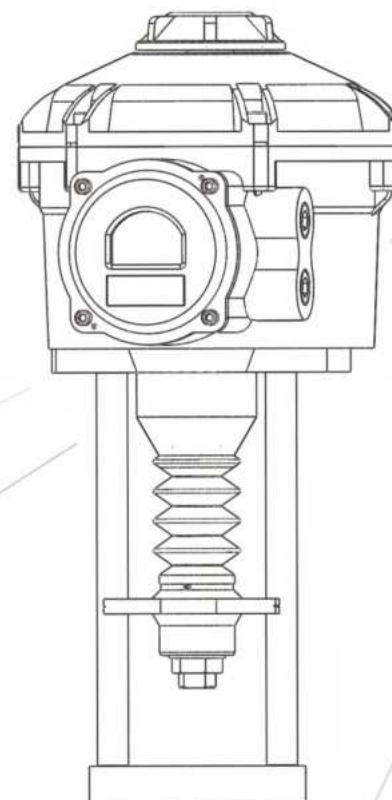


INTELLIGENT ELECTRIC ACTUATOR 电动执行器

为您提供最佳的解决方案
To provide you with the best solution



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Viber : 008613777771223

ICQ: 652452871

Website: <http://www.valvespro.com>



APPLICATION CASE

工程案例

- | | | | | | |
|---|---|---|---|---|--|
| 大庆油田
Daqing Oilfield | 福建联盛纸业有限公司
Fujian Liansheng Paper Co., Ltd. | 邯鄲矿业集团陶二矿
Handan mining group tao'er branch | 湖北江汉热电厂
Hubei Jianghan Cogeneration Co., Ltd. | 陕西龙钢集团
Shanxi Longgang Steel Group | 东莞玖龙纸业
Dongguan Nine Dragons Paper Industries Co., Ltd. |
| 杭州湾洁源环保科技有限公司
Hangzhou wanjieyuan environment technology Co., Ltd. | 江苏银珠集团有限公司
Jiangsu Yinzhu Group Co., Ltd. | 山西长治荫城红旗煤业
Shanxi Changzhi yingcheng Hongqi Coal mining | 河北承德市兴隆热力有限公司
Hebei Chengde Xinglong Heating Co., Ltd. | 江苏沙钢集团
Jiangsu Shagang Steel Group | 广西来宾华锡冶炼公司
Guangxi Laibinhua tin smelting company |
| 山东博润实业有限公司
Shandong Borun Industrial Co., Ltd. | 新疆玛纳斯化纤有限公司
Xinjiang Manas chem-fiber Co., Ltd. | 山西西山煤电
Shanxi Xishan Coal Mine | 河北武安亿丰热电有限公司
Hebei Wuan Yifeng Cogeneration Co., Ltd. | 珠海粤裕丰钢铁公司
Zhuhai Yueyufeng Steel Company | 邢台龙海钢铁集团
Xingtai Longhai Steel Group |
| 金城化学(江苏)有限公司
Jincheng Chemical (Jiangsu) Co., Ltd. | 云南瑞气化工有限公司
Yunnan Ruiqi Chemical Industrial Co., Ltd. | 山西宏源煤业郭家山矿
Shanxi Hongyuan mining Guojiaoshan plant | 山东泰安鲁邦大河热电有限公司
Shandong Tai'an Lubang River Cogeneration Co., Ltd. | 南京钢铁联合有限公司
Nanjing Iron & Steel United Co., Ltd. | 湖南聚力催化股份
Hunan Jiali Catalyst Co., Ltd. |
| 云南陆良银河纸业
Yunnan Luliang Galaxy Paper Co., Ltd. | 河北永诚铸业有限公司
Hebei Yongcheng Casting Co., Ltd. | 新疆赛尔能源有限公司
Xinjiang Xcel Energy Ltd. | 宇光能源长春高新热电厂
Yuguang Energy Changchun high-tech power plant | 江西中冶京城九钢
Jiangxi MCC capital nine steel | 乌兰察布市江河余热发电厂
Wulanchabu jianghe heat power co.,Ltd. |
| 河北天柱钢铁集团有限公司
Hebei Tianzhu Iron and Steel Group Co., Ltd. | 山东洪业化工集团股份
Shandong Hongye Chemical Stock Group. | 西联供热有限公司
Western Union Heating supply co.,Ltd | 河北邢台丰球铁有限公司
Xingtai Iron and Steel Co., Ltd. | 柳州钢铁公司
Liuzhou Iron and Steel Company | 神木集团山西红柳林矿
Shenmu Coal Group Shanxi Luliin plant |
| 新疆哈密火石泉第二电厂
XINJIANG HAMI HUOSHISUAN second thermal power plant | 河北武安钢铁集团
Hebei Wuan Iron and Steel Group. | 山西星原集团特钢有限公司
Shanxi Xingyuan Steel Group Co., Ltd. | 吉林生活垃圾焚烧发电厂
Jilin garbage incineration power plant | 石家庄钢铁有限责任公司
Shijiazhuang Steel co., Ltd. | 山西汾西矿业沙东煤矿
