



### GROOVED FLANGES

Shurjoint

7041-A Grooved Flange-ANSI 125/150

The Model 7041-A Flange allows for a direct connection with ANSI class 125/150 flanges. The specially designed gasket enables the transition from a grooved system to a flanged system or component with this single flange. The Model 7041-A sizes 50mm to 300 mm (2" to 12") are comprised of two identical ductile iron segments sizes 350mm to 600mm (14" to 24") and are comprised of four identical segments. Flanges comprised of the four segments are assembled with the supplied draw bolts. All include an EPDM rubber gasket and plated track bolts and nuts. Housing segments are supplied with standard painted finishes (orange or RAL3000 red). Optional finishes such as hot dipped zinc galvanized and custom epoxy coatings are also available.

### SPECIFICATIONS

NOMINAL SIZE (mm)	PIPE OD (mm)	MAX. WORKING PRESSURE (psi)	MAX. END LOAD (kg)	DIMENSIONS			SEALING SURFACE		BOLT/NUT		WEIGHT (kg)
				A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	(#)	(inches)	
50	60.3	300	5.7	152	121	19	60	87	5/8	4	2.0
65	73.0	300	8.4	178	140	22	73	102	5/8	4	2.5
80	88.9	300	12.3	190	152	24	89	116	5/8	4	3.4
100	114.3	300	20.5	229	191	24	114	141	5/8	8	4.0
125	141.3	300	31.3	254	216	24	141	171	3/4	8	4.5
150	168.3	300	44.5	279	241	25	168	198	3/4	8	5.5
200	219.1	300	75.3	343	298	28	219	254	3/4	8	8.0
250	273.0	300	117.0	406	362	30	273	308	7/8	12	13.8
300	323.9	300	164.7	482	432	32	324	359	7/8	12	19.0
350	355.6	300	198.5	533	476	37	356	416	1	12	31.8
400	406.4	300	259.2	597	540	37	406	467	1	16	41.4
450	457.2	300	328.2	645	578	40	457	508	1-1/8	16	44.5
500	508.0	300	405.2	699	635	43	508	572	1-1/8	20	52.3
600	609.6	300	583.5	813	749	49	610	706	1-1/4	20	75.0



### GROOVED FLANGES

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7041-B Grooved Flange-PN10/PN16

The Model 7041-B Flange allows for a direct connection of PN10\* and PN16 flanges. The specially designed gasket enables the transition from a grooved system to a flanged system or component with this single flange. The Model 7041-B sizes 50mm to 300 mm (2" to 12") are comprised of two identical ductile iron segments sizes 350mm to 600mm (14" to 24") and are comprised of four identical segments. Flanges comprised of the four segments are assembled with the supplied draw bolts. All include an EPDM rubber gasket and plated track bolts and nuts. Housing segments are supplied with our standard painted finishes (orange or RAL3000 red). Optional finishes such as hot dipped zinc galvanized and custom epoxy coatings are also available.

\*PN10 - 50mm to 150mm (2" to 6") only.

### SPECIFICATIONS

NOMINAL SIZE (mm)	PIPE OD (mm)	MAX. WORKING PRESSURE (psi)	MAX. END LOAD (kg)	DIMENSIONS			SEALING SURFACE		BOLT/NUT		WEIGHT (kg)
				A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	(Size)	(#)	
50	60.3	225	4.6	165	125	22	60	87	M16	4	2.3
65	76.1	225	7.3	185	145	22	76	105	M16	4	2.8
80	88.9	225	9.9	200	160	24	89	116	M16	8	3.4
100	114.3	225	16.4	220	180	24	114	141	M16	8	3.6
150	165.1	225	34.2	285	240	24	165	195	M20	8	4.6
150	168.3	225	35.6	285	240	24	168	198	M20	8	4.6
200	219.1	225	60.3	340	295	24	219	254	M20	12	8.4
250	273.0	225	93.6	405	355	26	273	308	M24	12	11.7
300	323.9	225	131.8	460	410	28	324	359	M24	12	17.7
350	355.6	225	158.8	520	470	30	356	416	M24	16	23.0
400	406.4	225	207.4	580	525	32	406	467	M27	16	28.0
450	457.2	225	262.2	640	585	36	457	508	M27	20	44.5
500	508.0	225	324.0	715	650	36	508	572	M30	20	45.0
600	609.6	225	466.7	840	770	40	610	706	M33	20	73.0



