

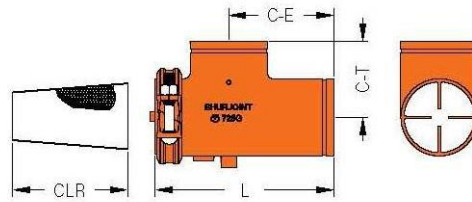
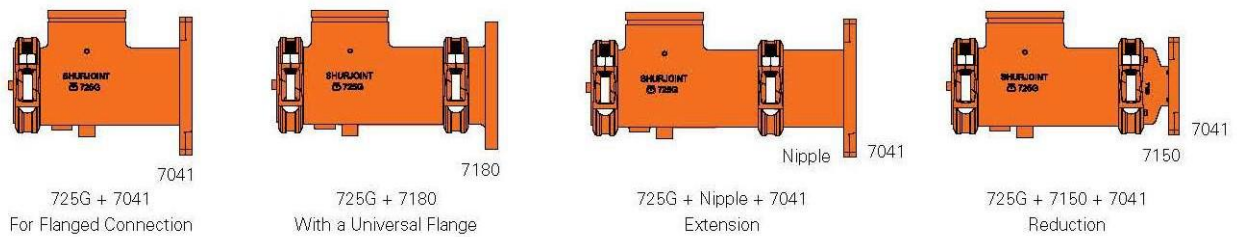
MODEL 725G SUCTION DIFFUSER (Ductile Iron Body)

The Model 725G Suction Diffuser features a space saving design, ductile iron body and integral vanes that effectively reduce turbulence and provide optimum flow conditions at the inlet side of the pump.

The suction diffuser's inlet is supplied with a grooved end to AWWA C606-04. The 725G can be connected directly to grooved end pump or to a flanged end pump if used in combination with a Model 7041 flange or a Model 7180 universal flange adapter.

If a distance adjustment is required a nipple adapter can be used between the pump and the suction diffuser. The 725G also allows for a reduction on the outlet when used in combination with a Model 7150 concentric reducer and a Model 7041 flange.

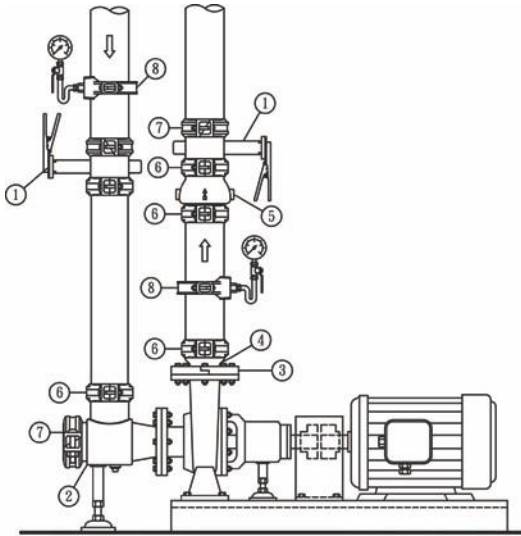
The Model 725G is supplied with a 304 stainless steel running strainer and a disposable fine mesh screen to protect the pump during start-up operation.



Model 725G Suction Diffuser

Nominal Size System Side X Pump Side	Max. Working Pressure (CWP)*	Dimensions					Drain	Weight
		L	C-E	CLR	C-T			
in	PSI	in	in	in	in	in	Lbs	
mm	Bar	mm	mm	mm	mm		Kgs	
2 x 2	300	8.82	5.00	5.79	3.75	1/8	7.9	
50 x 50	20	224	127	147	95		3.6	
2½ x 2½	300	8.82	5.00	5.79	3.75	1/8	8.8	
65 x 65	20	224	127	147	95		4.0	
3 x 3	300	10.43	6.30	6.93	5.51	1	13.0	
80 x 80	20	265	160	176	140		5.9	
4 x 4	300	12.28	7.36	8.58	5.00	1	20.9	
100 x 100	20	312	187	218	127		9.4	
5 x 5	300	13.86	10.24	9.76	9.02	1	38.9	
125 x 125	20	352	260	248	229		17.7	
6 x 6	300	15.16	9.02	10.43	6.50	1	43.3	
150 x 150	20	385	229	265	165		19.7	
8 x 8	300	18.27	10.24	12.60	9.02	1¼	75.5	
200 x 200	20	464	260	320	229		34.3	
10 x 10	300	22.11	12.40	16.14	9.02	1¼	123.2	
250 x 250	20	562	315	410	229		56.0	
12 x 12	300	26.30	15.43	19.29	10.00	1¼	168.1	
300 x 300	20	668	392	490	254		76.4	

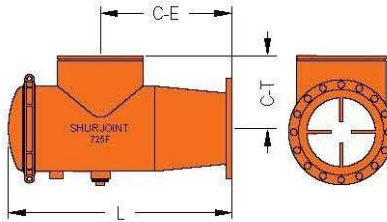
* Working pressure is based on connection with roll- or cut-grooved standard wall carbon steel pipe.



