

新一代SLP系列

电动执行机构

天伯牌®

ELECTRIC ACTUATORS



Accredited by
Member of
the IAF & PAC
MLA for QMS

Registration No.: CNAB009-Q

天津津伯仪表技术有限公司

Tianjin JINBO Instrument Technique Co., Ltd

(原天津市自动化仪表七厂)

(Tianjin Automatic Instrument No.7 Factory)

SLP系列部分回转阀门电动装置

SERIES SLP PART-TURN VALVE ELECTRIC ACTUATORS



SLP30机座基本型与蝶阀组合

SLP30 Body base basic model with butterfly valve



SLP30机座防爆型与风门组合

SLP30 Body base Ex-proof model with air door



SLP90机座整体型与球阀组合

SLP90 Body base integrated model with ball valve



SLP90机座整体防爆型与球阀组合

SLP90 Body base integrated Ex-proof model with ball valve



SLP120机座基本型与蝶阀组合

SLP120 Body base basic model with butterfly valve



SLP300机座防爆型与蝶阀组合

SLP300 Body base Ex-proof model with butterfly valve



SLP800机座现场转换型与蝶阀组合

SLP800 Body base local change-over model with butterfly valve

SLP系列电动装置与 阀门组合实例

Examples for combining series
SLP electric actuator with valve

■ SLP系列电动执行机构是本公司在综合同类产品特点的基础上新研制的一档独立式部分回转电动执行机构产品。它适用于蝶阀、球阀、旋塞阀等阀瓣90°回转阀门的自动化控制,可实现被控阀门的现场和远距离操作。该产品可广泛应用于石油、化工、冶金、造纸、建筑、市政工程、火电水电等使用管道阀门的工业领域。

■ SLP系列产品的基本型为户外型,其防护等级为IP67(需IP68应在订货时提出)。产品也可制成防爆型,其隔爆等级为ExdⅡBT4(需要更高防爆等级应在订货时提出)。

■ SLP系列产品有6个机座号,分别为SLP30、SLP90、SLP120、SLP300、SLP800、SLP1600,输出转矩范围从50~16000Nm。

■ SLP系列产品的设计与技术指标符合JB/T8528-1997《普通型阀门电动装置技术条件》。防爆型产品的隔爆性能符合GB3836.1-2000《爆炸性气体环境用电气设备 第一部分:通用要求》和GB3836.2-2000《爆炸性气体环境用电气设备 第二部分:隔爆型“d”》的规定,并具有防爆审查机构颁发的合格证。

Series SLP electric actuator is a kind of new independent model part-turn electric actuator products based on synthesizing the similar products. It applies to automatically control the butterfly valve, ball valve and cock valve etc. 90° turn valves. It can perform the local and remote operating for the controlled valve. It is widely used in such industries using pipeline as Petroleum, chemical industry, metallurgical industry, construction, municipal works, papermaking, fire power station and water power station etc.

The basic model of series SLP products is outdoors model, the protection class is IP67 (If IP68 is required, please direct it when ordering.). The products also can be manufactured to Ex-proof model, the Ex-proof class is ExdⅡBT4 (If the higher Ex-proof class is required, please direct it when ordering.)

Series SLP products have six body base No., that are, SLP30, SLP90, SLP120, SLP300, SLP800 and SLP1600. The scope of the output torque is from 50 N.m to 16000 N.m

The designation and the technical performances of series SLP products accord with JB/T8528-1997 <Technical conditions for general type valve electric actuator>. The Ex-proof performance of the Ex-proof model product accords with GB3836.1-2000 <Electrical apparatus explosive gas atmospheres-part 1: general requirements> and <Electrical apparatus explosive gas atmospheres-Part 2 Flameproof enclosure "d". And it has the certificate of quality by the Ex-proof examine organ.

■ SLP系列产品根据用户的不同需求可提供多种功能,具体型式如下:

Series SLP product can provide varies of functions according to the differential requirements of the users. The detailed models as follows:

SLP□□-□	—基本型 Basic model
SLP□□-□L	—带现场控制按钮型(简称:一般现场型) With local controlling button model (Shorter form - General local model)
SLP□□-□LIC	—带现场控制按钮、现场/远控转换开关、指示灯型(简称:现场、转换型) With local controlling button, local/remote change-over switch and indicating lamp model (Shorter form - Local change-over model)
SLP□□-□IN	—整体控制型(简称:整体型) Integrated controlling model (Shorter form - Integration model)
SLP□□-□Ex	—基本防爆型(简称:防爆型) Basic Ex-proof model (Shorter form - Ex-proof model)
SLP□□-□ExLIC	—防爆型带现场控制按钮、现场/远控转换开关、指示灯(简称:现场、转换防爆型) Ex-proof model with local controlling button, local changeover switch and indicating lamp (Shorter form - Local change-over and Ex-proof model)
SLP□□-□ExIN	—防爆整体控制型(简称:整体防爆型)

Ex-proof integrated controlling model (Shorter form - Integrated Ex-proof model)

型号所表示的内容

Means of the types

SLP □□-□ □

除基本型外产品提供的附加功能
Provided auxiliary function expect for basic model products

输出转矩速 (r/min)

Output rotational speed (r/min)

输出转矩, 用一到四位数字表示 (kgf.m)

Output torque, indicated by from one-figure number to four-figure number

系列代号

Series No

举例: SLP120-11N

For example: SLP120-11N

该型号电动执行机构为部分回转, 输出转矩 1200N.m (120kgf.m), 输出转速 1r/min, 带与主机一体的控制器即整体型。

This type electric actuator is, part-turn, the output torque 1200 N.m (120kgf.m), the output rotational speed 1r/min., and equipped with the controller integrated with the main body that namely integration model.

