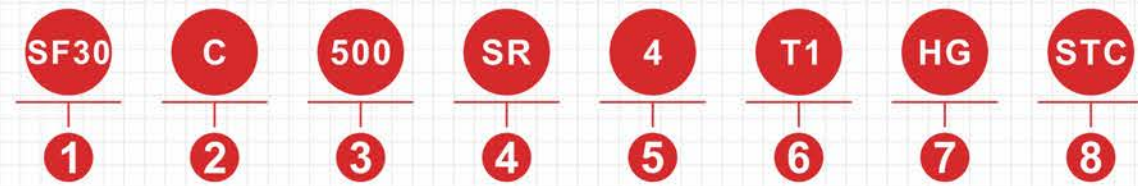


型号构成 Model



1 箱体规格: SF10 ~ SF60

Body Size.: SF10 to SF60

2 拨叉类型 Yoke Type

无代号: 对称式拨叉

No code: Symmetric Yoke

C: 偏心式拨叉

C: Canted Yoke

3 气缸规格: 150 ~ 1100

Cylinder Size: 150 to 1100

4 动作形式 Action Type

DA: 双动作型

DA: Double acting

SR: 单动作标准型

SR: Single acting

5 弹簧范围 Spring Size

3: 3Bar 4: 4Bar

5: 5Bar 6: 6Bar

6 温度 Temperature

无代号 No code: 常温 Normal atmospheric temperature

T1: 低温 Low temperature (-40~80°C)

T2: 低温 Low temperature (-50~80°C)

T3: 低温 Low temperature (-60~80°C)

M: 高温 High temperature (-20~120°C)

7 附属机构 (选择): Special code (Selective)

HW: 侧面手轮 (Jack Screw Manual Override)

HG: 蜗轮手动机构 (Worm wheel manual mechanism)

HY: 液压手动装置 (Hydraulic Manual Override)

EX: 开度限位装置 (Extended Travel Stop)

8 气源故障位置 (单作用型)

Air failure position (Single acting)

STC: 弹簧关 Spring to Close

STO: 弹簧开 Spring to Open

C-MAX[®]

SF-Series Actuators SF 系列阀门驱动装置



成都麦克斯机械设备有限公司

CHENGDU MAX MACHINERY AND EQUIPMENT CO.,LTD

公司地址: 成都市大邑县晋原镇兴业七路58号

Add: No. 58 of the Seventh Industrial Road of Jinyuan Town, Dayi county, Chengdu City

邮编 (Zip Code): 611330 电话 (Tel): 0086-028-88312338 传真 (Fax): 0086-028-88311238

网址 (Website): [Http://www.cmaxjx.com](http://www.cmaxjx.com)

成都麦克斯机械设备有限公司

CHENGDU MAX MACHINERY AND EQUIPMENT CO.,LTD

产品特性 Advantages

■ 防水保护 Water Ingress Protected

箱体、箱盖等处装有O形圈，阻止外界的水分进入驱动装置内。

O-Rings are fitted on bodys, caps and so on, This ensure Water ingress protected.

■ 标准化的附件安装尺寸 Standardized

所有SF系列驱动装置顶部输出附属连接均符合NUMAR标准，方便标准的电器附件安装操作。

The shaft driven accessory interface conforms to NUMAR and is identical on all SF Series models, allowing standardiz-Ation of accessory Mounting hardware and installation practices.

■ 耐磨 Wear Resistant

经过优良表面处理的活塞杆及导向杆与自润滑的轴承组合，保证优良的耐磨性，延长所有滑动零件的使用寿命。

The guide rod and piston rod have an advanced surface treatment, which combined with self- self-lubricating bearings, provides superior wear resistance and extends the life of all sliding components.

■ 传动效率高 High Efficiency

经过精磨的活塞杆、导向杆以及自润滑的轴承保证最大限度地将输入的动力传递给阀门，大大提高传动效率，同时使得活塞杆的径向载荷最小。

The pistont rod and guide Block connection, superior surface finishes and self-lubricating bearings maximize input Energy Transfer directly to the valve stem, Efficiency is further Enhanced by the tension-loaded Spring, minimizing radial loads On the piston rod.

■ ISO 标准连接尺寸 ISO Valve Mounting

SF系列驱动装置与阀门的连接法兰，每一规格均符合ISO标准的要求。

The SF Series Actuator`s flanges connected to valve,Each specification Meets the requirements of the ISO standard.

■ SIL3 安全认证 SIL3 Safety Certification

SF系列执行机构通过了SIL3认证，它们可以结合其他元件如电磁阀、开关和调节器，组合的组件可以安装在90度回转的阀门上应用于SIL1, 2或3的场合。

The SF series of Actuators have passed the SIL3 certification, They can be combined with other components such as solenold valves, switches and reguulators, The SIL-PAC packge can then be mounted on the appropriate quarter-turn valve for SIL1,2 or 3 applications.

■ 防腐蚀 Corrosion Resistant

SF系列驱动装置喷涂了3层以上的防护涂层，满足了石化等环境的要求，气缸内表面喷涂有聚四氟乙烯涂层增加防腐蚀和自润滑性。

The SF series actuators incorporate over three stages of internal and external coatings to resist severe weather, chemical and petroleum environments. The inner surface of cylinder is coated y PTFE, Enhanced corrosion resistant and self-lubricating .

■ 安全弹簧模块 Safe Spring Module

为保证在安装和维护弹簧模块时操作者的安全，弹簧模块只能整体沿气缸模块轴线从驱动装置移出，避免弹簧力对人生和驱动装置的伤害。

To ensure the safety of personnel during installation and maintenance the spring module has been designed so that it can only be removed from the power module with the spring in the fully extended position. This prevents accidental release of the spring force, protecting personnel from injury and the actuator from accidental damage.

■ 模块设计 Modular design

SF系列驱动装置由传动、气缸、弹簧和侧面附属装置几个模块构成，这些模块在安装时方便拆装、交换和稳固。为了减少库存，各模块可以分别采购。

SF series actuators have available, field-Serviceable drive, power, spring and override modules, The modules are removable, serviceable and inter-changeable while mounted to the valve. Modules are available for separate purchase to reduce sparetparts inventory.



应用 General Application

输出扭矩 Torque Outputs

双动作 Double acting: 308~250000Nm

弹簧复位 Spring return end torques: 118~90500Nm

操作压力 Operating Pressures 3~7 Bar

温度 Operating Temperatures

标准 Standard : -20°C~80°C

低温 Low Temperature: -60°C~80°C

高温 High Temperature: -20°C~120°C

结构特点 Design Features Offer Unique Benefits

1 弹簧安全 Safe Spring Lock

压缩后牢固封闭的弹簧模块, 阻止弹簧模块从箱体处脱离。
Positively locks the spring module in place under load, Prevents spring module detachment from the drive module.

2 减少磨损 Reduced Wear

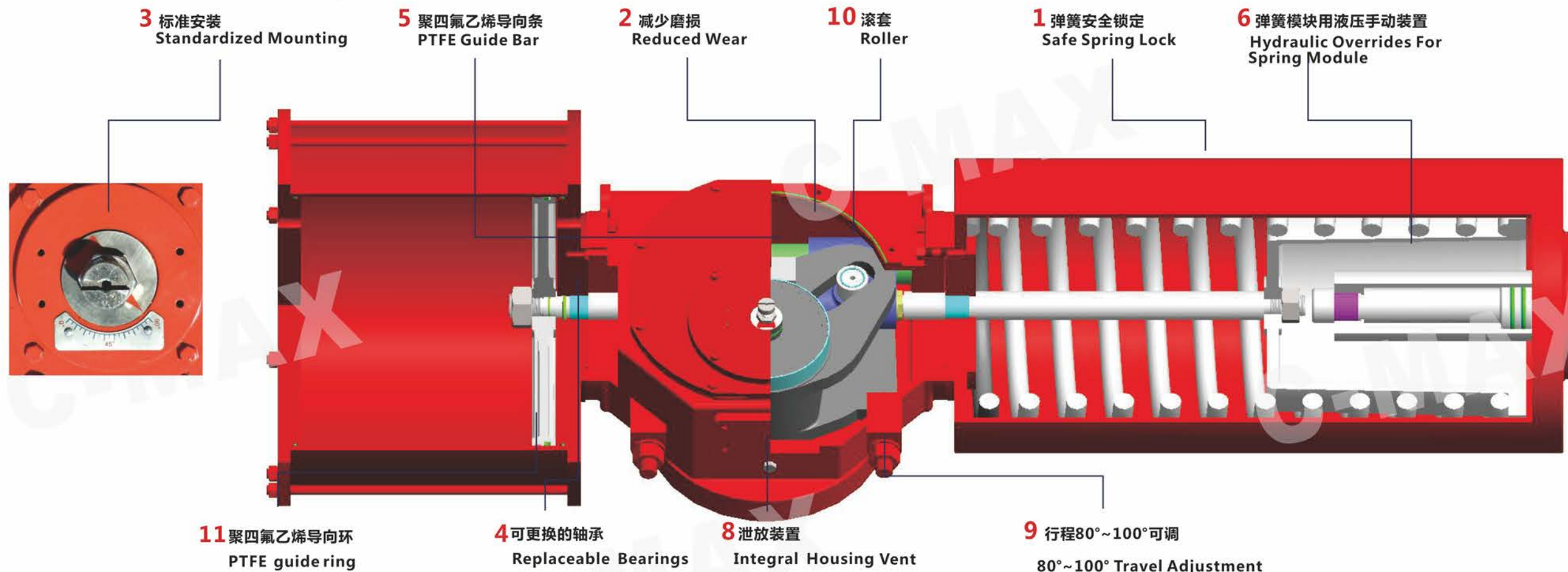
活塞杆在导向杆的支撑下, 抵消了活塞的侧向载荷, 减少活塞杆、轴承和密封件的磨损。
Connects the piston rod with the guide block, compensating for side load deflection and reducing wear on rod, bearings and seals.

