

# Axilock-S and Axilock



The Teekay Axilock range is designed to replace the need for flanging, welding, pipe grooving and pipe threading by providing a quick and easy solution to joining plain-end pipe. Incorporating grip rings at each end of the fitting, the Teekay Axilock offers high levels of security by locking the pipes together under pressure. Each coupling is 100% rubber-lined, ensuring that high levels of corrosion resistance are maintained throughout the life of the coupling.

Available in single (Axilock-S) and double (Axilock) casing versions depending on pressure and diameter.

Both models are suitable for new installations and retro-fit, whether on a ship, building or process plant. The Teekay Axilock range offers a versatile pipe coupling system that accommodates angulation, vibration and vacuum.

## Material Selection

### Type I

**Casing:** AISI 304 / DIN 1.4301  
**Fasteners:** Alloy Steel, Coated  
**Gasket:** EPDM/NBR/H-NBR/FKM/VMQ

### Type II

**Casing:** AISI 304 / DIN 1.4301  
**Fasteners:** AISI 316 / 316L  
**Gasket:** EPDM/NBR/H-NBR/FKM/VMQ

### Type IV

**Casing:** AISI 316L / DIN 1.4404  
**Fasteners:** AISI 316 / 316L  
**Gasket:** EPDM/NBR/H-NBR/FKM/VMQ

1.4462 Duplex casings and fasteners available on request.

**Sizes:** 21.3 mm to 711.0 mm

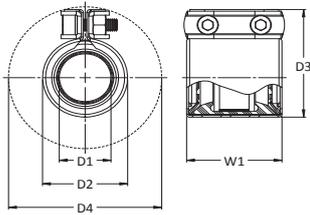
**Gaskets:** EPDM -40°C to +100°C, NBR -20°C to +80°C, HNBR -20°C to +130°C, FKM -20°C to +180°C, VMQ -70°C to +200°C (*water*), -70°C to +180°C (*steam*)

**Pipe Materials:** Carbon steel, stainless steel, copper, cunifer, cast and ductile iron, GRP, most plastics & other materials (see page 36).

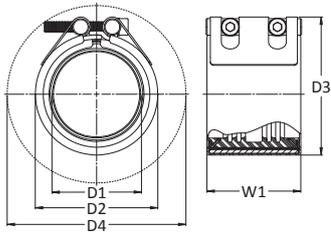


# Axilock-S Dimensions

**TEEKAY**  
the pipe coupling

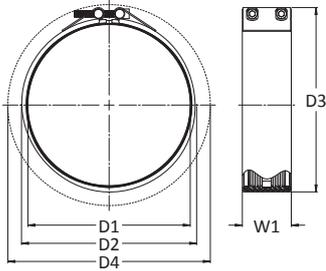


D1 Pipe O.D.	O.D. Tolerance	Working Pressure		Axial Pull	W1	D2	D3	D4	Screw Size	Hex Socket Adaptor	Weight	Box Qty
(mm)	(mm)	(bar)	(bar)	(N)	(mm)	(mm)	(mm)	(mm)		(mm)	KG	
21.3	21.0 / 21.6	16	42	5704	45	34	50	77	2 x M6	5	0.15	24
26.9	26.6 / 27.3	16	42	8528	45	39	56	83	2 x M6	5	0.16	24
28.0	27.7 / 28.4	16	42	8994	45	40	57	84	2 x M6	5	0.16	24
30.0	29.7 / 30.4	16	42	9900	45	42	59	86	2 x M6	5	0.17	24
33.7	33.3 / 34.1	16	42	11600	45	46	63	90	2 x M6	5	0.17	24
35.0	34.7 / 35.4	16	42	12031	45	47	64	91	2 x M6	5	0.18	24