Shanxi Fenxi Mining East coal plant |
| 天津荣程钢铁公司
Tianjin Rongcheng Iron and Steel Company | 中盐人造板有限公司
Zhongshan Salt-man-made Panel Co., Ltd. | 扬州泰达环保有限公司
Yangzhou TEDA Environmental Protection Co., Ltd. | 河津焦化热电厂
Kaiyuezi coking Cogeneration Power Company | 武钢平煤联合焦化公司
Wugang Pingmei United Coking Company | 新疆神华乌东煤矿
Xinjiang Shenhua Udon coal mine |
| 河北承德盛丰钢铁有限公司
Hebei Chengde Sheng Feng Steel Co., Ltd. | 中钢荣信节能发电公司
SINO Steel RONGXIN energy-saving generating Co., Ltd. | 海南中航特玻材料有限公司
Hainan Airlines Special Glass Materials Co., Ltd. | 河北衡水垃圾焚烧发电厂
Hebei Hengshui waste incineration power plant | 四川泸州北方动力公司
Sichuan Luzhou North Power Supply Co., Ltd. | 微山崔庄煤矿有限责任公司
Weishan Cui Coal-Power Co., Ltd. |
| 邢台德龙钢铁动力分厂
Xingtai Delong Steel power plant | 潍坊昌隆能源有限公司
WEIFANG CHANGLONG HEAT POWER CO., LTD | 山东传洋集团
Shandong Chuan Yang Group | 徐州金牛山铸业有限公司
Xuzhou Jinshu Casting Co., Ltd. | 福建德盛镍业有限公司
Fujian Desheng Nickel Industry Co., Ltd. | 郑煤集团超化煤矿
Zhengmei Group Chaocha Coal Mine |
| 营口嘉晨燃化有限公司
Yingkou Jiachen ranthua co.,Ltd | 武安鑫汇冶金工业有限公司
Wuan xinhui Metallurgy Industry Co., Ltd. | 河南赵家寨矿
Henan zhaojiazai mining co.,Ltd. | 焦作江河纸业有限公司
Jiaozuo River Paper Co., Ltd. | 广州珠江水泥有限公司
Guangzhou Pearl Cement Co., Ltd. | 徐州集团新疆天山矿业
Xuzhou Mining Group Xinjiang Tianshan mining plant |
| 云南开远解化集团
Yunnan Kaiyuan Jiehua Group | 武安裕华钢铁有限公司
Wuan Yu Hua Steel Co., Ltd. | 内蒙古赛蒙特力煤业
Naimengguo saimengteer Coal | 福建炼油化工有限公司
Fujian Petrochemical Co., Ltd. | 镇江大东纸业
Zhenjiang Dadong Paper Co., Ltd. | 山东德州绿能电力有限公司
Shandong Dezhou Lvneng Power Co., Ltd. |
| 汉川福星热电有限公司
Hanchuan Fuxing Cogeneration Co., Ltd. | 秦皇岛安丰钢铁有限公司
Qinhuangdao An Feng Steel Co., Ltd. | 江苏丹阳长丰纸业
Jiangsu Danyang Changfeng Paper Co. | 温州泵阀工程研究院
Wenzhou valve Engineering Research Institute | 无锡万利化工有限公司
Wuxi Wanli Co. | 文登西郊热电有限公司
Wendeng Xijiao Cogeneration Co., Ltd. |
| 阳春新钢铁公司
Yangchun New Iron and Steel Company | 邯鄲金鼎重工股份有限公司
Handan Jinding Heavy Industry Joint Stock Company | 新疆天富东热电厂
Xinjiang Tianfudong Power Plant | 山西河津电力有限公司
Shanxi Hejin Electric Power Co., Ltd. | 河北金源化工股份有限公司
Hebei Jinyuan Chemical Co., Ltd. | 河北永诚钢厂
Hebei Yongcheng Steel plant |
| 青海齐鲁化工
Qinghai Qilu Chemical | 滕州市太原煤矿石热电厂有限公司
Tengzhou City Taiyuan Stone Coal Thermal Power Co., Ltd. | 德州绿能电力有限公司
Dezhou Lvneng Electric Power Co., Ltd. | 秦皇岛鹤翔化工有限公司
Qinhuangdao Hefengxiang Chemical Co., Ltd. | | |



