

中国·齐力控股集团
CHINA·QILI HOLDING GROUP



**PROFESSIONAL MANUFACTURER OF
SANITARY FLUID VALVE & PIPE FITTING SOLUTIONS**

高洁净流体设备阀门及管道连接部件
解决方案一站式专业制造商

卫生级隔膜阀系列
SANITARY DIAPHRAGM VALVE SERIES

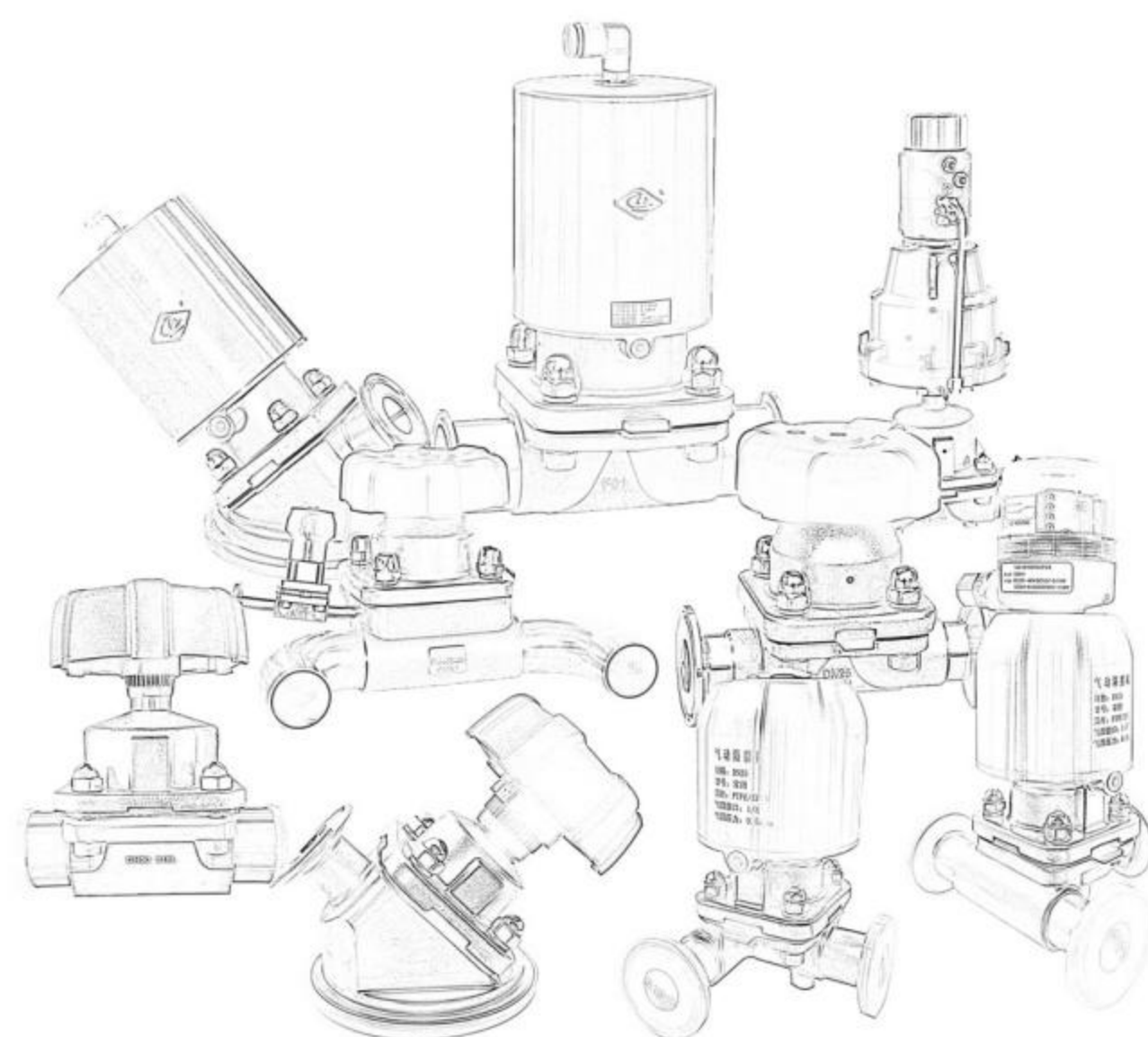


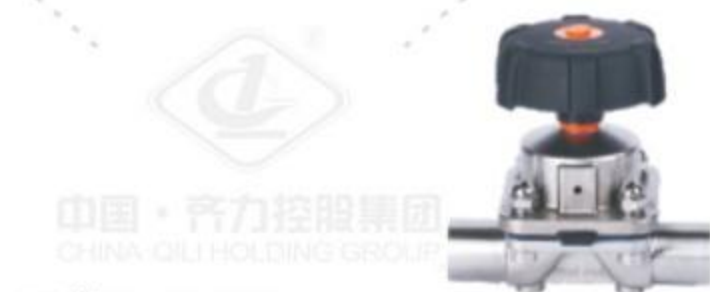
B

卫生级隔膜阀系列 B

Sanitary diaphragm valve series

卫生级隔膜阀系列





隔膜阀DN8-100

No.QL-001

型号	GEMÜ 601	GEMÜ 602	GEMÜ 612	GEMÜ 673	GEMÜ 673P9
驱动类型	手动	手动	手动	手动	手动
执行机构	不锈钢执行器顶部, 塑料手轮, 带可视位置指示器和关闭限位	不锈钢执行器顶部, 塑料手轮, 带可视位置指示器和关闭限位	不锈钢执行器顶部, 塑料手轮, 带可视位置指示器和关闭限位	不锈钢执行器顶部, 塑料手轮, 带可视位置指示器和关闭限位	不锈钢执行器顶部, 塑料手轮, 带可视位置指示器和关闭限位, 特殊密封件向外突出
DN	4-15	4-15	10-20	15-50	40-50
可耐受高压灭菌	•	•	•	•	•
工作温度*	-10-150°C	-10-150°C	-10-150°C	-10-150°C	-10-150°C
工作压力*	0-10bar	0-10bar	0-10bar	0-10bar	0-10bar
电压	-	-	-	-	-
MG 8	•	•	•	•	•
MG 10	•	•	•	•	•
MG 25	•	•	•	•	•
MG 40	•	•	•	•	•
MG 50	•	•	•	•	•
