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搜索

元器件→产品→系统集成
海事电气产品及
系统集成方案解决者

阀门遥控&液位遥测系列

Remote Controlled
Valve System and Tank
Level Gauging System

完整的产品制造链

自主可控

始终如一



常熟市国瑞科技股份有限公司
CHANGSHU GUORUI TECHNOLOGY CO.,LTD

公司简介

Company Profile



常熟市国瑞科技股份有限公司系浙江省二轻集团控股的混合所有制企业，股票代码300600，系目前国内船舶电气领域唯一一家上市公司。公司位于江苏省常熟虞山高新技术产业开发区，专业从事海事电气产品、自动化设备及其系统集成研发、生产，是国内海事电气及自动化领域为数不多的具有自主品牌核心元器件、成套产品及系统集成完整制造链的厂家。

公司注册资本29705.22万元，占地88000平方米，科研生产用房面积56000平方米，作为专业的舰船电气及自动化设备制造商，配备先进的柔性加工生产线和齐全的试验、测试设备，以“数字化设计、数字化管理、数字化生产”为客户提供优质产品和服务。

公司始终坚持“自主创新、诚信经营”理念，拥有江苏省重点企业研发机构——江苏省高可靠智能化船舶配电设备工程技术研究中心，拥有48项软件著作权，14项发明专利权，所生产的船舶低压配电产品系列、中压配电产品系列、电力电子产品系列、船用开关系列、自动化设备及自动化管理系统、薄膜电容器系列、阀门遥控系统、船舶推进电力及控制等产品广泛应用于中外民用船舶，得到了用户较高的满意度。

公司通过了中国船级社ISO9001、OHSAS18001、ISO14001等管理体系的第三方认证，产品满足GB/T19001、GJB9001的质量要求，并可根据客户要求通过“CCS”、“LR”、“DNV”、“ABS”、“BV”、“NK”等中外船级社的检验。

Changshu Guorui Technology Co., Ltd. is a mixed-ownership enterprise controlled by Zhejiang Second Light Industry Group Co., Ltd., stock code: 300600. It is the only listed company in the field of marine electrical in China. Located in Yushan high tech Industrial Development Zone, Changshu City, Jiangsu Province. Our company specializes in the R & D and production of marine electrical products, automation equipment and system integration. It is one of the few manufacturers in the field of marine electrical and automation in China with independent brand core components, complete sets of products and systems integrated into a complete manufacturing chain.

The company's registered capital is 297,052,200 yuan, covers an area of 88,000 square meters, and a scientific research and production space of 56,000 square meters. As a professional manufacturer of ship electrical and automation equipment, the company is equipped with advanced flexible processing production lines and complete testing and testing equipment, and provides customers with high-quality products and services based on "digital design, digital management and digital production".

Company always adhere to the "independent innovation, integrity management", has a high reliable intelligent key enterprise research and development institutions in Jiangsu province, Jiangsu province marine power distribution equipment engineering technology research center, with 48 counts of software copyright, 14 invention patents, the production of low-voltage distribution ship product series, the series of medium voltage power distribution products, power electronic products series, marine switch series, automation equipment and automation management system, film capacitor series, valve remote control system, marine electric propulsion and control system etc. products are widely used in the Chinese and foreign ship, got higher user satisfaction.

The company has passed the third party certification of China Classification Society ISO9001, OHSAS18001, ISO14001 and other management systems. The products meet the quality requirements of GB/T19001 and GJB9001, and can pass the inspection of Chinese and foreign classification society such as "CCS", "LR", "DNV", "ABS", "BV" and "NK" according to customers' requirements.

资质荣誉

Qualifications and Honors



资质荣誉

汗水成就梦想，实干创造辉煌。国瑞科技过去的28年是实干的28年，是创业的28年，是精彩无限的28年。

"为国轮国造不懈努力，为科技兴军添砖加瓦。"牢记使命，永葆初心，自立自强，图强不息。国瑞科技在市场经济大潮中一步步做大做强，靠汗水和实干赢得了荣誉。

从政府主管部门的肯定到同行的认可，再到社会各界、行业内外的一致好评，众多荣誉成为国瑞科技不断发展壮大的助推器，推动着国瑞科技不断向更加灿烂的辉煌迈进。

Qualifications and Honors

Sweat makes dreams come true, hard work creates brilliance. The past 28 years of Guorui Technology have been 28 years of hard work, 28 years of entrepreneurship, and 28 years of infinite glory.

"Make unremitting efforts for the national ships to be built in domestic, and contribute to the rejuvenation of the army through science and technology" Keeping in mind the mission, always keeping the original aspiration, being self-reliant and self-improving and continuous efforts, trying to be strong and unceasing, Guorui Technology has grown bigger and stronger step by step in the tide of market economy, and has won honors with sweat and hard work.

From the affirmation of the competent government department to the recognition of the peers, to the unanimous praise from all walks of life in the society, both inside and outside the industry, many honors have become a booster for the continuous development and growth of Guorui Technology, propelling Guorui Technology to continue to advance to a more brilliant glory.

我们所获得的认证.....

以人为本、构建和谐企业
科技是第一生产力

Certification

People oriented, building a harmonious enterprise
Science and technology is the first productive force



Purpose | 宗旨

为客户创造价值
为股东创造利润
为员工创造机会

Create value for
our customers and Create profits for
our shareholders and Create working opportunities for
our employees



Idea | 理念

自主创新 诚信经营

Independent innovation and
Credit management



Aims | 目标

创建受社会尊重
让员工自豪
最具有竞争力的船舶及海洋工程电气
自动化产品和系统解决方案的自主品牌企业

Created by the social respect, let employees pride, the most competitive
ship and ocean engineering electrical and automation products and
system solutions of independent brand enterprises.