产品性能特点: Product Features

- 多种工作组态选择, 灵活方便;
Variety of operating configuration options, flexible and convenient;

控制信号: Control signal:	电流信号 (4~20mA或其它非标准信号) current signal (4 ~ 20mA or other non-standard signals) 电压信号 (0~10V或其它非标准信号) Voltage signal (0-10V or other non-standard signals) 可进行正反作用选择, 轻松实现分程控制模式。 Positive and negative effects can be selected easily split range control mode.
输出信号: Output signal:	电流信号 (4~20mA或其它非标准信号) current signal (4 ~ 20mA or other non-standard signals) 电压信号 (0~10V或其它非标准信号) Voltage signal (0-10V or other non-standard signals)
通信接口: Communication interface:	RS485 / HART / FF/
流量特性: Flow characteristics:	线性、快开、慢开、自定义 linear, quick open, slow open, custom
阀门作用方向: direction of action:	正、反作用选择 positive / negative

- 中英文液晶显示: 菜单操作, 人机交互更加人性化; 使用更简单;
English LCD Display: Menu operation, human-computer interaction more humane; easier to use;
- 行程自整定: 创新了机械设计, 行程位置调节简便快捷, 输入信号与行程关系自适应整定, 满足不同行程阀门的需要;
Stroke: Innovative mechanical design, the stroke position adjustment is quick and easy travel between the input signal and adaptive tuning, to meet the different needs of the valve stroke;
- 自诊断功能: 执行器在运行过程中自动记录工作参数。当执行器发生故障时, 主控模块及时发现并报警, 故障显示在液晶显示屏上, 并通过开关信号传递给控制中心;
Self-diagnosis function: Actuator records operating parameters during automatic operation. When the actuator fails, the control module timely detects and alarms, fault display on the LCD screen, and transmits the signal to the control center.
- 操作更加简便: 创新了结构设计, 主控电路模块外接, 无需打开机壳就能方便操作。远程控制/就地控制按键切换。手动操作更加轻松, 手轮安全可靠、省力、体积小; 不通电时, 扳动离合器手柄可进行手动操作; 通电时, 离合器自动复位;
Operation easier: Innovative structural design, external control circuit module, without opening the case will be able to facilitate the operation. Remote Control / local control buttons to switch. Manual operation easier, the handwheel safe, reliable, saving, small size; is not energized, the clutch lever can be pulled manually operated; When energized, the clutch automatic will be reset;
- 控制电路更加可靠: 电机驱动采用无触点控制, 无火花、寿命长; 宽电源适应范围, 380V电源机型相位自适应, 用户无需担心相位接错; 电路模块全数字控制, 无机械电位器的存在, 用户不用担心机械振动和运输对产品精度的影响; 采用先进的抗干扰技术, 即使恶劣环境也从容应对, 全新的“看门狗”技术远离“死机”的困扰;
Control circuit is more reliable: The motor drive control using non-contact, no spark, long life; wide range of power to adapt, 380V power supply phase adaptive models, users no need to worry about choose the wrong phase; digital control circuit module; no mechanical potentiometers existence, the user need not worry about mechanical vibration and the impact of transport on the accuracy of the product; using advanced anti-jamming technology, even harsh environment calmly, new "watchdog" technology keep away from the "crash".
- 执行器运动方向反转延时保护, 动力传动部件寿命更长;
Actuator movement direction is with reversed delay protection, transmission components are longer life.
- 更低的工作噪音。
lower operating noise.

