

RANGER COUPLINGS

PRODUCT FEATURES

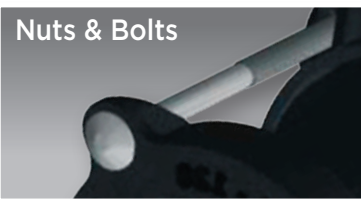
KLAMFLEX Ranger Couplings (mark holder of SANS 1808-2), in the form of Wide Range Couplings are designed to join pipes of various outside diameters with the same or different nominal bore. Because of the wide range tolerance on OD (Up to 23mm) a single KLAMFLEX Ranger Coupling can connect steel, ductile iron, UPVC, cast iron, asbestos cement, and other rigid pipe materials. This eliminates on site guesswork and stock range holdings are optimized. The ability of KLAMFLEX Ranger Couplings to join dissimilar pipe materials is a bonus feature in both repair or permanent situations.

Corrosion protection for KLAMFLEX Ranger Couplings is available in Fusion Bonded Epoxy, Red Oxide Primer, and Galvanized finish as standard. Optional coatings to customer specifications are available upon request. KLAMFLEX Ranger Couplings have applications in the reticulation of portable water, waste water and sewage as well as in the marine, mining, oil, gas and general engineering sectors. Molded, circumferentially ribbed or specially profiled gaskets, generally in EPDM or NBR materials, provided for smooth installation by minimizing contact friction. KLAMFLEX Ranger Coupling Gaskets are designed to provide a leak tight seal across the O.D range per nominal size and still allow for thermal expansion and contraction of the pipe up to 5mm per gasket, facilitated through gasket deformation. To facilitate installation and avoid possible creep under rising load, it is strongly recommended that the KLAMFLEX Ranger Coupling Rubber Sealing Gaskets are well lubricated with a suitable non-toxic soap solution before introduction of the pipe. This practice should obviate the need for re-tightening the fasteners after pressure testing, and further facilitate the seating of the joint components. KLAMFLEX Ranger Couplings can be manufactured with double sleeves to prevent end pull-out on PE, HDPE, and GRP pipes.

KLAMFLEX Ranger Couplings are NOT DESIGNED TO RESIST END LOAD due to pressure forces and therefore such forces must normally be resisted by other means.

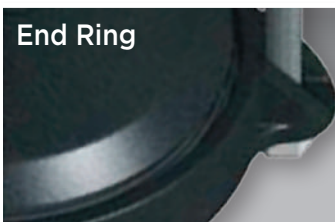


Nuts & Bolts

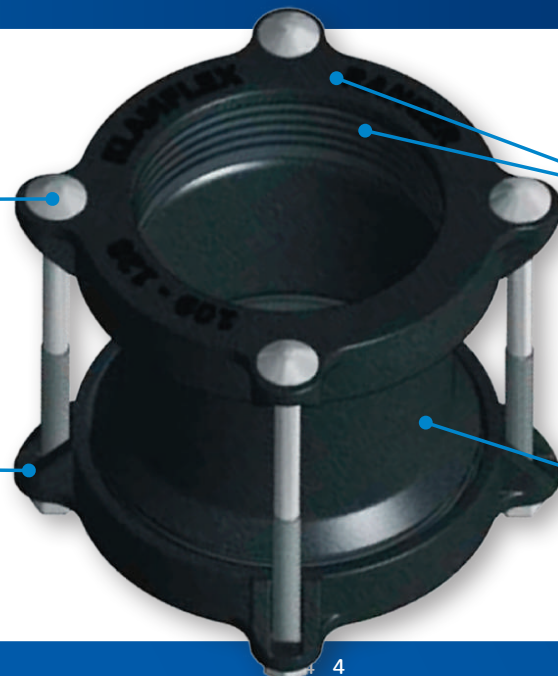


Galvanised low carbon steel bolts and nuts (Stainless Steel on request).

End Ring



Ductile iron.