### HEAVY-DUTY FLEXIBLE COUPLINGS

Shurjoint

7707 Heavy-Duty Flexible Couplings

The Model 7707 Flexible Coupling is designed for moderate or high pressure applications where expansion contraction and deflection caused by temperature changes seismic activity or other vibrations are factors. The Model 7707 Flexible Coupling is recommended for services up to 1000 psi depending on the size and schedule of the pipe being used.

The Model 7707 couplings sizes 20mm to 300mm (3/4" to 12") are comprised of two identical ductile iron housing segments size 350mm (14") are comprised of three identical segments sizes 400mm to 600mm (16" to 24") are comprised of four identical segments. All include an EPDM rubber gasket and plated track bolts and nuts. Housing segments are supplied with standard painted finishes (orange or RAL3000 red). Optional finishes such as hot dipped zinc galvanized and custom epoxy coatings are also available.

### SPECIFICATIONS

NOMINAL SIZE (mm)	PIPE OD (mm)	MAX. WORKING PRESSURE (psi)	MAX. END LOAD (kg)	PIPE END SEPARATION (mm)	DEFLECTION DEGREE PER COUPLING	PIPE (mm/m)	DIMENSIONS			BOLT SIZE (mm)	WEIGHT (kg)
							A (mm)	B (mm)	C (mm)		
20	26.7	1000	3.79	0 - 16	3° - 23'	60.0	54	95	46	M10 x 45	0.6
25	33.4	1000	6.15	0 - 1.6	2° - 45'	48.0	61	99	46	M10 x 45	0.8
32	42.2	1000	9.64	0 - 1.6	2° - 10'	38.0	70	108	46	M10 x 55	1.0
40	48.3	1000	12.64	0 - 1.6	1° - 54'	33.0	76	124	45	M12 x 60	1.0
50	60.3	1000	19.69	0 - 1.6	1° - 31'	27.0	90	133	46	M12 x 75	1.2
65	73.0	1000	28.86	0 - 1.6	1° - 15'	22.0	102	165	46	M12 x 75	1.3
65	76.1	1000	31.37	0 - 1.6	1° - 31'	21.0	103	167	46	M12 x 75	1.3
80	88.9	1000	42.81	0 - 1.6	1° - 02'	18.0	124	171	48	M12 x 75	1.5
100	114.3	1000	70.76	0 - 3.2	1° - 36'	28.0	157	213	54	M16 x 90	2.1
125	139.7	1000	105.71	0 - 3.2	1° - 19'	23.0	186	241	54	M16 x 90	3.1
125	141.3	1000	108.14	0 - 3.2	1° - 18'	23.0	186	241	54	M16 x 90	3.3
150	165.1	1000	147.64	0 - 3.2	1° - 07'	19.0	211	286	54	M20 x 120	3.6
150	168.3	1000	153.42	0 - 3.2	1° - 18'	19.0	214	289	54	M20 x 120	3.7
200 JIS	216.3	800	202.00	0 - 3.2	0° - 51'	15.0	276	356	62	M20 x 120	6.6
200	219.1	800	207.26	0 - 3.2	0° - 50'	15.0	276	356	62	--	6.6
250 JIS	267.4	800	308.71	0 - 3.2	0° - 41'	12.0	337	420	64	--	10.2
250	273.0	800	321.78	0 - 3.2	0° - 13'	12.0	343	425	64	--	10.2
300 JIS	318.5	800	437.98	0 - 3.2	0° - 35'	10.0	389	478	64	--	11.6
300	323.9	800	452.95	0 - 3.2	0° - 34'	10.0	390	467	64	--	12.0
350	355.6	300	198.53	0 - 3.2	0° - 31'	9.0	423	508	73	--	16.8
400	406.4	300	259.30	0 - 3.2	0° - 27'	8.0	483	568	73	--	19.0
450	457.2	300	328.18	0 - 3.2	0° - 24'	7.0	540	619	76	--	20.8
500	508.0	300	405.16	0 - 3.2	0° - 22'	6.0	597	698	76	--	24.9
550	558.8	250	416.71	0 - 3.2	0° - 19'	6.0	618	742	80	--	28.5
600	609.6	250	495.92	0 - 3.2	0° - 18'	5.0	702	797	80	--	29.0



