



PS50
Air Drive Diaphragm Pump
气动隔膜泵

Quality Control System ISO9001 Certified
ISO9001 质量控制体系认证
Environmental Management System ISO14001 Certified
ISO14001 环境管理体系认证

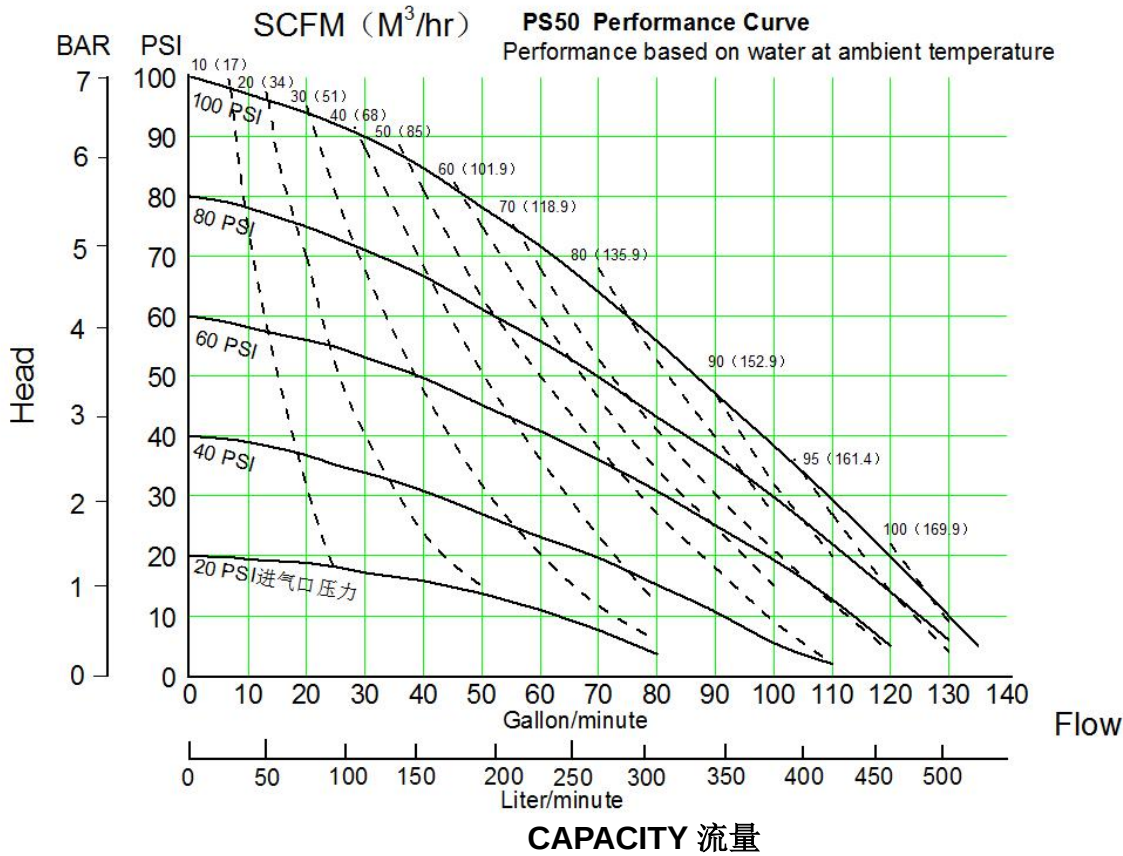
Explanation of Pump Nomenclature 泵的术语解释

PS50 Air Drive Diaphragm Pump PS50 气动隔膜泵

MODEL 型号	SIZE(DN) 口径	HOUSING MATERIAL 外腔体材质	INTERMEDIATE MATERIAL 中间体材质	DIAPHRAGM MATERIAL 膜片材质	VALVE SEAT MATERIAL 阀座材质	VALVE BALL MATERIAL 阀球材质	OTHER 其他
PS50 PP-AT-T/S-PP-TT-0F	50	PP	AT	T/S	PP	TT	0F
PS50 PP-AT-SP-PP-SP-0F	50	PP	AT	SP	PP	SP	0F
PS50 PP-AT-SP-PP-TT-0F	50	PP	AT	SP	PP	TT	0F
PS50 KY-AT-T/S-KY-TT-0F	50	KY	AT	T/S	KY	TT	0F
PS50 KY-AT-SP-KY-SP-0F	50	KY	AT	SP	KY	SP	0F
*We welcome OEM also.							