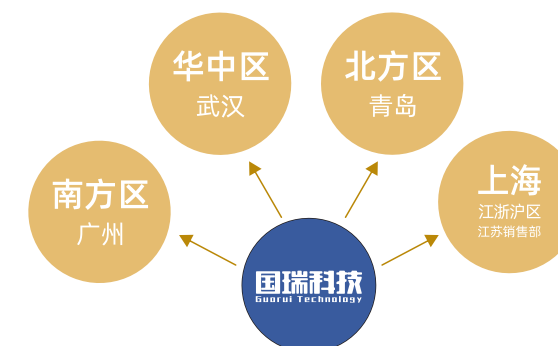


营销网络

公司营销引进CRM客户管理系统，在国内具有上海、广州、青岛和武汉四个销售分公司，在区域分公司辐射地区设有办事处，可以为客户提供便捷的服务。

Sales Network

Our company uses CRM customer management system, has four sales branches in Shanghai, Guangzhou, Qingdao and Wuhan in China, and has offices in the radiation areas of various regional branches.



主要客户

Major Client

 江南造船（集团）有限责任公司	 沪东中华造船（集团）有限公司	 上海外高桥造船有限公司	 广船国际有限公司	 黄浦文冲船舶有限公司	 大连船舶重工集团有限公司
 渤海船舶重工有限责任公司	 武昌船舶重工集团有限公司	 中国船舶第七〇一研究所	 中国船舶第七〇二研究所	 中国船舶第七〇三研究所	 中国船舶第七〇四研究所
 中国船舶第七〇八研究所	 中国船舶第七一〇研究所	 中国船舶第七一一研究所	 中国船舶第七一二研究所	 中国船舶第七一五研究所	 中国船舶第七一九研究所
 招商局集团有限公司	 上海振华重工（集团）股份有限公司	 中远海运重工有限公司	 黄海造船有限公司	 中海油	 西门子能源有限公司

数字化设计、生产、管理

国瑞科技以项目为中心、项目管理为主线，建立了集ERP系统、PLM系统、项目管理系统、MES系统、报价系统、客户管理系统、设计软件等高度集成的，统一的数字化平台。该平台触及生产经营各个方面，覆盖产品全生命周期，做到了设计数字化、生产数字化和管理数字化。

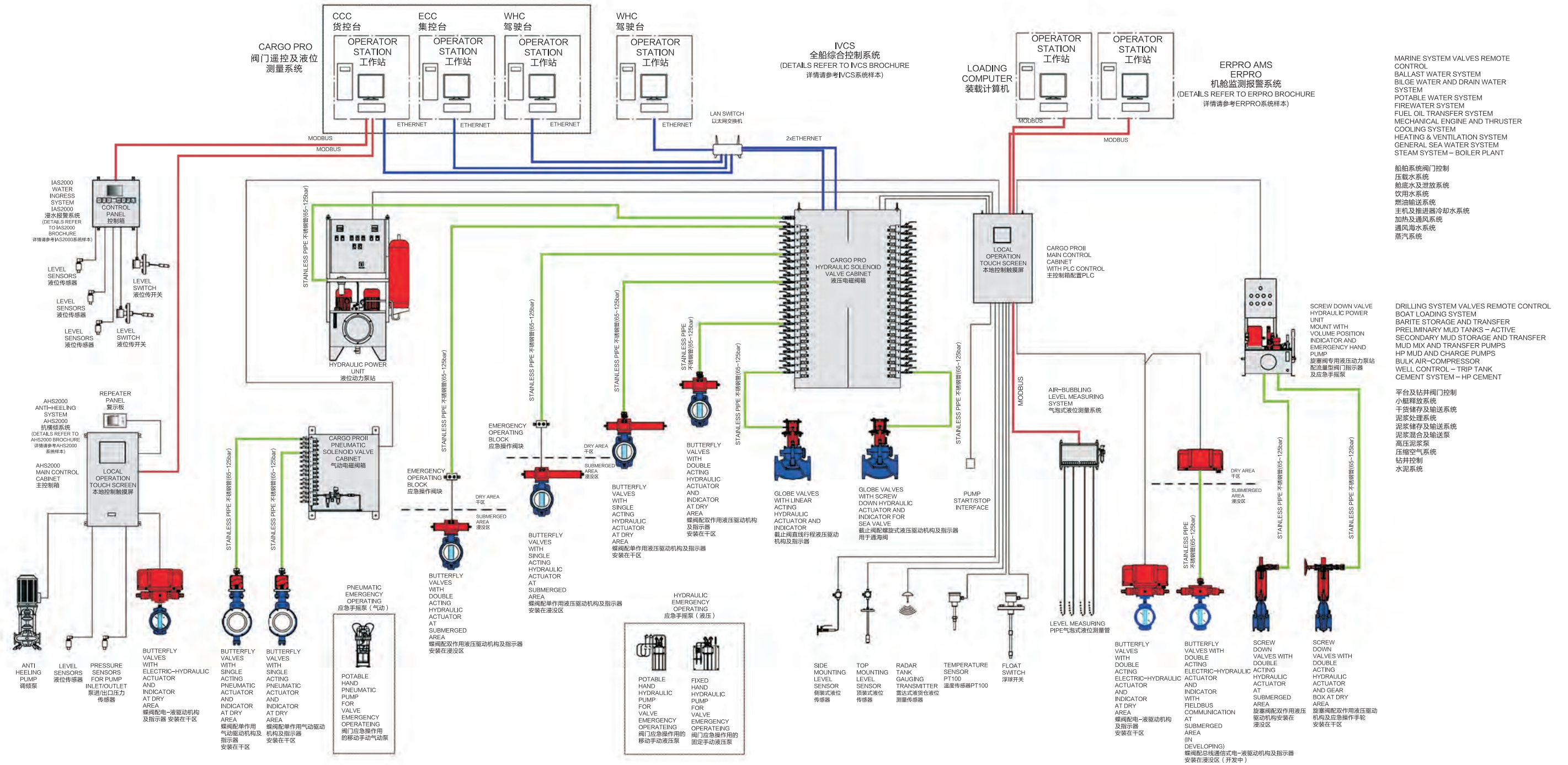
Digital Design, Digital Producing, Digital Management

With project as the center and project management as the main line, Guorui technology has established a highly integrated and unified digital platform integrating ERP system, PLM system, project management system, MES system, quotation system, customer management system and design software. The platform touches all aspects of production and operation, covers the whole life cycle of products, and achieves digital design, digital production and digital management.



