



离合式手轮机构 Declutchable Gear Operators



无锡市圣汉斯控制系统有限公司
Wuxi St.Hans Controls Co.,Ltd.

手轮机构简介 Introduction of Declutchable Gear Operators

我们设计制造的ALXL系列手轮机构在气动球阀、蝶阀、旋塞阀的系统安装、调试及系统失气，失电时的手动操作中有着广泛的应用。是气动阀门控制系统中不可或缺的工作部件之一。依据ISO5211标准设计制造的手轮机构结构合理，性能可靠。

The ALXL series declutch override gear box were specially designed used for butterfly valve, ball valve and plug valve together with pneumatic actuators. This device allows for manual operation during installation, system testing and in the event of a supply air-failure.

The ALXL Series mount directly to many of the most popular rack and pinion style actuators on the market, and does not require a bracket between the pneumatic actuator and declutch override. The units come complete with a coupler that connect the pneumatic actuator to the valve.



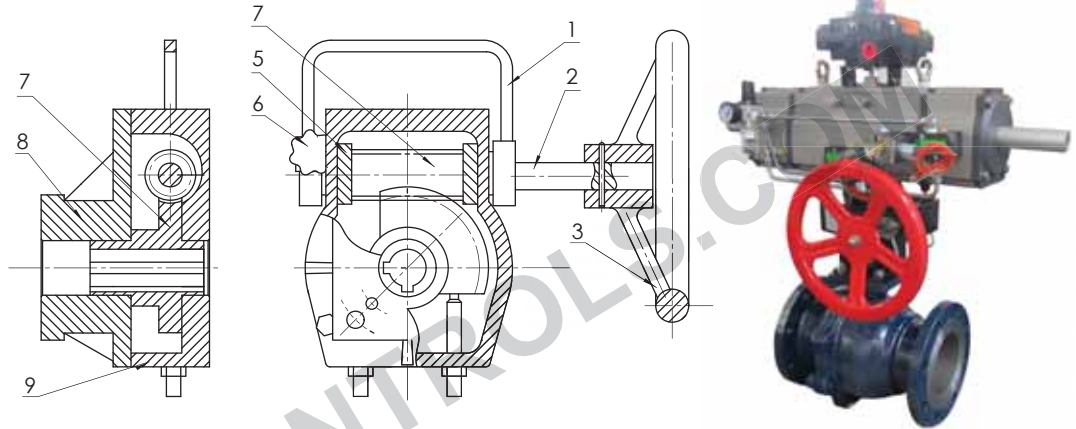
主要特点 Main Features

- 设计简单，结构紧凑，重量轻。
- 铸铁/铝合金箱体，坚固耐用。
- 采用ISO5211连接标准，直接安装无需支架。
- 采用双键槽轴孔，便于多相位阀门安装。
- 自动手动转换方便。
- 气候防护等级达到IP65。
- 规格多，输出扭矩范围广。
- Compact and simply design, light in weight.
- Manufactured with cast iron housing and aluminum.
- ISO5211 direct mount patterns.
- Easy for customer to choose relative position between gear operator and valve, with two keyway apart 90 ° in the inner hole of worm gear.
- Easy to realize the manual drive or the pneumatic drive.
- Filled with special lubricant before leaving the factory.
- Weatherproof is IP65.



