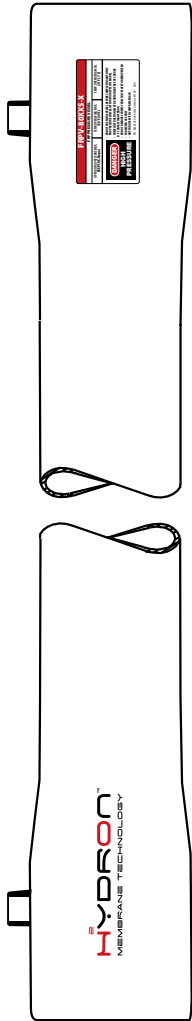




FRPV-80 - DATA SHEET
HYDRON 8" FRPV MEMBRANE HOUSING



FRPV-8030
OUTER DIAMETER

BODY: Ø8.27" + 0.12"
(210 mm + 3 mm)

HEAD: Ø9.49" + 0.07"
(241 mm + 2 mm)

FRPV-8060
OUTER DIAMETER

BODY: Ø8.58" + 0.12"
(218 mm + 3 mm)

HEAD: Ø9.96" + 0.07"
(253 mm + 2 mm)



⚠ CAUTION ⚠
INCORRECT INSTALLATION,
OPERATION AND MAINTENANCE
OF THESE VESSELS
MAY CAUSE LOSS OF LIFE,
SEVER BODILY INJURY, AND
OR PROPERTY DAMAGE.



HYDRON 8" FRPV Series Membrane Housings are durable composite reinforced membrane vessels designed for use in commercial, municipal and industrial Reverse Osmosis systems. Hydron FRPV vessels are coated with high gloss polyurethane paint to provide resistance to UV rays and other elements and are available in 300 psi and 600 psi ratings.

HYDRON 8" FRPV Series Membrane Housings can accommodate any standard 8" x 40" membrane elements, have a compact design and offer a reliable head seal area. Hydron FRPV membrane housings are made to meet the demands of long term and continuous use.

- **High Gloss Polyurethane Exterior Coating for resistance to UV rays and other elements.**
- **Compact design for commercial, municipal and industrial reverse osmosis and ultrafiltration applications.**
- **Accommodates all standard 8"x40" membrane elements.**
- **Manufactured to meet the demands of long term and continuous use.**
- **Locking plate with secure head bolts for easy maintenance, safety and security.**

INTENDED USE

Hydron FRPV Membrane Housings are designed for continuous, long-term use as a housing for single and multiple reverse osmosis and ultrafiltration elements in typical commercial water treatment systems at pressures from 300 psi - 600 psi.

Hydron FRPV Membrane Housings must be installed, operated and maintained in accordance with the listed precautions, and good industrial practice to assure safe operation over a long service life.

The high performance reinforced plastic shell must be allowed to expand under pressure; undue restraint at support points or piping connections can cause leaks to develop in the shell.

The end closure, incorporating close-fitting, interlocking metal components, must be kept dry and free of corrosion; deterioration can lead to catastrophic mechanical failure of the head assembly.

** Specifications subject to change without notice.*

| 8" FRPV Membrane Housing Specifications | | | | | | |
|---|--------------|----------------------------|-------------------------------|-------------------------------|------------|---------------|
| Elements | Part Number | Maximum Operating Pressure | Maximum Operating Temperature | Minimum Operating Temperature | Inlet Port | Permeate Port |
| 1 | FRPV-8030S-1 | 300 psi (21 bar) | 150° F (66° C) | 14° F (-10° C) | 1.5" | 1" |
| 2 | FRPV-8030S-2 | 300 psi (21 bar) | 150° F (66° C) | 14° F (-10° C) | 1.5" | 1" |
| 3 | FRPV-8030S-3 | 300 psi (21 bar) | 150° F (66° C) | 14° F (-10° C) | 1.5" | 1" |
| 1 | FRPV-8060S-1 | 600 psi (41 bar) | 150° F (66° C) | 14° F (-10° C) | 1.5" | 1" |
| 2 | FRPV-8060S-2 | 600 psi (41 bar) | 150° F (66° C) | 14° F (-10° C) | 1.5" | 1" |
| 3 | FRPV-8060S-3 | 600 psi (41 bar) | 150° F (66° C) | 14° F (-10° C) | 1.5" | 1" |

Note: Available from 1-6 elements.

PRECAUTIONS

DO... read, understand and follow all instructions; failure to take every precaution will void warranty and may result in vessel failure or serious injury or death. DO... inspect end closures regularly; replace components that have deteriorated and correct causes of corrosion. DO... provide overpressure protection for vessel set at not more than 105% of design pressure. DO... mount shell on horizontal or vertical members at central span "S" using compliant, vessel supports; tighten hold down straps just snug. DO NOT... pressurize vessel until double checking to verify that the Locking Plates are in place. DO NOT... work on any component until first verifying that pressure is relieved from vessel. DO NOT... tolerate leaks or allow end closures to be routinely wetted in any way. DO NOT... operate vessel with permeate pressure in excess of 125 psi at 120 °F (0.86 MPa at 49 °C). DO NOT... make rigid piping connections to parts or clamp vessel in any way that restricts growth of fiberglass shell under pressure; ▲DIA = 0.01 in. (0.25mm) and ▲L = 0.3 in. (.8mm) for a length code -1 vessel. DO NOT... hang piping manifolds from parts or use vessel in any way to support other components. DO NOT... operate at pH levels below 3 or above 11. DO NOT... operate vessel at pressures and temperatures in excess of its rating.

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