



HPL系列气动执行器

HPL SERIES LINEAR PNEUMATIC ACTUATORS



无锡圣汉斯自动化工程有限公司
Wuxi St.Hans Automation Engineering Co.,Ltd.



20世纪90年代初，随着世界加工制造业向中国的转移，无锡圣汉斯应运而生，诞生了圣汉斯的第一台执行器。

经过二十多年艰苦奋斗，创新发展，圣汉斯取得了今天的成就，成为了国内乃至全世界专业的，规模化的执行器生产厂家之一。

公司现有多个系列执行器：阿尔法A系列不锈钢执行器、阿尔法B系列铝合金执行器、阿尔法C系列铝合金执行器、HPY系列拨叉执行器以及气动手轮机构、阀位反馈装置、过滤减压阀等阀门控制附件。现有 $\phi 32 \sim \phi 1000$ 一百多个规格，扭矩从5Nm~300,000Nm都有覆盖。

公司于2010年初乔迁进入江南第一古镇梅村工业园区，新厂累计投资达一亿元人民币。公司现有员工220多人，工厂占地面

积3万平方米，年产26万台执行器，年销售额近3亿元人民币。

公司本着“专注，专业，卓越”的核心理念，竭诚为新老客户提供更专注的服务，更专业的技术，更卓越的产品。

In the early 1990s, coming with the trend of global manufacturing transferring to China, Wuxi ST.HANS was established, then ST.HANS's first actuator was born.

With twenty-years hard work and innovation, ST.HANS has achieved in becoming one of the professional and competitive actuator manufacturers in China.

ST.HANS supplies several series of actuators, that is, Alpha A series stainless steel actuator, Alpha B series aluminum alloy actuator, Alpha C series aluminum alloy actuator and HPY pneumatic actuator. Additionally ST.HANS supplies valve control accessories such as manual override, valve position feedback device, air pressure regulator-filter, etc. Actuator size ranges $\phi 32 \sim \phi 1000$, torque covers 5Nm~ 300,000Nm.

In the early 2010, the ST.HANS factory moved to Meicun Industry Park, the oldest town of the South River region. With a 50 million RMB investment, the new factory covers 30,000 square meters and hires 220 employees. It manufactures 260,000 actuators and sells around 300 million RMB annually. Leading with its core idea of concentration & professionalism, ST.HANS will serve its new and regular customers more attentively and professionally with more excellent products.



打造执行器及阀门附件专业供应商

The Professional Provider of Actuator



互赢 互利 共存

Mutually Beneficial Relationships专注 专业 卓越
*Focus On Professionalism*成为您的最佳合作伙伴
To Be Your Best Partner

二十年的行业经验 一站式的产品和服务

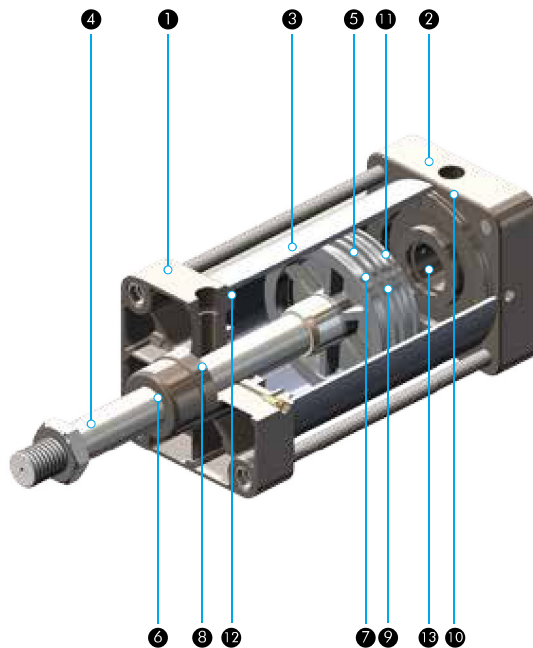
Twenty years experience "one-stop" goods and services