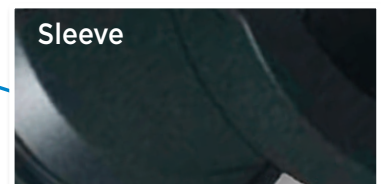


Rubber & Coating

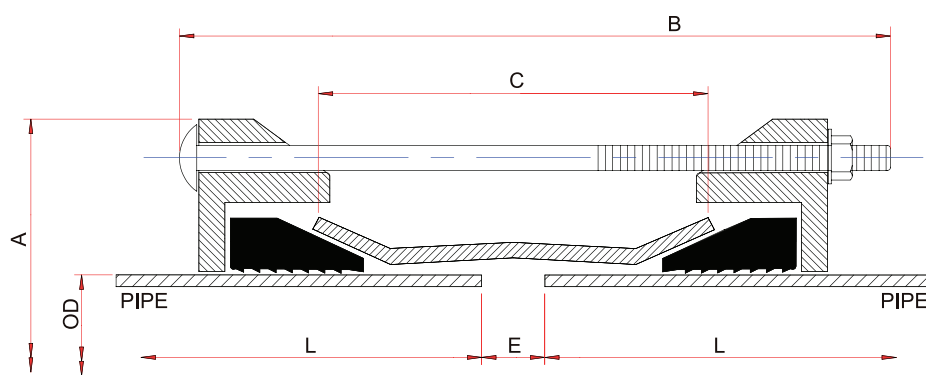


Non-toxic WRAS approved (EPDM rubber - Non-Toxic and FBE to 300 micron coating).

Sleeve



Rolled steel.



Nominal Bore (mm)	Pipe OD (mm)	End Ring Diameter (A)	Sleeve Length (C)	Coupling Length (B)	Setting Gap (E)	Min. Pipe Prep. Length (L)	Bolts	Approx Mass (kg)
50	48-60	160	100	185	19	100	2x M12x175	3
50	59-78	160	100	185	19	100	2x M12x175	3
65	74-90	170	100	185	19	100	2x M12x175	3
80	88-103	191	100	185	19	100	4x M12x175	4
100	98-118	206	100	185	19	100	4x M12x175	4
100	109-129	220	100	185	19	100	4x M12x175	5
125	132-146	234	100	185	19	100	4x M12x175	5
150	150-170	260	130	185	19	100	4x M12x175	7
150	159-182	283	130	185	19	100	4x M12x175	7
200	192-210	315	130	210	19	100	4x M12x200	9
200	205-222	317	130	230	19	100	4x M12x220	10
200	218-235	330	130	230	19	100	4x M12x200	10
250	242-262	355	130	230	19	100	6x M12x220	13
250	272-289	412	130	230	19	100	6x M12x220	16
300	302-318	436	130	230	19	100	6x M12x220	24
300	315-332	450	130	230	19	100	6x M12x220	24
350	340-360	470	130	230	19	100	6x M12x220	17
350	374-391	510	150	260	19	150	8x M12x250	28
400	390-410	530	150	270	19	150	8x M12x260	18
400	417-437	565	150	270	19	150	8x M12x260	26
450	440-460	580	150	270	19	150	8x M12x260	35
450	476-493	625	150	270	19	150	8x M12x260	40
500	494-510	635	150	270	19	150	10x M12x260	47
500	526-546	660	150	270	19	150	10x M12x260	55
600	600-614	730	150	270	19	150	10x M12x260	59
600	608-636	730	150	270	19	150	10x M12x260	63
600	630-650	780	150	270	19	150	10x M12x260	68

Max working pressure: 25 Bar (DN50 - DN300)

Max working pressure: 16 Bar (DN350 - DN600)

Setting Gap: 19mm

Tolerance on angular deflection: 3 Degrees per side

Expansion and Contraction range: 5-10mm

Recommended bolt torque: 60 - 80 Nm

For couplings above 25 Bar, refer to Dedicated Couplings