XSL智能型执行器控制模块

XSL Intelligent actuator control module



XSL智能直行程电动执行机构采用单片微处理器和外围芯片组成智能化的控制单元。接收标准4~20mA直流信号(或分程信号、电压信号),经信号处理及A/D转换送至微处理器,微处理器将处理后的数据送至LCD显示器调节结果,运算处理后产生的控制信号驱动交流减速电机,变速后带动传动丝杆,产生机械行程,经位置检测反馈送至微处理器进行数据处理,完成“信号与位置”对应关系的动作。

XSL smart straight stroke electric actuator using single-chip microprocessor and peripheral chips intelligent control unit. Receiving standard 4~20mA current signal (or sub-process signal, the voltage signal), after signal processing and A/D conversion to the microprocessor, the microprocessor transfer the processed data to the LCD monitor to display. The arithmetic processed signal control and drive the AC permanent magnet synchronous motor, and then the screw after shifting, resulting in mechanical stroke, the position detector is feed to a microprocessor for data processing, complete "signal and position" correspondence action.

XSL系列选型表:
XSL Series Selection Table

型 号 (MODEL)	推力 (THRUST) KN	速度 (SPEED) mm/s	行程 (TRAVEL) mm	电源 (POWER SUPPLY) V	功耗 (POWER CONSUMPTION) W	过力保护 (TORQUE PROTECTION)	手动机构 (MANUAL OPERATION)	控制信号 (CONTROL SIGNAL)	防爆防护 等级 (EXPLOSION PROTECTION CLASS)	遥控 (REMOTE CONTROL)	重 量 (WEIGHT) Kg		
XSL102	2.0	1.0	40	①220V AC	6	机械力矩 (MECHANICAL TORQUE)	有 (YES)	① 4~20mA ② 0~5V ③ 0~10V	IP65	无 (NO)	6		
XSL103	3.0				10								
XSL104	4.0				15								
XSL202	2.0	1.2	50	①220V AC ②380V AC ③24V DC ④ 其他 (OTHERS)	10	电子力矩 (ELECTRICAL TORQUE)			IP67		8		
XSL204	4.0				15								
XSL208	8.0		50/ 60		25						10		
XSL210	10.0				40								
XSL312	12.0	1.0	100		90			① 4~20mA ② 0~10V ③ 485通信 (COMMUN- ICATION) ④ 其他 (OTHERS)	IP65	选配 (OPTIONAL ACCESSORIES)	24.5		
XSL314	14.0				100								
XSL316	16.0				110								
XSL320	20.0				130								
XSL325	25.0				130								
XSL402	2.0	1.0	40		6				ExdⅡBT4 ExdⅡCT4		10		
XSL404	4.0				15								
XSL408	8.0	1.2	60		25						15		
XSL410	10.0				40								

XSL100系列

XSL100 Series



XSL100系列特点:

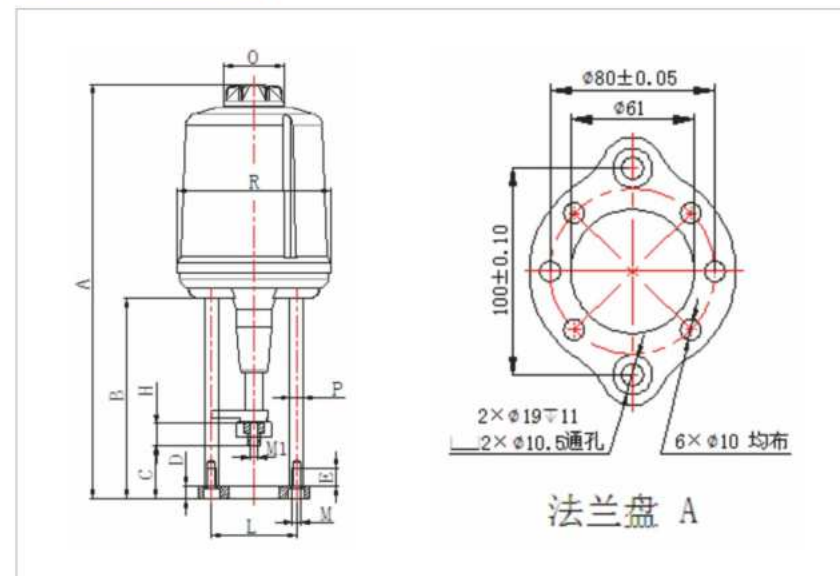
XSL100 Series Features

- 1、机械力矩保护功能，让执行器和阀门更安全、更可靠；
- 2、多控制信号选择（4-20mA；0-5V；0-10V），适应不同信号接口上位机；
- 3、阀门状态LED显示，直观清晰，简洁明了；
- 4、无需繁琐的菜单参数设置，即装即用；
- 5、阀门行程一键智能校准，无需调节行程限位开关；
- 6、更高效的装配速度；

- 1、Mechanical Torque Protection Function, makes the actuator and valve more secure.
- 2、Multiple control signal selection (4-20mA; 0-5V; 0-10V), adapt to different signal interface PC.
- 3、LED display valve status, clear and intuitive.
- 4、Without complicated menu parameter settings, ready to use in an instant.
- 5、One key to smart alignment of Valve travel, no need to adjust travel limit switch, improve the assembly efficiency.
- 6、More efficient assembly.

XSL100系列外形尺寸图:

XSL100 Series Outline Dimensional drawing



XSL100系列外形尺寸表:

XSL100 Series Dimension Table

型号 (MODEL)	外形尺寸 (DIMENSIONS)													法兰盘 (FLANGE)
	A	B	C	D	E	F	H	O	L	M	P	R	M1	
XSL102	485	235	62	15	20	40	25	φ70	100	M10	φ16	φ180	M10	A
XSL103	485	235	62	15	20	40	25	φ70	100	M10	φ20	φ180	M10	A
XSL104	485	235	62	15	20	40	25	φ70	100	M10	φ20	φ180	M10	A

注：C点为执行器关闭最低点！
Note: C point is the lowest point of closed actuator!

XSL200、300系列

XSL200、300 Series



XSL 200 300系列特点:

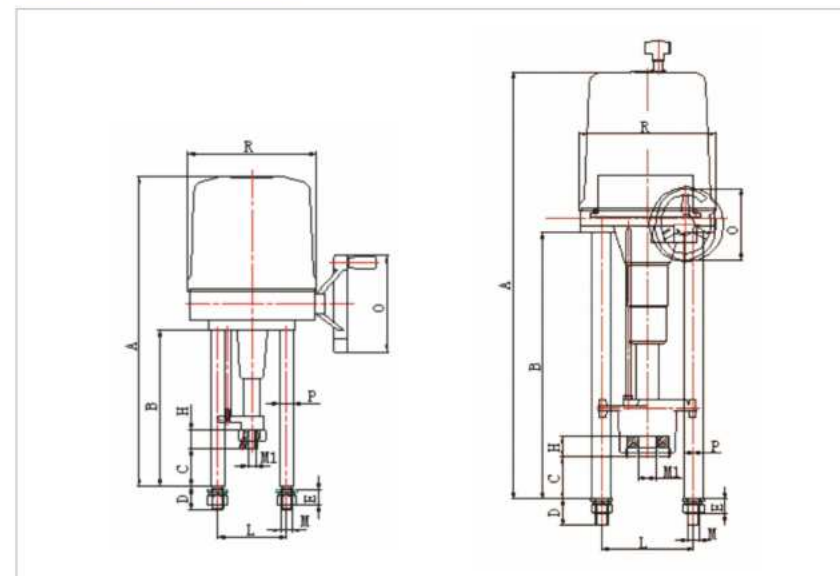
XSL 200 300 Series Features

- 1、手轮侧装型执行器；
- 2、手轮优先模式，防止人为误操作；
- 3、电子力矩保护功能，让执行器和阀门更安全、更可靠；
- 4、阀门行程一键智能校准，无需调节行程限位开关；
- 5、多控制信号选择（4~20mA；0~5V；0~10V），适应不同信号接口的上位机；
- 6、液晶中英文显示，更加友好的人机交互界面；
- 7、更好的控制性能和更高的可靠性；
- 8、三相电源机型相位自适应；
- 9、modbus、hart、profibus总线接口可选（需定制）；