SLP系列电动执行机构型号中的“附加功能”有时在实际需求上有变化, 如有的用户需 4~20mA DC 阀位反馈信号或能接收 4~20mA 信号, 有的需要行程或转矩控制的辅助触点和无源接点等, 这些均应在产品订货中注明。

The additional functions of series SLP electric actuator types sometimes have been changed on actual requirements. For example, some users require 4~20mA DC valve position feedback signal or that it can receive 4~20mA signal. Some require limit or torque controlling auxiliary contacts and the passive terminals etc. These should be directed in the products ordering.

由于 SLP 系列是一种新研制的, 所以它在结构设计和系列转矩档次上都有较大变化, 具体如下:

For series SLP is a kind of new electric actuator. So the construction design and torque classifying have been changed a lot. The details as follows

- 注意外观质量与良好的转矩性能使之更适合我国电动阀门具体使用情况。

The outward appearance quality and perfect torque performance are noticed for applying to the concrete operating conditions of the electric valve in China.

- 主箱体等壳体件可为铸铁或铸铝, 适应不同用户选择。

The case of the housing can be casting iron and casting aluminum applying to the different users selection.

- 有较大的输出转速范围并且一些规格可保证自锁, 能满足不同的管道控制工艺要求。

It has a large scope of output rotational speed and self-locked for some types that can meet the needs of different pipeline controlling technique requirements.

- 增设新的机座, 避免较小转矩产品的组合形式和较大产品用在较小转矩时体积与重量过大的问题, 使之与阀门的匹配更合理安全。

Add the new body base to avoid the problem that the volume and the weight are too much when it is the smaller torque combined form product and the larger torque products used on the smaller torque.

- 适当扩大控制腔, 以适应增设电气控制无源触点, 单相电机用容、阀位反馈信号用 VOT 等电器元件。

Widen the controlling cavity properly to adapt the added electric components of the electric controlling passive contacts, the capacitor used for the single-phase motor and VOT used for the valve position feedback signal etc.

- 主箱体增设辅助部件套接口方便派生防爆型、整体型、整体防爆型等产品。

Add the interfaces of the auxiliary parts in the housing, that is convenient for deriving the Ex-proof model, the integration model and the integrated ex-proof model.

- 推出现场、转换开关型、整体型、整体防爆型等产品, 提升经济型产品的技术水平, 使用户能选择到性能优良、功能齐全、价格合理的产品。

Develop the unit parts for the local changeover switch model, the integration model and the integrated Ex-proof model to improve the technical Ex-proof level of the economic products to make the users select the products with the excellent performance, the fully functions and the reasonable price.

推荐使用规格主要技术参数

The main technical parameter of recommend types

机座号 Body base No.	项 目 Item	规 格 Type	输出转矩 Output torque (Nm)	输出转速 Input rotational speed (r/min)	电动机参数(三相, 380V, 50Hz) Parameters of motor(Three-phase)		90° 全行程 时 间 Full travel time (S)	基本型整 机重量 Weight of basic model (kg)
					参考功率(KW) Reference power	额定电流(A) Rated power		
SLP30		SLP5-1	50	1.0	0.04	0.26	15.0	23
		SLP10-1	100		0.06	0.40		
		SLP15-1	150		0.09	0.60		
		SLP20-1	200		0.09	0.60		
		SLP30-1	300		0.12	0.70		
SLP90		SLP40-0.5	400	0.5	0.09	0.60	30.0	42
		SLP40-1		1.0	0.18	0.95	15.0	
		SLP60-0.5	600	0.5	0.12	0.70	30.0	
		SLP60-1		1.0	0.18	0.95	15.0	
		SLP90-0.5	900	0.5	0.18	0.95	30.0	
		SLP90-1		1.0	0.25	1.30	15.0	
SLP120		SLP100-0.5	1000	0.5	0.25	1.30	30.0	56
		SLP100-1		1.0	0.37	1.60	15.0	
		SLP120-0.5	1200	0.5	0.25	1.30	30.0	
		SLP120-1		1.0	0.37	1.60	15.0	
SLP300		SLP200-0.5	2000	0.5	0.37	1.60	30.0	70
		SLP200-1		1.0	0.55	1.40	15.0	
		SLP250-0.5	2500	0.5	0.37	1.60	30.0	
		SLP250-1		1.0	0.55	2.40	15.0	
		SLP300-0.5	3000	0.5	0.55	1.40	30.0	
SLP800		SLP400-0.25	4000	0.25	0.37	1.60	60.0	145
		SLP400-0.5		0.5	0.55	2.40	30.0	
		SLP600-0.25	6000	0.25	0.55	2.40	60.0	
		SLP600-0.5		0.5	1.10	3.40	30.0	
		SLP800-0.25	8000	0.25	1.10	3.40	60.0	
SLP1600		SLP800-0.5	10000	0.5	1.50	4.50	30.0	220
		SLP1000-0.3	12000	0.30	1.50	4.50	50.0	
		SLP1200-0.3		0.30	1.50	4.50	50.0	
		SLP1600-0.2	16000	0.20	1.50	4.50	75.0	