MG 80	•	•	•	•	•
MG 100	•	•	•	•	•

型号	GEMÜ 653	GEMÜ 654	GEMÜ 611	GEMÜ 671	GEMÜ 618	GEMÜ 648	GEMÜ 698
驱动类型	手动	手动	手动	手动	电动	电动	电动
执行机构	不锈钢执行器顶部, 塑料手轮, 带可视位置指示器、行程开关限位, 可锁定, 可安装位置指示器	不锈钢执行器顶部, 塑料手轮, 带可视位置指示器、行程开关限位, 可锁定, 可安装位置指示器	塑料执行器顶部, 塑料手轮, 带可视位置指示器, 可关闭	塑料执行器顶部, 塑料手轮, 带可视位置指示器, 可选配位置指示器, 可关闭	塑料执行器顶部, 带/不带不锈钢压块, 带可视位置指示器	塑料执行器顶部, 带/不带不锈钢压块, 带可视位置指示器	塑料执行器顶部, 带/不带不锈钢压块, 带可视位置指示器和手动紧急操作装置
DN	10-100	4-100	10-20	15-100	4-15	15-100	15-50
可耐受高压灭菌	•	•	•	•	•	•	•
工作温度*	-10-150°C	-10-150°C	-10-80°C	-10-80°C	0-130°C (不带压块150-50°C)	0-150°C	0-150°C
工作压力*	0-10bar	0-10bar	0-10bar	0-10bar	0-10bar	0-10bar	0-10bar
电压	-	-	-	-	24VAC, 120VAC, 230VAC, 50/60Hz	24VDC, 120VAC, 230VAC, 50/60Hz	24VAC, 120VAC, 230VAC, 50/60Hz
MG 8	•	•	•	•	•	•	•
MG 10	•	•	•	•	•	•	•
MG 25	•	•	•	•	•	•	•
MG 40	•	•	•	•	•	•	•
MG 50	•	•	•	•	•	•	•
MG 80	•	•	•	•	•	•	•
MG 100	•	•	•	•	•	•	•