CARGO PRO MARINE & OFFSHORE REMOTE CONTROLLED VALVE SYSTEM WITH TANK LEVEL GAUGING AND ANTI HEELING SYSTEM

CARGO PRO 船舶及海工平台阀门遥控、液位遥测及抗横倾系统



CARGO PRO ENCLOSED DIFFERENT VALVE REMOTE CONTROL SYSTEMS ARE DESIGNED AND MANUFACTURED WITH ADVANCE TECHNOLOGY AND HAS BEEN COMPREHENSIVELY AND SUCCESSFULLY CERTIFIED BY DNV, GL, ABS, NK, BV, CCS MARINE SOCIETY. CARGO PRO VALVE REMOTE CONTROL SYSTEM IS TYPICALLY USED IN MARINE COMMERCIAL VESSELS, OFFSHORE DRILLING RIGS, RESEARCH VESSELS, SEMI-SUBMERSIBLE VESSELS, OFFSHORE SUPPLY VESSELS, ACCOMMODATION BARGES AND OIL TANKERS. THE VALVES TO BE CONTROLLED TO BE UP TO 600 PCS EVEN MORE AND THE BIGGEST VALVE SIZE TO BE DN1200 BUTTERFLY VALVES EVEN MORE, ALSO TO BE CONTROLLED GLOBE VALVES, BALL VALVES AND SO ON. CARGO PRO IS PARTICULARLY SUITABLE FOR DRY TYPE VALVES CONTROL AND SUBMERSIBLE VALVES CONTROL. CARGO PRO IS DESIGNED, ASSEMBLED AND TESTED TO MEET STRICTLY MARINE AND OFFSHORE ENVIRONMENT, EVEN NORSOK NORTH SEA AREA. CARGO PRO EQUIPPED WITH HPU, ACTUATORS, SVC, SAFETY BARRIER CABINET, CONTROL SYSTEM, MIMIC PANEL, WORKSTATION WITH HMI SCREENS, TOUCH PANELS, CARGO CONTROL CONSOLE, PORTABLE AND STATIONARY PUMP.

CARGO PRO 系统包含了液压泵站、阀门驱动机构、电磁阀箱、液位测量装置、计算机工作站、应急操作手动泵等。CARGO PRO 系统能完成对不同的阀门进行远程控制，对船舶及海洋平台液位进行测量显示及报警，系统满足诸多船级社的要求并取得相关船级社认证。CARGO PRO 系统可应用于各种商船、海洋平台、科学考察船、工程船、半潜船等。CARGO PRO 系统可控制达600套或更多的阀门，可以是安装在干区或浸没区域。并可以对防倾区域的阀门进行控制。CARGO PRO 系统按照可以各种苛刻的要求进行设计生产。

Product Catalog

index table | 产品目录

阀门遥控系列

Valve remote control series

EDHA	角行程双作用电液执行器	Quarter-turn electro-hydraulic double acting actuator	12
RTLPU	液压微型动力单元	Micro power unit	17
DHA	角行程双作用液压执行器	Quarter-turn double acting acuator	21
HPU	液压动力泵站	Hydraulic power unit	25
CCP&SVC	中央控制箱&液压电磁阀箱	Central control panel & solenoid valve control panel	29
RTHP	应急手摇泵	EMERGENCY Hand pump	33

EDHA 角行程双作用电液执行器

Quarter-turn electro-hydraulic double acting actuator

概述

Overview

角行程双作用电液执行器是集成液压微型动力单元、液压执行器为一体的高端执行部件。无需外接油管，只需提供电源就可对阀门进行驱动，并可通过网络实现远程对阀门集中控制。

The angular stroke double acting electro-hydraulic actuator is a high-end executive component integrated with hydraulic micro power unit and hydraulic actuator. The valve can be driven only by power supply,and the centralized control of the valve be realized by network.

产品特点

Product features

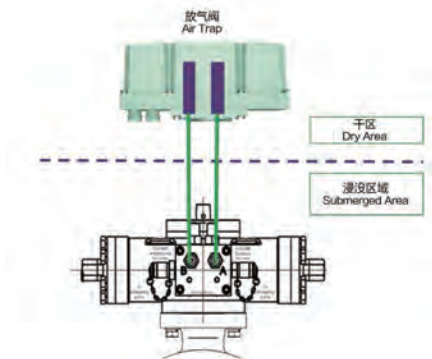
- 集电气控制、液压动力和机械传动于一体，可靠性高和使用方便；
Integrated with electrical control ,hydraulic power and mechanical transmission；
- 与电动执行器相比，该产品在同功率的情况下具有更小的体积及更大的输出转矩；
Compared with the electric actuator ,the product has smaller volume and larger output torque at the same power；
- 与液压执行器相比，由于该产品自成系统，集成了液压动力单元，省去液压泵站和液压管路的铺设，节省了阀门遥控系统成本投入，提高了安装和维护保养的效率；
Compared with the hydraulic actuator,because the product has its own system and integrated hydraulic power unit,the laying of hydraulic pump station and station and hydraulic pipeline is saved ,The cost of valve remote control system is sabed,and the efficiency of installation and maintenance is improved；
- 电液执行器按功能分开关型和开度型，可满足客户不同需求；
The electro-hydraulic actuator can be divided into close type and open type according to the function,which can meet the different needs of customers；
- 角行程双作用电液执行器具备现场应急操作功能，在应急情况下（故障或断电），可通过应急手摇泵来完成阀门的开和关。
The angle stroke double acting electro-hydraulic actuator has the function of on-site emergency operation. In case of emergency (failure or power failure), the valve can be opened and closed by the emergency hand pump.



