

PolyPure® Natural PP Piping System Data Sheet



SAMPLE SPECIFICATION:

PolyPure® natural polypropylene systems provide excellent high purity performance and cost effective installation. PolyPure® systems are specified and installed with confidence for a variety of high purity applications including USP purified water, institutional laboratory, deionized water and RO water systems.

PolyPure® is fully pressure rated to 150psi across the entire size range and does not derate in larger diameters like competitive systems.

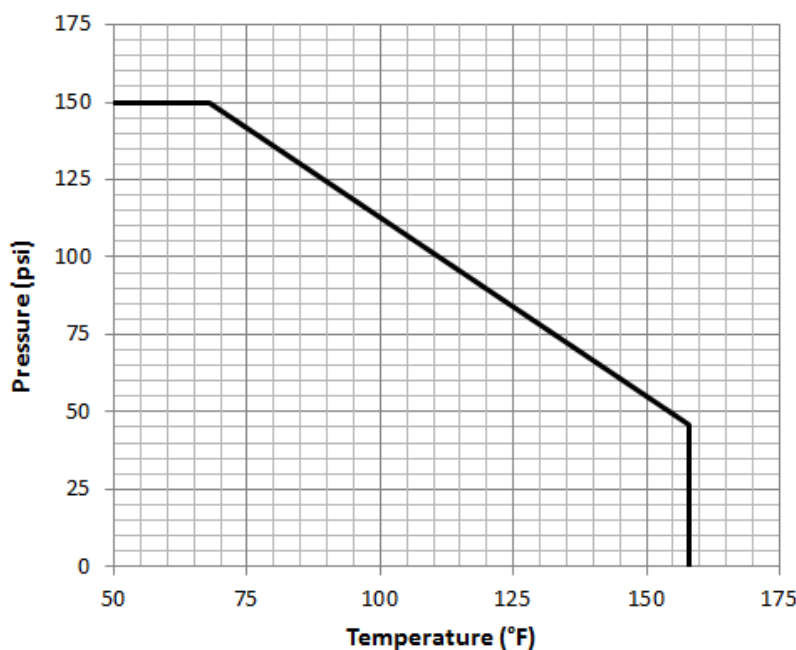
RESIN & MANUFACTURING:

The PolyPure® system uses a virgin, natural random copolymer polypropylene resin (PP-R) for its pipe, fittings and valves. PolyPure® pipe and fittings are made from resin which conforms to the requirements of USP Class VI.

PolyPure® components are extruded and molded in a clean area. Pipe receives end sleeves and caps, and an outer full bag. Fittings and valves are brought to AGRU'S Plant 5 for automated cleaning and single bagging.

Pipe sizes 20 - 32mm (1/2" - 1") are bagged in multiple lengths per bag.

PRESSURE RATING:



SUPPLY RANGE:

PIPE/FITTINGS: 1/2" - 4" (20 - 110mm), SDR 11, 150psi

VALVES:
T-342 diaphragm valves:
1/2" - 2" (20 - 63mm)
T-343 zero dead leg (ZDL) valves:
1/2" - 2" (20 - 63mm)
Ball valves:
1/2" - 2" (20 - 63mm)
3" and 4" valves:

Available in PP grey pigmented

SEALS/O-RINGS: Diaphragm valves and regulators:
EPDM or PTFE

PolyPure® Natural PP Piping System Accessories

V82/182 PRESSURE REGULATOR



Pressure Range: 7 - 150psi (1/2" - 2")
14 - 90psi (2-1/2", 3")
13 - 60psi (4")
Temperature: -4° F to 176° F
Min. Pressure Delta: 14psi

The V82/182 pressure regulator controls upstream pressure fluctuations to critical points of use. The regulator has no wetted metal components, includes an integral pressure gauge isolated from the media and can be adjusted in-line under pressure.

V86/186 PRESSURE REGULATOR



Pressure Range: 7 - 150psi (1/2" - 2")
Temperature: PVDF: -4° F to 248° F
PP: -4° F to 176° F
Min. Pressure Drop: 14psi

The V186 back pressure regulator maintains adequate upstream pressure as upstream pressure reduces from branch line cycling. The V186 may also be used as an inline pressure relief valve. The piston spring keeps the outlet closed until the set point pressure is achieved.

FAUCET DIVERTERS



Body Materials: Purad® PVDF: 3/4" - 2-1/2"
PolyPure®: 3/4" - 2-1/2"
End Connections: Metric (DIN) spigot standard, optional sanitary adapter
Tube Connection: 3/8" Flare, single or double faucet
Pressure Rating: 150psi at 68° F

The high purity faucet diverter features a CFD-optimized design that minimizes pressure loss while maximizing flow through the faucet. It contains no wetted metal components and creates a pressure differential to ensure proper recirculating flow to and from faucet(s). The diverter is manufactured from high-purity PVDF or natural polypropylene material and is shipped cleaned and bagged to maintain purity. It utilizes industry-standard tubing connections, and a single diverter can be configured to connect one or two faucets, providing a cost-saving option.

SP-110 V3.1 WELDING TOOL



Size Range: 20mm - 110mm (1/2" - 4")
Piping: Single and double wall
Materials: PP, PPn, PVDF, PE100-RC, Poly-Flo® (double wall), ECTFE, PFA (*by request only*)
Required Power: Transformer plug: 110V
Tool: 230V / 15A
Dimensions: 34" x 30" x 51"
Weight: 460 lbs.
Shipping Dimensions: 43" x 36" x 61"
Shipping Weight: 835 lbs.

The next generation of IR technology, the SP 110-S V3/V3.1 controls all equipment movements and parameters during each phase of the welding process (heating, change over, joining and cooling). The heating element and clamps are precisely controlled and moved by the welding equipment. This full automation eliminates operator influence during the fusion process and provides unmatched repeatability. *Available for purchase or rental.*

SP-63 V3 MOBILE WELDING TOOL



Size Range: 20mm - 63mm (1/2" - 2")
Piping & Materials: **See Welding Selection Chart**
Required Power*: Transformer plug: 110V / 15A
Tool: 230V / 15A
*Tool must be on a dedicated line with an uninterrupted power source
Dimensions: 22" x 15" x 13"
Weight: 75 lbs.
Shipping Dimensions: 48" x 40" x 37"
Shipping Weight: 500 lbs.

The SP 63-V3 Mobile is designed with ergonomic and safety features, optimized specifically for cleanroom environments. It is suitable for pipe rack installations, equipped with an integrated remote weld unit that supports both horizontal and vertical weld positions. Compatible with all AGRU piping systems, it can also accommodate PFA pipes and tubing upon request. The system allows for tie-in welds and utilizes computer-controlled welding processes for precision.