产品特点

Product Features

- 行程限位杆位置可调，具体行程应用可咨询工厂
- 单作用的弹簧活塞杆螺母锁定，以防止未经授权对弹簧筒误拆卸
- 缸径 $\varnothing 80 - \varnothing 320$ ，缸体材质为铝合金
- 驱动杆材质为碳钢镀铬处理，有不锈钢等其他材质可以选用
- 执行器外观颜色可以根据客户要求定制
- 如需定制推力、行程、压力等，请联系工厂

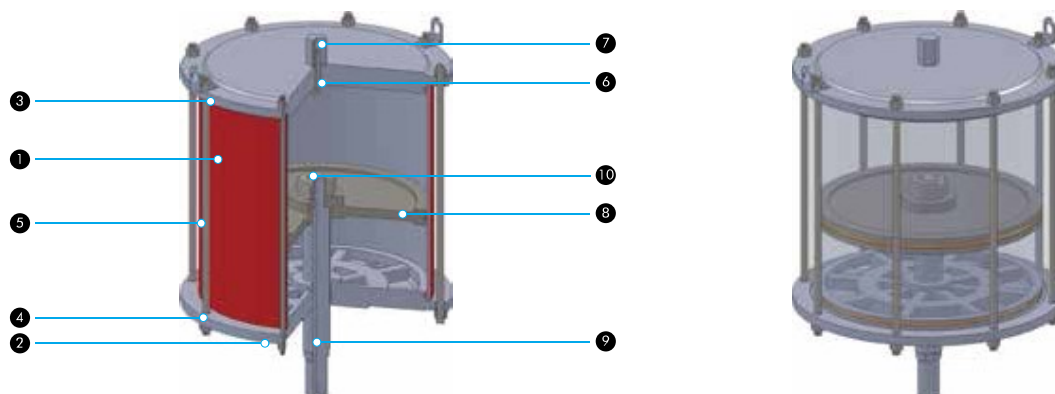
- Adjustable travel stop for the rod-retract position, piston bottoms out for the rod-extend position. Specific travel applications available, consult factory.
- Spring rod nut is locked to prevent unauthorized disassembly of the spring tank.
- Pneumatic cylinder ranges $\varnothing 80 - \varnothing 320$, the material of body is hard anodized aluminum.
- The material of drive rod is carbon steel with chrome plated. Optional material available like stainless steel ect.
- The coating colors are upon customer request.
- Consult factory for customized thrust, travel and pressure requirements.



$\varnothing 80 - \varnothing 320$ 结构图

$\varnothing 80 - \varnothing 320$ Construction

序号 No.	名称 Description	材质 Material	保护 Protection	数量 Qty.
1	前端盖 Front Cap	铝合金 Alluminum Alloy	表面烤漆 Painted	1
2	后端盖 End Cap	铝合金 Alluminum Alloy	表面烤漆 Painted	1
3	缸筒 Body	铝合金 Aluminum alloy	硬质氧化 Hard Anodized	1
4	活塞杆 Piston Rod	合金钢 Alloy Steel	表面镀铬 Chrome Plated	1
5	活塞 Piston	铸铝 Cast Alluminum	-	1
6	轴用密封圈 U-ring (piston rod)	NBR	-	1
7	孔用圈 Y-ring (piston)	NBR	-	2
8	标准轴承套 Bearing	免润滑轴承 Surface Lubricating Bearing	-	1
9	软磁条 Magnet	塑胶 Plastic	-	1
10	缓冲针阀 Bufferscrew	合金钢 Aolly Steel	-	2
11	支撑环 Wear Ring	PTFE	-	1
12	O型圈 O-ring (end cap)	NBR	-	2
13	缓冲圈 Cushion Seal	NBR	-	2



