



# TEEKAY REPAIR COUPLINGS

- A fully opening pipe coupling for wrap around repairs
- Suitable for repairing pipelines under pressure
- A permanent pipeline repair solution
- Designed for easy installation in areas of limited access
- Available in widths up to 310mm
- Quick to install with only 2 – 4 screws
- No loose parts
- Available in any pipe OD up to 3000mm
- Suitable for most pipe materials
- Use regular Teekay Axiflex Couplings for cut-in repairs
- Use Teekay Stepped Couplings for cut-in repairs using dissimilar pipe materials



- Casings available in stainless or coated steel
- Alloy or stainless screws
- Gaskets EPDM or NBR
- Up to PN16 pressure rating
- WRC approved

- Unbeatable service and delivery for emergency repairs.
- Installation teams can effect repairs with a minimum of time, cost and manpower to achieve a high quality permanent solution with the minimum of disruption to the consumer.





## TEEKAY REPAIR COUPLINGS

A fully opening coupling for repairing or replacing damaged or leaking pipes and joints.

Teekay Repair couplings have been designed with the installer in mind. Developed from first hand experience of extremely difficult site conditions, Teekay Repair Couplings are easy to fit. Firstly there are no loose parts. They are streamlined and light in weight with mostly only one lockpart. They can be opened or completely dismantled to facilitate installation with minimal access to, or excavation of, existing pipelines.

Where practicable, Teekay Repair Couplings can even be installed while there is water in the line. The Teekay Repair Coupling is fitted on to the pipe next to the damaged area. It can then be easily slid over the leak and the two screws are tightened until the leak stops.

Teekay Repair Couplings are available in any size from 50mm (2") to 3000mm (120") nominal bore, and can be used on any pipe material. For certain applications Teekay Stepped Repair Couplings can also be supplied for repairing various types of pipe joints.

As an integral part of the Teekay System the Teekay Repair Coupling offers flexibility, generous tolerances on pipe outside diameters and can operate from full vacuum to 25 bar (depending on diameter). Teekay Repair Couplings are not just a temporary repair product; they are a permanent solution to leakage problems.

Teekay Repair Couplings are manufactured from stainless or coated steel and are supplied with EPDM, Nitrile or Viton gaskets to suit most applications.