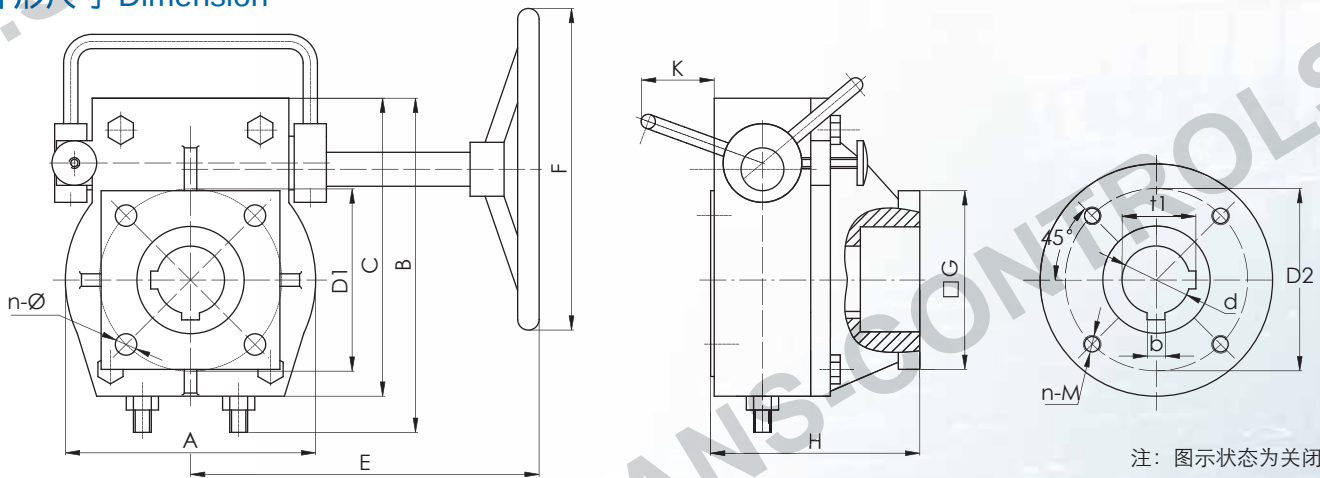
ALXL一级传动手轮机构结构及尺寸图 Structure & Dimension

结构及材料 Structure & Material



No	名称	Description	数量Qty.	材质Material	Optional material
1	手柄	Handle	1	Carbon steel	—
2	涡轮杆	Worm shaft	1	45 GB699-88	—
3	手轮	Hand wheel	1	HT200 GB9439-88	WCB GB12229-88
4	蜗杆	Worm	1	45 GB699-88	—
5	偏心套组件	Off-center sleeve sub-assembly	1	Carbon steel	—
6	限位螺杆	Positioning screw	1	Carbon steel	—
7	蜗轮	Worm gear	1	QT500-7 GB1348-88	—
8	上盖	Cap	1	HT200 GB9439-88	Die-casting aluminum/Ductile iron
9	壳体	Body	1	HT200 GB9439-88	Die-casting aluminum/Ductile iron