6 弹簧模块用液压手动装置

内藏式弹簧复位驱动装置不需要增加驱动装置的长度。
Inside hydraulic override cylinder module for spring-return models doesn't increase actuator length.

7 起吊方便 Esay Lifting

Sf25及以上规格的驱动装置箱体上设置有4个吊装孔确保在运输、安装、移动中的安全。
Sf25 and larger models equipped with four lifting eyes for safe actuator handling during shipping installation and removal.



3 标准安装 Standardized Mounting

采用NUMAR标准安装结构, 适用多种标准化的附件安装。
The NUMAR mounting configuration Allows standardization of mounting Hardware for a wide range of shaft driven accessories.

4 可更换的轴承 Replaceable Bearings

可更换的轴承不论在干燥的还是润滑条件下对滑动和旋转部件进行保护。
Replaceable Bearings Protect sliding and rotating Components, with suitability for either dry or lubricated working conditions.

8 箱体泄放装置 Integral Housing Vent

驱动装置的箱体上安装有检测阀用来泄放箱体内的压力同时阻止外界的异物或水进入驱动装置内。
The main actuator housing incorporates an integral check valve in order to release overpressure while.

9 行程可调 80°~100° Travel Adjustment

双向行程限位装置, 满足驱动装置在80°~100°范围内可调。
Bi-Directional Travel Stops integral to the actuator, the stops allow 80° to 100° total travel adjustment. preventing ingress of foreign object or water.

5 聚四氟乙烯导向条 PTFE Guide Bar

聚四氟乙烯条阻止销轴的轴向移动将轴向载荷传递给驱动模块。
PTFE thrust bar prevents yoke pin axial movement, transferring axial loads directly to the drive module case.

10 滚套 Roller

拨叉和销轴之间通过滚套连接, 减少销轴和拨叉间的摩擦以及拨叉和销轴的磨损。
Rollers be used, Reduce the friction between the yoke arm and pin, minimize the wear of yoke arm and pin.

11 聚四氟乙烯导向环 PTFE guide ring

聚四氟乙烯导向环, 避免活塞和气缸的金属面接触, 气缸免受活塞划伤。
Guide ring, made of PTFE, Preventing metal to metal contact with the cylinder bore, project the cylinder not be scratched by piston.

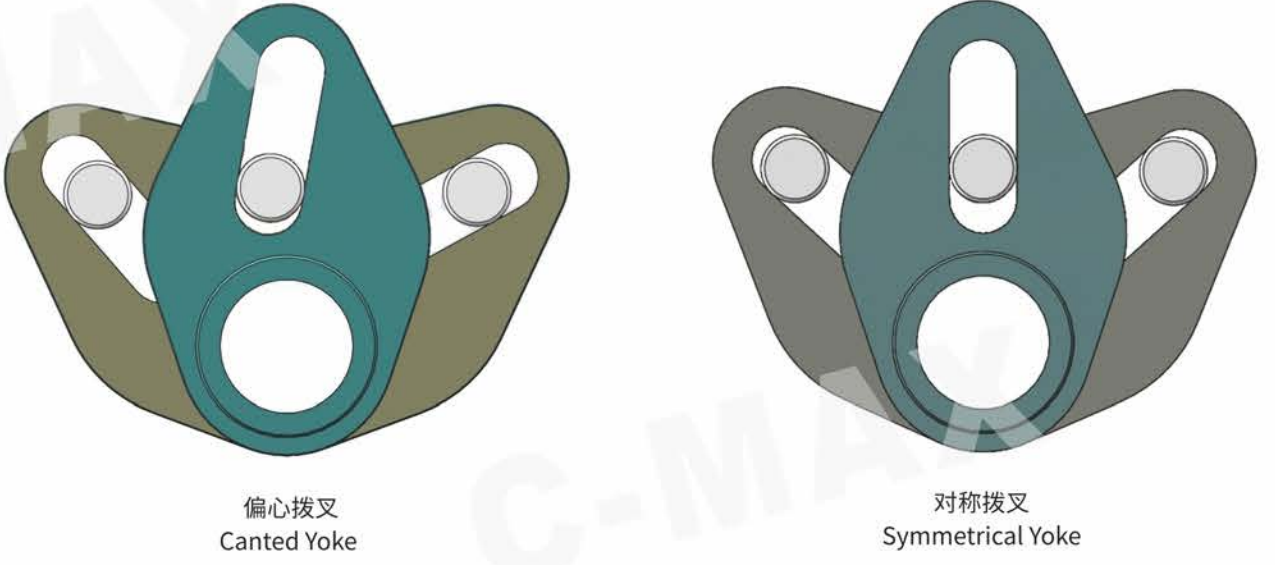
多功能模块 Modular Versatility



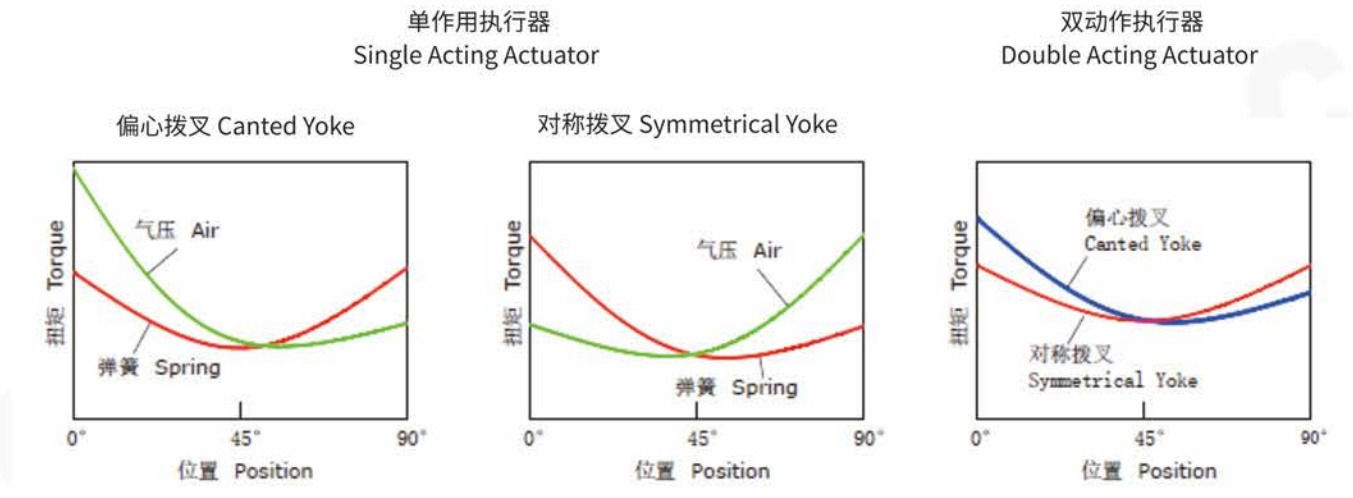
拨叉选择 Selection of Yoke

拨叉将执行机构的直线活塞运动转化为旋转运动, SF系列阀门气动驱动装置可提供对称式或倾斜式拨叉供选择。对称式拨叉使用在对起始和终点扭矩都要求较大的运行情况下。倾斜式拨叉扭矩的优势在于阀门的开启起始扭矩要求较大, 而运行扭矩或开启终点扭矩较小的情况。

The scotch yoke mechanism converts the actuator's linear piston movement into a rotary motion. The SF Series Pneumatic valve actuators are available with symmetric or canted yokes. Symmetric yokes are used when requirements call for efficient operation at both the break and end positions. Canted yokes have a torque advantage in applications where the break torque requirements are needed at the unseating of the valve and less critical at the run or full open positions.



扭矩特性 Torque Characteristics



可选项 Options

■ 螺旋千斤顶手动机构 Screw jack manual

这是一个螺旋千斤顶手动机械装置,通过一个特殊的适配器或SF系列弹簧缸端盖将线性推力施加到执行机构的活塞杆上。

HW-This Jackscrew manual override is a mechanical device threaded through a special adapter or the end cap of the SF Series Spring case to exert linear thrust on the actuator's piston rod.



■ 蜗轮蜗杆操作机构

worm gear and worm Manual operating mechanism

双动作气动执行器用蜗轮蜗杆手动机构安装于气动执行器与阀门之间,单动作气动执行器用蜗轮蜗杆手动机构安装于弹簧缸端盖上,通过一个特殊的防转适配器和梯形螺杆将线性推力施加到执行机构的活塞杆上。

The worm and worm gear manual mechanism for double acting actuator is mounted between the actuator and the valve. The worm and worm gear manual mechanism for single acting actuator is mounted on the end cap of the SF Series Spring case, The linear thrust is applied to the piston rod of the actuator through a special counter rotating adapter and trapezoidal screw.



■ 部分行程试验装置 Partial Stroke Test Device

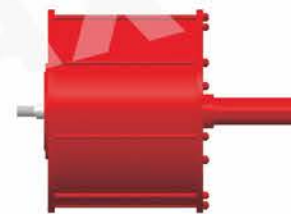
这个外部装置安装在SF系列执行器与阀门之间。它是理想的紧急关断阀门(ESV)定期在线测试装置

This Partial Stroke Test Device is sandwiched between the SF Series actuator and the valve. It is ideal for periodic testing of Emergency Shutdown valves (ESD) while remaining in service.