取决于膜片材质, 参见技术数据页



两位两通阀门
精密铸造
直通结构, 适用于所有的
国际标准的对焊接口



两位两通阀门
铸造结构
直通结构, 适用于所有
的国际标准的对焊接口



隔膜取样



T型阀门
例如用于无死区的
环形管道



用于不锈钢
容器和罐



多通道阀体
视用途而定



新一代隔膜阀

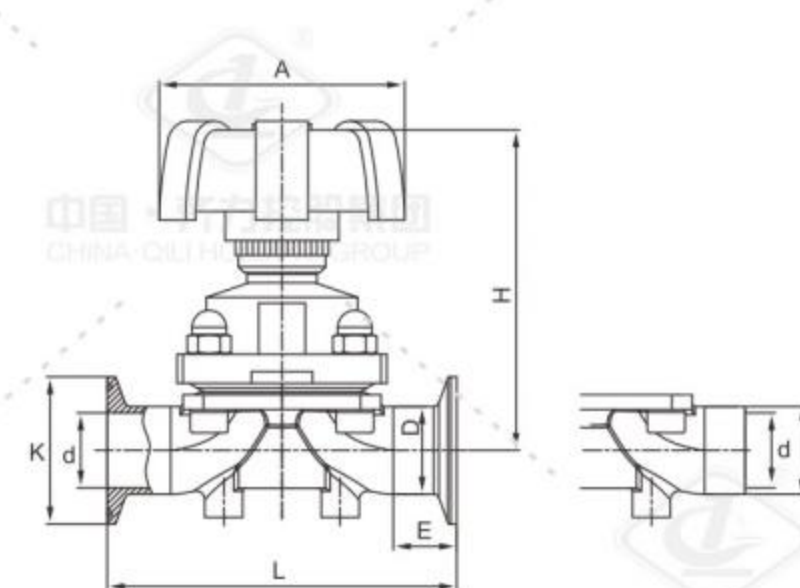
齐力公司在2021年对所有的隔膜阀进行了全面的技术升级, 升级后的设计更符合GMP/ASMEBPE, EHEDG以及3A的高洁净技术要求。

工作原理

手动或气动操作, 专门应用于制药工业中的卫生和无菌过程。该阀门非常适用于流体控制, 开关的任务, 膜片提供阀体密封和阀座密封。里面没有路径通到外部环境, 所以该阀门适用于无菌过程。当阀门关闭时, 支撑膜片的压力垫朝向阀体上的密封面移动, 当压力板移动时, 膜片弯曲, 被迫推向阀体中心的阀座区域, 因此关闭了通向阀体的流体路径, 阀体和压力板的相互关系, 防止了膜的挤压。

技术参数

规格: 1/2"~2.5"; DN15-DN65
压力: 10bar (145PSI)
材质: 316L (CF3M)
温度: -20°C~150°C
连接: 卡箍, 焊接, 螺纹, 3A, BPM, DIN, SMS, IDF, ISO
阀体结构: 直通、三通、U型三通、罐底阀、多通道隔膜阀
膜片材料: EPDM+PTFE (双层) EPDM/Silicon/FPM (Viton)
认证: 3A-54-02/1580