Ø280-Ø1000双作用结构图

Ø280-Ø1000 Construction of Double Acting Pneumatic Actuator

零件号 No.	名称 Name	材质 Material	数量 Qty.
1	缸筒 Body	碳钢 Carbon Steel	1
2	前端盖 Front Cap	球墨铸铁 Ductile Iron	1
3	后端盖 End Cap	球墨铸铁 Ductile Iron	1
4	螺母 Nut	碳钢 Carbon Steel	n
5	拉杆 Bolt	碳钢 Carbon Steel	n
6	限位螺栓 Adjust screw	碳钢 Carbon Steel	1
7	限位螺帽 Nut	碳钢 Carbon Steel	1
8	活塞 Piston	球墨铸铁 Ductile Iron	1
9	活塞杆 Stem	合金钢 Alloy Steel	1
10	活塞杆锁紧螺母 Lock Nut	碳钢 Carbon Steel	1

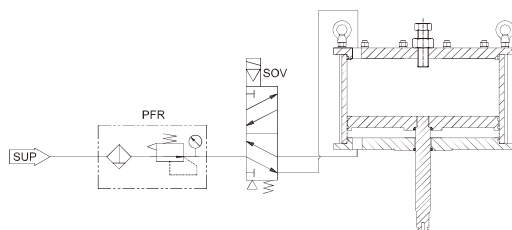
双作用输出力对照表

Output Torque Table of Double Acting Pneumatic Actuator

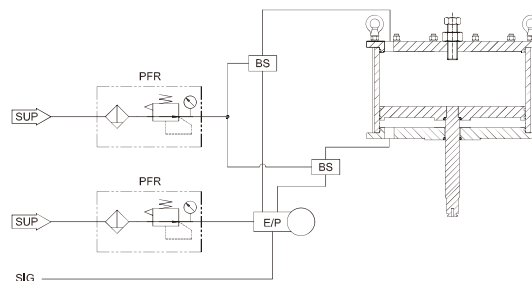
气缸直径 mm	气缸输出力N 气源压力单位MPa													
	0.3		0.35		0.4		0.45		0.5		0.55		0.6	
	推力 N	拉力 N	推力 N	拉力 N	推力 N	拉力 N	推力 N	拉力 N	推力 N	拉力 N	推力 N	拉力 N	推力 N	拉力 N
80	1507	1360	1758	1587	2010	1813	2261	2040	2512	2267	2763	2493	3014	2720
100	2355	2208	2748	2576	3140	2944	3533	3312	3925	3680	4318	4048	4710	4418
125	3680	3439	4293	4012	4906	4585	5520	5158	6133	5731	6746	6304	7359	6877
160	6029	5652	7034	6594	8033	7536	9043	8478	10048	9420	11053	10362	12058	11304
200	9420	9043	10990	10550	12560	12058	14130	13565	15700	15072	17570	16579	18840	18086
250	14719	14342	17172	16732	19625	19123	22078	21513	24531	23903	26984	26294	29438	28684
280	18463	18086	21540	21101	24618	24115	27695	27130	30772	30144	33849	33158	36926	36173
320	24115	23738	28134	27695	32154	31651	36173	35808	40192	39564	44211	43520	48230	47477
350	28849	28472	33657	33217	38465	37963	43273	42708	48081	47453	52886	52199	57698	56944
400	37680	37303	43960	43520	50240	49738	56520	55965	62800	62172	69080	68389	75360	74606
450	47689	47100	55637	54850	63585	62800	71533	70650	79481	78500	87429	86350	95378	94200
500	58875	58027	68688	67698	78500	77370	88313	87041	98125	96712	107988	106383	117750	116054
550	73853	73005	86162	85173	98470	97340	110779	109508	123088	121675	135397	133843	147706	146010
600	84780	83932	98910	97921	113040	111910	127170	125898	141300	139887	155430	153876	169560	167864
630	93470	92622	109048	108059	124627	123496	140205	138933	155783	154370	171362	169807	186940	185244
700	115395	114547	134628	133638	153860	152730	173083	171821	192325	190912	211558	210003	230790	229094
800	150720	149566	178540	174494	200960	199421	226060	224349	251200	249277	276320	274204	301440	299132
900	190755	189601	222548	221201	254340	252801	286133	284402	317925	316002	349718	347602	381210	379202