干式角行程双作用电液执行器
Dry type angular stroke double acting electro hydraulic actuator



浸没一体式角行程双作用电液执行器
Integrated submerged angle stroke double acting electro hydraulic actuator



浸没分体式角行程双作用电液执行器
Split immersion angle stroke double acting electro hydraulic actuator

技术指标

Technical index

- 执行机构：双作用

Actuator systems: double-acting
- 使用环境：干式、浸没式

Mounting position: for dry and submerged conditions
- 防护等级:IP67、IP68(水下30米长期浸没)

Protection grade: IP67, IP68, immersion type is submerged for a long time under 30 meters.
- 工作温度：-10℃~ +55℃

Operating temperature:-10℃ ~ +55℃
- 控制方式：开关型、开度型

Control mode: switch type, opening type
- 阀位指示：就地、远程指示（选配）

Valve position indication: local and remote indication(optional)
- 工作压力：120Bar

Working pressure: 120Bar
- 转度: 90°±3°

Rotation: 90°±3°
- 材质：干式防护罩为铸铝

Material: dry cover is cast aluminum
- 浸没式防护罩为锡青铜

The immersion cover is made of tin bronze
- 执行器液压缸为QT400-15

The actuator Hydraulic cylinder is QT400-15
- 涂 层：环氧树脂

Coating: epoxy resin
- 工作电压：AC220V 50/60Hz、DC24V

Working voltage: AC220V 50/60Hz、DC24V
- 额定功率：300W

Rated power:300W
- 启动电流：4A

Starting current: 4A
- 额定电流：1.6A

Rated current: 1.6A
- 工作模式：S3-10%-30min

Working mode: S3-10%-30min
- 电缆接口：填料函、电连接器（选配）

Cable interface: stuffing box, electrical connector (optional)
- 工作介质：矿物油，符合DIN51524（如需使用其他规格液压油请向我们咨询）。

Working medium: mineral oil, in accordance with din51524.

型号命名

Model naming

电控 Electro	E	D	H	A	240	□	/□
作用形式： Acting type	S: 单作用 Single acting	D: 双作用 Double acting					
液压： Hydraulic							
执行器： Actuator							
扭矩（Nm）： Torque (Nm)	80: 80Nm@100Bar	160: 160Nm@100Bar	240: 240Nm@100Bar	500: 500Nm@100Bar			
	700: 700Nm@100Bar	1100: 1100Nm@100Bar	1800: 1800Nm@100Bar	2500: 2500Nm@100Bar			
安装位置： Mounting position	省略：干区 Omit: Dry	S: 浸没式 Submerged					
反馈信号： Feedback signal	O: 开/关量 ON/OFF	S: 模拟量（4-20mA） Analog(4-20mA)	B2: 双CAN总线 Double CAN Bus				

产品组成

Product composition

- 角行程双作用电液执行器采用模块设计的结构形式，主要由以下零部件组成
- The angular stroke double acting electro-hydraulic actuator adopts the structure of module design, which is mainly composed of the following parts
- 防护罩壳

