GENERAL SPECIFICATION
FOR PRO 24 and PRO 40
SERIES CHAMBERS

SCOPE

The Wastewater Access Chamber (WAC) and Cleanout/Sampling Chamber (CSC) **PRO 24** and **Pro 40** Series may be used in place of standard pre-cast or cast in place concrete manholes, cleanouts, sampling ports, or any other location in a sewage or storm water collection system that requires access for inspection and maintenance. The chamber shall consist of an injection molded polypropylene (PP) base, injection molded polypropylene (PP) shaft(s), injection molded polypropylene (PP) cone, Polyvinyl Chloride (PVC) riser, and Telescopic solution with a cast iron lid designed to withstand an H20 load. All connections shall be made to meet ASTM D-3212. Chamber and Riser/Telescopic Solution shall be manufactured by **PipeLife Jet Stream** or approved equal.

MATERIALS

Base, Shaft and Cone:
Materials used in **Pipelife**'s chamber base, shaft and cone are polypropylene (PP) copolymer. The following material properties are valid:

Characteristic	**Test Method**		**Value SI**	**Value US**
Density	ASTM D 1505	ISO 1183	0.900 g/cm>	0.0325 lb/in^3
Tensile strength, yield	ASTM D 638	ISO 527-2	26 n/mm^2	3770 psi
Elongation at yield	ASTM D 638	ISO 527-2	15%	15%
Vicat softening point (10 N)	ASTM D 1525	ISO 306/A	150° C	302°F
Flexural Modulus	ASTM D 790	ISO 178	1250N/mm^2	181,300 psi
Heat distortion temp.	ASTM D 648	ISO 75/B	85° C	185° F
IZOD Impact Strength (23° C)	ASTM D 256	ISO 180	50 kJ/m^2	23.8 ft x lb/in^2
IZOD Impact Strength (-20° C)	ASTM D 256	ISO 180	50 kJ/m^2	23.8 ft x lb/in^2
ESRC	ASTM D 1693		>1000 hours	>1000 hours
Rockwell hardness	ASTM D 785	ISO 868	80	80

RISER/TELESCOPE SOLUTION

Riser of 21" nominal diameter (Used on the **PRO 24** series) produced with PVC from Cell Class 12454 or 12364 as defined in Specification ASTM D-1784, and provided from the Chamber Manufacturer. The standard Dimension Ratio (SDR) shall be 35. Cast iron frame and cover shall be of heavy duty design and able to withstand a AASHTO H-20 loading condition.

Riser of 24" nominal diameter (Used on the **PRO 40** series) produced with PVC from Cell Class 12454 or 12364 as defined in Specification ASTM D-1784, and provided from the Chamber Manufacturer. The standard Dimension Ratio (SDR) shall be 35. Cast iron frame and cover shall be of heavy duty design and able to withstand a AASHTO H-20 loading condition.

JOINTS

All joints and connections shall meet the requirements of ASTM D-3212. Material used for elastomeric seals shall meet the requirements of ASTM F 477 and designed for use in gravity low-head sewer applications. Lubricant suitable for this material may be used.

INSTALLATION

Installation shall be in accordance with ASTM D-2321 with soil type of obtaining a minimal compaction level of 90% standard proctor density. Maximum burial depth shall be 25'.