



专业隔膜制造商

Professional manufacturer of diaphragm

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上海精众新材料科技有限公司

SHANGHAI JONZOO NEW MATERIAL TECHNOLOGY CO.,LTD



## “精众” 无菌隔膜 | JONZOO Abacterial Diaphragm

任何隔膜阀的关键性部件都是隔膜。这是因为隔膜既是动态部件，又要起密封作用，并且始终接触高价值工艺介质。在该领域精众通过持续开发核心专业技术，坚持本厂生产，向客户提供行业领先的隔膜满足最苛刻的工艺要求。

Diaphragm is the key component of any diaphragm valve because it features to move, seal and contact high-value process media as well. In the filed of diaphragm, Jingzhong, by continuous development of core professional technologies and persisting in in-house production, has been providing customers with industrially-leading diaphragm to satisfy various most demanding process requirements.



### 材质选择 | Material Selection

由于不同工况下将选用不同类型的阀门和材料，在选择阀体和隔膜之前，必须对每一个产品的运用进行分析，尤其针对化学医药方面的运用，和高温所导致的化学反应。通过有效的化学数据或专家认证，对材质的适宜性进行检测。以此确保产品的使用安全性和长期有效性。软性弹性材料制成的隔膜对于那些被纤维团，固体颗粒，催化物等污染的工作介质不会产生敏感反应，一般来说也不会影响到阀门的工作和密封。根据工作或消毒的温度，以及工作介质的化学特性可以选择不同的隔膜材料。



Different valves and materials should be selected for different operating conditions. Before selection of valve body and diaphragm, the proposed application of each product, especially the application in chemical and medical industry as well as the possible chemical reaction at elevated temperature must be analyzed thoroughly. Inspect each material's applicability based on effective chemical data or expert examination in order to ensure the safety and long-term serviceability of our products. In general, between the diaphragm which is made of flexible resilient materials and the process media which is polluted by fiber agglomerations, solid particles and catalytic substances, no allergic reactions will occur and as a result the no effect on valve seating and functioning. Different diaphragm materials should be selected based on the chemical properties of process media.



## 高温改性 PTFE 隔膜 | High-temo.Modified PTFE Diaphragm



精众高温改性 PTFE 隔膜在生物制药行业里的使用寿命和可靠性，比传统的 PTFE 得到显著改善。精众高温改性 PTFE 隔膜充分利用了聚合物技术和隔膜设计方面的核心能力，解决了小口径隔膜用于间歇性蒸汽杀毒时出现的问题。

Comparing to traditional PTFE, Jingzhong high-temperature modified PTFE diaphragms have proven durability and reliability in biopharmaceutical industry. By making good use of polymer technology plus our core capacity in diaphragm design as well, Jingzhong high-temperature modified PTFE diaphragms are useful to remove problems often occurred when using small-diameter diaphragms for intermittent steam sterilization.

1. 显著降低了传统的，用于生物制药中的 PTFE 冷流变形。
2. 用于蒸汽杀菌和纯净水介质下的性能大大改善。
3. 表面隔膜材料为高温改性 PTFE，靠背材料为 EPDM 橡胶，采用独特的模塑技术成型。
4. 明显改善阀过流能力，以确保效率。
5. 模塑在 EPDM 靠背隔膜里的加强筋通过引导关闭负荷到阀堰区域，帮助隔膜在苛刻的操作条件下关闭，最大程度地降低了永久变形和压缩变形，减小了有效关闭所需的压力。
6. 完全符合质量管理体系诸如 FDA, USP 和 ISO 等指定的所有毒性与纯度国际标准，并经独立的实验室测试确认。