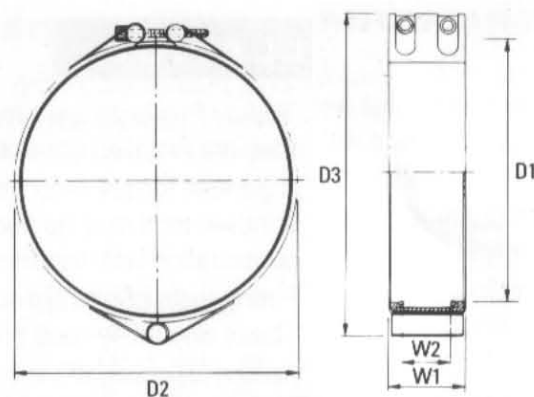
# TEEKAY REPAIR COUPLINGS

## DIMENSIONAL DETAILS

D1 PIPE OUTSIDE DIAMETER	PIPE NOMINAL BORE	W1 COUPLING WIDTH				W2 GAP BETWEEN SEALING LIPS	D2 COUPLING O.D. = (D1 + D2)	D3 OVERALL COUPLING O.D. = (D1 + D3)	NO. OF SCREWS	APPROX. WEIGHT KGS	TOLERANCE ON PIPE O.D. + / -
		110 mm	140 mm	210 mm	310 mm						
48	75	✓				67	22	66	2/4	3	2
TEEKAY REPAIR COUPLINGS CAN BE MANUFACTURED TO SUIT ANY PIPE OUTSIDE DIAMETER WITHIN THIS RANGE	100	✓				67	22	66	2/4	3	2
	150	✓	✓			67/80	22/28	66/88	2/4	4/5	2.5/2.5
	200	✓	✓	✓		67/80/120	22/28/42	66/88/102	2/2/2	4/6/10	3/3/3
	250	✓	✓	✓		67/80/120	22/28/42	66/88/102	2/2/2	5/6/10	3/3/3
	300	✓	✓	✓	✓	67/80/120/220	22/28/42/42	66/88/102/102	2/2/2/4	5/7/11/21	3/4/4/4
	350		✓	✓	✓	80/120/220	28/42/42	88/102/102	2/3/4	8/13/22	4/4/4
	400		✓	✓	✓	80/120/220	28/42/42	88/102/102	2/3/4	9/15/24	4/4/4
	450		✓	✓	✓	80/120/220	28/42/42	88/102/102	2/3/4	11/16/26	4/4/4
	500		✓	✓	✓	80/120/220	28/42/42	88/102/102	2/3/4	11/18/31	4/4/4
	600		✓	✓	✓	80/120/220	28/42/42	88/102/102	2/3/4	13/20/35	4/5/5
	700		✓	✓	✓	80/120/220	28/42/42	88/102/102	2/3/4	14/25/39	4/5/5
	800		✓	✓	✓	80/120/220	28/42/42	88/102/102	2/3/4	16/27/43	4/5/5
	900		✓	✓	✓	80/120/220	28/42/42	88/102/102	2/3/4	18/30/46	4/5/5
	1000		✓	✓	✓	80/120/220	28/42/42	88/102/102	2/3/4	19/33/50	4/5/5
	1100		✓	✓	✓	80/120/220	28/42/42	88/102/102	2/3/4	20/41/54	4/5/5
	1200		✓	✓	✓	80/120/220	28/42/42	88/102/102	2/3/4	22/44/58	4/5/5
	1300		✓	✓	✓	80/120/220	28/42/42	88/102/102	4/6/8	27/48/64	4/6/6
	1400		✓	✓	✓	80/120/220	28/42/42	88/102/102	4/6/8	29/51/68	4/6/6
	1500		✓	✓	✓	80/120/220	28/42/42	88/102/102	4/6/8	32/53/72	4/6/6
	1600			✓	✓	120/220	42/42	102/102	4/6/8	57/76	6/6
	1700			✓	✓	120/220	42/42	102/102	4/6/8	60/80	6/6
	1800			✓	✓	120/220	42/42	102/102	4/6/8	62/84	6/6
	1900			✓	✓	120/220	42/42	102/102	4/6/8	65/88	6/6
	2000			✓	✓	120/220	42/42	102/102	4/6/8	68/91	6/6
	2100			✓	✓	120/220	42/102	102/102	12/16	72/95	6/6
	2200			✓	✓	120/220	42/102	102/102	12/16	75/99	6/6
	2300			✓	✓	120/220	42/102	102/102	12/16	78/103	6/6
	2400			✓	✓	120/220	42/102	102/102	12/16	89/118	12/12
	2500			✓	✓	120/220	42/102	102/102	12/16	92/122	12/12
	2600			✓	✓	120/220	42/102	102/102	12/16	95/126	12/12
	2700			✓	✓	120/220	42/102	102/102	12/16	98/130	12/12
	2800			✓	✓	120/220	42/102	102/102	12/16	101/134	12/12
	2900			✓	✓	120/220	42/102	102/102	12/16	104/138	12/12
3048	3000			✓	✓	120/220	42/102	102/102	12/16	107/142	12/12

LARGER DIAMETERS ARE AVAILABLE ON REQUEST

TEEKAY REPAIR COUPLING MATERIAL SELECTION GUIDE					
Type	I	II	IV	V	VI
Casing	AISI 304 DIN 1.4301	AISI 304 DIN 1.4301	AISI 316L DIN 1.4404	*Coated High Strength Steel	*Coated High Strength Steel
Fasteners	Alloy Steel Zinc + PTFE Coated	AISI 316L DIN 1.4404	AISI 316L DIN 1.4404	Alloy Steel Zinc Coated	AISI 316L DIN 1.4404
Gasket	EPDM/NBR/ Viton	EPDM/NBR/ Viton	EPDM/NBR/ Viton	EPDM/NBR/ Viton	EPDM/NBR/ Viton



\*Galvanized, Rilsan, PVC or Epoxy (Scotchkote)  
E&OE 251101



## A Step by Step Guide to Repairing a Water Main Under Pressure



The leak is located and the area around the main is excavated. In this case, the 27" steel trunk main has a 1" hole.

Prior to installation, the Teekay Repair Coupling is kept clean and the rubber gasket is lubricated with a WRC approved lubricant.

The pipe is also cleaned.

The Repair Coupling is opened out and the side with the fixed gasket is pushed under the pipe next to the leak. The gasket is wrapped around the pipe and inserted back into the casing. The two ends of the gasket are butted together. The other side of the coupling is closed over the gasket. The screws are nipped up and with the Repair Coupling still loose on the pipe, it is slid quickly over the leak.



With the Repair Coupling in position, centred over the hole, the screws are quickly tightened. This can be done with a combination of speed brace and torque wrench. Here the fitter is using an air gun with an allen key attachment. The tightening is done in stages, going evenly from one screw to the other.

As the screws are tightened, the rubber gasket compresses against the pipe. The jet of water becomes a stream, then a trickle and soon stops completely.

While one fitter tightens the screw, the second fitter mallets all round the coupling casing to aid the all-round sealing of the gasket. This is important on larger diameters or on pipes which are out of round or have a rough surface.



The tightening is completed by torque wrench to the value stated on the coupling label. This figure may be increased, depending on the pipe material and its surface condition.

When finished, the leak will have stopped completely and the repair will have been achieved successfully with minimum cost, disruption and inconvenience to the consumer, with no contamination or discolouration of the water.



## Examples of other Teekay Products being used in Repair Situations



Teekay Axiflex or Axilock Couplings can be used for “cut in” repairs, where a new piece of pipe is inserted into an existing pipeline.



Stepped or Reducing Couplings can be used where the new pipe has an O.D. different from the old one.



Leaking joints can be replaced in situ without moving the existing pipework.