D1 Pipe O.D.	O.D. Tolerance	Working Pressure		Axial Pull	W1	D2	D3	D4	Screw Size	Hex Socket Adaptor	Weight	Box Qty
(mm)	(mm)	(bar)	(bar)	(N)	(mm)	(mm)	(mm)	(mm)		(mm)	KG	
38	37.0 / 39.0	16	42	14069	65	55	67	130	2 x M8	6	0.42	12
42.4	41.4 / 43.4	16	42	16950	65	60	71	132	2 x M8	6	0.43	12
44.5	43.5 / 45.5	16	42	18360	65	62	73	134	2 x M8	6	0.45	12
48.3	47.3 / 49.3	16	42	21263	65	66	77	136	2 x M8	6	0.47	12
54.0	53.0 / 55.0	16	42	25463	88	71	87	138	2 x M8	6	0.72	12
57.0	56.0 / 58.0	16	42	27570	88	74	90	140	2 x M8	6	0.85	12
60.3	59.0 / 62.0	16	42	30855	88	78	93	143	2 x M8	6	0.87	12
63.0	62.0 / 65.0	16	42	32432	88	80	96	145	2 x M8	6	0.90	12
67.0	66.0 / 69.0	16	42	35271	88	84	100	147	2 x M8	6	0.90	12
70.0	69.0 / 72.0	16	42	36575	88	87	103	150	2 x M8	6	0.91	12
73.0	72.0 / 75.0	16	42	35590	88	90	106	152	2 x M8	6	0.93	12
76.1	75.0 / 78.0	16	42	37312	88	94	109	185	2 x M10	8	0.95	12
82.5	81.5 / 84.5	16	42	43317	88	101	116	189	2 x M10	8	1.00	12
84.0	83.0 / 86.0	16	42	43627	88	102	118	190	2 x M10	8	1.02	12
88.9	88.0 / 91.0	16	42	44352	88	107	123	193	2 x M10	8	1.05	12
98.0	97.0 / 100.0	16	42	59613	88	116	132	200	2 x M10	8	1.25	12
101.6	100.5 / 103.5	16	42	63263	88	120	136	202	2 x M10	8	1.28	12
104.0	103.0 / 106.0	16	42	65779	88	122	138	204	2 x M10	8	1.31	12
108.0	107.0 / 110.0	16	42	69651	88	126	142	207	2 x M10	8	1.35	12
110.0	109.0 / 112.0	16	42	72254	88	128	144	208	2 x M10	8	1.41	12
114.3	113.0 / 116.0	16	42	76987	89	133	149	211	2 x M10	8	1.50	12
118.0	117.0 / 120.0	16	42	79864	89	137	154	214	2 x M10	8	1.58	5
127.0	126.0 / 129.0	16	42	87442	89	146	163	221	2 x M10	8	1.75	5
129.0	128.0 / 131.0	16	42	89562	89	148	165	223	2 x M10	8	1.85	5
133.0	132.0 / 135.0	16	42	94510	114	152	177	236	2 x M12	10	2.46	5
139.7	139.0 / 142.0	16	42	101205	114	159	184	241	2 x M12	10	2.65	5
141.3	140.5 / 143.5	13	34	101968	115	162	187	243	2 x M12	10	2.80	5
144.0	143.0 / 146.0	13	34	104272	115	164	190	245	2 x M12	10	2.90	4
154.0	153.0 / 156.0	13	34	112025	115	174	200	253	2 x M12	10	3.05	4
159.0	158.0 / 161.0	13	34	117195	115	179	205	257	2 x M12	10	3.15	4
165.0	164.0 / 167.0	13	34	124068	115	185	211	262	2 x M12	10	3.25	4
168.3	167.0 / 170.0	13	34	126855	115	189	214	265	2 x M12	10	3.40	4
170.0	169.0 / 172.0	13	34	129431	115	190	216	266	2 x M12	10	3.41	4

