

## SJ-915 DUAL DISC CHECK VALVE (2½" thru 12")



Size: 2½"~12"

The Shurjoint Model SJ-915 is a grooved-end dual-plate (or double-door) check valve designed to provide positive and silent protection against backflow in piping systems. The valve features a ductile iron body with an EPDM or Nitrile resilient seat molded to body and type 304 stainless steel discs loaded with type 313 stainless steel springs. Groove dimensions comply with ANSI/AWWA C606.

### Features

- Lightweight (up to 90% lighter than conventional swing check valves)
- Easy to install with a couple of grooved couplings, more economical than wafer or lugged valves
- The dual disc design produces less water hammer than single disc valves
- The spring-loaded disc design provides for positive closing
- The resilient seat reduces noise when slamming
- Good for horizontal or vertical installations (\*see notes)

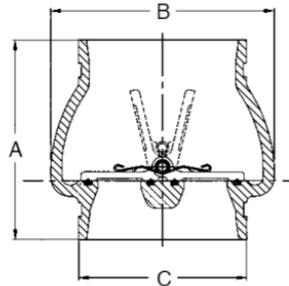
### Notes:

1. For horizontal use, the valve shall be installed perpendicular to the flow, or with disc pin in the vertical position.
2. For vertical use, the valve shall be installed with flow up.
3. The valve shall be installed with a distance of five (5) pipe diameters, min., downstream from pump discharge, reducers or elbows.

For pressure rating, listing, and approval information, refer to data sheet or visit SHURJOINT website [www.shurjoint.com](http://www.shurjoint.com) for details or contact your SHURJOINT representatives.

### material specification

- **Valve Body:**  
Ductile iron, ASTM A536, Gr. 65-45-12.
- **Seat (Rubber Gasket):**  
EPDM
  - Nitrile (optional)
- **Discs:**  
Stainless steel Grade CF8, ASTM A351.
- **Torsion Springs:**  
Stainless steel type 316, ASTM A313.
- **Disc hinge pin & disc stop pin:**  
Stainless steel type 304, ASTM A276.
- **Spacer & Washer:**  
PTFE
- **Stop pin retainer:**  
Steel.
- **Stabilization Rubber:**  
EPDM
  - Nitrile (optional)



Model SJ-915 Dual Disc Check Valve

Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Dimensions			Weight
			A	B	C	
in	in	PSI	in	in	in	lbs
mm	mm	Bar	mm	mm	mm	kg
2½	2.875	300	4.92	4.33	2.87	5.0
65	73.0	20	125	110	73	2.3
3	3.500	300	5.31	4.92	3.50	5.5
80	88.9	20	135	125	89	2.5
4	4.500	300	5.39	5.98	4.50	8.4
100	114.3	20	137	152	114	3.8
6	6.625	300	6.00	8.03	6.62	16.8
150	168.3	20	152	204	168	7.6
8	8.625	300	6.73	10.08	8.62	27.3
200	219.1	20	171	256	219	12.4
10	10.750	300	7.80	12.09	10.75	45.5
250	273.0	20	198	307	273	20.7
12	12.750	300	8.19	14.25	12.75	62.2
300	323.9	20	208	362	324	28.3

\* Working pressure is based on connection with roll- or cut-grooved standard wall carbon steel pipe.

‡ Dimensions are subject to change.

### General note

- Maximum Working Pressure (CWP) listed is the maximum cold water pressure for general piping services tested to ASTM F1476 and or AWWA C606 methods. Figures listed are based on roll- or cut-grooved standard wall carbon steel pipe. For other pipe schedules or pipe materials, contact Shurjoint for additional information.
- Field Joint Test: For one time only, the system may be tested hydrostatically at 1½ times the maximum working pressure listed (AWWA C606 5.2.3).
- Warning: Piping systems must always be depressurized and drained before attempting disassembly and or removal of any components.
- The 10 Year Limited Warranty applies to manufacturing defects only and does not cover severe service/temperature applications or wear parts.
- Shurjoint reserves the right to change specifications, designs and or standard without notice and without incurring any obligations.

## SJ-915 DUAL DISC CHECK VALVE (14" thru 24")



For pressure rating, listing, and approval information, refer to data sheet or visit SHURJOINT website [www.shurjoint.com](http://www.shurjoint.com) for details or contact your SHURJOINT representatives.

The Shurjoint model SJ-915 is a grooved-end dual disc check valve for pipelines conveying water and other fluids with the rated working pressure to 300 psi (20 Bar), available in sizes 14" to 24" / 350 mm to 600 mm. The valve features a fully lined rubber body, spring-loaded 304 stainless steel disc and shafts. The valve can be installed in a horizontal or vertical position (upward flow only). Face to face dimensions conform to API 594 Class 150 and grooved ends to ANSI/AWWA C606.