注: 1.表中仅提供了380V三相电机时相关参数, 额定电压下电机堵转电流之比的保证值为7, 其容差为保证值的+20%, 当使用产品为单相220V电机时其参数详见产品随机文件及铭牌。

Notes: This sheet provides the related parameters of 380V three-phase motor only. The guarant value of the ratio between the motor blocking current and the rated current is 7 at the rated voltage. The allowance is 20% of the guarant value. When the operating product is single-phase, the parameters to the product documents and the shipping mark.

可选高转速规格主要技术参数

The main technical parameter of optional high rotational speed types

机座号 Body base No.	项 目 Item Type	输出转矩 Output torque (Nm)	输出转速 Output rotational speed (r/min)	电动机参数(三相, 380V, 50Hz) Parameters of motor(Three-phase)		90° 全行程 时 90° Full travel time (S)	基本型重 机重量 Weight of basic model (kg)
				参考功率(KW) Reference power	额定电流(A) Rated current		
SLP30	SLP5-2	50	2.0	0.06	0.40	7.5	23
	SLP5-3		3.0	0.06	0.40	5.0	
	SLP5-4		4.0	0.09	0.60	3.75	
	SLP5-5		5.0	0.12	0.70	3.0	
	SLP10-2	100	2.0	0.09	0.60	7.5	
	SLP10-3		3.0	0.12	0.70	5.0	
	SLP10-4		4.0	0.18	0.95	3.75	
	SLP10-5		5.0	0.25	1.30	3.0	
	SLP20-2	200	2.0	0.12	0.70	7.5	
	SLP20-3		3.0	0.18	0.95	5.0	
SLP90	SLP20-4		4.0	0.25	1.30	3.75	
	SLP30-2	300	2.0	0.18	0.95	7.5	42
	SLP30-3		3.0	0.25	1.30	5.0	
	SLP20-5	200	5.0	0.37	1.60	3.0	
	SLP30-4	300	4.0	0.37	1.60	3.75	
	SLP60-2	600	2.0	0.25	1.30	7.5	
	SLP60-3		3.0	0.37	1.60	5.0	
	SLP90-2	900	2.0	0.37	1.60	7.5	
	SLP90-3	900	3.0	0.55	2.40	5.0	
	SLP90-4		4.0	0.75	2.72	3.75	
SLP120	SLP120-2		2.0	0.55	2.40	7.5	56
	SLP120-3		3.0	0.75	2.72	5.0	
	SLP200-2	2500	2.0	0.75	2.72	7.5	
	SLP200-3		3.0	1.10	3.40	5.0	
SLP250	SLP250-2		2.0	1.10	3.40	7.5	70
	SLP250-3		3.0	1.50	4.50	5.0	
SLP800	SLP400-1	4000	1.0	0.75	2.72	15	145
	SLP400-2		2.0	1.50	4.50	7.5	
	SLP600-1	6000	1.0	1.50	4.50	15	

注: 1.表中仅提供了380V三相电机时相关参数, 额定电压下电机堵转电流之比的保证值为7。

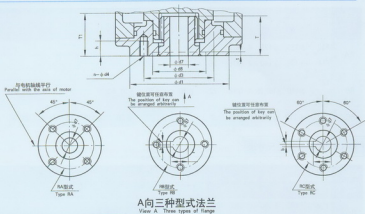
其容差为保证值的+20%, 当使用产品为单相220V电机时其参数详见产品随机文件及铭牌。

2.产品转速较高时一些规格会产生不自锁, 当产品必须自锁时请在订货中提出以便采取相应措施。

Notes: 1. This sheet provides the related parameters of 380V three-phase motor only. The guarant value of the ratio between the motor blocking current and the rated current is 7 at the rated voltage. The allowance is 20% of the guarant value. When the operating product is single-phase, the parameters to the product documents and the shipping mark.

2. When the rotational speed is too fast, some of the specifications can be un-locked. When the product must be locked, please direct direct it in the ordering it in the ordering to take appropriate measures.