New generation diaphragm valve
In 2021, Qili has carried out a comprehensive technical upgrade for all diaphragm valves. The upgraded design is more in line with the high clean technology requirements of GMP, ASMEBPE, EHEDG and 3A.

working principle

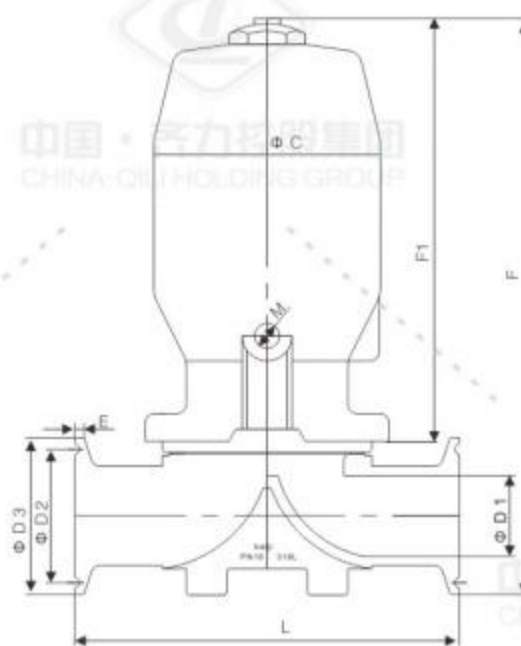
Manual or pneumatic operation, dedicated to hygienic and aseptic processes in the pharmaceutical industry. The valve is well suited for fluid control and switching tasks, the diaphragm provides body and seat sealing. There is no path inside to the outside environment, so the valve is suitable for aseptic processes. When the valve is closed, the pressure pad supporting the diaphragm moves towards the sealing surface on the valve body. When the pressure plate moves, the diaphragm flexes and is forced to push. The seat area towards the center of the valve body, thus closing off the fluid path to the valve body, the mutual relationship of the valve body and the pressure plate, prevents extrusion of the diaphragm.

Technical Parameters

Size: 1/2"~2.5"; DN15-DN65
Pressure: 10bar (145PSI)
Material: 316L (CF3M)
Applicable temperature: -20°C~150°C
Connection method: Clamp welding thread 3A BPE DIN SMS IDF ISO
Valve body structure: 2 way, 3way, U-type 3way, tank bottom valve, Multi way diaphragm valve.
Diaphragm material: EPDM+PTFE (double deck) EPDM/Silicon/FPM (Viton)
Certification: 3A-54-02/1580

No.QL-002

NPS	DN	L	A	Kxd		H开/H关	D	E
				快装 Clamp	焊接 Welding			
1/2"	DN15	117	33	25x9.4	12.7x9.4	92/87	12.7	38
3/4"	DN20	117	58	25x15.8	19.1x15.8	85/79	19.1	26
1"	DN25	127	90	50.5x22.1	25.4x22.1	102/91	25.4	26
1 1/4"	DN32	159	90	50.5x28.5	31.8x28.5	108/97	31.8	45.5
1 1/2"	DN40	159	114	50.5x34.8	38.1x34.8	122/110	38.1	33
2"	DN50	190	140	64x47.5	50.8x47.5	138/126	50.8	38
2 1/2"	DN65	216	140	77.5x60.2	63.5x60.2	142/130	63.5	54

