) Red

Common: (1) White

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provided.

Switch & Wiring

Switch & Wiring

The supervisory switch is designed to supervise in the "open" position and contains two, single pole, double throw, pre-wired switches.

Switch 1 (S1) has two #18 AWG wires per terminal used for connection to supervisory circuit of an UL listed alarm control panel.

Normally closed: (2) Blue Common: (2) Yellow

Switch 2 (S2) has one #18 AWG wire per terminal for connection to auxiliary devices

Switch Wiring Diagram



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Maintenance

Outdoor use:

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Always install a weatherproof conduit and conduit connection on the housing to protect the supervisory switches.

Disassembly of valve: 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.

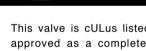
Always wear safety glasses, hardhat, and foot protection before attempting to disassemble the Model SJ-300F Butterfly Valve for maintenance. Failure to do so may cause serious personal injury and or property damage.

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

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This valve is cULus listed and FM 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 operation is permitted.

WARNING

Only good for above-ground, ambient 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.



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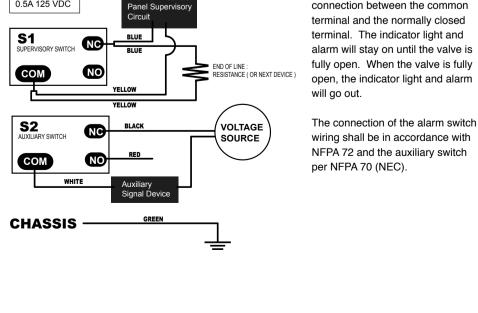
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replacement parts must be obtained from the manufacturer to assure proper operation of the valve, and to maintain cULus listing and FM approval of the device. Only trained or authorized personnel are allowed to replace the failed component(s). Contact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





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