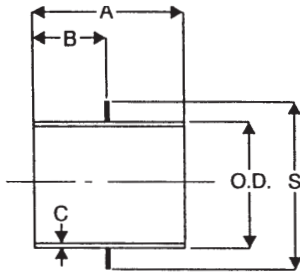
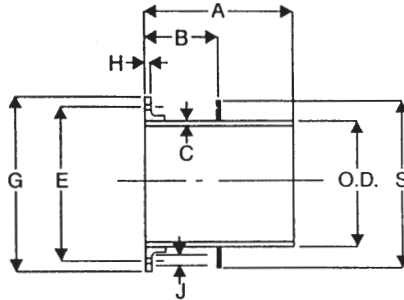


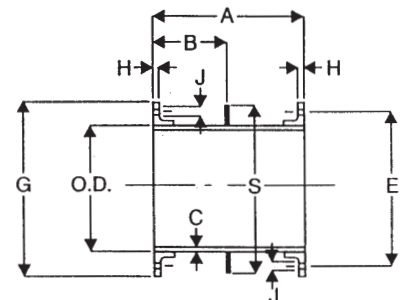
FABRICATED WALL PIPES



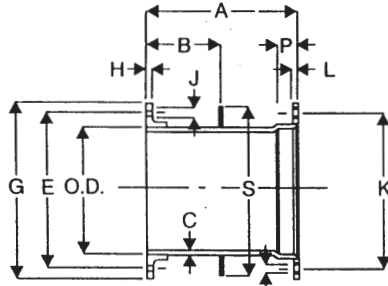
P.E. x P.E.



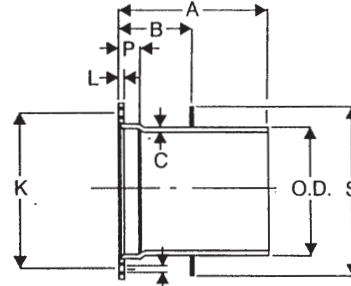
FLG. x P.E.



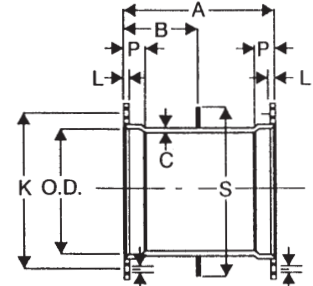
FLG. x FLG.



FLG. x M.J.



M.J. x P.E.



M.J. x M.J.