SLP30—SLP300机座产品与阀门连接法兰型式及尺寸



SLP30(SLP30Ex)法兰尺寸表

SLP30(SLP30Ex)Dimensions sheet of flange

法兰型式 Type of flange	法兰号或 阀门口径 Flange No. or valve or size	ϕd_1	ϕd_3	$n-\phi d_4$	h	ϕd_7		b	L	T	T1
						标称尺寸 Nominal dimension	最大允许 Max. admissible dimension				
RA	F07	$\phi 90$	$\phi 70$	4-M8	15	$\phi 32$	/	/	/		
	F10	$\phi 125$	$\phi 102$	4-M10	20						
RB	2"					$\phi 10$					
	2.5"	$\phi 77$	$\phi 57.15$	4-M6	14	$\phi 22$	$\phi 12.7$	3	14.1	45	48
	3"										
	4"						$\phi 15.8$		18.1		
	5"	$\phi 92$	$\phi 69.85$	4-M10	20	$\phi 32$	$\phi 19$	5	21.22		
	6"										

SLP90(SLP90Ex)法兰尺寸表

SLP90(SLP90Ex)Dimensions sheet of flange

法兰型式 Type of flange	法兰号或 阀门口径 Flange No. or valve or size	ϕd_1	ϕd_3	$n-\phi d_4$	h	ϕd_7		ϕd_8 (+0)	t	b	L	T	T1
						标称尺寸 Nominal dimension	最大允许 Max. admissible dimension						
RA	F10	$\phi 125$	$\phi 102$	4-M10	20	$\phi 15$	$\phi 32$	/	/	/	/		
	F12	$\phi 150$	$\phi 125$	4-M12	22			/	/	/	/		
	F14	$\phi 175$	$\phi 140$	4-M16	25			/	/	/	/		
RB	8"	$\phi 115$	$\phi 88.9$			$\phi 20$	$\phi 42$	$\phi 22.1$	/	5	24.4	57	65
	10"			4-M12	22			$\phi 28.45$	/	/	31.75		
	12"	$\phi 140$	$\phi 107.95$					$\phi 31.60$	/	8	34.6		
	14"								/	/	/		
RC	Q60	$\phi 170$	$\phi 140$	6-M10				$\phi 28$	$\phi 110$	7	8	31.3	

SLP120(SLP120Ex)法兰尺寸表

SLP120(SLP120Ex)Dimensions sheet of flange

法兰型式 Type of flange	法兰号或 阀门口径 Flange No. or valve orifice	ϕ d1	ϕ d3	n- ϕ d4	h	ϕ d7			ϕ d8 (H8)	t	b	L	T	T1
						预留尺寸 Reserved dimensions	最大允许 允许最大 尺寸 Maximum allowable dimensions	标准尺寸 Standard dimensions						
RA	F12	ϕ 150	ϕ 125	4-M12	22									
	F14	ϕ 175	ϕ 140	4-M16	25									
RB	12"	ϕ 140	ϕ 107.95	4-M12	22	ϕ 20	ϕ 50	ϕ 31.60			8	34.6	67	69
	14"													
RC	Q60	ϕ 170	ϕ 140	6-M10				ϕ 28	ϕ 110	7	8	31.3		

SLP300(SLP300Ex)法兰尺寸表

SLP300(SLP300Ex)Dimensions sheet of flange

法兰型式 Type of flange	法兰号或 阀门口径 Flange No. or valve orifice	ϕ d1	ϕ d3	n- ϕ d4	h	ϕ d7			ϕ d8 (H8)	t	b	L	T	T1
						预留尺寸 Reserved dimensions	最大允许 允许最大 尺寸 Maximum allowable dimensions	标准尺寸 Standard dimensions						
RA	F14	ϕ 175	ϕ 140	4-M16	28									
	F16	ϕ 210	ϕ 165	4-M20	32									
RB	16"							ϕ 33.15				36.45		
	18"	ϕ 197	ϕ 158.75	4-M18	32	ϕ 20	ϕ 60	ϕ 38			10	41.3	78	80
	20"							ϕ 41.15				44.45		
RC	Q120	ϕ 215	ϕ 165	6-M16	28				ϕ 135	7				

选取法兰应注意的问题

1. 法兰尺寸应与所配阀门的电连接部位尺寸相同，与阀杆的配合尺寸可由用户自行加工也可由我公司加工，请用户订货中说明。
2. 注意所选标准法兰能传递的最大转矩应符合GB12223-89《部分回转阀门驱动装置的连接》规定（详见下表）。其它型式法兰能传递的最大转矩值可根据各部尺寸与标准法兰对比确定。

Cautions for selecting flange

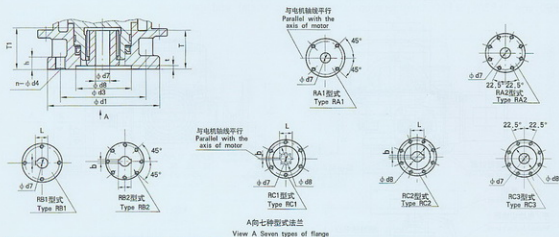
1. The flange dimensions should be the same as the connecting parts dimensions of the equipped valve electric actuator. The connecting dimensions of valve stem can be processed not only by the users themselves but also by our company. Please direct it in the users' ordering.
2. Note that the transferable maximum torque of the selected standard flange should be accordance with GB12223-89 <Connection of part-turn valve driving device> (Reference to the next sheet). The transferable maximum torque value of the other flange can be defined by contrasting the parts dimensions with the standard flange.