SIZE(DN) 口径	HOUSING MATERIAL 外腔体材质	DIAPHRAGM MATERIAL 膜片材质	INTERMEDIATE MATERIAL 中间体材质
50=2"	PP= Polypropylene 聚丙烯 KY= PVDF 聚偏二氟乙烯	SP= santoprene 三道橡胶 T/S= teflon/santoprene 特氟龙/三道橡胶 NE= neoprene 氯丁橡胶 BN= NBR 丁腈橡胶 VT= fluororubber 氟橡胶	PP= Polypropylene 聚丙烯 AT= aluminium alloy 铝合金 (teflon coating)特氟龙涂层
	VALVE SEAT MATERIAL 阀座材质	VALVE BALL MATERIAL 阀球材质	OTHER 其他
	PP= Polypropylene 聚丙烯 KY= PVDF 聚偏二氟乙烯	SP= santoprene 三道橡胶 NE= neoprene 氯丁橡胶 TT= teflon 特氟龙 BN= NBR 丁腈橡胶 VT= fluororubber 氟橡胶	00=BSPT connection BSPT 内螺纹接口 01=NPT connection NPT 内螺纹接口 0F=Flange connection 法兰接口

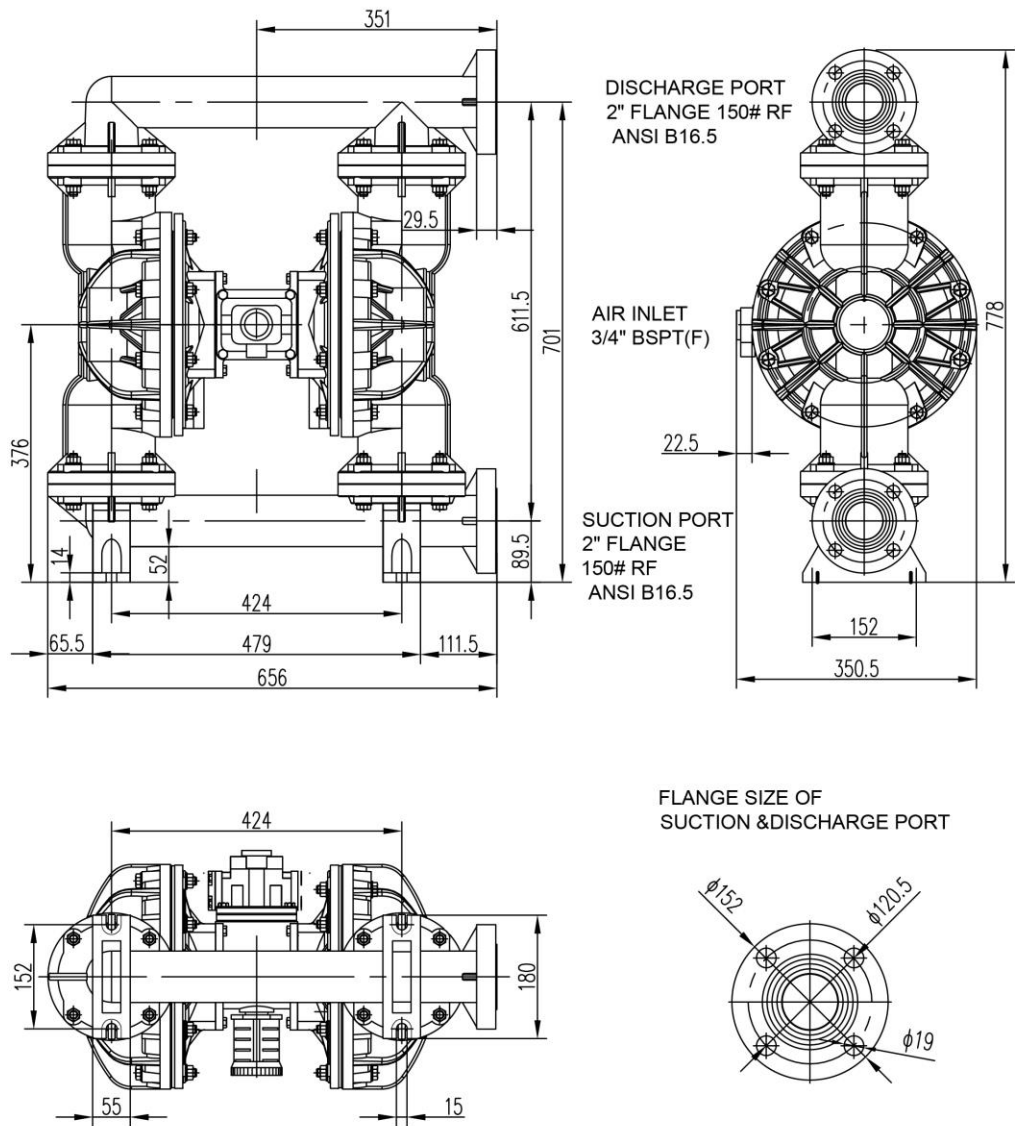
Engineering, Performance & Construction Data 性能曲线