### PTFE / EPDM 双层膜片指标：

执行标准：FDA21CFR177.1550

工作温度：-20℃ ~ 150℃

工作压力：Max. 0.6MPa

设计寿命：> 1,000,000 次 / 25℃

隔膜材料：新型改性 PTFE

隔膜规格：DN8-DN200

1. Significantly reducing the old flow deformation of traditional PTFE used in the Biopharmaceutical application.
2. Greatly improved it is property in steam sterilization and pure water medium application.
3. High-temperature modified PTFE surface diaphragm material and EPDM rubber backing material is formed together with unique molding technology.
4. Significantly improved valve's carrying capacity and therefore ensures high efficiency.
5. The reinforcing rib as molded in EPDM backing diaphragm is designed to guide load to valve weir so as to ensure the diaphragm may be closed even under rigorous conditions. reduce permanent deformation and compressive deformation to minimum and reduce the pressure as required for closing the diaphragm.
6. In full compliance with all toxicity and purity-related international standards as specified by such quality management systems as FDA, USP and ISO; tested and validated by independent laboratories.

## 改性 EPDM 隔膜 | Modified EPDM Diaphragm



在制药行业中乙烯丙烯生成的弹性体是最常用的隔膜材料。精众改性 EPDM 隔膜在生物制药环境中最苛刻的应用条件下具备优良的性能。

Ethylene-propylene elastomers are usually used as the diaphragm in pharmaceutical industry. The excellent performances of Jingzhong modified EPDM diaphragms were proven in the most demanding applications in biopharmaceutical environment.

1. 由具有内在稳定性的 EPDM 制造而成。
2. 使用了最新的硫化技术。
3. 具有优良的耐温度和化学腐蚀性能。
4. 提高了用于蒸气时的使用寿命和弯曲次数。
5. 隔膜使用寿命更加持久，提高了可靠性，减少了对生物制药过程的破坏。
6. 完全符合质量管理体系诸如 FDA，USP 和 ISO 等指定的所有毒性与纯度国际标准，并经独立的实验室测试确认。

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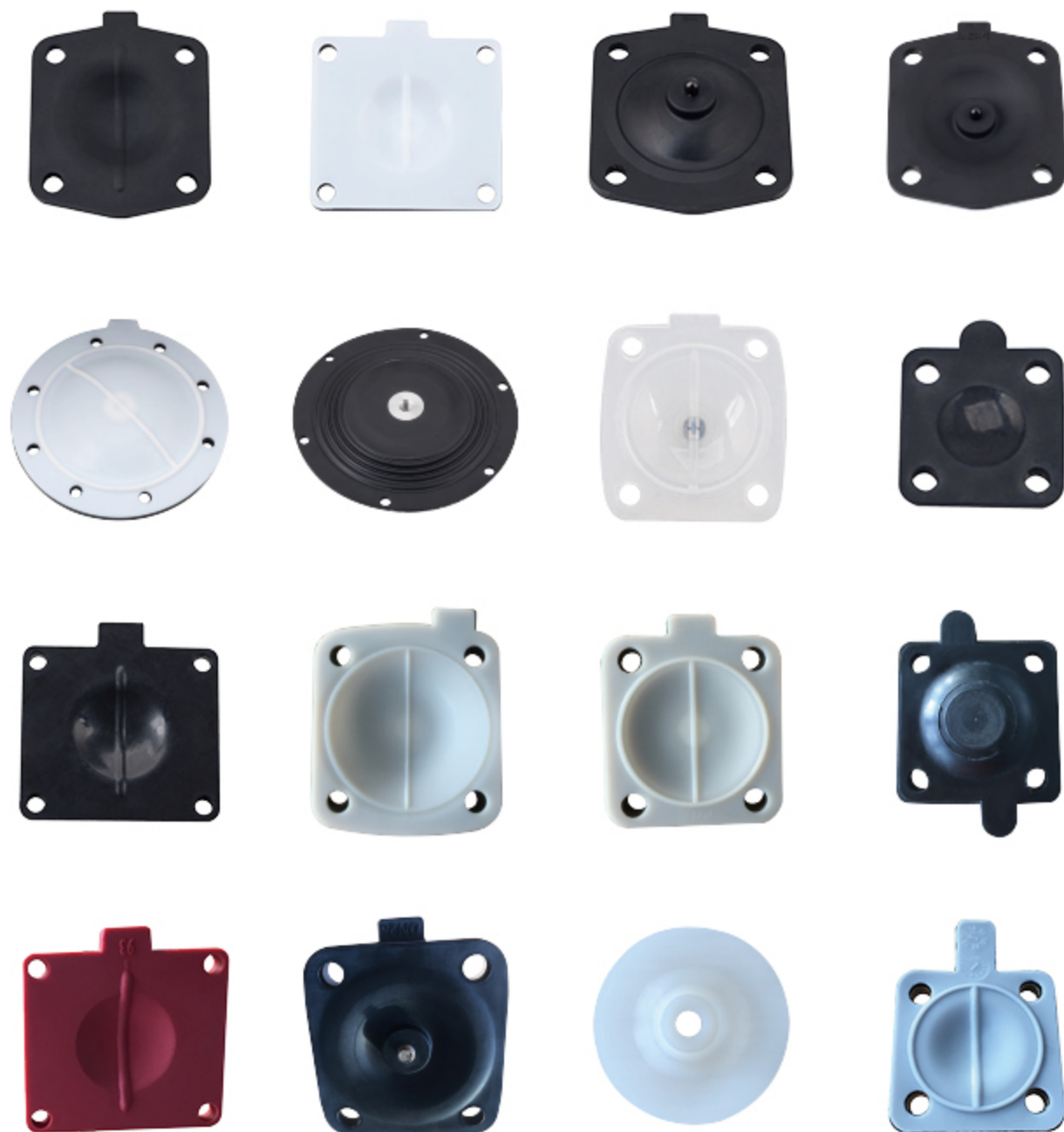
1. The EPDM for producing diaphragm has intrinsic stability.
2. State-of-art sulfuration technology.
3. Superior temperature tolerance and chemical resistance.
4. Prolonged service life and bending cycles in steam application.
5. The reinforcing rib as molded in EPDM backing diaphragm is designed to guide load to valve weir so as to ensure the diaphragm may be closed even under rigorous conditons. reduce permanent deformation and compressive deformation to minimum and reduce the pressure as required for closing the diaphragm.
6. In fully complianca with all toxicity and purity-related international standards as specified by such quality management systems as FDA, USP and ISO; tested and validated by independent laboratories.