■ 液压手动 Hydraulic manual override

该液压手动装置是一个紧凑的模块系统设计,用于所有的SF系列执行机构,该液压手动装置既可用于气动执行机构也可用于液压执行机构。

This hydraulic manual override is a compact modular system designed for use with all SF Series actuators, The override can be used in both pneumatic actuators and hydraulic actuators

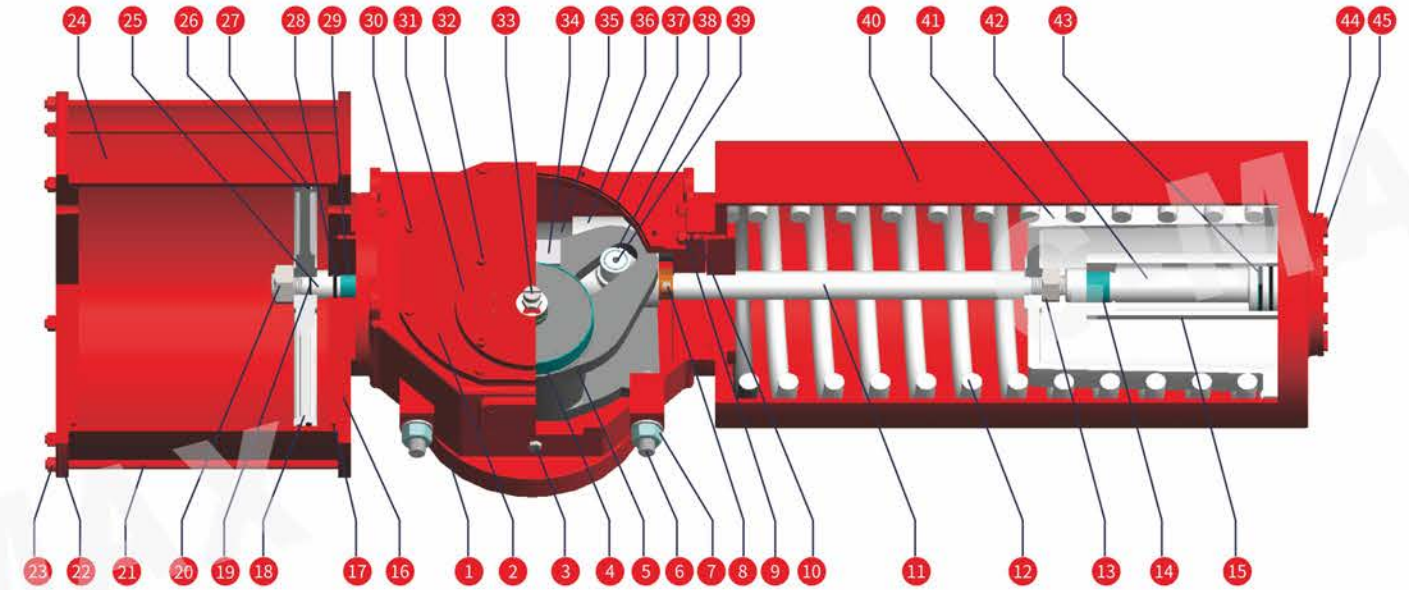


■ 开度调节装置 Opening adjustment device

SF系列气动执行器的气缸端盖,弹簧缸盖都可设置开度调节装置实现执行机构0-90度任意开度的调节。

The cylinder end cover and the spring cylinder cover of the SF series pneumatic actuators can all set the opening adjustment device to adjust the 0-90 degree of arbitrary opening of the actuator.

组装图 Assembly Drawing



序号 No.	零件名称 Name	材质 Material	序号 No.	零件名称 Name	材质 Material
1	箱体 Body	球墨铸铁(Ductile Iron)	24	气缸 Cylinder	碳钢 Carbon Steel
2	箱盖 Body Cap	球墨铸铁(Ductile Iron)	25	活塞杆 Center Bar	合金钢 Alloy Steel
3	泄放阀 Vent Valve	碳钢 Carbon Steel	26	导向环 Guide Ring	PTFE
4	滑动轴承 Sliding Bearing	金属衬TFE Metal+TFE PTFE	27	O型圈 O-Ring	NBR
5	拨叉 Yoke	碳钢 Carbon Steel	28	O型圈 O-Ring	NBR
6	调节螺柱 Adjust Stud	合金钢 Alloy Steel	29	滑动轴承 Sliding Bearing	金属衬TFE Metal+TFE PTFE
7	螺母 Nut	2H	30	螺栓 Bolt	碳钢 Carbon Steel
8	螺母 Nut	2H	31	顶盖 Cover	球墨铸铁(Ductile Iron)
9	螺母 Nut	2H	32	螺栓 Bolt	碳钢 Carbon Steel
10	双头螺柱 Stud	合金钢 Alloy Steel	33	反馈轴 Drive Shaft	304
11	弹簧拉杆 Spring Rod	合金钢 Alloy Steel	34	导向条 Guide Bar	PTEF
12	弹簧 Spring	合金钢 Alloy Steel	35	导向杆 Guide Rod	合金钢 Alloy Steel
13	螺母 Nut	2H	36	导向块 Guide Block	球墨铸铁(Ductile Iron)
14	滑动轴承 Sliding Bearing	金属衬TFE Metal+TFE PTFE	37	O型圈 O-Ring	NBR
15	液压缸 Hydraulic Cylinder	碳钢 Carbon Steel	38	滚套 Roller	合金钢 Alloy Steel
16	隔板 Adapter	球墨铸铁(Ductile Iron)	39	销轴 Pin	合金钢 Alloy Steel
17	O型圈 O-Ring	NBR	40	弹簧缸 Spring Case	碳钢 Carbon Steel
18	活塞 Piston	球墨铸铁(Ductile Iron)	41	弹簧座 Spring Seat	碳钢 Carbon Steel
19	O型圈 O-Ring	NBR	42	液压活塞 Hydraulic Piston	碳钢 Carbon Steel
20	螺母 Nut	2H	43	O型圈 O-Ring	NBR
21	拉杆 Tension rod	合金钢 Alloy Steel	44	封盖 Cover Plate	碳钢 Carbon Steel
22	端盖 End Cap	球墨铸铁(Ductile Iron)	45	螺栓 Bolt	碳钢 Carbon Steel
23	螺母 Nut	2H			

高压气动执行器 High Pressure Pneumatic

SF系列产品可以根据要求提供高压气动执行器,压力压力范围0.8~10MPa。

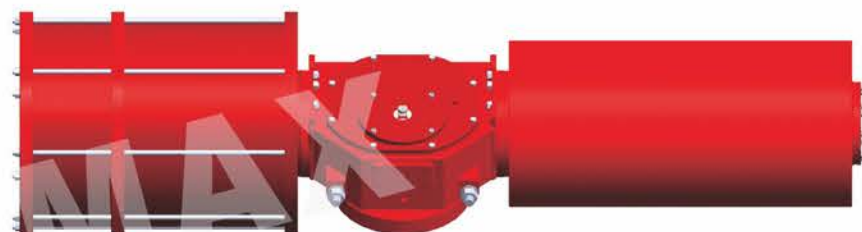
The SF series products can provide high pressure pneumatic actuators according to the requirements. The Pressure range:0.8~10MPa



两段式气动执行器 Two Stage Pressure Pneumatic

SF系列产品可以根据要求提供两段式气动执行器,可以实现阀门在中间某个开度位置以及全开、全关位置的操作控制,特别是便于灌装和卸料控制阀的控制。

The SF series of products available provided two paragraph pneumatic actuators according to the requirements, The valve can be achieved in the middle of an opening position and fully open and fully closed position control, especially for filling and discharge control valve.



重载荷双气缸气动执行器 Heavy load pneumatic actuator with double cylinder

Sf系列专门设计有加粗的整体活塞杆与导向杆组合结构的重载荷气动执行器,导向更加平稳可靠,适用于扭矩波动较大、载货较大的工况。

The SF series is specially designed with a heavy load pneumatic actuator with the combined structure of the whole piston rod and the guide rod, which is more stable and reliable. It is suitable for large torque and large loading conditions.

双气缸气动执行器 torque of double cylinder pneumatic actuator

型号Model	输出扭矩Output Torque 气压Air Pressure (MPa)											
	0.3			0.4			0.5			0.6		
	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°
SF35-400DA2	15577	9346	15577	20770	12462	20770	25962	15577	25962	31155	18693	31155
SF35-500DA2	24480	14688	24480	32640	19584	32640						
SF40-500DA2	29640	17784	29640	39520	23712	39520	49400	29640	49400	59280	35568	59280
SF40-600DA2	42847	25708	42847	57130	34278	57130	71412	42847	71412			
SF48-600DA2	50161	30096	50161	66882	40129	66882	83602	50160	83602	100323	60193	100323
SF48-700DA2	68530	41118	68530	91374	54824	91374	114217	68530	114217	137061	82236	137061
SF48-700DA2	89509	53705	89509	119346	71607	119346						
SF60-800DA2	120705	72423	120705	160940	96564	160940	201175	120705	201175	241410	144846	241410
SF60-900DA2	153135	91881	153135	204180	122508	204180	255225	153135	255225			
SF60-1000DA2	189375	113625	189375	252500	151500	252500						

扭矩表 Torque Sheet

双动作型(对称拨叉) Double Acting (Symmetrical Yoke)

