



4 in Calder Style Bushings (100 mm)

Project _____

Engineer _____

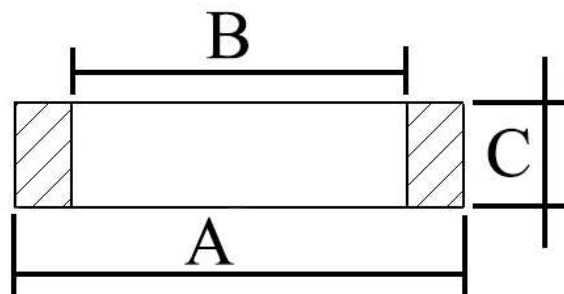
Contractor _____

ASTM C1173
ASTM C 425
ASTM D2000
UPC/ IAPMO
SSPWC

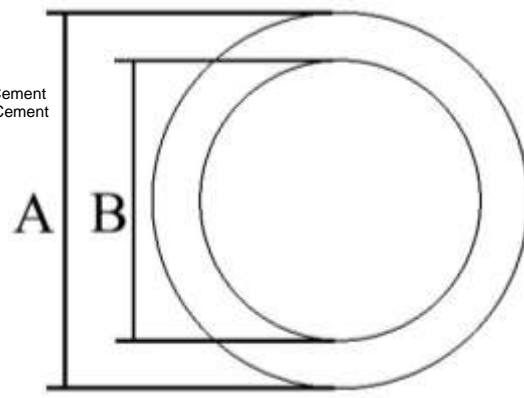
Bushings or filler rings are removable rubber gaskets designed for use inside flexible couplings or Tap-N-Tee saddle fittings. These bushings adapt the coupling's inner diameter to connect pipe's different outside diameters (OD). Bushings/ filler rings can be placed on the pipe before coupling or placed at same time with coupling. Recommend use of two bushing/ filler rings but using a single bushing is satisfactory.

4 Inch (100 mm) Bushing/ Filler Ring

Part Number	Description	A		B		C	
		INCH	MM	INCH	MM	INCH	MM
JOI-112	4" AC to BEAD, CI or MEAC	5.00	127	4.625	117	2.80	71
JOI-113	4" AC to PEGI or PL	5.00	127	4.375	111	1.25	31.75
JOI-115	4" X 3" AC to PEGI or PL	5.00	127	3.375	86	1.25	31.75
JOI-118	4" X 3" CIT (CI, PL) to PEGI or ABS	4.50	114	3.350	85	1.25	31.75
JOI-120	5" X 4" AC to PEGI or ABS	6.10	155	4.500	114	1.25	31.75
JOI-121	4" Clay to PEGI or Bald CI	5.38	137	4.375	111	1.25	31.75
JOI-122	4" Clay to BEAD CI or MEAC	5.38	137	4.625	117	1.25	31.75
JOI-123	4" Clay to RBAC or CI 150 DI	5.38	137	4.900	124	1.25	31.75
JOI-124	4" X 3" Clay to PEGI	5.38	137	3.375	86	1.25	31.75
JOI-126	4" X 2" Clay to PEGI	5.38	137	2.250	57	1.25	31.75
JOI-139	4" Clay to ABS or Sch 40	5.38	137	4.500	114	1.25	31.75
JOI-140	4" AC to ABS	5.00	127	4.500	114	1.25	31.75
JOI-141	4" X 3" AC to PEGI	5.00	127	3.375	86	1.25	31.75
JOI-142	4" X 3" Clay to ABS	5.38	137	4.010	102	1.25	31.75
JOI-156	4" Clay to SDR 35 or PL	5.38	137	4.250	108	1.25	31.75
JOI-157	4" Clay to C-900	5.38	137	4.750	121	1.25	31.75



BEAD: bead end inside bushing
AC: Asbestos Cement
PL: Plastic
PEGI: Plain End Cast Iron
CIT: Bead end inside bushing
MEAC: Machine End Asbestos Cement
RBAC: Rough Barrell Asbestos Cement



Property	Value/ Test Requirement	ASTM Test Method N.
Chemical Resistance: 1 N sulfuric acid 1 N hydrochloric acid	No weight loss No weight loss	D 543 (48 h at 23°±2°)
Tensile Strength	100 psi (6.9 MPa) min; 250% min elongation at break	D412
Elongation	Elongation at break, 73.4°±3.6°F (23°±2°C), % min	D412
Durometer (Hardness)	Shore A durometer 55 min to 70 max	D2240
Compression Set	20% max of original deflection	D395, Method B (22h at 70°±2°C)
Water Absorption* (test has rubber specimens dipped into water than taken out). Chemical resistance test is harsher environment material tested under	5% max by weight after 7 days at 70° F (21°C)	D471
Ozone Resistance	No visible cracks under 2x specimen magnification, determined by D518, Procedure B, stretched 20% and exposed to ozone concentrations of 0.5ppm for 24h at 40±2°	D1149- Required no cracking
Accelerated Oven Aging	85% min of original strength 85% min of original elongation	D573 (7 days at 70±2°C)

Bushing/ Filler Ring

Allow linking different sizes pipes at more points in connection.

Depending on environment, place the bushing on the small pipe before placing larger coupling. In many conditions it is fine to place removable bushing inside the coupling on pipe.



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