| SIZE | A | B | C | O.D. | | E | G | H | | NO. OF FLG'D BOLT HOLES | J | K | | L | | NO. OF M.J. BOLT HOLES | M | | P | S |
|------|---|---|------|-------|-------|-------|-------|------|------|-------------------------|-------|-------|-------|------|------|------------------------|-------|-------|------|-------|
| | | | | MIN. | MAX. | | | MIN. | MAX. | | | MIN. | MAX. | MIN. | MAX. | | MIN. | MAX. | | |
| 3 | • | • | 0.31 | 3.90 | 4.02 | 6.00 | 7.50 | 0.63 | 0.87 | 4 | 0.75 | 6.13 | 6.25 | 0.88 | 0.94 | 4 | 0.75 | 0.81 | 2.50 | 6.50 |
| 4 | A | A | 0.32 | 4.74 | 4.86 | 7.50 | 9.00 | 0.82 | 1.06 | 8 | 0.75 | 7.44 | 7.56 | 0.94 | 1.00 | 4 | 0.875 | 0.935 | 2.50 | 7.40 |
| 6 | S | S | 0.34 | 6.84 | 6.96 | 9.50 | 11.00 | 0.88 | 1.12 | 8 | 0.875 | 9.44 | 9.56 | 1.00 | 1.06 | 6 | 0.875 | 0.935 | 2.50 | 9.50 |
| 8 | • | • | 0.36 | 8.99 | 9.11 | 11.75 | 13.50 | 1.00 | 1.24 | 8 | 0.875 | 11.69 | 11.81 | 1.04 | 1.12 | 6 | 0.875 | 0.935 | 2.50 | 12.00 |
| 10 | • | • | 0.38 | 11.04 | 11.16 | 14.25 | 16.00 | 1.07 | 1.31 | 12 | 1.00 | 13.94 | 14.06 | 1.11 | 1.19 | 8 | 0.875 | 0.935 | 2.50 | 14.10 |
| 12 | R | R | 0.40 | 13.14 | 13.26 | 17.00 | 19.00 | 1.13 | 1.37 | 12 | 1.00 | 16.19 | 16.31 | 1.17 | 1.25 | 8 | 0.875 | 0.935 | 2.50 | 16.25 |
| 14 | E | E | 0.42 | 15.22 | 15.35 | 18.75 | 21.00 | 1.19 | 1.57 | 12 | 1.125 | 18.69 | 18.81 | 1.19 | 1.31 | 10 | 0.875 | 0.935 | 3.50 | 18.40 |
| 16 | Q | Q | 0.43 | 17.32 | 17.45 | 21.25 | 23.50 | 1.25 | 1.63 | 16 | 1.125 | 20.94 | 21.06 | 1.26 | 1.38 | 12 | 0.875 | 0.935 | 3.50 | 21.00 |
| 18 | U | U | 0.44 | 19.42 | 19.55 | 22.75 | 25.00 | 1.37 | 1.75 | 16 | 1.25 | 23.19 | 23.31 | 1.32 | 1.44 | 12 | 0.875 | 0.935 | 3.50 | 23.10 |
| 20 | I | I | 0.45 | 21.52 | 21.65 | 25.00 | 27.50 | 1.50 | 1.88 | 20 | 1.25 | 25.44 | 25.56 | 1.38 | 1.50 | 14 | 0.875 | 0.935 | 3.50 | 25.70 |
| 24 | R | R | 0.47 | 25.72 | 25.85 | 29.50 | 32.00 | 1.69 | 2.07 | 20 | 1.375 | 29.94 | 30.06 | 1.50 | 1.62 | 16 | 0.875 | 0.935 | 3.50 | 30.00 |
| 30 | E | E | 0.51 | 31.94 | 32.08 | 36.00 | 38.75 | 1.87 | 2.37 | 28 | 1.375 | 36.82 | 36.94 | 1.69 | 1.81 | 20 | 1.125 | 1.185 | 4.00 | 37.00 |
| 36 | D | D | 0.58 | 38.24 | 38.38 | 42.75 | 46.00 | 2.13 | 2.63 | 32 | 1.625 | 43.69 | 43.81 | 1.88 | 2.00 | 24 | 1.125 | 1.185 | 4.00 | 43.40 |
| 42 | • | • | 0.65 | 44.44 | 44.58 | 49.50 | 53.00 | 2.37 | 2.87 | 36 | 1.625 | 50.56 | 50.68 | 1.88 | 2.00 | 28 | 1.375 | 1.435 | 4.00 | 49.50 |
| 48 | • | • | 0.72 | 50.74 | 50.88 | 56.00 | 59.50 | 2.50 | 3.00 | 44 | 1.625 | 57.44 | 57.56 | 1.88 | 2.00 | 32 | 1.375 | 1.435 | 4.00 | 55.90 |
| 54 | • | • | 0.81 | 57.40 | 57.64 | 62.75 | 62.75 | 2.75 | 3.25 | 44 | 1.875 | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 62.70 |

1. Tolerance on length of wall pipes, regardless of end configurations, shall be ± 0.0625 ".
2. Tolerance on location of waterstop shall be ± 0.25 ".
3. All waterstops shall be welded on in a watertight fashion.
4. All flanges shall be ductile iron and threaded on ductile iron pipe per ANSI A21.15.
5. M.J. x M.J. shall have a ductile iron M.J. bell threaded on ductile iron pipe.
6. Linings, if required, shall be in accordance with ANSI A21.4.
7. Above material shall meet all applicable sections of ANSI A21.10, A21.15, A21.50, A21.51, B2.1, B16.1/ AWWA, C110, C115, C150, C151, and all revisions thereto.
8. Submitted material only. Consult engineer for application.
9. 250 lb. faced and drilled flanges available upon request.

