

## Allowable pipe diameter tolerances

Type of Teekay Coupling	Pipe Outside Diameter	Coupling Width	Outside Diameter Tolerance
	(mm)	(mm)	(mm)
Axilock-S Axilock Axilock-FP Axilock-FP Ultra	21.3 – 35.0	45	+ 0.3 / - 0.3
	38.0 – 57.0	65 / 85	+ 1 / - 1
	60.3 – 429.0	85 / 110	+ 2 / - 1
	429.0 – 711.0	110	+ 2 / - 1
Axiflex Stepped Repair Coupling	21.3 – 35.0	45	+ 0.3 / - 0.3
	38.0 – 44.5	65	+ / - 1
	48.3 – 76.1	85	+ / - 1.5
	82.5 – 125.0	85	+ / - 2
	88.9 – 149.9	110	+ / - 2
	153.0 – 193.7	110	+ / - 2.5
	200.0 – 326.0	110	+ / - 3
	153.0 – 193.7	140 L	+ / - 2.5
	200.0 – 635.0	140 L	+ / - 3
	168.3 – 170.0	140	+ / - 2.5
	291.1 – 345.4	140	+ / - 4
	355.0 – 1255.0	140	+ / - 4
	219.1 – 345.4	210	+ / - 4
	355.0 – 1255.0	210	+ / - 4
	1256.0 – 2350.0	210	+ / - 8
	2351.0 – 3050.0	210	+ / - 16
	315.0 – 326.0	310 / 410	+ / - 4
	333.8 – 1255.0	310 / 410	+ / - 4
	1256.0 – 1631.0	310 / 410	+ / - 8
	1632.0 – 2350.0	310 / 410	+ / - 16
2351.0 – 3050.0	310 / 410	+ / - 16	

## Distance between Pipe Ends

For Axilock-S, Axilock, Axilock-FP and Axilock-FP Ultra couplings the optimum distance between pipe ends is 0 - 8 mm. This allows for expansion and contraction, suction and vacuum, pipe deflection and a reasonable cutting tolerance.

For Axiflex, Stepped and Repair couplings the recommended gap between pipe ends depends on the width of the coupling and whether or not a vacuum ring is fitted. When the gap is exceeded (or in all vacuum applications) a vacuum insert must be fitted. The table gives the maximum pipe gaps for these couplings:

Coupling Width	Maximum Pipe Gap (without vacuum ring)	Maximum Pipe Gap (with vacuum ring)
(mm)	(mm)	(mm)
85	5	20
110	5	30
140	10	40
210	20	50
310	30	110
410	30	150

- maximum pipe gap without a vacuum ring can be doubled on applications where intrusion of the rubber gasket into the pipe gap is not a problem.
- maximum pipe gap with a vacuum ring is limited by the maximum angle of deflection. If the angle of deflection is less than the maximum allowable angle of deflection, the maximum pipe gap (with vacuum ring) can be increased accordingly.