外形尺寸 Dimension

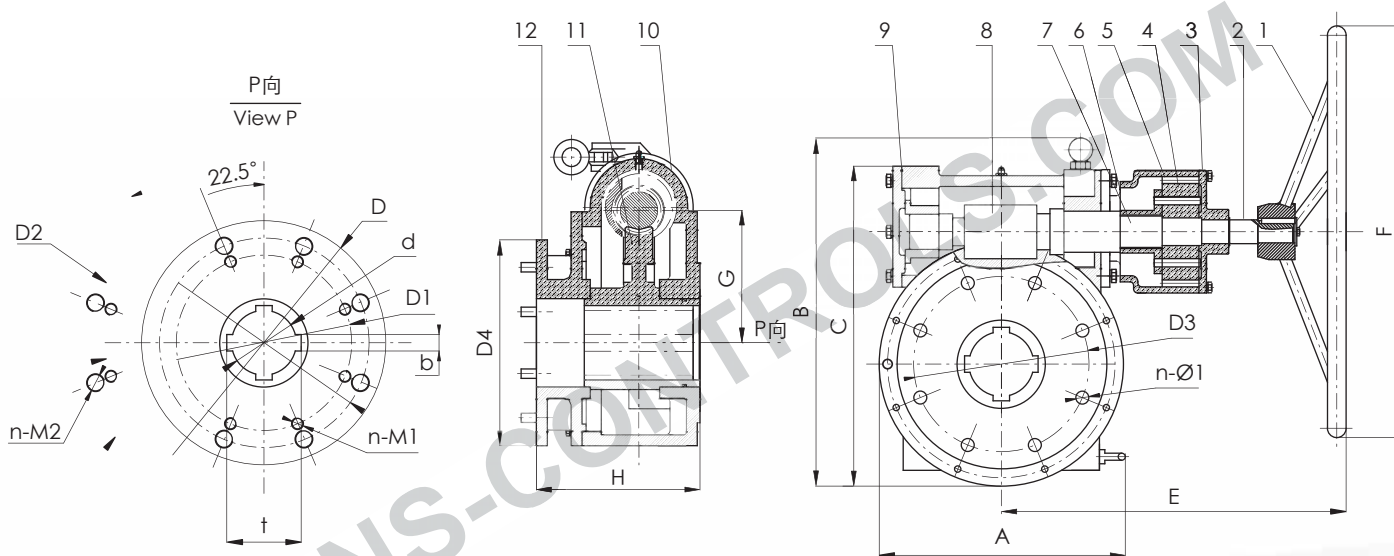


注：图示状态为关闭

型号 Model	d	b	t1	D1	n-Ø	D2	n-M	A	B	C	E	F	G	H	K
ALXL26A	22	6	24.8	50	4-Ø7	50	4-M6	88	127	115	140	Ø140	68	99	32
ALXL26B	22	6	24.8	70	4-Ø9	70	4-M8	105	160	145	155	Ø180	70	99	35
ALXL38A	26	8	29.3	70	4-Ø9	70	4-M8	140	195	167	195	Ø200	100	117	42
ALXL38B	38	10	41.3	102	4-Ø12	102	4-M10	140	195	167	195	Ø200	100	117	42
ALXL54A	38	10	41.3	125	4-Ø14	125	4-M12	175	235	212	205	Ø280	135	118	46
ALXL54B	48	14	51.8	140	4-Ø18	140	4-M16	175	235	212	205	Ø280	135	118	46
ALXL80A	48	14	51.8	140	4-Ø18	140	4-M16	250	320	298	245	Ø400	156	148	50
ALXL80B	60	18	64.4	165	4-Ø22	165	4-M20	250	320	298	245	Ø400	156	148	50
ALXL90A	60	18	64.4	165	4-Ø22	165	4-M20	285	360	345	265	Ø500	192	150	60
ALXL90B	80	22	85.6	165	4-Ø22	165	4-M20	285	360	345	265	Ø500	192	150	60
ALXL98A	80	22	85.6	165	4-Ø22	165	4-M20	455	550	525	410	Ø800	230	195	75
ALXL100A	100	28	106.6	254	8-Ø18	254	4-M16	520	605	585	430	Ø800	300	195	85