Nm

型号Model	输出扭矩Output Torque 气压Air Pressure (MPa)											
	0.3			0.4			0.5			0.6		
	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°
SF10-150DA	309	185	309	412	247	412	515	309	515	618	371	618
SF10-170DA	399	240	399	533	320	533	666	399	666	799	479	799
SF12-170DA	499	300	499	666	399	666	832	499	832	999	599	999
SF12-200DA	691	415	691	921	553	921	1152	691	1152	1382	829	1382
SF14-200DA	773	464	773	1031	619	1031	1289	773	1289	1547	928	1547
SF14-250DA	1351	810	1351	1801	1081	1801	2251	1351	2251	2701	1621	2701
SF14-300DA	1955	1173	1955	2607	1564	2607	3258	1955	3258	3910	2346	3910
SF16-250DA	1682	1009	1682	2243	1346	2243	2804	1682	2804	3364	2019	3364
SF16-300DA	2437	1462	2437	3250	1950	3250	4062	2437	4062	4875	2925	4875
SF16-350DA	3312	1987	3312	4416	2649	4416	5520	3312	5520	6623	3974	6623
SF25-350DA	3956	2373	3956	5274	3165	5274	6593	3956	6593	7912	4747	7912
SF25-400DA	5036	3022	5036	6715	4029	6715	8393	5036	8393	10072	6043	10072
SF25-450DA	6387	3832	6387	8516	5110	8516	10645	6387	10645	12774	7664	12774
SF30-450DA	7790	4674	7790	10387	6232	10387	12983	7790	12983	15580	9348	15580
SF30-500DA	9636	5781	9636	12848	7709	12848	16060	9636	16060	19272	11563	19272
SF30-550DA	11676	7005	11676	15568	9340	15568	19460	11676	19460	23352	14011	23352
SF35-550DA	14811	8886	14811	19748	11848	19748	24685	14810	24685	29621	17773	29621
SF35-600DA	17654	10592	17654	23539	14123	23539	29424	17654	29424	35309	21185	35309
SF35-700DA	24084	14450	24084	32112	19267	32112	40139	24083	40139	48167	28900	48167
SF40-600DA	21325	12795	21325	28433	17060	28433	35542	21325	35542	42650	25590	42650
SF40-700DA	29132	17479	29132	38843	23305	38843	48553	29131	48553	58264	34958	58264
SF40-800DA	38140	22884	38140	50853	30511	50853	63567	38139	63567	76280	45767	76280
SF48-800DA	44819	26891	44819	59759	35855	59759	74699	44819	74699	89639	53782	89639
SF48-900DA	56830	34097	56830	75773	45463	75773	94717	56829	94717	113660	68195	113660
SF48-1000DA	70254	42152	70254	93672	56202	93672	117090	70253	117090	140508	84303	140508
SF60-800DA	60270	36161	60270	80360	48215	80360	100450	60269	100450	120540	72323	120540
SF60-900DA	76485	45890	76485	101979	61186	101979	127474	76483	127474	152969	91780	152969
SF60-1000DA	94607	56763	94607	126142	75684	126142	157678	94605	157678	189213	113526	189213
SF60-1100DA	114636	68780	114636	152848	91707	152848	191060	114634	191060	229272	137561	229272

扭矩表 Torque Sheet

双动作型 (偏心拨叉) Double Acting (Canted Yoke)

Nm

型号Model	输出扭矩Output Torque 气压Air Pressure (MPa)											
	0.3			0.4			0.5			0.6		
	0°	45°	90°	0°	45°	90°	0°	45°	90°	0°	45°	90°
SF10/C-150DA	417	200	282	556	267	376	695	333	470	834	400	564
SF10/C-170DA	539	259	364	719	345	486	898	431	607	1078	517	728
SF12/C-170DA	680	330	461	907	440	614	1134	550	768	1361	660	921
SF12/C-200DA	941	456	637	1255	609	850	1569	761	1062	1883	913	1275
SF14/C-200DA	1045	502	706	1393	670	942	1741	837	1177	2090	1004	1413
SF14/C-250DA	1825	877	1234	2433	1169	1645	3041	1462	2056	3650	1754	2467
SF14/C-300DA	2641	1269	1785	3521	1692	2381	4402	2116	2976	5282	2539	3571
SF16/C-250DA	2265	1084	1530	3020	1446	2040	3775	1807	2550	4530	2169	3060
SF16/C-300DA	3282	1571	2217	4376	2095	2956	5470	2619	3695	6564	3143	4434
SF16/C-350DA	4459	2135	3012	5945	2847	4016	7432	3558	5021	8918	4270	6025
SF25/C-350DA	5334	2558	3605	7112	3411	4806	8891	4264	6008	10669	5116	7209
SF25/C-400DA	6791	3257	4589	9055	4342	6118	11318	5428	7648	13582	6513	9178
SF25/C-450DA	8613	4130	5820	11484	5507	7760	14355	6884	9700	17226	8261	11640
SF30/C-450DA	10497	5030	7092	13996	6707	9456	17495	8384	11820	20994	10061	14184
SF30/C-500DA	12985	6222	8773	17313	8296	11697	21641	10371	14621	25969	12445	17546
SF30/C-550DA	15733	7540	10630	20978	10053	14173	26222	12566	17717	31467	15079	21260
SF35/C-550DA	19922	9527	13455	26563	12703	17940	33204	15879	22425	39844	19055	26910
SF35/C-600DA	23747	11357	16039	31663	15142	21385	39579	18928	26731	47494	22713	32077
SF35/C-700DA	32395	15493	21879	43194	20657	29173	53992	25821	36466	64791	30985	43759
SF40/C-600DA	28706	13740	19390	38275	18320	25854	47843	22899	32317	57412	27479	38781
SF40/C-700DA	39215	18770	26489	52287	25026	35319	65358	31283	44148	78430	37539	52978
SF40/C-800DA	51341	24574	34680	68455	32765	46240	85568	40956	57800	102682	49147	69360
SF48/C-800DA	60592	29141	40966	80789	38855	54622	100987	48569	68277	121184	58282	81933
SF48/C-900DA	76830	36950	51945	102439	49267	69260	128049	61584	86575	153659	73901	103889
SF48/C-1000DA	94977	45678	64215	126637	60905	85619	158296	76131	107024	189955	91357	128429
SF60/C-800DA	80794	38487	54523	107725	51317	72698	134657	64146	90872	161588	76975	109046
SF60/C-900DA	102530	48842	69192	136707	65122	92255	170883	81403	115319	205060	97683	138383
SF60/C-1000DA	126823	60414	85586	169098	80552	114114	211372	100690	142643	253646	120828	171171
SF60/C-1100DA	153674	73205	103705	204898	97606	138274	256123	122008	172842	307347	146410	207411

扭矩表 Torque Sheet

弹簧复位型 Spring Return Acting (SR3 气源压力3Bar 用弹簧 Spring For Air Pressure is 3Bar)

对称拨叉 Symmetrical Yoke

Nm

型号Model	弹簧扭矩 Spring Torque			输出扭矩Output Torque 气压Air Pressure (MPa)								
				0.3			0.4			0.5		
	SST	SRT	SET	AST	ART	AET	AST	ART	AET	AST	ART	AET
SF10-150SR3	187	91	118	183	89	115	293	155	225	396	217	328
SF10-170SR3	230	115	153	237	119	161	379	204	302	512	284	435
SF12-170SR3	285	141	187	299	150	201	478	257	380	645	357	546
SF12-200SR3	369	184	246	432	222	308	680	371	557	912	510	789
SF14-200SR3	511	254	307	523	261	318	801	419	596	1078	585	873
SF14-250 SR3	789	402	506	791	403	508	1233	658	960	1669	919	1396
SF14-300 SR3	1079	543	674	1194	615	790	1847	998	1480	2477	1376	2110
SF16-250 SR3	1092	508	607	1014	498	529	1563	810	1139	2106	1136	1682
SF16-300 SR3	1434	721	892	1444	727	902	2250	1979	1708	3036	1659	2423
SF16-350 SR3	1896	968	1227	1953	1038	1283	3063	1645	2420	4136	2289	3493
SF25-350 SR3	2249	1153	1470	2346	1255	1567	3660	1963	2882	4943	2732	4165
SF25-400 SR3	2996	1516	1895	3089	1574	1903	4779	2512	3594	6459	3520	5275
SF25-450 SR3	3960	2013	2534	3774	1898	2348	6080	3184	4535	8211	4463	6665
SF30-450 SR3	4786	2379	2889	4821	2401	2924	7420	3975	5829	10017	5533	8426
SF30-500 SR3	6044	2969	3535	5984	2932	3475	9189	4824	6893	12401	6751	10104
SF30-550 SR3	6867	3477	4349	7169	3664	4651	11558	6156	8964	15450	8491	12856
SF35-550 SR3	9180	4520	5400	9260	4569	5480	14344	7661	11193	19281	10623	16129
SF35-600 SR3	11016	5392	6378	11069	5425	6430	16635	8797	12690	22520	12328	18575
SF35-700 SR3	14449	7240	8907	14840	7483	9298	23114	12443	18363	31142	17259	26390
SF40-600 SR3	13131	6586	8114	13071	6549	8054	19458	10198	14536	26566	14463	21644
SF40-700 SR3	16359	8256	10272	18564	9623	12477	28548	15110	21818	38259	20936	31528
SF40-800 SR3	21426	10879	13666	23998	12460	16238	37164	19778	28761	50133	27405	41474
SF48-800 SR3	26619	13330	16381	27930	14142	17691	42377	22682	33230	57317	31646	48170
SF48-900 SR3	33844	16948	20827	35254	17822	22237	53968	28476	40951	72911	39841	59894
SF48-1000 SR3	45789	23215	29097	40140	19712	23447	65718	34190	48248	89136	48240	71666
SF60-800 SR3	36800	18478	22805	35799	18379	21805	57777	30855	45075	77866	42909	65165
SF60-900 SR3	47118	23238	27842	47867	23702	28592	72798	39044	57351	98293	54341	82845
SF60-1000 SR3	63398	31514	38261	55207	26436	30071	89762	46841	66376	121297	65762	97911
SF60-1100 SR3	78878	34854	49217	63881	35266	34219	107340	56957	82519	145551	79884	120730

AST-Air start torque 气压起点扭矩
SST-Spring start torque 弹簧起点扭矩

ART-Air run torque 气压运行扭矩
SRT-Spring run torque 弹簧运行扭矩

AET-Air end torque 气压终点扭矩
SET-Spring end torque 弹簧终点扭矩

扭矩表 Torque Sheet

弹簧复位型 Spring Return Acting (SR4 气源压力4Bar 用弹簧 Spring For Air Pressure is 4Bar)
对称拨叉 Symmetrical Yoke