双作用气路原理图

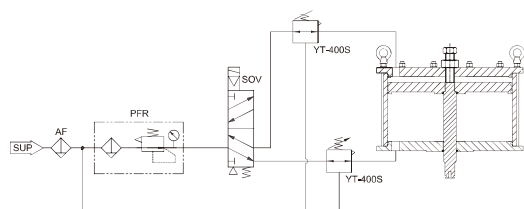
Pneumatic Schematic of Double Acting Pneumatic Actuator



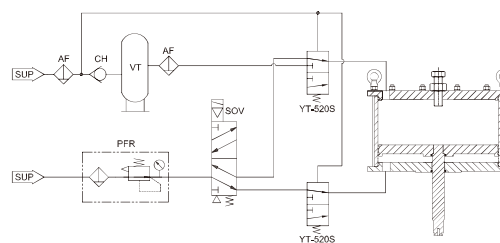
双作用开关型
DA On-Off



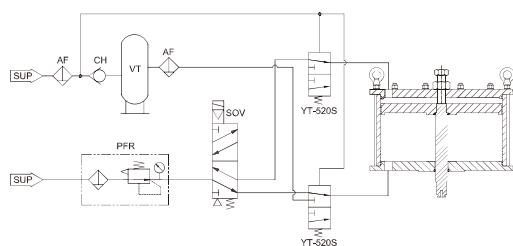
双作用调节型（带增速器）
DA Control with Booster Relay



双作用开关型（失气故障保位）
DA On-Off (FL)



双作用开关型（故障关FC）
DA On-Off (FC with Air Tank)



双作用开关型（故障开FO）
DA On-Off (FO with Air Tank)

