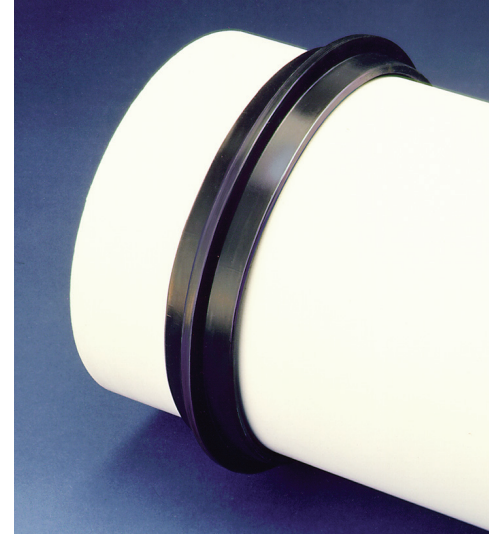


Concrete Manhole Adapters

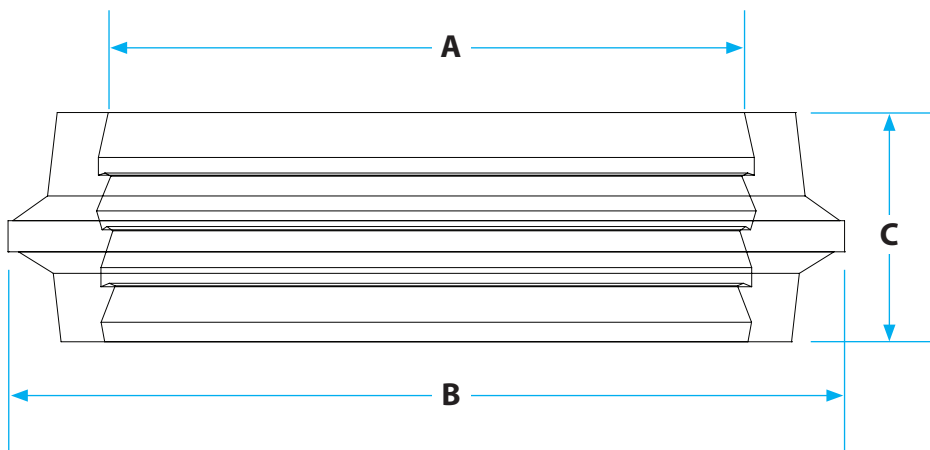
Technical Data Sheet

Concrete Manhole Adapters supplied by Fernco are manufactured of a specially formulated plasticized PVC conforming to the requirements of ASTM D5926:

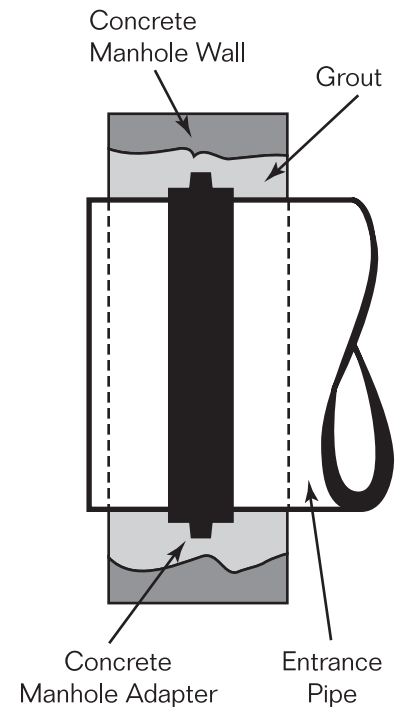
- Available in standard sizes 4 inch thru 12 inch
- Custom sizes available upon request (LDCMA)
- Engineered to stop leaks around pipe penetrating manhole walls
- Flexible gasket allows pipe to move without breaking grout
- Flexible gasket is compatible with grout and concrete
- Flexible gasket will not rot or deteriorate



Part No.	Pipe Size	Dimension A	Dimension B	Dimension C
4CMA	4" CI, PL	4.20"	5.40"	1.50"
6CMA	6" CI, PL	6.05"	8.38"	1.63"
8CMA	8" CI, PL	7.95"	10.35"	1.63"
10CMA	10" CI, PL	10.05"	11.12"	1.63"
12CMA	12" CI, PL	11.84"	13.12"	1.63"



APPLICATIONS



Concrete Manhole Adapters

Gasket Requirements

Property	Requirement	Typical Value	Test Method
Hardness (Shore A, 15 s Interval)	55-64	60	ASTM D2240
Brittleness Temperature (max)	-40°F	-	ASTM D746
Tensile Strength (psi)	1000	1280	ASTM D412
Volatile Loss (221°F, max %)	6	3	ASTM D1203
Elongation at Break (%)	250	345	ASTM D412
Tear Strength (Min lbf/in.)	150	165	ASTM D624
Water Absorption (% Δ in Wt. Max)	20	+ 3.6	ASTM D471
Chemical Resistance (48h at 74°F)			ASTM D543
1 N Sulfuric Acid Absorption	no wt. loss	0	
1 N Hydrochloric Acid Absorption	no wt. loss	0	
Oil Immersion (70h at 212°F)			ASTM D471
Max Volume Increase, %	10	-	
Max Volume Decrease, %	50	-	
Heat Aging (96 h at 158°F)			ASTM D573
Δ in Hardness (Shore A)	+10	0	
Tensile Strength (% Δ Max)	- 25	- 4	
Elongation at Break (% Δ Max)	- 35	- 7	
Stress Relaxation (min % Force Retention)	30	68	ASTM D6147
Ozone Resistance			ASTM D1149
1.5ppm, 100 h at 104°F	no cracks	no cracks	

NOTE: The CMA is subjected to varying conditions beyond Fernco's control. High water tables, quality of grout and workmanship can affect its ability to seal. Discretion should be used in its application and installation.