1. SJ-300N Butterfly Valve
2. 725G Suction Diffuser
3. 7041 Flange Adapter
4. 7150 Concentric Reducer
5. SJ-915 Dual Disc Check Valve
6. 7707 Flexible Coupling
7. Z07 Rigid Coupling
8. 7721 Mechanical Tee with Pressure Gauge

MODEL 725F SUCTION DIFFUSER (Fabricated)

Shurjoint offers large diameter suction diffusers with reduced outlet sizes that are made of segment welded steel. The factory standard #725F suction diffusers come with a grooved inlet and flanged outlet to ANSI Class 125 /150, PN10 or JIS 10K.



Model 725F Suction Diffuser (Fabricated)								
Nominal Size		Max. Working Pressure (CWP)*	Dimensions				Flange Drilling #	Weight
Suction Side	Pump Side		L	C-E	C-T	Drain		
in mm	in mm	PSI Bar	in mm	in mm	in mm	in	Lbs Kgs	
14 350	10 250	300 20	35.00 889	24.00 610	14.00 356	1½" NPT	NSI Class 150 * PN 10/16 * BS10 Table E Or JIS 10K	420 191
	12 300	300 20	35.00 889	24.00 610	14.00 356			444 202
	14 350	300 20	38.00 965	26.00 660	16.00 406			532 242
16 400	12 300	300 20	38.00 965	26.00 660	16.50 419	2" NPT		510 232
	14 350	300 20	38.00 965	26.00 660	16.50 419			532 242
	16 400	300 20	42.00 1067	28.50 724	17.50 445			686 312
18 450	14 350	300 20	42.00 1067	28.50 724	17.50 445	2" NPT	673 306	
	16 400	300 20	42.00 1067	28.50 724	17.50 445		686 312	
	18 450	300 20	50.00 1270	35.00 889	20.00 508		893 406	
20 500	16 400	300 20	50.00 1270	35.00 889	20.00 508	2" NPT	862 392	
	18 450	300 20	50.00 1270	35.00 889	20.00 508		893 406	
	20 500	300 20	53.00 1346	36.50 927	23.50 597		1195 543	

Model 725F Suction Diffuser (Fabricated)

Nominal Size		Max. Working Pressure (CWP)*	Dimensions				Flange Drilling #	Weight
Suction Side	Pump Side		L	C-E	C-T	Drain		
in	in	PSI	in	in	in	in	Lbs	
mm	mm	Bar	mm	mm	mm		Kgs	
24 600	18	300	54.00	37.00	20.50	2" NPT	1217	
	450	20	1372	940	521		553	
	20	300	54.00	37.00	20.50		1256	
	500	20	1372	940	521		571	
	22	300	63.00	43.50	23.88		1494	
	550	20	1600	1105	606		679	

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

When ordering, specify the desired flange drilling.