Protective cover
- 油路板

Manifolds
- 微型动力单元

Micro power unit
- 电气控制组件

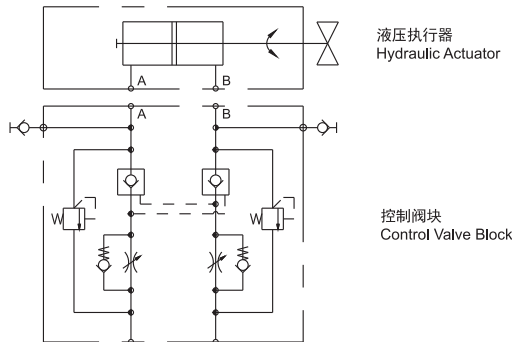
Electrical control unit
- 阀位指示器

Valve position indicator
- 液压执行器等组成

Hydraulic actuator, etc

► 液压原理

Hydraulic principle

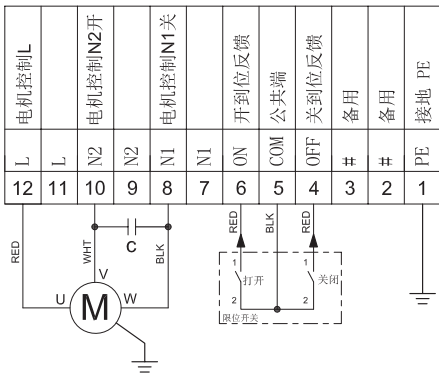


► 电气原理

Electrical Principle

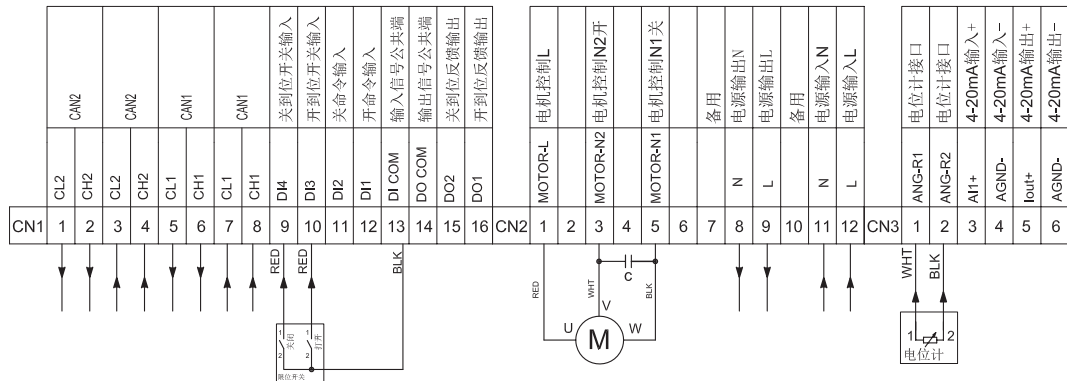
■ 开关量控制型

Switch control type



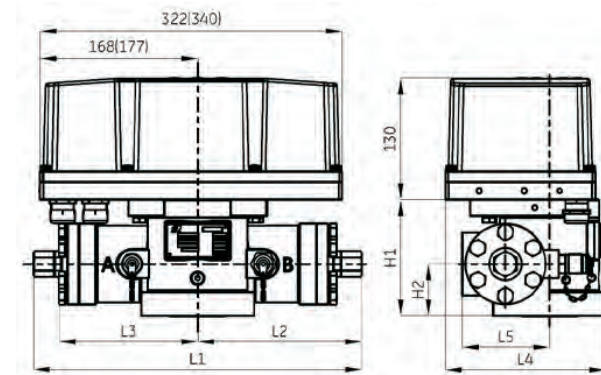
■ 双CAN总线型

Dual can bus



► 外形及接口

Shape and interface



型号 Model	扭矩 Torque @120Bar (Nm)	液压缸直径 Diameter of Cylinder (mm)	行程容积 Stroke volume (cm³)	外形尺寸 Overall Dimensions (mm)							最大连接 方轴 Max Square shaft Size	连接法兰 标准 Connect flange standard ISO5211	重量 Weight (kg)
				L1	L2	L3	L4	L5	H1	H2			
EDHA80	96	30	18	255	127.5	106	173	55	99	40	□12	F05/F07	18
EDHA160	192	35	34	286	143	115	168	68	104	45	□14	F05/F07/F10	20
EDHA240	288	40	50	310	155	127	171	77	112	47	□17	F07/F10/F12	24
EDHA500	600	50	101	350	175	148	171	93	124	55	□22	F07/F10/F12	28
EDHA700	840	55	135	380	190	158	176	101	154	80	□30	F10/F12/F14	33
EDHA1100	1320	65	235	434	217	186	218	124	176	85	□36	F10/F12/F14	47
EDHA1800	2160	80	373	464	232	200	233	139	209	105	□40	F12/F14/F16	62
EDHA2500	3000	90	540	490	245	213	251	157	219	110	□46	F14/F16	75

注1：（）内尺寸用于规格EDHA1100及以上的电液执行器。

注2：以上重量包括液压油的重量。

Note 1: The dimension in brackets are used for electro-hydraulic actuator with the specification of edha1100 or above.

Note 2: The above weight includes the weight of hydraulic oil.

► 选型说明

Note

客户可根据所需的扭矩，来选择角行程双作用电液执行器的型号。
The same model and different pressure are suitable for different torque valves.

RTLPU 液压微型动力单元 Hydraulic micro power unit

概述

Overview

液压微型动力单元只需为电机供电就可输出液压动力源，广泛应用于小流量、高压、无液压动力源场所和安装空间有限的液压系统中。

Hydraulic micro power unit can output hydraulic power source only by supplying power for motor. It is widely used in hydraulic system with small flow, high pressure, no hydraulic power source and limited installation space.

产品特点

Product features

- 同一外形，多种流量规格，可满足不同客户需求；
The same shape, a variety of flow specifications. can meet the needs of different customers;
- 输出压力范围大，最高可达180Bar；
The output pressure rang is large, up to 180Bar；
- 安装位置和角度不限，可任意安装；
The installation position and angle are not limited, and can be installed at will；
- 结构紧凑、体积小，重量轻、使用方便。
Compact structure, small volume, light weight, easy to use.

技术指标

Technical index

- 防护等级：IP40
Protection grade: IP40
- 安装角度：任意
Installation: arbitrary
- 安装方式：3-M8螺纹孔
Mounting: 3-M8
- 工作温度：-10℃~+70℃
Operating temperature:-10℃~+70℃
- 重量：约4Kg
Weight:4Kg
- 油泵形式：径向柱塞泵
Pump type: radial piston pump
- 泵体材质：合金铝
Pump body material: aluminum alloy
- 工作压力：详见液压特征曲线表
Working pressure: see hydraulic characteristic curve table for details
- 最大输出压力：180Bar
Maximum pressure:180Bar
- 油液排量：详见液压特征曲线表
Oil displacement: see hydraulic characteristic curve table for details
- 输出方向：正、反双向输出输出
Output direction: positive and negative bidirectional
- 油箱容积：0.3L
Tank volume: 0.3L
- 工作介质：矿物油，符合DIN51524（如需使用其他规格液压油请向我们咨询。）
Hydraulic medium: mineral oil according to DIN 51524(other media on request)
- 工作电压：AC380V 50/60Hz
Working voltage: AC380V 50/60Hz
- 启动电流：4A
Starting current: 4A
- 额定电流：1.6A
Rated current: 1.6A
- 工作模式：S3-10%-30min
Working mode: S3-10%-30min
- 过载温度保护：140℃
Overload protection: 140℃

型号命名

Model naming

	RTLPU	02	A	1
额定转速 2800 rpm Rated speed for 2800 rpm	02: 0.2L/min 03: 0.3L/min 04: 0.5L/min 05: 1.1L/min 06: 3L/min 注：05*06*请咨询我们 05*/06*Onrequest			
电机选型： Motor selection	A: 单相电机 AC220V 50/60HZ 1-Phase motor @AC220V 50/60HZ	B: 三相电机 AC380V 50/60HZ 3-Phase motor @AC380V 50HZ		
电机功率： Motor power supply	1: 300W@2800rpm 2: 400W@2800rpm 3: 1100W@2800rpm			