法兰号	F07	F10	F12	F14	F16	F25	F30
转矩 N.m	250	500	1000	2000	4000	8000	16000

（上述内容也适用SLP800~SLP1600机座产品的法兰选取）

(The above contents are also applied to flange selecting of SLP800~SLP1600 body base products)

SLP800与SLP1600机座产品与阀门连接法兰形式及尺寸



A向七种型式法兰
View A Seven types of flange

SLP800 (SLP800Ex) 法兰尺寸表

法兰型式		法兰名称 Flange name or other notes	φ d1	φ d3	n = φ d4	h	d7		φ d8 (H8)	t	b	L	T	W	
Type of flange		Flange name or other notes	φ d1	φ d3	n = φ d4	h	管座尺寸 Nose diameter	最大尺寸 Max. size	标准尺寸 Nominal diameter	φ d8 (H8)	t	b	L	T	W
RA	RA1	F16	φ 210	φ 165	4-M20	35	φ 20	φ 70	/	/	/	/			
	RA2	F25	φ 300	φ 254	8-M16	30	φ 35	φ 90	/	/	/	/			
	RB1	24"	φ 276	φ 215.9	4-M20	35			φ 50.65	/	/	16	54.65	95 110	97 115
RC	RC1	Q120	φ 215	φ 165	6-M16	30			φ 36H12 φ 55H8	φ 135	7	7D9	φ 42H7		
	RC2	Q500	φ 300	φ 254	8-M16	30			φ 55H8 φ 200			16D9	62.2		

注: 1. SLP300(SLPEx)法兰尺寸中Q120法兰亦可制成RC1型式

2. 以分数出现的数据,其分子为6000N.m以下(包括6000N.m)规格产品,其分母则为8000N.m

Notes: 1. Q120 Flange of SLP300Ex flange dimensions can also be manufactured as type RC1

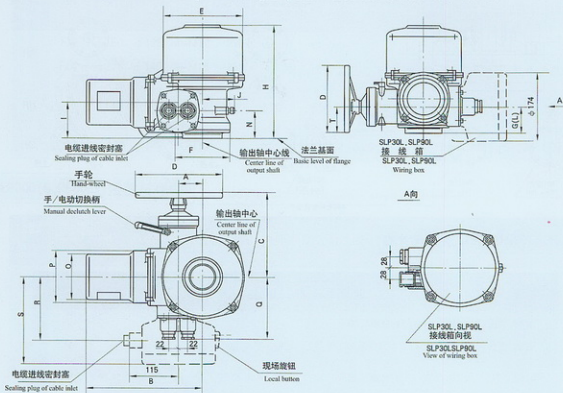
2. As to the fraction data, the numerator is under 6000N.m (including 6000N.m) specification product, the denominator is 8000N.m specification product.

SLP1600(SLP1600Ex)法兰尺寸表

法兰型式 Type of flange	法兰密封 口径 Flange face or outside of valve	φ d1	φ d3	n—φ d4	h	φ d7			φ d8 (H8)	t	b	L	T	T
						标称尺寸 Nominal diameter	最大允许 Allowable maximum	标准尺寸 Standard dimension						
RA2	F25	φ 300	φ 254	8—M16	30				／	／	／	／	120	130
	F30	φ 350	φ 298	8—M20	35									
RB2	28" 32"	φ 308	φ 254	8—M16	30	φ 40	φ 110	／	／	／	16	63		
RC3	Q500	φ 300	φ 254						φ 200	7	／	／		

SLP30、SLP90与SLP30L、SLP90L外形图(基本型与一般现场型)

SLP30, SLP90 and SLP30L, SLP90L Configuration diagram (Basic model and general local model)



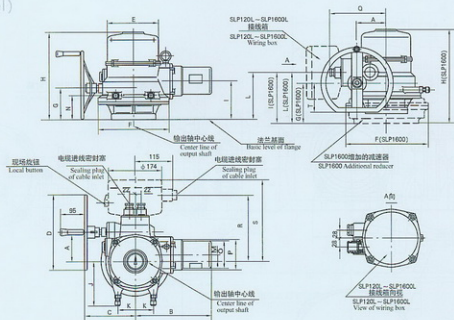
SLP30、SLP90与SLP30L、SLP90L外形尺寸表

SLP30, SLP90 and SLP30L, SLP90L Configuration dimensions sheet

型号 Type	尺寸 Dimension	A	B	C	D	E	F	G	H	I	J
SLP30		55	270 (MAX)	188	$\phi 200$	$\phi 180$	$\phi 125$	65	260	84	≈ 80
SLP30L											
SLP90		75	355 (MAX)	205	$\phi 250$	$\phi 202$	$\phi 175$	87	287	98.5	≈ 110
SLP90L											
型号 Type	尺寸 Dimension	K	L	M	N	O	P	Q	R	S	T
SLP30		/	65	/	65	$\phi 102$	$\phi 116$	≈ 138	/	/	65
SLP30L											
SLP90		/	87	/	87	$\phi 124$	$\phi 130$	≈ 160	/	/	85
SLP90L											

SLP120~SLP1600 与 SLP120L~SLP1600L 外形图 (基本型与一般现场型)