Skylink Pumps are Designed to be Powered Only by Compressed Air

SUCTION/DISCHARGE 进出口	CAPACITY 流量	AIR VALVE 气阀	SOLIDS-HANDLING 输送最大颗粒	HEADS UP TO 最大工作流体压力	DISPLACEMENT 单次循环排量	WEIGHT(kg) 重量	
2" flange 2 寸法兰	511 lpm (max) 511 升/分钟 (最大)	No-lube, no-stall 无油润滑, 无死点	3/8" / 9mm (max) 3 分/9 毫米	100 psi / 6.9bar of water 100PSI/6.9bar 水压	0.43gallon / 1.63 liter 0.43 加仑/1.63 升	41(PP) PP 泵 41 公斤	56(PVDF) PVDF 泵 56 公斤

Dimension 尺寸图



Flange Connection 法兰接口

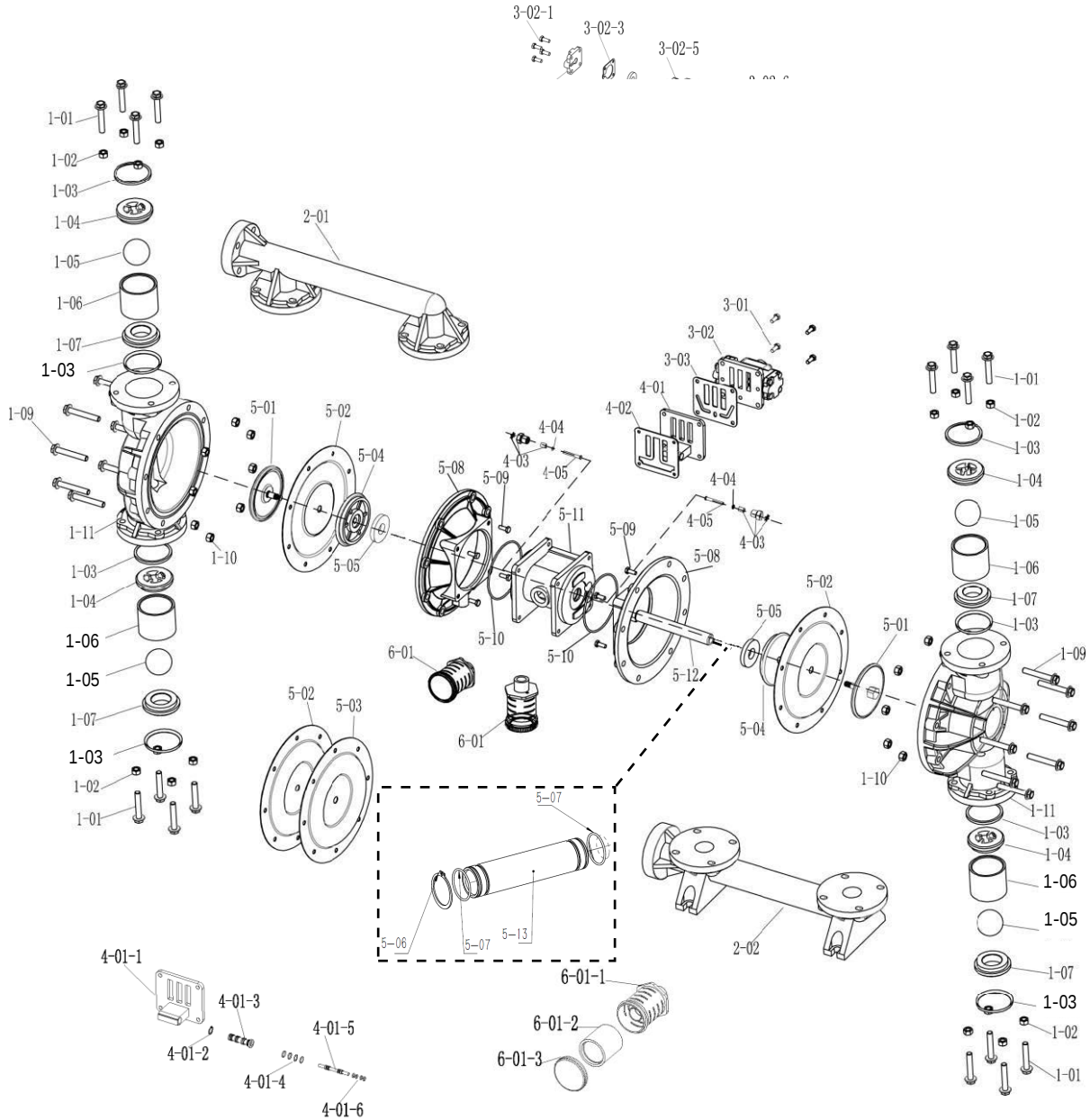


CAUTION! 警告!

Operating temperature limitations are as follows 极限工作温度如下:

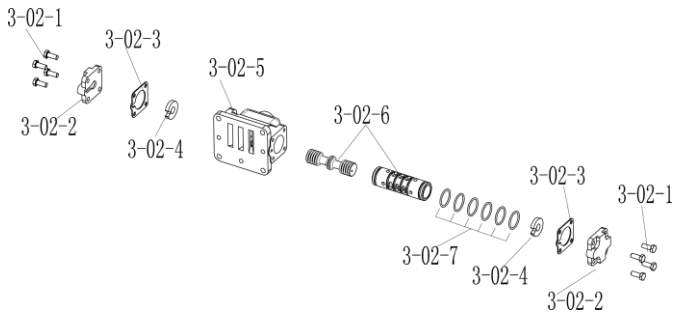
Materials 材质	Maximum 最高	Minimum 最低
Buna: General purpose, oil-resistant. Shows good solvent, oil, water and hydraulic fluid resistance. Should not be used with highly polar solvents like acetone and MEK, ozone, chlorinated hydrocarbons and nitro hydrocarbons. 丁腈橡胶: 通用, 具抗油性, 有良好的耐溶剂、耐油、耐水以及液压油性能。不能用于丙酮和丁酮、臭氧、氯化烃和硝基化合物等强极性溶剂。	180°F 82°C	10°F -12°C
EPDM: Shows very good water and chemical resistance. Has poor resistance to oil and solvents, but is fair in ketones and alcohols. 三元乙丙橡胶: 有非常好的抗水性和耐化学性。抗油性和抗溶剂性差, 但在酮和醇中性质不变。	280° F 138° C	-60°F -51°C
Neoprene: All purpose. Resistant to vegetable oil. Generally not affected by moderate chemicals, fats, greases and many oils and solvents. Generally attacked by strong oxidizing acids, ketones, esters, nitro hydrocarbons and chlorinated aromatic hydrocarbons. 氯丁橡胶: 通用, 具抗植物油性。一般不受中度化学品、脂肪、油脂、多种油和溶剂影响。通常会受强氧化性酸、酮、酯、硝基烃和氯代芳烃腐蚀。	200°F 93°C	-0°F -18°C
Santoprene: Injection molded thermoplastic elastomer with no fabric layer. Long mechanical flex life. Excellent abrasion resistance. 三道橡胶: 无纤维层的注塑成型热塑性橡胶, 机械挠曲寿命长, 具有优异的耐磨性。	220°F 104°C	-20°F -29°C
Virgin PTFE: Chemically inert, virtually impervious. Very few chemicals are known to react chemically with PTFE- molten alkali metals, turbulent liquid or gaseous fluorine and a few fluoro-chemicals such as chlorine trifluoride or oxygen difluoride which readily liberate free fluorine at elevated temperatures. 聚四氟乙烯: 具化学惰性, 几乎完全不透水。极少有化学物质可以与聚四氟乙烯发生化学反应-除了熔化的碱性金属、紊流液体或气态氟以及一些在温度升高时易释放出游离氟的氟代化学物质(如三氟化氯、二氟化氧等)。	220° F 104° C	40°F 4°C
Viton: Shows good resistance to a wide range of oils and solvents; especially all aliphatic, aromatic and halogenated hydrocarbons, acids, animal and vegetable oils. 氟橡胶: 有良好的抗油性抗溶剂性; 尤其是对所有脂肪族、芳香族和卤代烃、酸类、动植物油。	350° F 177° C	-40° F -40° C
Polypropylene: Thermoplastic polymer. Moderate tensile and flex strength. Resists strong acids and alkaline. Attacked by chlorine, fuming nitric acid and other strong oxidizing agents. 聚丙烯: 热塑性聚合物。中等拉伸强度和抗弯强度。抗强酸和强碱。易受氯气、发烟硝酸及其他强氧化剂的侵蚀。	175°F 79°C	32° F 0° C
PVDF: A durable fluoroplastic with excellent chemical resistance. Excellent for UV applications. High tensile strength and resistance. 聚偏二氟乙烯: 一种耐用的氟塑料, 具有优异的耐化学性, 在 UV 应用方面是最佳选择, 具有高拉伸强度和耐冲击性。	225°F 107°C	10°F -12°C
For specific applications, always consult "Chemical Resistance Chart" Technical Bulletin. 如有特殊应用, 请查询"Chemical Resistance Chart"技术资料。		