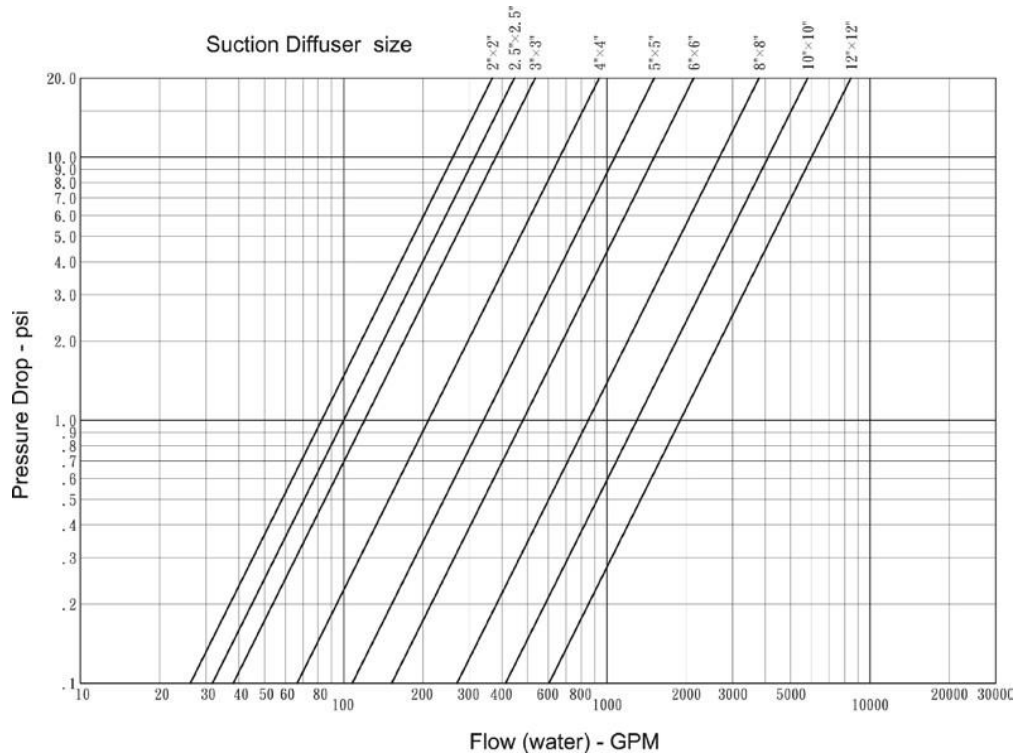
Flow Data – C_v Values

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

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

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

Model 725G Suction Diffuser					
Valve Size	Actual O.D.	C _v Value	Valve Size	Actual O.D.	C _v Value
in	in		in	in	
mm	mm		mm	mm	
2 x 2	2.375	82	8 x 8	8.625	850
50 x 50	60.3		200 x 200	219.1	
2½ x 2½	2.875	100	10 x 10	10.750	1300
65 x 65	73.0		250 x 250	273.0	
3 x 3	3.500	120	12 x 12	12.750	1900
80 x 80	88.9		300 x 300	323.9	
4 x 4	4.500	210			
100 x 100	114.3				
5 x 5	5.563	340			
125 x 125	141.3				
6 x 6	6.625	480			
150 x 150	168.3				



MATERIAL SPECIFICATIONS

• Body:

Ductile Iron to ASTM A536, Gr. 65-45-12 and or to ASTM A395, Gr. 65-45-15, or segment welded steel to ASTM A53 and/or A204.

• End Cap & Coupling Segments:

Ductile Iron to ASTM A536, Gr. 65-45-12.

• Surface Finish:

Orange color painted.

- Epoxy coated in black.

• Rubber Gasket:

Grade “E” EPDM (Color code: Green stripe) Good for cold & hot water up to +230°F (+110°C). 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. **Not recommended for petroleum oils, mineral oils, solvents and aromatic hydrocarbons.**

Maximum Temperature Range: -30°F (-34°C) to +230°F (+110°C)*.

*EPDM gaskets for water services are not recommended for steam services unless couplings or components are accessible for frequent gasket replacement.

- Grade “T” Nitrile** (Color code: Orange stripe) (Option) Recommended for petroleum products, vegetable oils, mineral oils and air with oil vapors. Temperature range: -20°F to +180°F (-29°C to +82°C). Also good for water services under +150°F (+66°C).

Do not use for HOT WATER above +150°F (+66°C) or HOT DRY AIR above +140°F (+60°C).

- Other options: Grade “O” Fluoro-Elastomer, Grade “L” Silicone, Potable water use Grade “E-pw” gaskets, etc. are also available upon request.

• Bolts & Nuts:

Heat treated carbon manganese steel track bolts to ASTM A449-83a (or A183 Gr. 2), minimum tensile strength 110,000 psi (758 MPa), Zinc electroplated, with heavy-duty hexagonal nuts to ASTM A563.

• Screen:

Stainless steel Type 304 to ASTM A240. Factory’s standard screen perforation is 1/8” (3.2 mm). Other perforations are available upon request.

• Start-up Screen:

Stainless steel Type 304, 20 mesh screen.

General Notes:

- **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.
- **Shurjoint** reserves the right to change specifications, designs and or standard without notice and without incurring any obligations.

*Shurjoint product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact **Shurjoint** Technical Service. **Shurjoint** reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligations to make such changes and modifications on **Shurjoint** products previously subsequently sold.*