手动形式

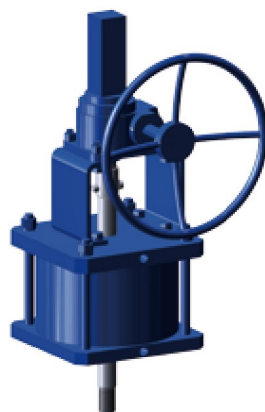
Manual



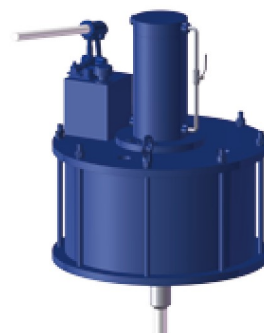
DA



DA+SM



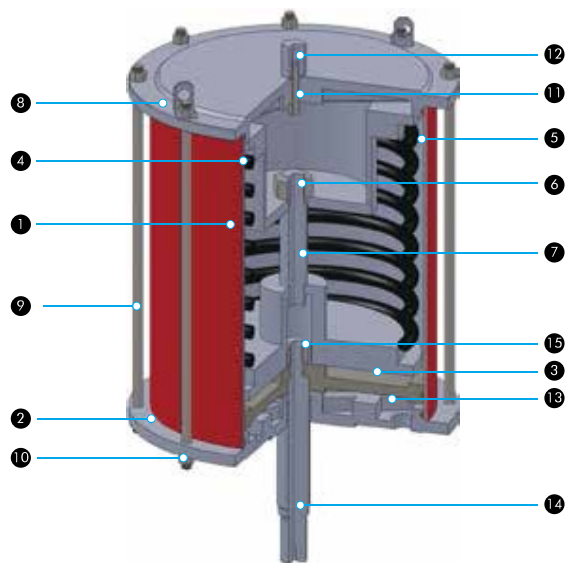
DA+GM



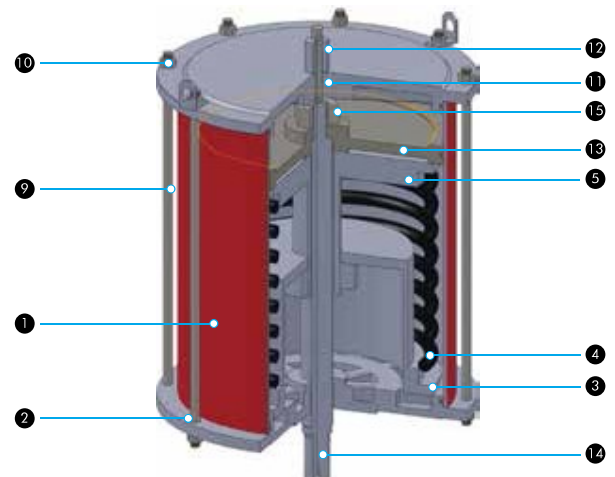
DA+HM

单作用结构图

Construction of Spring Return Pneumatic Actuator



FC



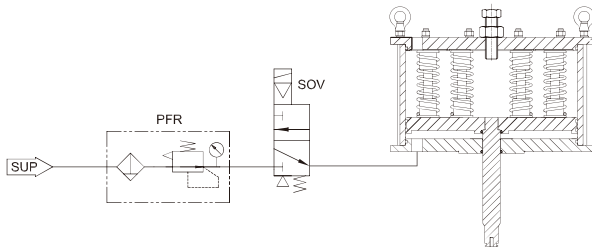
FO

零件号No.	名称Name	材料Materials	数量Qty.
1	缸筒 Body	碳钢 Carbon Steel	1
2	缸盖 Cap	球墨铸铁 Ductile Iron	1
3	弹簧座 Spring Seat	碳钢 Carbon Steel	1
4	弹簧 Spring	弹簧座 Spring steel	n
5	弹簧座 Spring Seat	碳钢 Carbon Steel	1
6	螺母 Nut	碳钢 Carbon Steel	1
7	弹簧拉杆 Spring Stem	合金钢 Alloy Steel	1
8	缸盖 Cap	球墨铸铁 Ductile Iron	1
9	拉杆 Bolt	碳钢 Carbon Steel	n
10	螺母 Screw	碳钢 Carbon Steel	n
11	限位螺钉 Bolt	碳钢 Carbon Steel	1
12	限位螺帽 Nut	碳钢 Carbon Steel	1
13	活塞 Piston	球墨铸铁 Ductile Iron	1
14	活塞杆 Stem	合金钢 Alloy Steel	1
15	活塞杆锁紧螺母 Locknut	碳钢 Carbon Steel	1

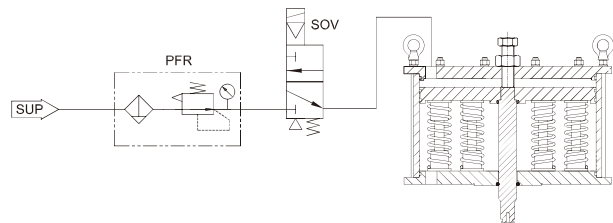
Remark: The output torque of spring return actuator is bases on actual stroke and spring force.

单作用气路原理图

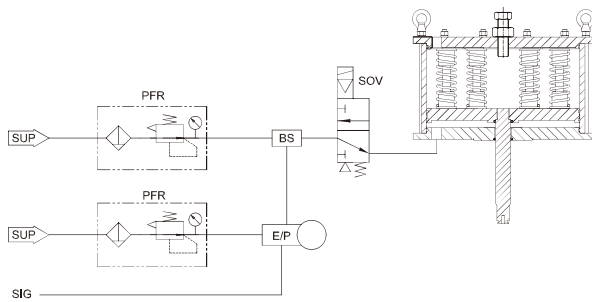
Pneumatic Schematic of Spring Return Pneumatic Actuator



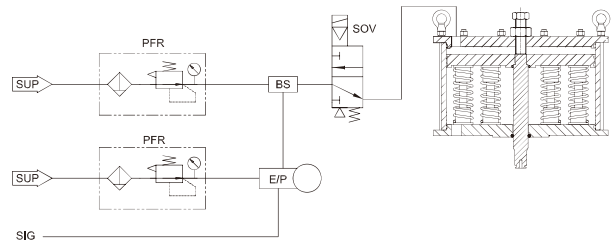
单作用开关型FC
SR On-Off (FC)