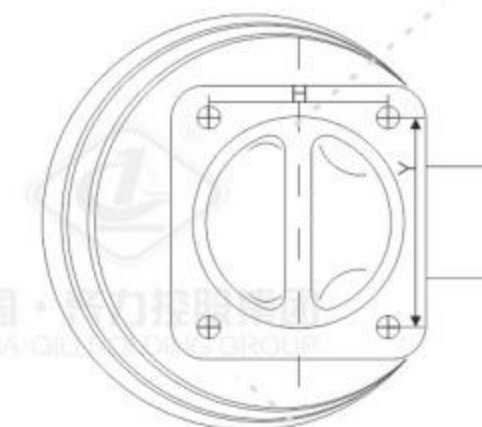
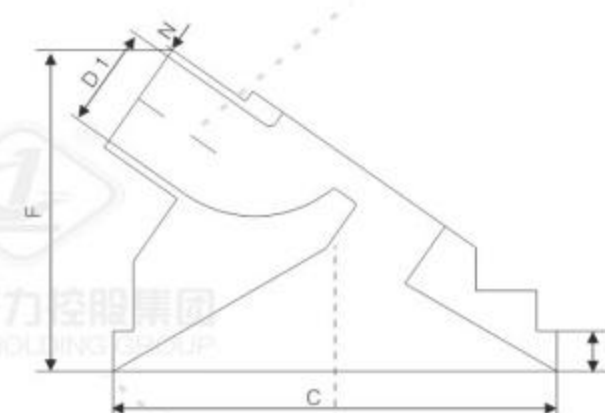


隔膜阀适用于制药、生物、乳品、饮料、化工、化妆品、食品、电子等流体相关行业的流体控制系统。其优点在于使用无死角、无泄漏、易清洗、维护成本低、易操作等多项优点。可实现自控与手控，为降低企业运行成本提供良好的产品。45度安装时具有排放干净；阀内无泄漏风险；抗腐蚀性能高；粘度较高的物料容易通过可替代球阀、蝶阀对洁净度要求高的产品。

Diaphragm valves are suitable for fluid control systems in fluid-related industries such as pharmaceuticals, biology, dairy products, beverages, chemicals, cosmetics, food, and electronics. Its advantage lies in the use of no dead angle, no leakage, easy cleaning, low maintenance cost, easy operation and many other advantages. It can realize automatic control and manual control, and provide good products to reduce the operating cost of enterprises. It has clean discharge when installed at 45 degrees; there is no risk of leakage in the valve; high corrosion resistance; materials with high viscosity can easily pass through alternative ball valves and butterfly valves for cleanliness. Products with high requirements

No.QL-003

规格	L	F	F1	D1	C	D3
DN8	72	98	75	8	41	25.2
DN10	72	98	75	10	41	25.2
DN15	106	140	140	13	51	25.2
DN20	125	174	174	16	72	50.5
DN25	126	174	174	22	72	50.5
DN32	161	224	224	29	92	50.5
DN40	162	224	224	35	92	50.5
DN50	196	254	254	49	112	64
DN65	220	278	278	59	138	77.5
DN70	256	380	380	72	190	91
DN80	256	395	395	85	190	106
DN100	350	450	450	98	250	119
DN125	350	460	460	125	250	155

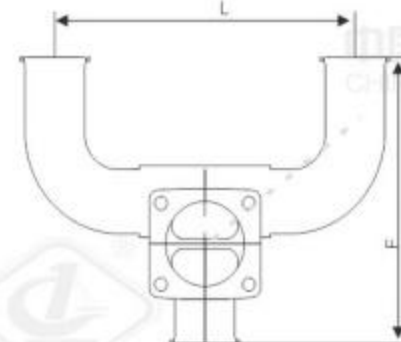
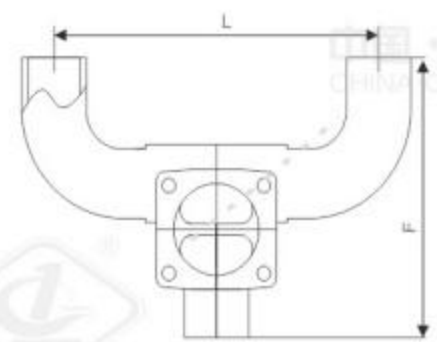


罐底阀应用于生物制药，食品，精细化工等行业的配料容器放料使用，该阀结构在搅拌器开启时，底部物料能充分随水流搅拌均匀，与设备连接分为焊接式，法兰式两种。
安装使用45度出料可使容器内物料排放干净，满足GMP要求，是管道卫生级洁净阀门。

The tank bottom valve is used in the batching container discharge of biopharmaceutical, food, fine chemical and other industries. When the agitator is turned on, the bottom material can be fully stirred evenly with the water flow. The connection with the equipment is divided into welding type and flange type. two kinds.
The installation and use of 45-degree discharge can make the material in the container discharge cleanly, which meets the requirements of GMP. It is a sanitary clean valve for pipelines.

