The 48” (1200 mm) HP (High Performance) Manhole was developed with performance, ease of maintenance, and cost-effectiveness in mind. It is lightweight for ease of installation and designed to meet the demands for structural performance. It is a perfect solution for installations where joint integrity, soil migration, and corrosion are concerns.

FEATURES:
- Provides watertight connections for a wide range of pipe connection types and sizes
- Watertight pipe connections installed at plant and ready for field connections
- Tested to meet H-20 traffic loading
- Long-service life, excellent abrasion and corrosion resistance
- Light weight structure constructed from ADS polypropylene pipe for easy installation
- Significant installed cost savings
- Easy access with mounted ladder options for systems and application that require inspections and maintenance
- All 48” (1200 mm) structure joints are air tested prior to shipment to ensure the best joint integrity
- Field adjustments include risers/trim downs/INSERTA TEE branches from 4”-24” (100-600 mm)
- Low profile options available. The use of a concrete collar is required to support live and dead loading
- 48” (1200 mm) HP Manholes can be built and modified easily to include weirs and other water control and quality devices
- Production facilities across the United States
- 48” (1200 mm) structures can be produced and shipped to jobsites as quickly as traditional materials
48” (1200 mm) HP MANHOLE SPECIFICATION

SCOPE
This specification describes the 48” (1200 mm) HP Manhole for use in underground stormwater applications.

JOINT PROPERTIES
48” (12 mm) HP Manhole bodies shall be made from an impact modified copolymer polypreylene meeting the material requirements of ASTM F2764.

The eccentric cone reducer shall be manufactured from polyethylene material meeting ASTM D3350 cell class 213320C.

Gaskets shall be made of material meeting the requirements of ASTM F477.

PERFORMANCE
Various pipe connections are available. Contact an ADS sales representative to obtain more information. Top cone and structure shall meet the loading requirements of AASHTO M306 when installed per manufacturer’s recommendations.

INSTALLATION
The maximum burial depth of the 48” (1200 mm) HP Manhole is 15’ (4.6 m) with the use of Class I compacted material as defined in ASTM D234. Contact ADS Engineering in Buford, GA for installation recommendations.

Excavate HP Manhole location to the depth required and provide a stone base. Stone base shall be a minimum of 6” (150 mm), however a thicker base may be required. A geotechnical engineer shall be contacted to determine adequate bedding specifications.

Set HP Manhole in place and level structure.

Connect storm pipe into HP Manhole. Contact ADS representative for different connection options.

Re-check HP Manhole depth, level and position.

The backfill material shall be crushed stone meeting the requirements of Class I material as defined in ASTM D2321. Bedding and backfill shall be well placed and compacted uniformly in accordance with ASTM D2321.

All HP Manholes are custom made to order as specified. The maximum depth is 15’ (4.6 m). Contact ADS Technical Services for burial depths greater than 15’ (4.6 m) or where groundwater will be encountered. The frame and grate/cover must be fully supported by a reinforced concrete collar as designed by others. The concrete collar must extend no less than 18” (450 mm) from the edge of the frame in all directions. The collar must bear on the surrounding stone and soil backfill and not on the structure.

For other installation considerations, such as migration of fines, ground water, and soft foundations, refer to ASTM D2321 guidelines.