Nm

型号 Model	弹簧扭矩 Spring Torque			输出扭矩 Output Torque 气压 Air Pressure (MPa)								
				0.3			0.4			0.5		
	SST	SRT	SET	AST	ART	AET	AST	ART	AET	AST	ART	AET
SF10-150SR4	230	115	153	155	70	78	250	127	173	361	193	284
SF10-170SR4	293	148	201	198	91	106	320	164	228	464	251	372
SF12-170SR4	369	184	246	252	114	129	402	204	278	585	314	462
SF12-200SR4	526	267	364	330	149	168	540	275	378	794	428	632
SF14-200SR4	679	346	436	391	162	151	671	341	428	945	495	705
SF14-250 SR4	1079	543	674	634	270	267	1056	530	651	1506	793	1139
SF14-300 SR4	1477	752	948	934	404	412	1544	793	1015	2195	1160	1673
SF16-250 SR4	1281	651	818	807	339	324	1345	691	882	1893	990	1409
SF16-300 SR4	1896	968	1227	1130	485	486	1888	963	1219	2701	1428	2058
SF16-350 SR4	2595	1310	1629	1554	644	594	2611	1327	1645	3700	1932	2740
SF25-350 SR4	2996	1517	1895	1907	788	722	3193	1706	2092	4472	2328	3288
SF25-400 SR4	3960	2013	2534	2598	1095	1053	4112	2107	2686	5959	3111	4413
SF25-450 SR4	4955	2466	2999	3500	1584	1781	5412	2749	3456	7762	4141	6043
SF30-450 SR4	6329	3146	3820	3780	1450	1186	6461	3228	3952	8974	4606	6379
SF30-500 SR4	7929	3967	4869	4704	1826	1383	7824	3902	4763	11128	5680	7807
SF30-550 SR4	9375	4814	5824	5975	2479	2287	9534	4708	5983	13759	7149	10071
SF35-550 SR4	12297	6131	7481	7484	3307	3539	12066	5988	7250	17358	9231	13413
SF35-600 SR4	14449	7241	8907	8657	3769	3906	14356	7183	8813	20427	10830	15675
SF35-700 SR4	19069	9491	11549	13252	6154	7262	20114	10140	12594	29307	15787	23317
SF40-600 SR4	16357	8926	10272	11032	4600	4301	17976	8256	11888	25247	13184	18517
SF40-700 SR4	21426	10879	13666	15444	6745	7041	24782	12960	17023	35119	18398	26461
SF40-800 SR4	30015	15120	18757	19372	8244	8108	31461	16016	20203	44798	23500	33534
SF48-800 SR4	33844	16948	20827	22038	9318	9021	38254	19417	25237	51918	27245	38901
SF48-900 SR4	45789	23344	29097	28877	12085	11407	45677	23146	28986	66763	34817	49293
SF48-1000 SR4	57348	28690	35200	36329	15013	13714	57115	28546	34968	83164	43114	60549
SF60-800 SR4	47118	23238	27842	29373	12290	13926	51918	26214	32642	69553	37097	54105
SF60-900 SR4	63398	31514	38261	40105	17047	16720	62685	31072	37548	91094	47640	67708
SF60-1000 SR4	78878	39048	49217	44962	19531	20141	75409	38220	45747	108032	57373	83211
SF60-1100 SR4	95891	47761	58177	59509	25878	26750	92620	45733	54906	135392	71731	103732

AST-Air start torque 气压起点扭矩
SST-Spring start torque 弹簧起点扭矩

ART-Air run torque 气压运行扭矩
SRT-Spring run torque 弹簧运行扭矩

AET-Air end torque 气压终点扭矩
SET-Spring end torque 弹簧终点扭矩

扭矩表 Torque Sheet

弹簧复位型 Spring Return Acting (SR5 气源压力5Bar 用弹簧 Spring For Air Pressure is 5Bar)
对称拨叉 Symmetrical Yoke

Nm

型号 Model	弹簧扭矩 Spring Torque			输出扭矩 Output Torque 气压 Air Pressure (MPa)								
				0.4			0.5			0.6		
	SST	SRT	SET	AST	ART	AET	AST	ART	AET	AST	ART	AET
SF10-150SR5	293	148	201	210	98	118	303	154	211	416	222	324
SF10-170SR5	383	193	260	271	126	149	391	198	269	538	286	415
SF12-170SR5	487	244	327	338	155	178	483	242	323	671	354	511
SF12-200SR5	699	346	454	473	71	227	677	332	431	936	488	691
SF14-200SR5	789	402	506	597	276	324	877	456	594	1151	609	878
SF14-250 SR5	1345	670	815	917	412	448	1347	671	818	1798	935	1320
SF14-300 SR5	1880	957	1206	1337	609	692	1908	975	1235	2598	1365	1953
SF16-250 SR5	1553	795	1011	1159	533	617	1692	881	1150	2245	1184	1703
SF16-300 SR5	2421	1202	1455	1626	744	855	2438	1213	1472	3197	1687	2426
SF16-350 SR5	3194	1637	2085	2166	941	971	3215	1744	2106	4312	2228	3116
SF25-350 SR5	3960	2013	2534	2689	1149	1143	3826	2044	2400	5255	2689	3709
SF25-400 SR5	4955	2466	2999	3829	1782	2110	5309	2685	3352	7190	3798	5471
SF25-450 SR5	6326	3117	3726	4752	2197	2573	6788	3402	4188	9013	4754	6834
SF30-450 SR5	7929	3968	4869	5455	2277	2134	7892	4001	4922	10649	5393	7327
SF30-500 SR5	9375	4712	5824	7147	3182	3459	10042	5125	6490	13571	7036	9883
SF30-550 SR5	11426	5741	7092	8306	3651	3863	12106	6162	7772	16090	8321	11647
SF35-550 SR5	14449	7241	8907	10750	5025	5999	15527	7909	9984	20624	10949	15873
SF35-600 SR5	18185	8971	10752	12707	5827	6718	18327	9058	10894	24477	12889	18487
SF35-700 SR5	23864	11772	14109	18654	8873	10923	25470	12767	15715	34710	18506	26979
SF40-600 SR5	21426	10879	13666	14745	6326	6342	21644	11014	13884	28961	14856	20558
SF40-700 SR5	30015	15120	18757	20074	8665	8811	29304	14679	18046	39495	20318	28232
SF40-800 SR5	35425	17702	21679	28917	13276	15336	41095	21218	27349	54343	28532	40763
SF48-800 SR5	45789	23214	29097	31836	13842	14336	44755	22574	28063	61685	31770	44215
SF48-900 SR5	57348	28690	35200	41849	18324	19233	58269	29261	36121	79735	41056	57120
SF48-1000 SR5	69602	34789	42618	49356	22203	24653	72776	36756	45792	96191	50304	71488
SF60-800 SR5	63398	31515	38261	43980	19372	20595	61439	30300	36302	84160	43480	60774
SF60-900 SR5	78878	39710	49217	52335	23954	27514	76967	38524	47305	103324	54548	78503
SF60-1000 SR5	95891	47761	58177	71015	32781	38256	97605	48824	59891	134084	70623	101326
SF60-1100 SR5	112369	57081	71764	80728	35559	37801	116733	59787	76127	157151	81412	114224

AST-Air start torque 气压起点扭矩
SST-Spring start torque 弹簧起点扭矩

ART-Air run torque 气压运行扭矩
SRT-Spring run torque 弹簧运行扭矩

AET-Air end torque 气压终点扭矩
SET-Spring end torque 弹簧终点扭矩

扭矩表 Torque Sheet

弹簧复位型 Spring Return Acting (SR6 气源压力6Bar 用弹簧 Spring For Air Pressure is 6Bar)
对称拨叉 Symmetrical Yoke

Nm

型号 Model	弹簧扭矩 Spring Torque			输出扭矩 Output Torque 气压 Air Pressure (MPa)								
				0.5			0.6			0.7		
	SST	SRT	SET	AST	ART	AET	AST	ART	AET	AST	ART	AET
SF10-150SR6	383	193	260	254	115	131	345	170	222	464	239	343
SF10-170SR6	489	242	319	346	156	175	463	227	293	617	316	448
SF12-170SR6	526	267	364	467	232	305	608	316	446	805	432	645
SF12-200SR6	818	407	541	617	287	340	816	406	538	1089	571	815
SF14-200SR6	1028	512	623	711	316	344	1037	518	633	1274	649	911
SF14-250 SR6	1477	752	948	1223	577	702	1648	857	1118	2207	1161	1692
SF14-300 SR6	2291	1162	1458	1661	741	810	2280	1156	1447	3090	1588	2250
SF16-250 SR6	1896	968	1227	1487	699	844	2018	1043	1348	2713	1426	2078
SF16-300 SR6	2595	1310	1629	2264	1071	1305	3044	1588	2077	4045	2126	3097
SF16-350 SR6	3858	1954	2446	2878	1294	1435	3914	2102	2502	5273	2712	3848
SF25-350 SR6	4955	2466	2999	3523	1598	1804	4633	2403	2677	6376	3288	4678
SF25-400 SR6	6326	3117	3726	4631	2124	2451	6243	3065	3643	8028	4134	5876
SF25-450 SR6	8261	4024	4720	5779	2641	3025	7897	3799	4357	10091	5191	7371
SF30-450 SR6	9375	4712	5824	7283	3263	3595	9598	4850	6046	12549	6379	8907
SF30-500 SR6	11426	5741	7092	8798	3946	4355	11962	6064	7613	15314	7801	10927
SF30-550 SR6	14080	6952	8344	10923	5071	5983	14694	7332	8957	18815	9742	13937
SF35-550 SR6	18185	8970	10752	13852	6514	7863	18569	9209	11136	23864	12439	17950
SF35-600 SR6	22471	10908	12716	15967	7261	8236	22179	10727	12424	27907	14323	20273
SF35-700 SR6	28953	14335	17288	22104	10059	11427	30207	15112	18543	38388	19693	27846
SF40-600 SR6	26630	13472	16828	18086	7695	7566	25544	12799	15471	32524	16226	22137
SF40-700 SR6	35425	17702	21679	26617	11896	13036	35995	18056	22248	46316	23549	32907
SF40-800 SR6	47742	23883	29300	36348	16304	17999	46029	22821	28593	62120	31560	44003
SF48-800 SR6	57348	28690	35200	40774	17680	18159	53420	26257	31275	71083	35608	49632
SF48-900 SR6	69602	34788	42618	50401	22830	25698	69545	34753	42561	88848	45562	68454
SF48-1000 SR6	82680	41743	51976	63947	29404	34069	86497	42250	55793	111455	57506	87784
SF60-800 SR6	78878	39710	49217	54943	25519	30122	70724	34468	40762	91614	47145	67106
SF60-900 SR6	95891	47761	58177	72347	33580	39588	93243	46119	55529	124034	64174	92334
SF60-1000 SR6	112369	57081	71764	85557	38456	42630	115175	58821	74570	149541	76299	116923