产品组成

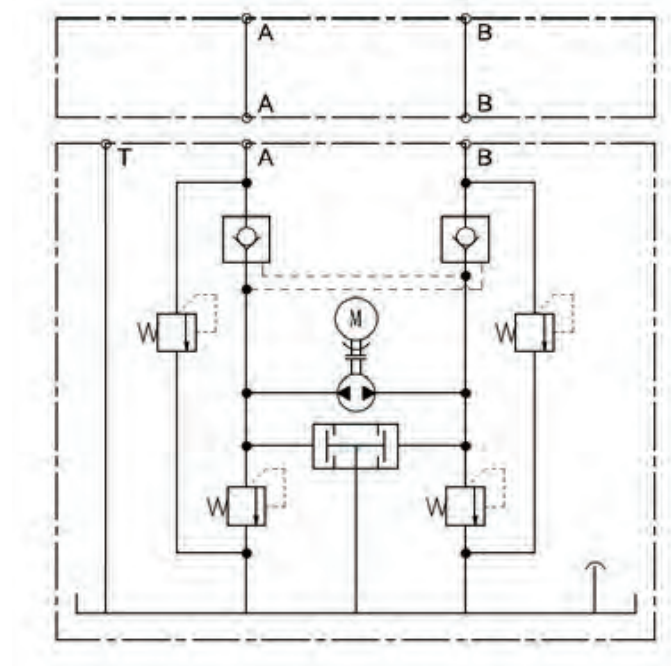
Product composition

液压微型动力单元采用模块设计的结构形式，主要由以下零部件组成

The hydraulic micro power unit adopts the structural form of module design, which is mainly composed of the following parts

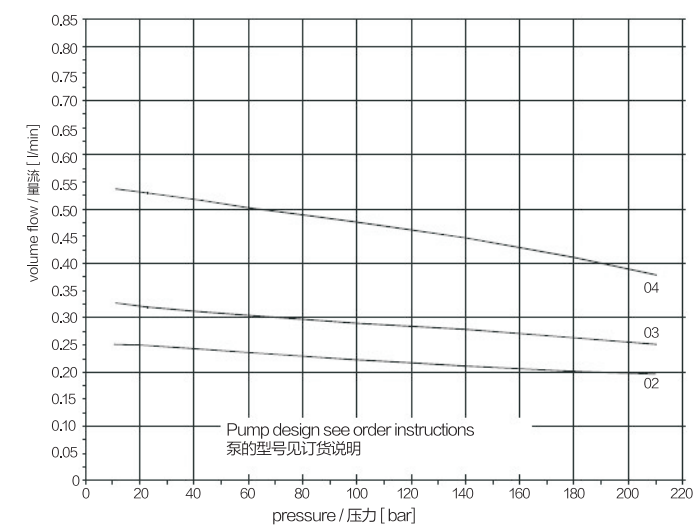
- 电机
Electric machinery
- 柱塞泵
Plunger pump
- 油箱
Tank
- 溢流阀
Relief valve
- 液压锁
Hydraulic lock

► 液压原理 Hydraulic principle

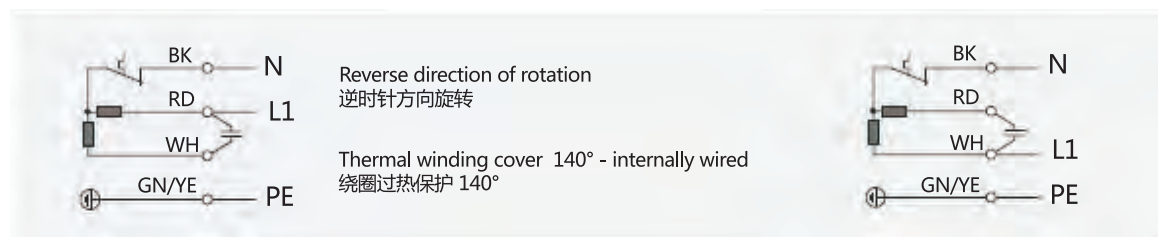


► 液压特性曲线 Characteristic curves

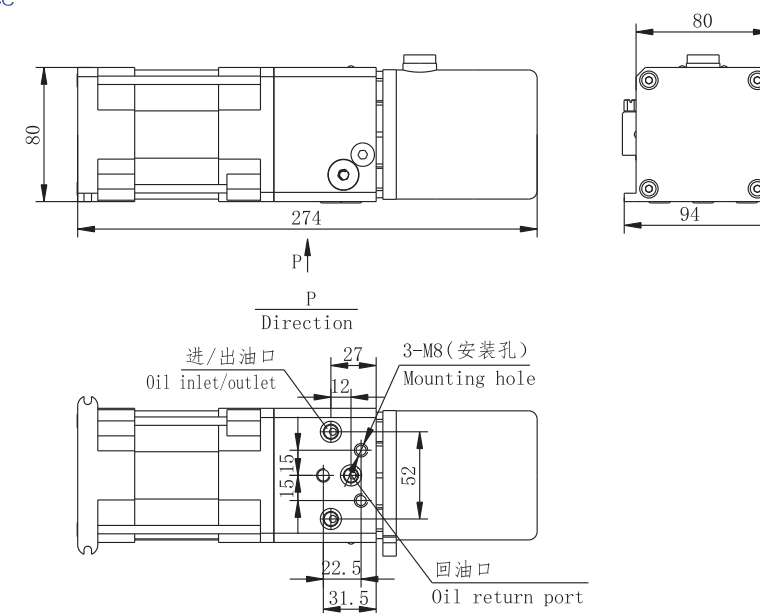
02: 2孔柱塞, 03: 3孔柱塞, 04: 5孔柱塞
油液温度+25°C, 粘度46mm²/s, 偏差±5%
02 2-hole plunger, 03: 3-hole plunger, 04: 5-hole plunger
Oil temperature +25°C, viscosity 46mm²/s, deviation ±5%



► 电气接口 Pin Assignment



► 外形及接口 Shape and interface



DHA 角行程双作用液压执行器 Quarter-turn double acting hydraulic acuator

概述

Overview

角行程双作用液压执行器集阀块、液压锁、安全阀，应急操作接口等零部件为一体的高端执行机构。通过泵站提供的液压动力推动活塞运动,带动齿条移动和齿轮转动，从而实现阀门的打开/关闭。

The angular double acting hydraulic actuator is a high-end actuator integrating valve block hydraulic lock,safety valve,emergency operation interface and other parts.The piston is driven by the hydraulic power provided by the pump station to drive the rack movement and gear rotation, so as to realize the opening/closing of the valve.