## 隔膜阀膜片尺寸表 | Schedule of Diaphragm of Valvws

隔膜阀膜片尺寸一览表  
Schedule of Diaphragm for Valves

膜片简图 Diaphragm Schematics	直径 Diameter	A × B	∅ D	材质	工作压力	工作温度	螺丝尺寸
	DN15	35.5 × 34.5 39 × 44	4 × ∅ 7 4 × ∅ 5	EPDM PTFE/EPDM	Max.6bar	Max.130℃ Max.150℃	M4/ 皮卡 / 卡口
	DN20-25	54 × 46	4 × ∅ 9	EPDM PTFE/EPDM	Max.6bar	Max.130℃ Max.150℃	M5/M6/ 皮卡 / 卡口
	DN32-40	70 × 65	4 × ∅ 11	EPDM PTFE/EPDM	Max.6bar	Max.130℃ Max.150℃	M6
	DN50	82 × 78	4 × ∅ 12	EPDM PTFE/EPDM	Max.6bar	Max.130℃ Max.150℃	M6
	DN65	101 × 95	4 × ∅ 14	EPDM	Max.6bar	Max.130℃	M6/M8
	DN80	125 × 114	4 × ∅ 18	EPDM	Max.6bar	Max.130℃	M8
	DN100	230 × 195	8 × ∅ 13	EPDM	Max.6bar	Max.130℃	M8
	DN125	298 × 265	8 × ∅ 18	EPDM	Max.8bar	Max.130℃	M8
	DN150	320 × 290	8 × ∅ 18	EPDM	Max.8bar	Max.130℃	M10
	DN200	429 × 348	8 × ∅ 22	EPDM	Max.10bar	Max.130℃	M10h

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