AST-Air start torque 气压起点扭矩 ART-Air run torque 气压运行扭矩 AET-Air end torque 气压终点扭矩
SST-Spring start torque 弹簧起点扭矩 SRT-Spring run torque 弹簧运行扭矩 SET-Spring end torque 弹簧终点扭矩

扭矩表 Torque Sheet

弹簧复位型 Spring Return Acting (SR3 气源压力3Bar 用弹簧 Spring For Air Pressure is 3Bar)
偏心拨叉 Canted Yoke 故障关闭 Air Failure Close

Nm

型号 Model	弹簧扭矩 Spring Torque			输出扭矩 Output Torque 气压 Air Pressure (MPa)								
				0.3			0.4			0.5		
	SST	SRT	SET	AST	ART	AET	AST	ART	AET	AST	ART	AET
SF10/C-150SR3	162	100	152	260	100	113	399	167	207	538	234	301
SF10/C-170SR3	200	125	197	336	133	156	515	220	278	695	306	399
SF12/C-170SR3	247	157	239	431	173	201	658	283	354	885	393	508
SF12/C-200SR3	320	205	315	619	255	305	934	408	518	1250	561	732
SF14/C-200SR3	442	268	391	718	271	297	1093	451	550	1467	631	803
SF14/C-250 SR3	677	425	662	1140	452	527	1748	745	938	2356	1037	1350
SF14/C-300 SR3	899	560	859	1752	709	847	2632	1132	1442	3513	1556	2037
SF16/C-250 SR3	891	534	773	1467	551	603	2222	912	1113	2977	1274	1623
SF16/C-300 SR3	1238	756	1136	2109	816	929	3203	1339	1668	4297	1863	2407
SF16/C-350 SR3	1615	1004	1564	2844	1131	1332	4330	1843	2337	5817	2555	3341
SF25/C-350 SR3	1942	1209	1931	3338	1349	1581	5116	2201	2783	6894	3054	3984
SF25/C-400 SR3	2700	1651	2472	4236	1606	1776	6499	2691	3306	8763	3777	4835
SF25/C-450 SR3	3443	2096	3108	5400	2034	2232	8271	3411	4172	11142	4788	6112
SF30/C-450 SR3	4721	2838	4118	6242	2192	2177	9741	3869	4541	13240	5546	6905
SF30/C-500 SR3	5141	3129	4655	8175	3094	3420	12503	5168	6344	16831	7242	9269
SF30/C-550 SR3	5701	3456	5100	10464	4084	4694	15709	6597	8237	20953	9110	11781
SF35/C-550 SR3	7384	4520	6879	12825	5007	5782	19466	8183	10267	26107	11359	14752
SF35/C-600 SR3	9729	6016	9326	14126	5341	5929	22042	9126	11275	29958	12912	16621
SF35/C-700 SR3	11867	7356	11458	20575	8137	9548	31374	13301	16841	42172	18465	24134
SF40/C-600 SR3	11996	7412	11436	16900	6327	6914	26469	10907	13378	36038	15487	19841
SF40/C-700 SR3	14696	8877	13090	25702	9893	11206	38774	16149	20035	51846	22406	28865
SF40/C-800 SR3	19070	11615	17420	33358	12959	14847	50472	21150	26407	67585	29341	37967
SF48/C-800 SR3	23094	14676	23483	36450	14465	16841	56648	24178	30497	76845	33892	44152
SF48/C-900 SR3	29956	18876	27570	48486	18075	20652	74096	30392	37967	99706	42708	55282
SF48/C-1000 SR3	38008	24154	38649	55245	21524	24510	86904	36751	45915	118564	51977	67320
SF60/C-800 SR3	31941	19916	32039	47846	18571	21462	74777	31400	39637	101709	44230	57811
SF60/C-900 SR3	39992	24777	39391	62022	24064	27798	96198	40345	50861	130375	56625	73925
SF60/C-1000 SR3	51009	31902	51604	73756	28512	32787	116030	48650	61316	158305	68788	89845
SF60/C-1100 SR3	64258	39812	63294	88585	33392	37194	139809	57794	71762	191034	82196	106331

AST-Air start torque 气压起点扭矩 ART-Air run torque 气压运行扭矩 AET-Air end torque 气压终点扭矩
SST-Spring start torque 弹簧起点扭矩 SRT-Spring run torque 弹簧运行扭矩 SET-Spring end torque 弹簧终点扭矩

扭矩表 Torque Sheet

弹簧复位型 Spring Return Acting (SR4 气源压力4Bar 用弹簧 Spring For Air Pressure is 4Bar)
偏心拨叉Canted Yoke 故障关闭 Air Failure Close

Nm

型号Model	弹簧扭矩 Spring Torque			输出扭矩Output Torque 气压Air Pressure (MPa)								
				0.3			0.4			0.5		
	SST	SRT	SET	AST	ART	AET	AST	ART	AET	AST	ART	AET
SF10/C-150SR4	200	125	197	214	75	74	353	142	168	492	208	262
SF10/C-170SR4	253	161	257	273	98	100	453	184	221	632	270	343
SF12/C-170SR4	320	205	315	352	125	124	578	235	277	805	345	431
SF12/C-200SR4	456	295	466	461	164	162	777	317	376	1093	470	590
SF14/C-200SR4	587	366	561	542	174	146	916	354	399	1291	534	652
SF14/C-250 SR4	899	560	859	935	317	295	1544	609	706	2152	902	1117
SF14/C-300 SR4	1277	795	1219	1378	474	453	2259	897	1048	3139	1321	1643
SF16/C-250 SR4	1126	690	1046	1185	394	358	1940	756	868	2695	1117	1378
SF16/C-300 SR4	1615	1004	1564	1667	568	537	2761	1091	1276	3855	1615	2015
SF16/C-350 SR4	2265	1391	2119	2271	743	656	3757	1455	1660	5244	2167	2664
SF25/C-350 SR4	2700	1651	2472	2779	907	792	4557	1760	1993	6335	2612	3195
SF25/C-400 SR4	3443	2096	3108	3578	1161	1001	5841	2246	2531	8105	3332	4060
SF25/C-450 SR4	3981	2443	3681	4806	1687	1672	7677	3064	3612	10548	4441	5552
SF30/C-450 SR4	5701	3456	5100	5228	1574	1156	8727	3251	3520	12226	4928	5884
SF30/C-500 SR4	7125	4296	6269	6507	1927	1354	10835	4001	4279	15163	6075	7203
SF30/C-550 SR4	8106	4913	7250	8242	2626	2191	13486	5140	5734	18731	7653	9278
SF35/C-550 SR4	9729	6016	9326	10301	3512	3345	16942	6687	7830	23583	9863	12315
SF35/C-600 SR4	11867	7356	11458	11927	4001	3707	19843	7787	9053	27759	11572	14399
SF35/C-700 SR4	14520	8949	13789	18170	6544	6791	28968	11708	14084	39767	16872	21377
SF40/C-600 SR4	14696	8877	13090	15193	4863	4107	24762	9443	10570	34331	14023	17034
SF40/C-700 SR4	19070	11615	17420	21232	7155	6657	34304	13411	15486	47375	19668	24316
SF40/C-800 SR4	25924	15836	23890	26679	8737	7719	43793	16929	19279	60906	25120	30839
SF48/C-800 SR4	29956	18876	27570	32249	10265	9674	52446	19979	23329	72643	29693	36985
SF48/C-900 SR4	38008	24154	38649	37097	12796	12240	62707	25113	29555	88317	37430	46870
SF48/C-1000 SR4	48076	30223	45237	48472	15455	13992	80131	30682	35397	111790	45908	56802
SF60/C-800 SR4	39992	24777	39391	40286	13710	13129	67217	26539	31304	94148	39368	49478
SF60/C-900 SR4	51009	31902	51604	49463	16940	16393	83639	33220	39457	117816	49501	62521
SF60/C-1000 SR4	64258	39812	63294	61735	20602	19074	104009	40740	47602	146283	60878	76131
SF60/C-1100 SR4	75276	46937	75507	76026	26268	25789	127251	50669	60358	178475	75071	94926

AST-Air start torque 气压起点扭矩 ART-Air run torque 气压运行扭矩 AET-Air end torque 气压终点扭矩
SST-Spring start torque 弹簧起点扭矩 SRT-Spring run torque 弹簧运行扭矩 SET-Spring end torque 弹簧终点扭矩

扭矩表 Torque Sheet

弹簧复位型 Spring Return Acting (SR5 气源压力5Bar 用弹簧 Spring For Air Pressure is 5Bar)
偏心拨叉Canted Yoke 故障关闭 Air Failure Close