产品特点

Product features

- 具有体积小、输出扭矩大、压力可选范围广；
It has the advantages of small volume, large output torque and wide pressure range；
- 液压缸一体浇铸而成，减少液压油泄漏风险；
The hydraulic cylinder is cast in one body to reduce the risk of hydraulic oil leakage；
- 安装方式多样，适用于各种场合的阀门控制。
Various installation methods suitable for various occasions of valve control main technical parameters.

技术指标

Technical index

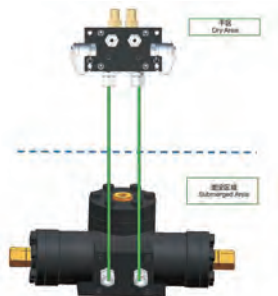
- 执行机构：双作用
Actuator systems: double-acting
- 安装位置：干式、浸没式
Mounting position: for dry and submerged conditions
- 防护等级：IP67，IP68(水下30米长期浸没)
Protection grade: IP67,IP68 for The immersion type, immersion type is submerged for a long time under 30 meters.
- 工作温度：-20℃~+55℃
Operating temperature: -20℃~+55℃
- 阀位指示：就地指示(选配)
Valve Position Indicator: Local position by Valve Position Indicator
- 工作压力：135Bar
Working pressure: 135Bar
- 转 度：90°±3°
Rotation: 90°±3°
- 液压缸材质：QT400-15
Hydraulic cylinder Material: QT400-15
- 涂 层：环氧树脂
Coating: epoxy resin
- 工作介质：矿物油，符合DIN51524（如需使用其他规格液压油请向我们咨询。）
Working medium: mineral oil, in accordance with din51524



干式角行程双作用液压执行器
Dry type angular stroke double acting hydraulic actuator



干式角行程双作用液压执行器（安装于阀门）
Dry type angular stroke double acting hydraulic actuator with valve installation



浸没分体式角行程双作用液压执行器
Split immersion angle stroke double acting hydraulic actuator

型号命名

Model naming

作用形式：S: 单作用 Acting type Single acting	D: 双作用 Double acting	D	H	A	240	□
液压： Hydraulic						
执行器： Actuator						
扭矩（Nm）： Torque (Nm)	80:108Nm@135Bar 700:945Nm@135Bar	160:216Nm@135Bar 1100:1485Nm@135Bar	240:324Nm@135Bar 1800:2430Nm@135Bar	500:675Nm@135Bar 2500:3375Nm@135Bar		
安装位置： Mounting position	省略：干区 Omit: Dry	S: 浸没式 Submerged				

产品组成

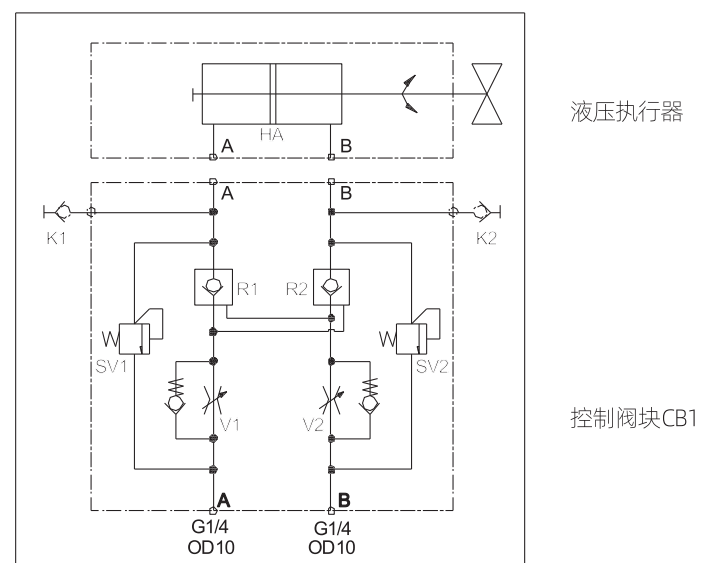
Product composition

角行程双作用液压执行器采用模块设计的结构形式，主要由以下零部件组成

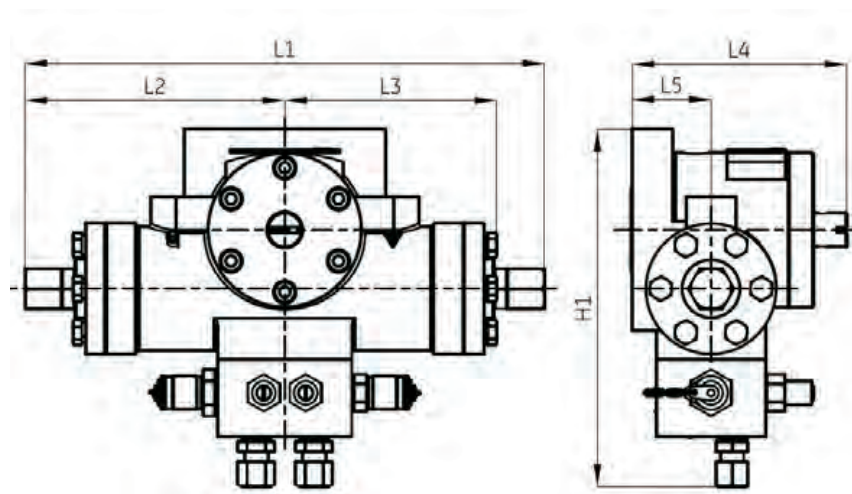
The angular stroke double acting hydraulic actuator adopts the structure of module design , which is mainly composed of parts