SLP120~SLP1600 and SLP120L~SLP1600L Configuration diagram (Basic model and general local model)



SLP120~SLP1600与SLP120L~SLP1600L外形尺寸表

SLP120~SLP1600 and SLP120L~SLP1600L Configuration dimensions sheet

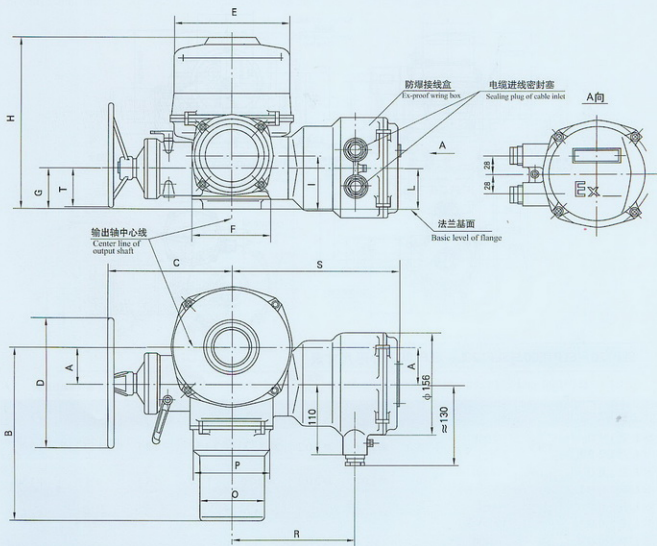
型号 Type	尺寸 Dimension	A	B	C	D	E	F	G	H	I	J
SLP120		103	360 (MAX)	175	∅250	∅202	∅235	115	325	130	160
SLP120L		117	370 (MAX)	200	∅300	∅202	∅270	134	352	157	175
SLP300		134	460 (MAX)	265	∅600	∅220	∅310	162 181	410 429	206 225	200
SLP800		134	480 (MAX)	265	∅600	∅220	∅440	230	530	293	270
SLP1600		134	480 (MAX)	265	∅600	∅220	∅440	230	530	293	270
SLP1600L		134	480 (MAX)	265	∅600	∅220	∅440	230	530	293	270
型号 Type	尺寸 Dimension	K	L	M	N	O	P	Q	R	S	T
SLP120		66	140	25	82	∅124	∅130	≈210	205	275	85
SLP120L		70	117	25	106	∅124	∅130	≈230	215	285	120
SLP300		85	225 244	37	126 145	∅165	—	≈250	250	320	—
SLP800		165	293	37	64	∅165	—	≈250	250	320	—
SLP1600		165	293	37	64	∅165	—	≈250	250	320	—
SLP1600L		165	293	37	64	∅165	—	≈250	250	320	—

注: 以分数出现的数据, 其分子为6000N.m以下(包括6000N.m)规格产品, 其分母则为8000N.m

Notes: As to the fraction data, the numerator is under 6000N.m (including 6000N.m) specification product; the denominator is 8000N.m specification product.

SLP30Ex、SLP90Ex外形图 (基本防爆型)

SLP30Ex, SLP90Ex Configuration diagram (Basic Ex-proof model)



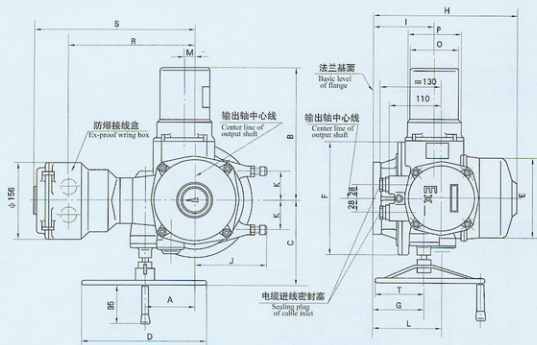
SLP30Ex、SLP90Ex外形尺寸表

SLP30Ex~SLP90Ex Configuration dimensions sheet

型号 Type	尺寸 Dimension	A	B	C	D	E	F	G	H	L	O
SLP30Ex		55	270 (MAX)	188	∅200	∅180	∅125	65	273	65	∅102
SLP90Ex		75	355 (MAX)	205	∅250	∅180	∅175	87	300	87	∅124
型号 Type	尺寸 Dimension	P	R	S	T						
SLP30Ex		∅116	190	245	65						
SLP90Ex		∅130	215	270	85						

SLP120Ex~SLP1600Ex外形图(基本防爆型)

SLP120Ex~SLP1600Ex Configuration diagram(Basic Ex-proof model)