Exploded View 零件分解图



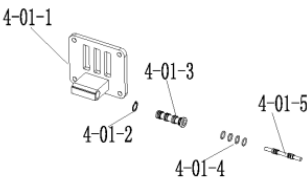
Number	Part Number	Part	Quantity
图号	配件编号	配件名称	数量
1-01	0050.0690p	Capscrew 弯头螺栓	16
1-02	4080.1490A	Nut,Hex 六角螺母	16
1-03	0050.7854J	Washer 球桶密封圈	8
1-04	0050.5941J	Ball Basket (PP) 球栏 (聚丙烯)	4
1-04	0050.5946J	Ball Basket (PVDF) 球栏 (聚偏二氟乙烯)	4
1-05	0050.6254	Ball,Check (PTFE) 阀球 (聚四氟乙烯)	4
1-05	0050.6258	Ball,Check (SP) 阀球 (三道橡胶)	4
1-06	0050.5841	Ball bucket (PP) 球桶 (聚丙烯)	4
1-06	0050.5846	Ball bucket (PVDF) 球桶 (聚四氟乙烯)	4
1-07	0050.5741J	Seat,Check Valve (PP) 阀座 (聚丙烯)	4
1-07	0050.5746J	Seat,Check Valve (PVDF) 阀座 (聚四氟乙烯)	4
1-09	0050.0590p	Capscrew 外腔体螺栓	16
1-10	4080.1490A	Nut,Hex 六角螺母	16
1-11	0050.1941J	Chamber,Outer (PP) 外腔体 (聚丙烯)	2
1-11	0050.1946J	Chamber,Outer (PVDF) 外腔体 (聚偏二氟乙烯)	2
2-01	0050.1841	Manifold,Discharge (PP) 上出料口 (聚丙烯)	1
2-01	0050.1846	Manifold,Discharge (PVDF) 上出料口 (聚偏二氟乙烯)	1
2-02	0050.1641	Manifold,Suction (PP) 下出料口 (聚丙烯)	1
2-02	0050.1646	Manifold,Suction (PVDF) 下出料口 (聚偏二氟乙烯)	1
3-01	4015.1590	Capscrew 主气阀螺栓	4
3-02	0450.4600	Air Valve 主气阀组件	1
3-03	0458.7052	Gasket,Air Valve 主气阀垫片	1
4-01	0450.4100	Pilot Valve 分配阀	1
4-02	0458.6652	Gasket,Pilot Valve 分配阀垫片	1
4-03	0450.8002	Bumper,Plunger 顶针座组件	2
4-04	1458.7351	O-Ring 顶针 O 型圈	2
4-05	0458.3590	Pin,Actuator 顶针	2