- 1、Hand wheel side-mounted actuator.
- 2、Hand wheel priority mode, to prevent human error actions.
- 3、Mechanical Torque Protection Function, makes the actuator and valve more secure.
- 4、One key to smart alignment of Valve travel, no need to adjust travel limit switch.
- 5、Multiple control signal selection (4~20mA; 0~5V; 0~10V), adapt to different signal interface PC.
- 6、LCD display both in English and Chinese, more friendly human-computer interface.
- 7、Better control performance and greater reliability.
- 8、Three-phase power supply models, phase self-adaption.
- 9、modbus、hart、profibus bus interface to choose (customized according to requirements).

XSL200 300系列外形尺寸图:

XSL 200 300 Series Outline Dimensional drawing



XSL 200 300系列外形尺寸表:

XSL 200 300 Series Dimension Table

型号 (MODEL)	外型尺寸 (DIMENSIONS)												
	A	B	C	D	E	F	H	O	L	M	P	R	M1
XSL202	460	235	65	35	20	50	25	φ100	100	M16	φ20	φ186	M10
XSL204													
XSL208													
XSL210													
XSL312	717	449	70	45	25	100	40	φ120	155	M20	φ32	φ232	M16*1.5
XSL314													
XSL316													
XSL320													
XSL325													

注：C点为执行器关闭最低点！
Note: C point is the highest point of opened actuator!

XSL400系列

XSL400 Series



XSL 400系列特点:

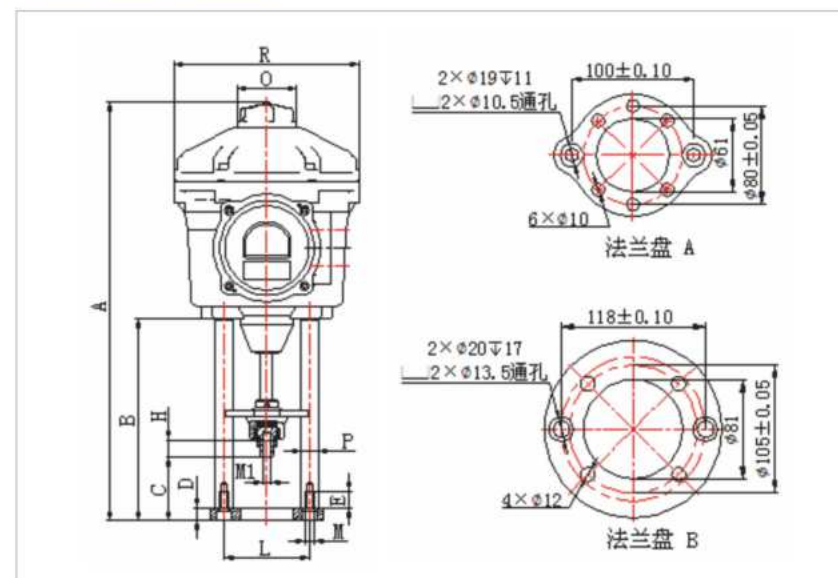
XSL 400 Series Features

- 1、防爆型执行器；
- 2、电子力矩保护功能，让执行器和阀门更安全、更可靠；
- 3、阀门行程一键智能校准，无需调节行程限位开关；
- 4、多控制信号选择（4~20mA；0~5V；0~10V），适应不同信号接口的上位机；
- 5、液晶中英文显示，更加友好的人机交互界面；
- 6、就地/远程操作切换，轻松方便；
- 7、执行器防入侵式设计，自带红外遥控接收器，无需开盖即可完成调试，提高装配效率；
- 8、更好的控制性能和更高的可靠性；
- 9、三相电源机型相位自适应；
- 10、modbus、hart、profibus总线接口可选（需定制）；