SLP120Ex~SLP1600Ex外形尺寸表

SLP120Ex~SLP1600Ex Configuration dimensions sheet

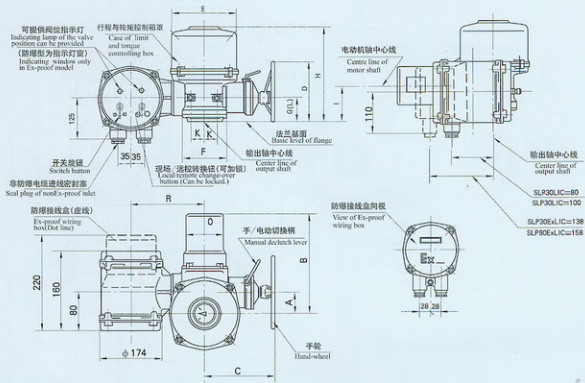
型号 Type	尺寸 Dimension	A	B	C	D	E	F	G	H	I	J
SLP120Ex		103	360 (MAX)	175	Φ250	Φ202	Φ235	115	340	130	160
SLP300Ex		117	370 (MAX)	200	Φ300	Φ202	Φ270	134	367	157	175
SLP800Ex		134	460 (MAX)	265	Φ600	Φ220	Φ310	162/181	425/444	206/225	200
SLP1600Ex			480 (MAX)				Φ440	230	545	293	270
型号 Type	尺寸 Dimension	K	L	M	O	P	R	S	T		
SLP120Ex		66	140	25	Φ124	Φ130	260	315	85		
SLP300Ex		70	177	25	Φ124	Φ130	270	325	120		
SLP800Ex		85	225/244	37	Φ165	/	305	360	/		
SLP1600Ex		165	293	37	Φ165	/	305	360	/		

注: 以分数出现的数据, 其分子为6000N.m以下(包括6000N.m)规格产品, 其分母则为8000N.m

Notes: As to the fraction data, the numerator is under 6000N.m (including 6000N.m) specification product; the denominator is 8000N.m specification product.

SLP30LIC、SLP90LIC与SLP30ExLIC、SLP90ExLIC外形图(现场转换型与现场转换防爆型)

SLP30LIC, SLP90LIC and SLP30ExLIC, SLP90ExLIC Configuration diagram (local change-over model and local change-over Ex-proof model)



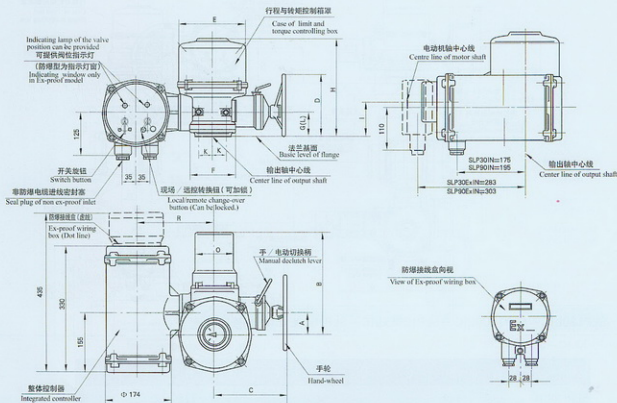
SLP30LIC、SLP90LIC与SLP30ExLIC、SLP90ExLIC外形尺寸表

SLP30LIC, SLP90LIC and SLP30ExLIC, SLP90ExLIC Configuration dimensions sheet

型号 Type	尺寸 Dimension	A	B	C	D	E	F	G	H	I	K
SLP30LIC		55	270	188	$\Phi 200$	$\Phi 180$	$\Phi 125$	65	260	84	35
SLP30ExLIC			(MAX)						273		
SLP90LIC		75	355	205	$\Phi 250$	$\Phi 202$	$\Phi 175$	87	287	98.5	50
SLP90ExLIC			(MAX)						300		
型号 Type	尺寸 Dimension	O	R								
SLP30LIC		$\Phi 102$	210								
SLP30ExLIC											
SLP90LIC		$\Phi 124$	225								
SLP90ExLIC											

SLP30IN、SLP90IN与SLP30ExIN、SLP90ExIN外形图(整体型与整体防爆型)

SLP30IN, SLP90IN and SLP30ExIN, SLP90ExIN Configuration diagram (Integration model and integrated Ex-proof model)



SLP30IN、SLP90IN与SLP30ExIN、SLP90ExIN外形尺寸表

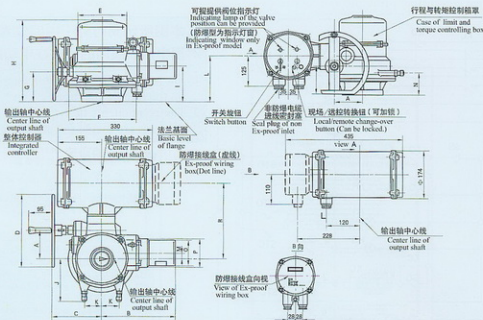
SLP30IN, SLP90IN and SLP30ExIN, SLP90ExIN Configuration dimensions sheet

型号 Type	尺寸 Dimension	A	B	C	D	E	F	G	H	I	K
SLP30IN		55	270	188	Φ200	Φ180	Φ125	65	260	84	35
SLP30ExIN			(MAX)						273		
SLP90IN		75	355	205	Φ225	Φ202	Φ175	87	287	98.5	50
SLP90ExIN			(MAX)						300		
型号 Type	尺寸 Dimension	L	O	R							
SLP30IN		65	Φ102	210							
SLP30ExIN											
SLP90IN		87	Φ124	225							
SLP90ExIN											