Nm

型号Model	弹簧扭矩 Spring Torque			输出扭矩Output Torque 气压Air Pressure (MPa)								
				0.4			0.5			0.6		
	SST	SRT	SET	AST	ART	AET	AST	ART	AET	AST	ART	AET
SF10/C-150SR5	253	161	257	290	106	111	429	173	205	568	239	299
SF10/C-170SR5	331	209	333	374	135	140	554	222	262	734	308	383
SF12/C-170SR5	422	270	419	470	169	170	697	279	324	924	389	477
SF12/C-200SR5	606	383	580	658	229	218	974	382	432	1290	535	646
SF14/C-200SR5	677	425	662	812	295	306	1186	475	559	1561	655	812
SF14/C-250 SR5	1119	693	1052	1343	476	477	1952	769	888	2560	1061	1299
SF14/C-300 SR5	1580	984	1509	1959	709	732	2840	1132	1327	3720	1555	1922
SF16/C-250 SR5	1359	844	1306	1940	602	627	2695	963	1137	3450	1325	1647
SF16/C-300 SR5	1975	1232	1934	2379	863	901	3473	1387	1640	4567	1910	2379
SF16/C-350 SR5	2866	1766	2707	3151	1080	1035	4637	1792	2039	6123	2504	3043
SF25/C-350 SR5	3443	2096	3108	3899	1315	1218	5677	2167	2420	7456	3020	3621
SF25/C-400 SR5	3981	2443	3681	5248	1899	1971	7512	2985	3500	9775	4070	5030
SF25/C-450 SR5	5137	3166	4808	6512	2342	2407	9383	3719	4347	12254	5095	6287
SF30/C-450 SR5	7125	4296	6269	7519	2411	2038	11018	4088	4402	14517	5765	6766
SF30/C-500 SR5	8106	4913	7250	9821	3383	3258	14149	5457	6182	18478	7532	9106
SF30/C-550 SR5	10105	6170	9242	11428	3882	3652	16672	6396	7196	21917	8909	10739
SF35/C-550 SR5	11867	7356	11458	14743	5348	5608	21384	8524	10093	28024	11699	14579
SF35/C-600 SR5	14520	8949	13789	17438	6194	6296	25353	9979	11643	33269	13765	16989
SF35/C-700 SR5	18289	11218	17136	25516	9439	10167	36314	14603	17461	47112	19768	24754
SF40/C-600 SR5	19070	11615	17420	20292	6705	6021	29860	11285	12485	39429	15864	18948
SF40/C-700 SR5	25924	15836	23890	27625	9190	8358	40696	15447	17187	53768	21703	26017
SF40/C-800 SR5	30659	18653	27913	39640	14112	14354	56753	22303	25914	73867	30494	37474
SF48/C-800 SR5	38008	24154	38649	41057	14701	14917	61255	24415	28573	81452	34128	42228
SF48/C-900 SR5	48076	30223	45237	55934	19044	19038	81544	31361	36352	107154	43678	53667
SF48/C-1000 SR5	56128	35501	56315	68742	25403	26986	100402	40629	48391	132061	55856	69795
SF60/C-800 SR5	51009	31902	51604	54658	19415	19899	81589	32244	38074	108521	45073	56248
SF60/C-900 SR5	64258	39812	63294	71618	25310	25744	105795	41590	48807	139971	57871	71871
SF60/C-1000 SR5	75276	46937	75507	91450	33615	36198	133724	53753	64727	175999	73891	93255
SF60/C-1100 SR5	90742	56466	90500	111832	41141	44350	163056	65542	78919	214281	89944	113487

AST-Air start torque 气压起点扭矩 ART-Air run torque 气压运行扭矩 AET-Air end torque 气压终点扭矩
SST-Spring start torque 弹簧起点扭矩 SRT-Spring run torque 弹簧运行扭矩 SET-Spring end torque 弹簧终点扭矩

扭矩表 Torque Sheet

弹簧复位型 Spring Return Acting (SR6 气源压力6Bar 用弹簧 Spring For Air Pressure is 6Bar)

偏心拨叉Canted Yoke 故障关闭 Air Failure Close

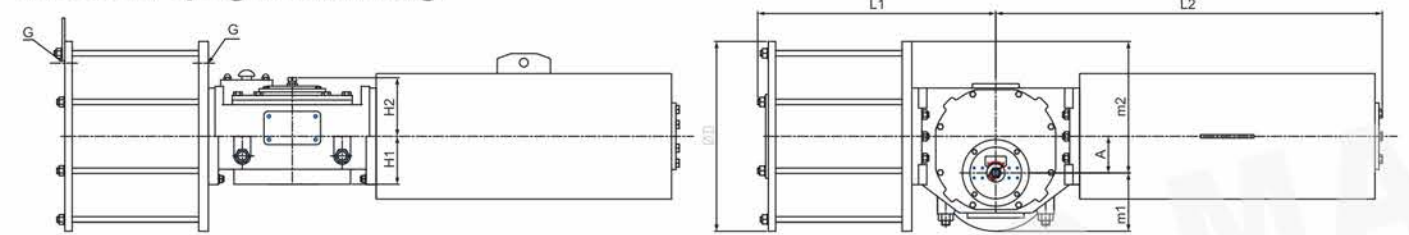
Nm

型号Model	弹簧扭矩 Spring Torque			输出扭矩Output Torque 气压Air Pressure (MPa)								
				0.5			0.6			0.7		
	SST	SRT	SET	AST	ART	AET	AST	ART	AET	AST	ART	AET
SF10/C-150SR6	331	209	333	351	124	124	490	191	218	629	258	312
SF10/C-170SR6	423	263	407	477	168	166	657	254	287	836	340	409
SF12/C-170SR6	456	295	466	648	255	288	874	365	442	1101	474	595
SF12/C-200SR6	709	451	691	858	314	324	1174	467	537	1490	620	751
SF14/C-200SR6	900	560	859	982	339	326	1356	519	579	1731	699	832
SF14/C-250 SR6	1277	795	1219	1779	667	723	2387	959	1134	2995	1251	1546
SF14/C-300 SR6	2022	1252	1899	2435	864	864	3315	1287	1459	4196	1710	2055
SF16/C-250 SR6	1615	1004	1564	2160	804	870	2915	1165	1380	3670	1527	1890
SF16/C-300 SR6	2265	1391	2119	3282	1227	1339	4376	1751	2078	5470	2275	2817
SF16/C-350 SR6	3391	2082	3165	4164	1477	1492	5650	2188	2496	7136	2900	3501
SF25/C-350 SR6	3981	2443	3681	5084	1821	1860	6862	2673	3061	8640	3526	4263
SF25/C-400 SR6	5137	3166	4808	6347	2262	2295	8610	3348	3825	10874	4433	5355
SF25/C-450 SR6	6587	4069	6265	7877	2816	2837	10748	4192	4777	13619	5569	6717
SF30/C-450 SR6	8106	4913	7250	10004	3471	3381	13503	5148	5745	17002	6824	8109
SF30/C-500 SR6	10105	6170	9242	12091	4200	4100	16419	6274	7025	20747	8348	9949
SF30/C-550 SR6	11635	7156	10872	14988	5410	5602	20233	7923	9146	25477	10437	12689
SF35/C-550 SR6	14520	8949	13789	18978	6930	7337	25619	10106	11822	32260	13282	16307
SF35/C-600 SR6	18289	11218	17136	21901	7710	7726	29816	11496	13072	37732	15281	18418
SF35/C-700 SR6	24784	15143	22959	30307	10678	10712	41106	15842	18005	51904	21006	25298
SF40/C-600 SR6	24150	14744	22219	24907	8155	7202	34475	12735	13665	44044	17315	20129
SF40/C-700 SR6	30659	18653	27913	36544	12630	12263	49615	18886	21093	62687	25143	29922
SF40/C-800 SR6	39335	23663	34598	49852	17293	16891	66966	25484	28451	84080	33675	40011
SF48/C-800 SR6	48076	30223	45237	54481	18346	18055	74679	28059	31711	94876	37773	45366
SF48/C-900 SR6	56128	35501	56315	70155	26083	27941	95765	38399	45256	121375	50716	62571
SF48/C-1000 SR6	66620	42184	67049	89367	33947	37430	121026	49173	58834	152685	64399	80239
SF60/C-800 SR6	64258	39812	63294	69568	24333	24360	96499	37162	42535	123430	49992	60709
SF60/C-900 SR6	75276	46937	75507	93236	34466	37403	127412	50747	60467	161589	67027	83531
SF60/C-1000 SR6	90742	56466	90500	118306	44225	48719	160580	64363	77248	202855	84501	105776

AST-Air start torque 气压起点扭矩 ART-Air run torque 气压运行扭矩 AET-Air end torque 气压终点扭矩
SST-Spring start torque 弹簧起点扭矩 SRT-Spring run torque 弹簧运行扭矩 SET-Spring end torque 弹簧终点扭矩