1. Explosion-proof type actuator.
2. Electrical Torque Protection Function, makes the actuator and valve more secure.
3. One key to smart alignment of Valve travel, no need to adjust travel limit switch.
4. Multiple control signal selection (4~20mA; 0~5V; 0~10V), adapt to different signal interface PC.
5. LCD display both in English and Chinese, more friendly human-computer interface.
6. Easy switching between Local/remote operation.
7. The actuator use Anti-Intrusion design, come with IR remote receiver, can finish debugging without open the cover, which improve the assembly efficiency.
8. Better control performance and greater reliability.
9. Three-phase power supply models, phase self-adaption.
10. modbus, hart, profibus bus interface to choose (customized according to requirements)

XSL400系列外形尺寸图:

XSL 400 Series Outline Dimensional drawing



XSL 400系列外形尺寸表:

XSL 400 Series Dimension Table

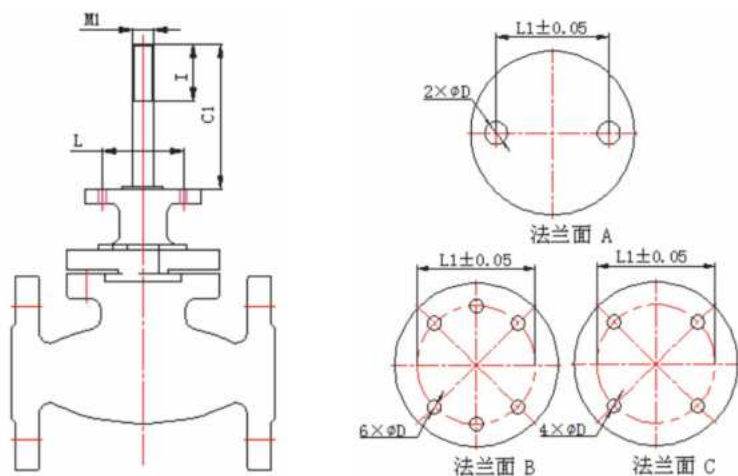
型 号 (MODEL)	外 型 尺 寸 (DIMENSIONS)													法兰盘 (FLANGE)
	A	B	C	D	E	F	H	O	L	M	P	R	M1	
XSL402	490	235	75	15	20	40	20	φ70	100	M10	φ16	φ216	M10	A
XSL404														
XSL408	535	290	80	25	20	60	25	φ100	118	M12	φ20	φ268	M12	B
XSL410														

注：C点为执行器关闭最低点！
Note: C point is the highest point of opened actuator!

执行器与阀门连接

Actuator and Valve connection

- 图中【法兰面】安装法兰请参考下面表格内容,按图加工。
In the picture【Flange】, mount flange please refer to the table of contents below, process according to the picture.
- 图中与【法兰面】安装配套的法兰盘用户自备,按图加工,与调节阀之连接螺孔及尺寸与执行器匹配。
In the picture【Flange】, mounting flange prepared by user, process according to the picture, the screw to connect with control valve and size should be match to the actuator.
- 图中与【法兰面】安装配套的法兰盘也可为用户定制与执行机构成套提供,但用户必须提供所配调节阀型号或连接尺寸。
In the picture【Flange】, mounting flange can also to be customized for the user, provide along with the actuator, but the user must provide the control valve's model or connecting dimension.



代号(CODE) 型号(MODEL)	M1	I (mm)	C1 (mm)	L (mm)	法兰盘 (FLANGE)	L1 (mm)	D (mm)
XSL102-104	M10	40	85	80	B	±80	6 × ±10
XSL202-204	M10	50	100	100	A	±100	2 × ±17
XSL208-210	M12	50	90	100	A	±100	2 × ±17
XSL312-325	M16*1.5	65	135	155	A	±155	2 × ±22
XSL402-404	M10	50	95	80	B	±80	6 × ±10
XSL408-410	M12	50	105	105	C	±105	4 × ±12

注意: C1为阀门关闭后高度
Note: C1 is the height after valve closed