No.QL-004

规格	C	F	D1	N	D3
DN15	70	40	13	1.5	25.2
DN20	105	64	16	1.5	50.5
DN25	105	64	22	1.5	50.5
DN32	140	85	29	1.5	50.5
DN40	140	85	35	1.5	50.5
DN50	160	94	49	1.5	64
DN65	200	110	59	2	77.5
DN70	238	120	72	2	91
DN80	238	120	85	2	106



U型一体式隔膜阀按生产工艺在管道上进行采样及做用水点使用，符合GPM要求，阀门安装在环形管道上使用，保证其用水点做到无死角。密封材料采用进口PTFE材料作为隔膜片，符合洁净要求。阀门采用限位装置保证其关闭时不会因用力过大损坏膜片。是目前生物制药厂广泛使用的阀门。

The U-shaped integrated diaphragm valve is used for sampling on the pipeline and as a water point according to the production process, which meets the requirements of GPM. The valve is installed on the circular pipeline to ensure that the water point has no dead angle. The sealing material adopts imported PTFE material as the diaphragm, which meets the cleanliness requirements. The valve adopts a limit device to ensure that the diaphragm will not be damaged due to excessive force when it is closed. It is a valve widely used in biopharmaceutical factories at present.

No. QL-005

规格	L	F	规格	L	F
Φ12.7x12.7	定制	定制	Φ32x25.4	163	149
Φ19x12.7	定制	定制	Φ38x25.4	181	164
Φ25.4x12.7	定制	定制	Φ50.8x25.4	246	193
Φ38x12.7	定制	定制	Φ32x32	188	172
Φ19x19	定制	定制	Φ38x32	207	210
Φ25.4x19	135	119	Φ50.8x32	265	214
Φ32x19	138	130	Φ38x38	207	210
Φ38x19	156	142	Φ50.8x38	265	214
Φ50.8x19	183	183	Φ50.8x50.8	283	239
Φ63.5x19	195	195	Φ63x63	315	280
Φ25.4x25.4	160	142	Φ76x63	325	285

No. QL-006

规格	L	F	规格	L	F
Φ12.7x12.7	定制	定制	Φ32x25.4	163	170
Φ19x12.7	定制	定制	Φ38x25.4	181	185
Φ25.4x12.7	定制	定制	Φ50.8x25.4	246	214
Φ38x12.7	定制	定制	Φ32x32	188	193
Φ19x19	定制	定制	Φ38x32	207	231
Φ25.4x19	135	140	Φ50.8x32	265	235
Φ32x19	138	151	Φ38x38	207	231
Φ38x19	156	163	Φ50.8x38	265	235
Φ50.8x19	183	204	Φ50.8x50.8	283	260
Φ63.5x19	195	249	Φ63x63	315	300
Φ25.4x25.4	160	163	Φ76x63	325	310



PTFE(+EPDM支持片)双层隔膜片是国际上使用于卫生隔膜阀门上的高标准隔膜片形式，是满足频繁使用SIP灭菌的生产工艺最可靠产品。广泛用于血液制品、疫苗、生物制药、大/小容量注射剂、无菌生产、发酵、注射用水供应及分配回路上等领域。

双层隔膜片配的EPDM支持片，除了起着保护与产品接触的PTFE片的作用外，还能加强PTFE片的密封效果。PTFE隔膜片配上EPDM支持片一起使用，其可靠性及使用寿命都达到最佳水平。

由具有改性的三元乙丙橡胶制造而成聚答物材料用高强度织造材料粘合以确保最大的强度和耐久性，使用了最新的硫化技术，提高了使用寿命更加长久，提高了可靠性。

Made of modified EPDM rubber, the polymer material is bonded with high strength woven materials to ensure maximum strength and durability. The latest vulcanization technology is used to improve the service life and reliability.

