

ΒΟΤΤΕΚΕΓΥ ΥΑΓΥΕ **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 1001 and FM Approval Standard 1112. (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 contorm 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



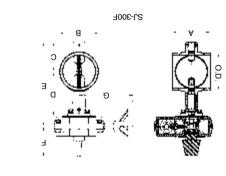
Shell test: 200% of working pressure (20 Bar, 2.0 MPa) Sealing test: 110% of working pressure Working pressure: 300 psi . All valves are tested prior to shipping. Range: 2" – 12" Technical Data:

40064 A7N

9 / 3005-LS / II

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Performance Data



		rms to MSS SP- n gear operator.	-29										
300	323.9	591	327	505	560	967	56	163	34.00				
15	12.750	09.50	12.87	70.8	10.24	£5.61	3.62	6.42	74.97				
520	273.0	691	922	021	535	436	62	163	26.88				
10	10.750	6.25	78.01	69'9	9.25	Z1.Z1	3.62	6.42	75.68				
010.007	216.3	133	522	140	208	628	56	163	09.71				
200 JIS	915.8	5.24	\$ <u>7</u> 4	16.8	61.8	14.92	3.62	6.42	38.72				
500	1.912	133	522	140	208	628	56	163	09.71				
8	8.625	5.24	47.8	13.2	61.8	14.92	3.62	6.45	38.72				
190	5.881	148	172	114	184	329	52	163	13.70				
9	6.625	18.2	77.8	4.50	7.25	15.95	3.62	6.45	30.14				
mm1.201	1.651	148	172	114	184	329	52	163	13.61				
anat 391	005.9	18.2	77.8	4.50	7.25	15.95	3.62	6.45	30.38				
152	5.141	148	142	105	891	304	52	163	15.20				
g	5.500	18.2	£.71	4.00	19.9	38.11	3.62	6.45	26.84				
mm7.951	7.951	148	142	105	891	304	52	163	12.25				
aaa 2 00 F	5.500	18.2	17.ð	4.00	19.9	38.11	3.62	6.45	10.72				
100	114.3	911	811	68	132	522	52	163	06.6				
4	4'200	95.4	4.65	3.50	16.31	10.04	3.62	6.45	87.12				
08	6.88	26	52	92	156	533	56	163	09.8				
3	3.500	18.5	3.62	3.00	96.4	2۴.6	3.62	6.45	29.81				
mm1.97	1.97	26	08	89	111	210	56	163	75.8				
	3.000	18.5	3.15	89.2	4.37	75.8	3.62	6.45	14.81				
92	0.67	26	08	89	111	210	56	163	05.8				
5½	2.875	18.5	3.15	89.2	4.37	75.8	3.62	6.45	18.26				
90	£.0a	۴8	92	63	901	500	56	163	09 [.] Z				
5	2.375	3.19	2.56	2.48	71.4	78.T	3.62	6.45	02.91				
աա	աա	աա	աա	աա	աա	աա	աա	աա	Kgs				
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IsnimoN	Pipe				Dimensions				Meight ⁽²⁾				

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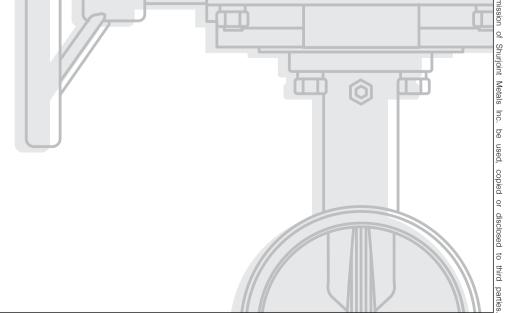
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	3	Upper Stem	Stainless Steel AISI 410
		Lower Stem	Stainless Steel AISI 410
	5	O-Ring	EPDM
נ		Set Screw	Cr-Mo Steel
	7	Hex. Nut	Carbon Steel
		Spring Pin	Spring Steel
		Hex. Bolt	Carbon Steel
		Spring Washer	Spring Steel
	11	Hex. Nut	Carbon Steel
		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
		Packing	Nitrile
		Case O-Ring	Nitrile
		Handwheel Shaft	Carbon Steel SAE 1015
		Worm Gear	Carbon Steel SAE 1045
-		Washer	Phosphor Bronze
		Spring Pin	Spring Steel
		Indicator Flag	DI ASTM A536 Gr. 65-45-12
		Indicator O-Ring	Nitrile
		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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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.