# Axilock Dimensions



D1 Pipe O.D.	O.D. Tolerance	Working Pressure		Axial Pull (N)	W1 (mm)	D2 (mm)	D3 (mm)	D4 (mm)	Screw Size	Hex Socket Adaptor (mm)	Weight (KG)	Box Qty
		 (bar)	 (bar)									
141.3	140.5 / 143.5	16	42	100393	116	165	189	244	2 x M12	10	4.4	5
144.0	143.0 / 146.0	16	42	104266	116	167	192	246	2 x M12	10	4.4	4
154.0	153.0 / 156.0	16	42	119251	116	177	202	255	2 x M12	10	4.5	4
159.0	158.0 / 161.0	16	42	127120	118	184	210	287	2 x M16	14	4.6	4
165.0	164.0 / 167.0	16	42	136895	118	190	216	292	2 x M16	14	4.7	4
168.3	167.0 / 170.0	16	42	142425	118	194	219	294	2 x M16	14	4.8	4
170.0	169.0 / 172.0	16	42	145317	118	195	221	296	2 x M16	14	4.8	4
193.7	193.0 / 196.0	16	42	188860	119	220	246	315	2 x M16	14	6.5	2
219.1	218.0 / 221.0	16	42	241382	120	245	272	337	2 x M16	14	6.9	2
222.0	221.0 / 224.0	16	42	247814	120	248	275	339	2 x M16	14	6.9	2
244.5	243.5 / 246.5	8.75	23	164386	120	271	297	358	2 x M16	14	7.2	*
267.0	266.0 / 269.0	8.75	23	196033	120	293	320	378	2 x M16	14	7.5	*
273.0	272.0 / 275.0	8.75	23	204943	120	299	326	383	2 x M16	14	7.7	*
323.9	323.0 / 326.0	7.5	19	247276	120	350	377	429	2 x M16	14	9.5	*
326.0	325.0 / 328.0	7.5	19	250493	120	352	379	431	2 x M16	14	9.5	*
355.6	354.5 / 357.5	6.0	15	238437	120	382	409	458	2 x M16	14	10.25	*
378.0	377.0 / 380.0	6.0	15	269423	120	404	431	479	2 x M16	14	10.5	*
406.4	405.0 / 408.0	6.0	15	311428	120	433	460	506	2 x M16	14	12.0	*
429.0	428.0 / 431.0	5.0	15	289191	120	455	482	527	2 x M16	14	12.5	*
457.2	456.0 / 459.0		2.5	164230	120	485	512	554	2 x M16	14	13.3	*
508.0	507.0 / 510.0		2.5	202753	120	535	563	603	2 x M16	14	14.7	*
558.8	558.0 / 561.0		2.5	245331	120	586	613	652	2 x M16	14	16.2	*
609.6	608.5 / 611.5		1.5	175178	120	637	664	701	2 x M16	14	17.7	*
660.4	659.5 / 662.5		1.5	205591	120	688	715	750	2 x M16	14	19.2	*
711.0	710.0 / 713.0		1.5	238437	120	739	766	799	2 x M16	14	20.7	*

## NOTES:

The prior tables are guides to the most common sizes. Couplings to suit specific outside diameters not listed may be manufactured to order. Please contact us for further details.

Working Pressure and Axial Pull figures are independent of each other and cannot be combined.



Working pressure for marine applications. Minimum burst is 4 times working pressure. Figures are based on typical values for standard wall carbon steel pipe. For use on thin or soft pipe materials such as thin wall stainless, copper alloy or plastic (by way of example only) please check with us first.



Working pressure for industrial and land-based applications. Minimum burst is 1.5 times working pressure. Figures are based on typical values for standard wall carbon steel pipe. For use on thin or soft pipe materials such as thin wall stainless, copper alloy or plastic (by way of example only) please check with us first.

**Applicable Standards:** DIN 86128 Form G (axial restrained)  
ASTM F1476 Type II, Class 2 (flexible and restrained)

**Box Quantity:** Where marked \* the couplings are packed according to quantity ordered.

# Axilock-S & Axilock Applications



*Engine installations*



*Ship systems*



*Water industry*



*Building services*