PTFE (+EPDM support sheet) double-layer diaphragm is a high-standard diaphragm form used internationally on sanitary diaphragm valves. It is the most reliable product that meets the production process of frequent use of SIP sterilization; it is widely used in blood products, vaccines, biological Pharmaceuticals, large/small volume injections, aseptic production, fermentation, water for injection supply and distribution circuits, etc.

The EPDM supporting sheet of the double-layer diaphragm can not only protect the PTFE sheet in contact with the product, but also strengthen the sealing effect of the PTFE sheet. The PTFE diaphragm is used together with the EPDM support sheet, and its reliability and service life have reached the best level.

性能特点:

- 优异的耐蠕变和耐压性能
- 优异的热机械性能
- 优异的弯曲寿命
- 结构严密，无气孔
- 表面光滑不残留
- 突出的使用寿命

Property features:

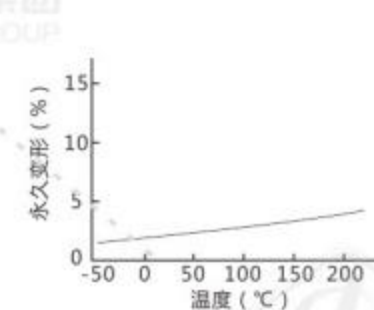
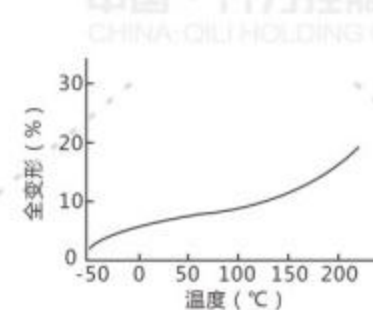
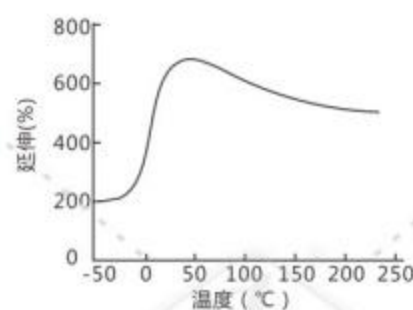
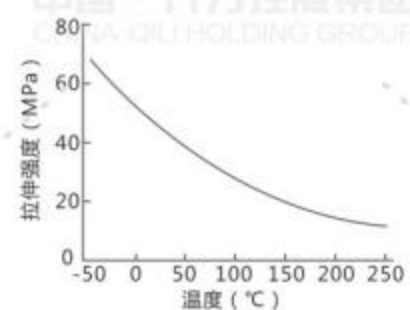
- Good anti-creep and pressure-resistant property
- Good thermal mechanical property
- Good flexing lifetime
- Tight structure, without air hole
- Smooth surface without residues
- Durable service lifetime

指标:

- 执行标准: FDA21CFR177.2600
- 工作温度: -120°C~150°C
- 工作压力: Max.0.6Mpa
- 设计寿命: 300,000次times/25°C
- 隔膜材料: PTFE
- 隔膜规格: DN8-DN125

Index:

- Executive standard: FDA21CFR177.26
- Working temperature: -120°C~150°C
- Working pressure: Max.0.6Mpa
- Designed lifetime: >300,000次times/25°C
- Diaphragm material: new type : PTFE
- Diaphragm specification : DN8-DN125