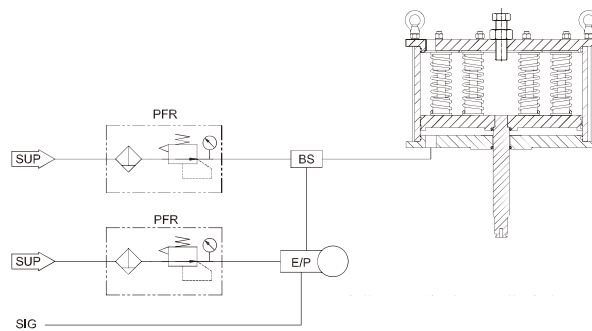
单作用开关型FO
SR On-Off (FO)



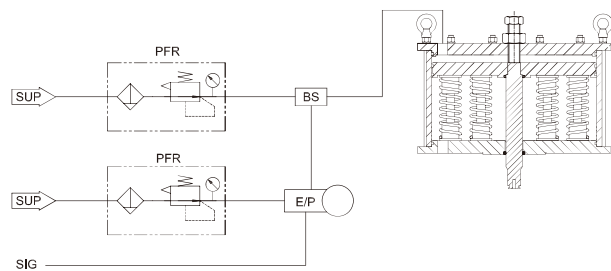
单作用调节型FC (故障复位)
SR Control (FC)



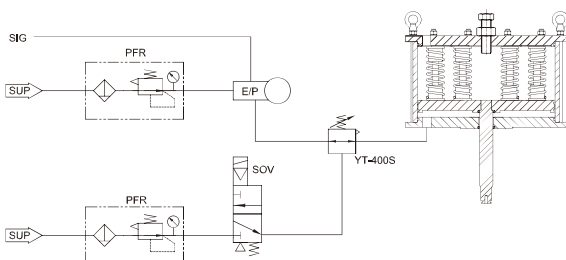
单作用调节型FO (故障复位)
SR Control (FO)



单作用调节型FC (带增速器)
SR Control FC with Booster Relay



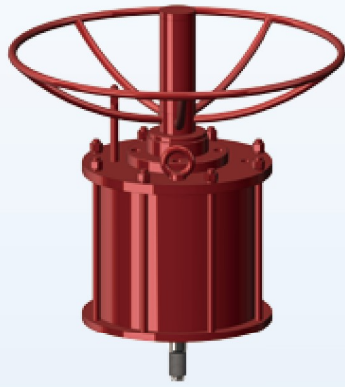
单作用调节型FO (带增速器)
SR Control FO with Booster Relay



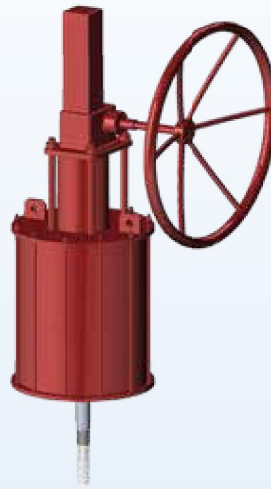
单作用调节型 (带断电、断信号、断气保位功能)
SR Control with Power-Off, Signal Loss, Air Failure Protection

手动形式
Manual

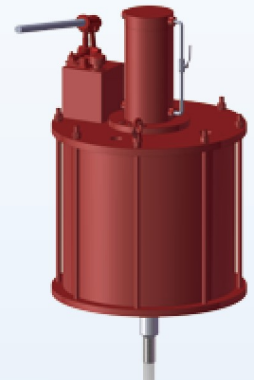
SR



SR+SM

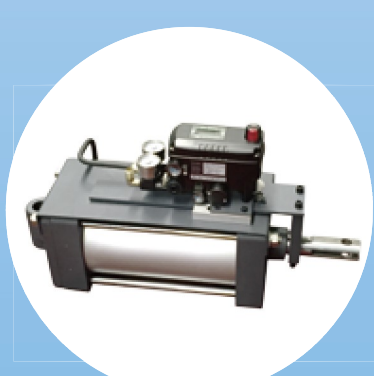


SR+GM



SR+HM







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