ALXL二级传动手轮机构尺寸表

Dimension table of ALXL second-stage speed reducing series clutch gear operator



主要明细表 Main parts list

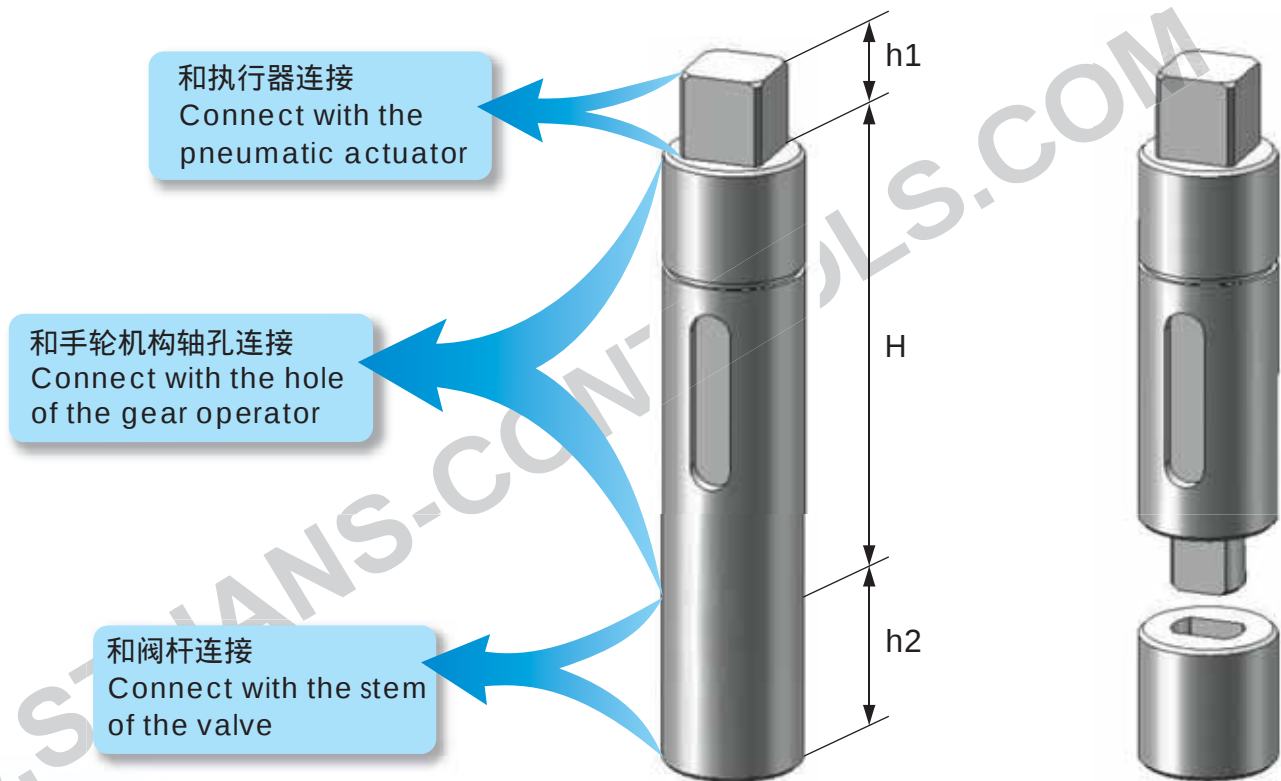
号 Item	名 称 Description	数量 Qty.
1	手 轮 Hand Wheel	1
2	中心齿轮轴 P Gear Shaft	1
3	右端盖 Right end cover	1
4	行星齿轮 Pinion Gear	5
5	内齿圈 Inner Teeth Ring	1
6	连接盘 Mounting Plate	1
7	行星架 Pinion Gear Retainer	1
8	蜗 杆 Worm	1
9	左端盖 Left end cover	1
10	壳 体 PHousing	1
11	蜗 轮 Worm Gear	1
12	上 盖 Cap	1



外形尺寸 Dimension

型 号 Model	d	b	f	D1	n-M1	D2	n-M2	D	D3	n-Ø	D4	A	B	C	E	F	G	H
ALXL300A	55	16	59.3	254	8-M16	—	—	Ø300	254	8-18	Ø300	300	430	385	470	500	550	244
ALXL300B	75	20	79.9	254	8-M16	—	—	Ø300	254	8-18	Ø300	300	430	385	470	500	550	244
ALXL400A	110	28	116.4	298	8-M20	356	8-M30	Ø415	298	8-22	Ø350	470	600	550	590	700	230	278

手轮轴的加工方法和加工案例 Drive Shaft



订购信息 How to Order

UNIT 单元	1	2	3	Product code 产品代号
CONTENT 内容	ALXL	26	A	ALXL26A
EXPLAIN 说明	Series 系列	Ratio 传动速比	Connecting Dimension 连接尺寸	

ALPHA系列

26:1
38:1
54:1
...
...
...
300:1
400:1

A-See the dimension tables
B-See the dimension tables
C-Custom



无锡市圣汉斯控制系统有限公司 Wuxi St.Hans Controls Co.,Ltd.

地址：无锡市新区金城东路529号 邮编(P.C.): 214112

Add : No.529, Jincheng East Road, New District, Wuxi City, China

电话(Tel): 0086-510-81150895/96/97 85213820

传真(Fax): 0086-510-85227486

E-mail: sales@sthans-controls.com Http:// www.sthans-controls.com