外形尺寸表 Outline Dimension

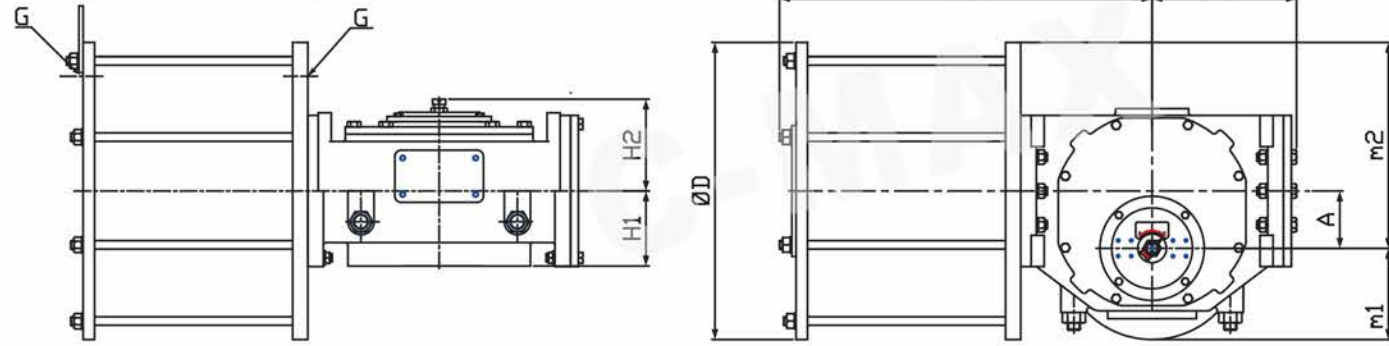
弹簧复位型 Spring Return Acting



型号Model	连接法兰 Connect Flange	L1	L2	m1	m2	A	H1	H2	D	G
SF10-150SR3-6	ISO 5211 F10	350	467	76	143.5	40	82	100	207	NPT1/4"
SF10-170SR3-6		350	467	76	155.5	40	82	100	231	NPT3/8"
SF12-170SR3-6	ISO 5211 F12	391	510	82	165.5	50	84	110	231	NPT3/8"
SF12-200SR3-6		391	510	82	165.5	50	84	110	255	NPT3/8"
SF14-200SR3-6	ISO 5211 F14	446	618	89	188	60	95	121	255	NPT3/8"
SF14-250 SR3-6		446	618	89	215	60	95	121	310	NPT1/2"
SF14-300 SR3-6		446	618	89	242.5	60	95	121	356	NPT1/2"
SF16-250 SR3-6	ISO 5211 F16	513	774	105	230	75	107	139	310	NPT1/2"
SF16-300 SR3-6		513	774	105	257.5	75	107	139	365	NPT1/2"
SF16-350 SR3-6		513	774	105	282.5	75	107	139	415	NPT1/2"
SF25-350 SR3-6	ISO 5211 F25	592	940	150	297.5	90	118	160	415	NPT1/2"
SF25-400 SR3-6		597	940	150	318	90	118	160	456	NPT3/4"
SF25-450 SR3-6		605	940	150	348	90	118	160	516	NPT3/4"
SF30-450 SR3-6	ISO 5211 F30	715	1165	175	368	110	144	176	516	NPT3/4"
SF30-500 SR3-6		715	1165	175	395	110	144	176	570	NPT3/4"
SF30-550 SR3-6		715	1165	175	420	110	144	176	620	NPT3/4"
SF35-550 SR3-6	ISO 5211 F35	833	1511	207.5	450	140	181	194	620	NPT3/4"
SF35-600 SR3-6		851	1511	207.5	475	140	181	194	670	NPT1"
SF35-700 SR3-6		851	1511	207.5	525	140	181	194	770	NPT1"
SF40-600 SR3-6	ISO 5211 F40	982	1760	237.5	505	170	196	216	670	NPT1"
SF40-700 SR3-6		982	1760	237.5	555	170	196	216	770	NPT1"
SF40-800 SR3-6		986	1760	237.5	610	170	196	216	880	NPT1.1/2"
SF48-800 SR3-6	ISO 5211 F48	1131	2283	280	640	200	224	243	880	NPT1.1/2"
SF48-900 SR3-6		1151	2283	280	695	200	224	243	990	NPT2"
SF48-1000SR3-6		1151	2283	280	745	200	224	243	1090	NPT2"
SF60-800 SR3-6	ISO 5211 F60	1395	3025	343	710	270	230	258	880	NPT1.1/2"
SF60-900 SR3-6		1415	3025	343	765	270	230	258	990	NPT2"
SF60-1000 SR3-6		1415	3025	343	815	270	230	258	1090	NPT2"
SF60-1100 SR3-6		1415	3025	343	865	270	230	258	1190	NPT2"

外形尺寸表 Outline Dimension

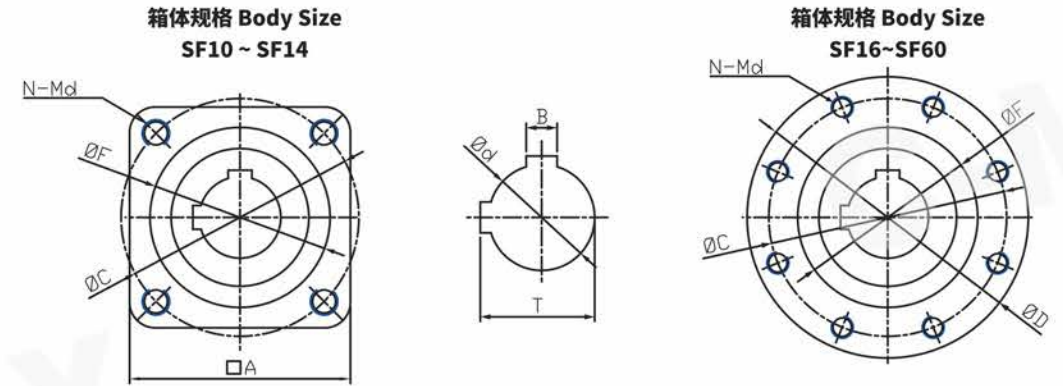
双动作型 Double Acting



型号 Model	连接法兰 Connect Flange	L1	L2	m1	m2	A	H1	H2	D	G
SF10-150DA	ISO 5211 F10	350	127	76	143.5	40	82	100	207	NPT1/4"
SF10-170DA		350	127	76	155.5	40	82	100	231	NPT3/8"
SF12-170DA	ISO 5211 F12	391	143	82	165.5	50	84	110	231	NPT3/8"
SF12-200DA		391	143	82	178	50	84	110	255	NPT3/8"
SF14-200DA	ISO 5211 F14	446	173	89	188	60	95	121	255	NPT3/8"
SF14-250 DA		446	173	89	215	60	95	121	310	NPT1/2"
SF14-300 DA		446	173	89	242.5	60	95	121	356	NPT1/2"
SF16-250DA	ISO 5211 F16	513	198	112	230	75	107	139	310	NPT1/2"
SF16-300DA		513	198	112	257.5	75	107	139	365	NPT1/2"
SF16-350DA		513	198	112	282.5	75	107	139	415	NPT1/2"
SF25-350DA	ISO 5211 F25	592	227	150	297.5	90	118	160	415	NPT1/2"
SF25-400DA		597	227	150	318	90	118	160	456	NPT3/4"
SF25-450DA		605	227	150	348	90	118	160	516	NPT3/4"
SF30-450DA	ISO 5211 F30	715	277	175	368	110	144	176	516	NPT3/4"
SF30-500DA		715	277	175	395	110	144	176	570	NPT3/4"
SF30-550DA		715	277	175	420	110	144	176	620	NPT3/4"
SF35-550DA	ISO 5211 F35	833	334	207.5	450	140	181	194	620	NPT3/4"
SF35-600DA		851	334	207.5	475	140	181	194	670	NPT1"
SF35-700DA		851	334	207.5	525	140	181	194	770	NPT1"
SF40-600DA	ISO 5211 F40	982	401	237.5	505	170	196	216	670	NPT1"
SF40-700 DA		982	401	237.5	555	170	196	216	770	NPT1"
SF40-800 DA		986	401	237.5	610	170	196	216	880	NPT1.1/2"
SF48-800 DA	ISO 5211 F48	1131	455	280	640	200	224	243	880	NPT1.1/2"
SF48-900 DA		1151	455	280	695	200	224	243	990	NPT2"
SF48-1000DA		1151	455	280	745	200	224	243	1090	NPT2"
SF60-800 DA	ISO 5211 F60	1395	567	343	710	270	230	258	880	NPT1.1/2"
SF60-900 DA		1415	567	343	765	270	230	258	990	NPT2"
SF60-1000 DA		1415	567	343	815	270	230	258	1090	NPT2"
SF60-1100 DA		1415	567	343	865	270	230	258	1190	NPT2"

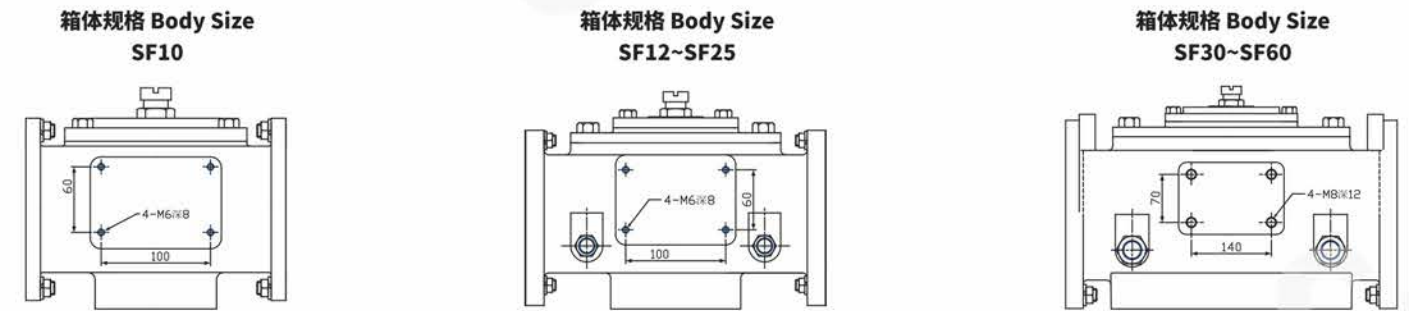
连接尺寸 Connection Dimension

底部法兰尺寸 Bottom flange dimension



箱体代号 Body Code	D	A	C	F	N-Md	d	B	T
SF10		100	102	70	4-M10	28	8	31.3
SF12		115	125	85	4-M12	36	10	39.3
SF14		130	140	100	4-M16	48	14	51.8
SF16	210		165	130	4-M20	60	18	64.4
SF25	300		254	200	8-M16	72	20	76.9
SF30	350		298	230	8-M20	98	28	104.4
SF35	415		356	260	8-M30	160	40	169.4
SF40	475		406	300	8-M36	180	45	190.4
SF48	560		483	370	12-M36	200	45	210.4
SF60	603		603	470	20-M36	280	63	292.4

气动附件安装尺寸 Installation dimensions of pneumatic accessories



定位器及限位开关安装尺寸 Installation dimensions of positioner and limit switch