SERIES SLP PART-TURN ELECTRIC ACTUATORS

SLP120IN~SLP1600IN与SLP120ExIN~SLP1600ExIN外形图(整体型与整体防爆型)

SLP120IN~SLP1600IN and SLP120ExIN~SLP1600ExIN Configuration diagram(Integration model and integrated Ex-proof model)



SLP120IN~SLP1600IN与SLP120ExIN~SLP1600ExIN外形尺寸表

SLP120IN~SLP1600IN and SLP120ExIN~SLP1600ExIN Configuration dimensions sheet

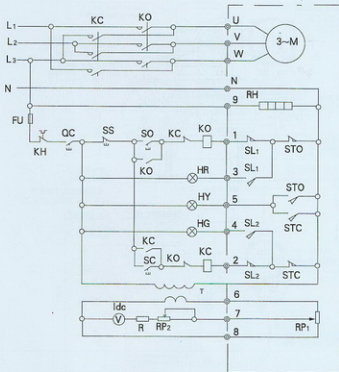
型号 Type	尺寸 Dimension	A	B	C	D	E	F	G	H	I	J
SLP120IN		103	360	175	Φ 250	Φ 202	Φ 235	115	325	130	160
SLP120ExIN			(MAX)						340		
SLP300IN		117	370	200	Φ 300	Φ 202	Φ 270	134	352	157	175
SLP300ExIN			(MAX)						367		
SLP800IN		134	460	265	Φ 600	Φ 220	Φ 310	162	410	206	200
SLP800ExIN			(MAX)					181	425	225	
SLP1600IN		134	480	265	Φ 600	Φ 220	Φ 440	230	530	293	270
SLP1600ExIN			(MAX)						545		
型号 Type	尺寸 Dimension	K	L	M	N	O	P	R			
SLP120IN		66	140	25	82	Φ 124	Φ 130	270			
SLP120ExIN											
SLP300IN		70	177	25	106	Φ 124	Φ 130	280			
SLP300ExIN											
SLP800IN		85	225	37	126	Φ 165		315			
SLP800ExIN			244		145						
SLP1600IN		165	293	37	64	Φ 165		315			
SLP1600ExIN											

注：以分数出现的数据，其分子为6000N.m以下(包括6000N.m)规格产品，其分母则为8000N.m

Notes: As to the fraction data, the numerator is under 6000N.m (including 6000N.m) specification product; the denominator is 8000N.m specification product.

基本电气控制原理与相关说明

The basic electric controlling principle and related directions



1. 本图所示阀门处于中间位置。
 2. 图中点划线内的元件在电动执行机构内。
1. The valve indicated in this diagram is isolated on the middle position.
2. The components in the dash dot line of this diagram are inside the electric actuator.

端子线对照表

端子号	U	V	W	E	1	2	3	4	5	6	7	8	9
原理图代号	U	V	W	N	1	2	3	4	5	6	7	8	9

15	KH	热继电器	Heat relay
14	RP1	位置电位器	Position potentiometer
13	STO STC	转矩开关	Torque switch
12	SL1 SL2	限位开关	Position limit switch
11	RH	加热电阻	Heater resistance
10	HR HG HY	指示灯	Indicating lamp
9	SS SO SC	远程控制开关	Remote controlling button
8	T	变压器	Transformer
7	R	电阻	Resistance
6	Idc	开流表	Position indicating meter
5	QC	电源开关	Power supply switch
4	RP2	调节电位器	Modulating potentiometer
3	FU	熔断器	Fuse
2	KO KC	交流接触器	Alternative current contactor
1	M	三相异步电机	Three-phase asynchronous motor

说明

Directions

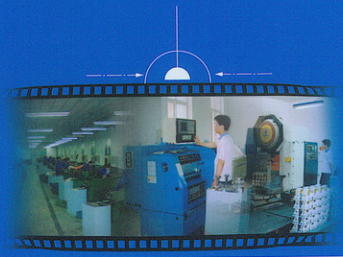
上图所示为SLP系列电动执行机构最常用的基本电控原理，它可完成一般情况下电动阀门的控制。在实际应用中往往对电控原理有很多要求如需要增加行程转矩的控制触点和无源接点、需要现场控制开关和现场/远程转换开关、需要现场阀位指示灯需要精密电位器和阀位变送器(VOT)需要电动装置具有接收4~20mA DC信号的功能等等。因此，当用户有不同要求时应在订货时提出，我公司备有包括所有电气控制功能的原理图集供用户选择。

The above diagram shows the basic electric controlling principle of the series SLP electric actuators, it can perform the control for electric valve in the ordinary conditions. In the actual applications, the electric controlling principle has lots of requirements. For example, require to add controlling contacts of travel and torque and passive terminals, require local controlling switch and local/remote change-over switch, require indicating lamp of local valve position, require the precise potentiometer and valve position transmitter (VOT) and require the function that the electric actuator can receive 4~20mA signal etc. So, the users should direct the requirements when ordering. Our company will provide the principle brochure consisted of all the electric controlling functions for users selecting.

证书

Certificates





www.tjyb7.com

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