Apply thin coat of lubricant to gasket lips and

3. Install gaskets

Place a gasket on each pipe end, and make

Position the valve between pipe ends and butt 4. Position the butterfly valve sure that gasket lips do not overhang pipe ends.

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

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

5. Install coupling halves

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

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

and additional support may be required.

6. Insert bolts

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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

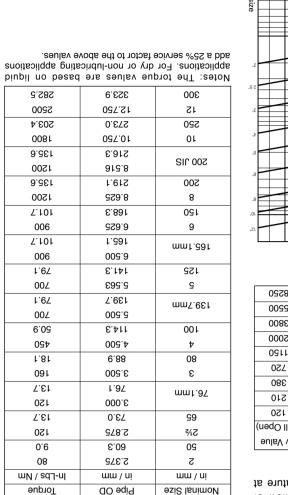
Z. Tighten nuts

Flow (water)

- gpm

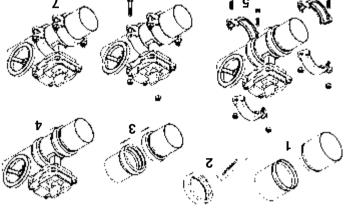
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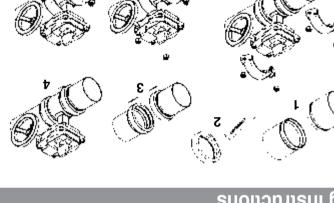
• SHURJOINT[®] Metals Inc.



Operating Torque

Mounting Instructions





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CAR CAR
MAS MES

water are shown below (water temperature at Equivalent length and Cv values for flow of Flow Data

WARNING

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

Only good for above-ground, ambient

temperature use. No submerged use

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

operation is permitted.

is acceptable.

services.

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Flow Data / Operating Torque

+20°C or +68°F).

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9960	(1.4) 8.81	10
3800	(8.2) 2.6	8
2000	(E.S) A .7	9
1120	(8.5) 8.8	9
720	(1.2) 8.8	4
380	(۲.۲) д.д	3
210	(ð.†) S.ð	51/2
150	(4.1) 7.4	2
(nəqO llu [¬])	Feet (Meter)	(nl) əzi2
Cv Value	*equiv. Length of Sch. 40 pipe*	IsnimoN

(9.4) 1.81

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

Maintenance

the supervisory switches.

Disassembly of valve:

Always install a weatherproof conduit and

conduit connection on the housing to protect

1) Drain the fluid completely 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

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

2) Leave the valve slightly opened.

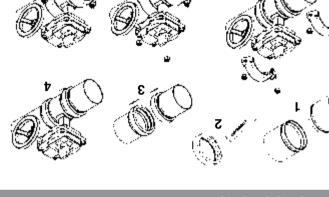
injury and or property damage.

Maintenance

3) Loosen the coupling bolts and nuts.

4) Remove the valve from the pipeline.

Outdoor use:



Pressure Drop - psig

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complete exterior of gaskets. 2. Lubricate gaskets

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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.

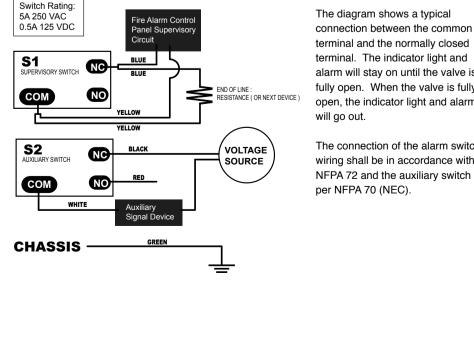
Switch 1 (S1) has two #18 AWG wires per terminal used for connection to supervisory circuit of an UL listed alarm control panel.

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

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



which may be required by the authority having jurisdiction.

Normally closed: (1) Black

Normally open: (1) Red Common: (1) White

in the area that the valve is installed.

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. 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 per NFPA 70 (NEC).

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