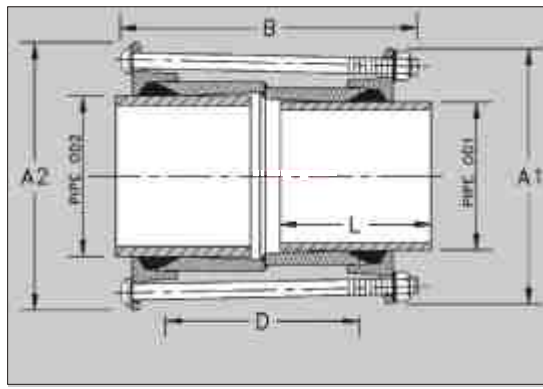


KLAMFLEX STEPPED COUPLINGS

- Where pipe ends of different outside diameters have to be connected, stepped couplings can be provided. These normally cover the difference between the outside diameters of pipes of different materials having a common nominal bore, or pipes of the same materials having different nominal bores.
- It is advisable to mark the pipe a known distance from the end when fitting a step coupling to enable inspection of movement. This will allow the inspector to ensure that no telescoping along the smaller diameter pipe has occurred.
- When this fitting is used as a coupling between two pipes with diameter differences exceeding 25mm it is essential to ensure that the stepped coupling cannot be forced along the smaller diameter pipe. Scheduled sizes will not normally require such precautions, but others may. Regular inspection of a pipe previously marked, is normally all that is required. Alternatively, where this cannot be arranged, a mechanical means should be employed.
- Pressure rating for stepped couplings are equivalent to the rating specified in the straight coupling schedules, for the larger of the two OD's. In the case of ductile iron, AC and uPVC pipes, the pressure rating will match the pipe rating.
- KLAMFLEX Stepped Couplings can be manufactured with full sleeves to prevent end pullout on PE, HDPE and GRP pipes.

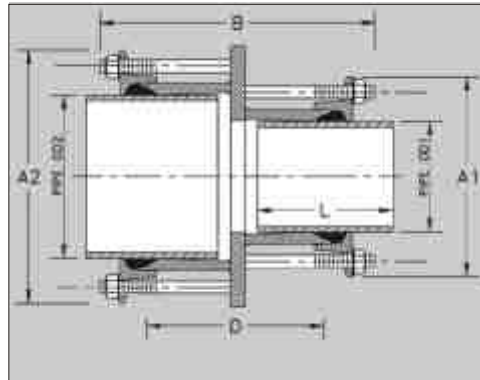




Where pipe OD sizes are negligible

KLAMFLEX STEPPED COUPLINGS

NOM BORE PIPE 1 (mm)	NOM BORE PIPE 2 (mm)	PIPE OD1 (mm)	PIPE OD2 (mm)	DESCRIPTION (mm)	L MIN (mm)	A1 (mm)	A2 (mm)	B (mm)	D (mm)	MAX TEST PRESSURE (bar)
50	65	60.3	76.1	STEEL/STEEL	100	133	148	172	102 x 6.4	24
140	160	140	160	uPVC/uPVC	100	224	246	172	102 x 7.2	24
200	200	200	219	uPVC/STEEL	100	292	311	172	102 x 8.7	24
315	300	315	324	uPVC/STEEL	100	407	419	172	102 x 8.7	24
300	300	353	365	FC30/FC24	120	458	470	260	178 x 8.7	24
600	600	651	672	FC18/FC12	140	756	777	260	178 x 8.7	24
700	700	760	784	FC18/FC12	140	875	889	260	178 x 11.1	24
1000	1000	1062	1084	FC12/FC06	160	1177	1199	260	178 x 11.1	24



Where the pipe OD differs to a greater extent a profile plate is used

KLAMFLEX STEPPED COUPLINGS

NOM BORE PIPE 1 (mm)	NOM BORE PIPE 2 (mm)	PIPE OD1 (mm)	PIPE OD2 (mm)	DESCRIPTION (mm)	L MIN (mm)	A1 (mm)	A2 (mm)	B (mm)	D (mm)	MAX TEST PRESSURE (bar)
65	80	76.1	96	STEEL/FC	100	148	170	188	110	24
160	150	160	174	uPVC/FC18	100	246	266	190	112	24
150	200	177	232	FC/FC	100	270	324	190	112	24
250	250	273	318	STEEL/FC36	100	367	410	190	112	24
355	350	355	378	uPVC/DI	120	460	483	270	188	24
600	600	610	672	STEEL/FC18	150	714	776	270	188	24
700	750	711	762	STEEL/DI	150	815	877	270	188	24
1100	1100	1118	1188	FC/STEEL	160	1233	1303	276	194	24

FOR COUPLINGS OF 25 AND 40 BAR WORKING PRESSURE PLEASE CONTACT KLAMFLEX

THE ABOVE TABLE INCLUDES SAMPLES OF THE SIZES AVAILABLE, PLEASE CONTACT KLAMFLEX FOR ANY OTHER SIZES UPTO 2000MM.