Seat test: (Hydrostatic) 275 psi / 1.90 MPa  
Shell test: (Hydrostatic) 400 psi / 2.75 MPa.

### Features

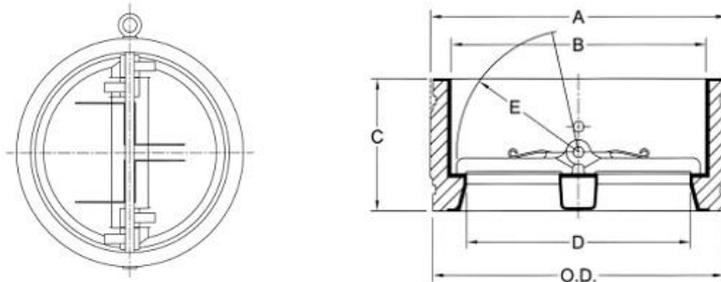
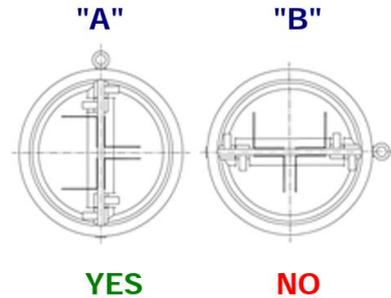
- Lightweight (up to 90% lighter than conventional swing check valves)
- Easy to install with a couple of grooved couplings, more economical than wafer or lugged valves
- The dual disc design produces less water hammer than single disc valves
- The spring-loaded disc design provides for positive closing
- The fully lined rubber body and soft seat reduce noise and maintenance

### material specification

- **Body:**  
The valve body is made of ductile iron per ASTM A536, Gr. 65-45-12, minimum tensile strength 65,000 psi (448 MPa).
- **Body Lining:** (to be specified by the purchaser when ordering)  
Buna-N: Good for petroleum oils, mineral oils, vegetable oils, aromatic hydrocarbons, many acids and water  $\leq$  +150°F (+65°C). Maximum temperature range: -20°F (-29°C) to +180°F (+82°C).
  - EPDM (optional): Good for cold and hot water service up to +230°F (+110°C) and also good for services for water with acid, water with chlorine or chloramines, deionized water, seawater and waste water, dilute acids, oil-free air and many chemicals but not recommended for petroleum oils, mineral oils, solvents and aromatic hydrocarbons. Maximum temperature range: -29°F (-34°C) to +230°F (+110°C)\*. \*EPDM seat for water services are not recommended for steam services unless valves or components are accessible for frequent replacement
- **Discs:**  
Stainless steel type 304.
- **Disc Shafts:**  
Stainless steel type 304.
- **Spring:**  
Stainless steel type 304.
- **Washer:**  
PTFE

**Warning / Caution:**

1. The valve is not intended for fluids containing suspended solids such as wastewater.
2. For horizontal installations, the valve must be positioned so that discs activate bisymmetrically as shown in fig. "A".
3. The valves shall be installed with a distance of five (5) pipe diameters, minimum, downstream from the pump discharge, reducers or elbows.



Model SJ-915 Dual Disc Check Valve

Nominal Size	Pipe O.D.	Max. Working Pressure (CWP)*	Dimensions					Weight
			A	B	C	D	E	
in	in	PSI	in	in	in	in	in	lbs
mm	mm	Bar	mm	mm	mm	mm	mm	kg
14	14.000	300	14.49	12.96	7.13	11.14	6.06	101
350	355.6	20	368	329	181	283	154	46
16	16.000	300	16.14	14.13	7.24	12.20	6.81	119
400	406.4	20	410	359	184	310	173	54
18	18.000	300	18.15	16.42	7.83	14.33	8.00	169
450	457.2	20	461	417	199	364	203	77
20	20.000	300	20.04	18.11	8.46	16.06	8.80	211
500	508.0	20	509	460	215	408	226	96
24	24.000	300	24.00	22.13	9.65	18.00	9.80	288
600	609.6	20	610	562	245	457	249	131

\* Working pressure is based on connection with roll- or cut-grooved standard wall carbon steel pipe.

**Flow Data - Cv Values**

Values for flow of water at +60°F (+16°C).

$$Cv = \frac{Q}{\sqrt{\Delta P}}$$

Where: Cv = Flow coefficient  
 Q = Flow (GPM)  
 ΔP = Pressure drop (psi)

Model #SJ-915 Dual Disc Check Valve Cv Values	
Nominal Size	Cv Value
in	
mm	
14	5,000
350	
16	8,350
400	
18	10,000
450	
20	13,000
500	
24	20,500
600	

General note

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