5-01	0450.3241	Plate,Outer Diaphragm (PP) 膜片外压板 (聚丙烯)	2
5-01	0450.3246	Plate,Outer Diaphragm (PVDF) 膜片外压板 (PVDF)	2
5-02	0050.8751	NBR Diaphragm 丁腈橡胶膜片	2
5-02	0050.8752	Neoprene Diaphragm 氯丁橡胶膜片	2
5-02	0050.8753	Fluororubber Diaphragm 氟橡胶膜片	2
5-02	0050.8754	Teflon Diaphragm 聚四氟乙烯 (特氟龙) 膜片	2
5-02	0050.8758	Santoprene Diaphragm 三道橡胶膜片	2
5-04	0450.3391	Plate,Inner Diaphragm 膜片内压板	2
5-05	0450.6352	Bumper,Diaphragm 减震圈	2
5-06	1045.9789	Rings 1.5-2寸中间轴套筒卡簧	2
5-07	1045.9651	O-ring 中间轴套筒O型圈	2
5-08	0050.2791	Chamber,Inner 内腔体	2
5-09	0025.0790	Capscrew 内腔体螺栓	8
5-10	0450.7251	O-Ring 内腔体密封圈	2
5-11	0040.3191G	Bracket,Intermediate 中间体	1
5-12	1045.3400	Rod,Diaphragm 中间轴	1
6-01	0458.5340	Muffler 消音器	2
5-13	1045.9540	BUSH 1.5-2寸中间轴套筒	1

主气阀配件分解图:



Number	Part Number	Description	Quantity
图号	配件编号	配件名称述	数量
3-02-1	0015.0890	Capscrew 端盖螺栓	8
3-02-2	0450.4891c	Cap,End 气阀端盖	2
3-02-3	0458.7152	Gasket, Cap 端盖垫片	2
3-02-4	0458.5040	Bumper 气阀内塞	2
3-02-5	0450.4791c	Body, Air Valve 气阀外壳	1
3-02-6	0458.5291	Sleeve and Spool Set 气阀阀芯阀套	1
3-02-7	0258.6751	O-Ring 气阀阀套 O 型圈	6

分配阀配件分解图:



Number	Part Number	Description	Quantity
4-01-1	0458.4340	Body, Pilot Valve 分配阀阀壳	1
4-01-2	0158.4589	Retaining Ring 分配阀卡簧	1
4-01-3	0458.4291	Sleeve 分配阀阀套	1
4-01-4	0158.6851	O-Ring 分配阀阀套 O 型圈	6
4-01-5	0458.4400	Spool 分配阀阀芯组件	1