隔膜片尺寸表/Diaphragm size table

No.QL-007

规格	H x Y	H1 x Y1	M	K
DN6	21x21	35x35	9.5	5
DN8	21x21	35x35	9.5	5
DN10	21x21	35x35	9.5	5
DN15	34x40	51x48	M4	6
DN20	55x46	74x68	M6	9
DN25	55x46	74x68	M6	9
DN32	70x65	102x90	M6	11
DN40	70x65	102x90	M6	11
DN50	75x84	112x105	M6	13
DN65	108x95	134x126	M8	15
DN70	126x114	185x156	M8	15
DN80	126x114	185x156	M8	15
DN100	194x8	135	M8	15
DN125	194x8	135	M8	15

隔膜阀单头消毒:

规格: 1/2"-4", DN10-DN100
温度: -20°C到150°C
压力: 10-bar
材质: 316L
比其他的阀门更小更轻
操纵扭矩小

Diaphragm Valve Single Head Disinfection:

Specifications: 1/2"-4", DN10-DN100
Temperature: -20°C to 150°C
Pressure: 10-bar
Material: 316L
The smaller lighter than the other valves
Operating torque is small

隔膜阀双头消毒:

规格: 1/2"-4", DN10-DN100
温度: -20°C到150°C
压力: 10-bar
材质: 316L
比其他的阀门更小更轻
操纵扭矩小

Double Headed Disinfection Of Diaphragm Valve:

Specifications: 1/2"-4", DN10-DN100
Temperature: -20°C to 150°C
Pressure: 10-bar
Material: 316L
The smaller lighter than the other valves
Operating torque is small

三通法兰式隔膜阀:

规格: 1/2"-4", DN10-DN100
温度: -20°C到150°C
压力: 10-bar
材质: 316L
比其他的阀门更小更轻
操纵扭矩小

Three Way Flange Type Diaphragm Valve:

Specifications: 1/2"-4", DN10-DN100
Temperature: -20°C to 150°C
Pressure: 10-bar
Material: 316L
The smaller lighter than the other valves
Operating torque is small



B

普通隔膜阀

Common diaphragm valve



B

卫生级隔膜阀系列
Sanitary diaphragm valve series

隔膜阀是一种用途广泛的隔膜产品,适用于制药、生物、乳品、饮料、化工、化妆品、食品、电子等流体相关行业的流体控制系统。其优点在于使用无死角、无泄漏、易清洗、维护成本低、易操作等多项优点。可实现自控与手控,为降低企业运行成本提供良好的产品。35度安装时具有排放干净;阀内无泄漏风险;抗腐蚀性能高;粘度较高的物料容易通过可替代球阀、蝶阀对洁净度要求高的产品。

Diaphragm valve is a diaphragm product with a wide range of uses, suitable for fluid control systems in pharmaceutical, biological, dairy, beverage, chemical, cosmetic, food, electronics and other fluid-related industries. Its advantage lies in the use of no dead angle, no leakage, easy cleaning, low maintenance cost, easy operation and many other advantages. It can realize automatic control and manual control to reduce the operating cost of enterprises. It has clean discharge when installed at 35 degrees; there is no risk of leakage in the valve; high corrosion resistance; materials with high viscosity can easily pass through so that it can replace products that require high cleanliness like ball valves and butterfly valves.

规格	DN	D	L
DN15	16	50.5	110
DN20	20	50.5	118
DN25	24	50.5	133
DN32	31	50.5	151
DN40	36	50.5	164
DN50	49	64	194
DN65	60	77.5	207
DN70	72	91	237
DN80	85	106	270
DN100	98	119	303

No.QL-008

中国·齐力控股集团有限公司
CHINA·QILI HOLDING GROUP CO., LTD.

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ANHUI QILI STAINLESS STEEL PRODUCTS CO., LTD.

安徽齐力金属制品有限公司
ANHUI QILI METAL PRODUCTS CO., LTD.

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