### LARGE DIAMETER GROOVED COUPLINGS

Shurjoint

7707L Large Diameter Grooved Couplings

The Model 7707L Large Diameter Grooved Coupling in sizes 650mm to 1050mm (26" to 42") are designed for joining large diameter black galvanized and or stainless steel IPS pipes that can be roll grooved\*. The 7707L couplings accommodate limited misalignment and axial torsion. They are recommended for service up to 300 psi depending on the size and wall thickness of the pipe being used. All couplings feature a six or eight-segment design, incorporating two bolts at each segment joint to ensure a positive connection and seal. These couplings are available with a grade "T" Nitrile gasket painted or hot dip galvanized housings and plated track bolts and nuts.

\*The 7707L couplings are not recommended for joining of lined or coated pipes that are not suitable for roll-grooving.

### SPECIFICATIONS

NOMINAL SIZE (mm)	PIPE OD (mm)	MAX. WORKING PRESSURE (psi)	MAX. END LOAD (kg)	DIMENSIONS			NOMINAL DEFLECTION (degree)	BOLT/NUT (#)	BOLT/NUT (inches)	WEIGHT (kg)
				A (mm)	B (mm)	C (mm)				
650	660.4	300	0 - 9.5	756	860	127	0° - 50'	12	7/8 x 3 - 15/16	66
700	711.2	300	0 - 9.5	813	920	127	0° - 46'	12	7/8 x 3 - 15/16	82
750	762.0	250	0 - 9.5	864	972	127	0° - 43'	12	7/8 x 3 - 15/16	95
800	812.8	250	0 - 9.5	914	1022	127	0° - 40'	12	7/8 x 3 - 15/16	85
850	863.6	250	0 - 9.5	974	1066	127	0° - 38'	12	7/8 x 3 - 15/16	90
900	914.4	250	0 - 9.5	1016	1124	127	0° - 36'	12	7/8 x 3 - 15/16	96
1000	1016.0	150	8 - 17.5	1105	1245	146	0° - 59'	16	1 x 3 - 1/2	123
1050	1066.8	150	8 - 17.5	1156	1295	146	0° - 57'	16	1 x 3 - 1/2	140

Figures listed are based on roll-grooved carbon steel pipe of 9.5mm (3/8") wall thickness. Linear movement will be within the range of maximum and minimum pipe end separation subject to tolerance changes.



**GROOVED-END FITTINGS**

Shurjoint

Various Grooved-End Fittings

Shurjoint offers various grooved-end fittings from 90° elbows to concentric reducers to flange adapters. They are available in 20mm to 600mm sizes.

**SPECIFICATIONS**

**MODELS**

- 7110  
• 90° Elbow, Regular Radius
- 7112  
• 22-1/2° Elbow
- 7113  
• 11-1/4° Elbow
- 7110-B  
• 90° Elbow with Base Support
- 110LR  
• 1.5D Long Radius 90° Elbow

- 7111LR  
• 1.5D Long Radius 45° Elbow
- 7137  
• True-Y
- 7120  
• Tee
- 7135  
• Cross
- 7130  
• 45 Lateral
- 7121  
• Reducing Tee

- 7150  
• Concentric Reducer
- 7160  
• End Cap
- 7160P  
• End Cap with Plug
- 7160H  
• Domed End Cap
- 7170  
• Flange Adapter