

# Diaphragm Direct® Bio-Pharma Diaphragms

## Grade E7 EPDM Diaphragm

Diaphragm Direct® Grade E7 EPDM diaphragm was developed specifically for critical applications of the Biopharmaceutical Industry. It has been developed and extensively tested at our in-house development laboratory and third-party tested at The BioProcess Institute.

**GRADE:** E7

**MATERIAL:** Ethylene Propylene Diene Monomer - (Peroxide Cured)

**SIZE:** ¼"–6" (DN6 - DN150)  
*Please consultant factory for availability.*

**TEMPERATURE RATING:**  
-40 to 110° C Liquid Media  
-30 to 150° C Max Steam Sterilization  
(max 180 minutes per cycle)

**REGULATORY COMPLIANCE:**

- FDA 21 CFR 177.2600
- USP Class VI, <87>, <88>
- ISO 10993-5, -6, -10, -11
- ASME BPE part SG
- Certified Animal Derived Ingredient Free EMEA /410/01 TFE/BSE
- Fully lot traceable to EN 10204 3.1

**KEY FEATURES INCLUDE:**

Improved resistance to steam, WFI and commonly used CIP chemicals, buffers, protein solutions and other products. Fabric reinforced to provide full support for the elastomer face and to increase flex performance. Peroxide cured for optimum cross linking performance and to minimize extractables and leachables. Reduces the need to re-torque and assures seal integrity. Enhanced surface finish integrity to assist process purity (ASME BPE compliant).

Successfully tested per the 100/500 SIP Study for Diaphragm Valve Diaphragms (ASME BPE Appendix J.1.2.1) 60 Minute SIP Cycle, as tested in The BioProcess Institute's BioProcess Performance Reports®. (BPPR®).





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### CONSTRUCTION:

- Grade E7 EPDM
- Organic Peroxide cured
- Excellent resistance to compression set
- Excellent mechanical and thermal properties
- Fabric reinforced to optimize flex

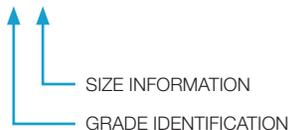
### DIAPHRAGM TRACEABILITY

All diaphragm materials and physical properties are batch traceable with permanent codes molded onto the diaphragm. Molded information includes: Manufacturing Date/Cure Date, material grade, and diaphragm size.

BACK



FACING



*All Grade E7 EPDM Diaphragms have High Performance Woven Fabric Reinforcement*