- 液压缸
Hydraulic cylinder
- 阀块
Valve block
- 齿轮
Gear
- 齿条
Rack
- 液压接口
Hydraulic interface

► 液压原理



外形及接口



型号 Model	扭矩 Torque 135Bar (Nm)	液压缸直径 Diameter of Cylinder (mm)	行程容积 Stroke volume (cm³)	外形尺寸 Overall Dimensions (mm)						最大连接 方轴 Max Square shaft Size	连接法兰 标准 Connect flange standard ISO5211	重量 Weight (kg)
				L1	L2	L3	L4	L5	H1			
EDHA80	108	30	18	255	127.5	106	114	40	166	□12	F05/F07	9
EDHA160	216	35	34	286	143	115	118	45	190	□14	F05/F07/F10	11
EDHA240	324	40	50	310	155	127	128	47	208	□17	F07/F10/F12	15
EDHA500	675	50	101	350	175	148	140	55	224	□22	F07/F10/F12	19
EDHA700	945	55	135	380	190	158	170	80	238	□30	F10/F12/F14	25
EDHA1100	1485	65	235	434	217	186	195	85	266	□36	F10/F12/F14	38
EDHA1800	2430	80	373	464	232	200	228	105	286	□40	F12/F14/F16	53
EDHA2500	3375	90	540	490	245	213	238	110	314	□46	F14/F16	68

注：以上重量包括液压油的重量。
Note: the above weight includes hydraulic oil.

► 产品选型

客户可根据自己所需的扭矩，来选择角行程双作用液压执行器的型号。
Customers can choose the type of angular stroke double acting hydraulic actuator according to the torque they need.

压力(Bar) Work Pressure	型号Size	DHA80	DHA160	DHA240	DHA500	DHA700	DHA1100	DHA1800	DHA2500
	扭矩Torque								
60		48	96	144	300	420	660	1080	1500
70		56	112	168	250	490	770	1260	1750
80		64	128	192	400	560	880	1440	2000
90		72	144	216	450	630	990	1620	2250
100		80	160	240	500	700	1100	1800	2500
105		84	168	252	525	735	1155	1890	2625
110		88	176	264	550	770	1210	1980	2750
115		92	184	276	575	805	1265	2070	2875
120		96	192	288	600	840	1320	2160	3000
125		100	200	300	625	875	1375	2250	3125
130		104	208	312	650	910	1430	2340	3250
135		108	216	324	675	945	1485	2430	3375

注：相同型号，不同压力分别适配不同扭矩阀门。
Note: the same model and different pressure are suitable for different torque valves.

HPU 液压动力泵站 Hydraulic power unit

概述

Overview

液压动力泵站为液压阀门遥控系统提供液压动力源，液压泵站输出的液压油经高压油管输入液压电磁阀箱，液压电磁阀箱控制不同压力油管中的液压油，输入液压执行机构动作，进而控制阀门的开启和关闭。

The hydraulic power pump station provides the hydraulic power source for the hydraulic valve remote control system. The hydraulic oil from the hydraulic pump station is input into the hydraulic solenoid valve box through the high-pressure oil pipe. The hydraulic solenoid valve box controls the hydraulic oil input from different pressure oil pipes to the hydraulic actuator, and then controls the opening and closing of the valve.

产品特点

Product features

- 液压动力泵站可在无人值守的情况下自动运行，具有远程显示和操作功能；
The hydraulic power pump station can operate automatically in unattended condition with remote display and operation functions；
- 配置蓄能器可延长液压动力泵站停机时间，防止液压泵频繁启动产生故障，提高产品使用寿命；
The configuration of accumulator can prolong the shutdown time of hydraulic power pump station, prevent frequent start-up of hydraulic pump and improve the service life of products；
- 结构紧凑、布局科学、运行平稳、动力可靠；
Compact structure, scientific layout , stable operation and reliable power ；
- 规格多样、种类齐全，可根据客户需求定制。
Various specifications, complete types, can be customize according to customer needs.

技术指标

Technical index

- 安装形式：立式安装
Installation form: vertical installation
- 防护等级：液压泵站为IP23
Protection grade: IP23 for hydraulic pump station
电控箱为IP44
Electric control box is IP44
- 箱体材质：钢质
Box material: steel
- 工作电压：AC380V/50Hz AC440V/60Hz
Working voltage: AC380V/50Hz AC440V/60Hz
- 电机配置：单机或主、备机（可选）
Motor configuration: single machine or main/ standby machine
- 工作温度：-10℃~+55℃
Operating temperature: -10℃~+55℃
- 油箱容积：150L/250L/350L
Tank : 150L/250L/350L
- 公称压力：160Bar
Nominal pressure: 160Bar
- 工作压力：135Bar
Working pressure: 135Bar
- 输出流量：5.5L/min、9.7L/min、13.2L/min（可选）
Output flow: 5.5L/min、9.7L/min、13.2L/min
- 工作介质：矿物油，符合DIN51524（如需使用其他规格液压油请向我们咨询。）
Hydraulic medium: mineral oil according to DIN 51524(other media on request)
- 液压泵类型：齿轮泵
Hydraulic pump type: gear pump
- 蓄能器规格：32L/50L/100L
Accumulator : 32L/50L/100L
- 压力开关：设置范围为30~320Bar
Pressure switch: set range30~320Bar
- 压力传感器：压力范围为0~250Bar
Pressure sensor:press.range0~250Bar
输出信号为4~20mA
Output signal: 4~20mA
- 温度开关：设置范围为50~100℃（预设70℃）
Temperature switch: set range 50~100℃（preset 70℃）
- 液位开关：测量点为油箱内高度的25%、50%
Level switch: measure point 25% , 50%
- 溢流阀：设置范围为35~210Bar（预设180Bar）
Pressure relief valve: set range 35~210Bar（preset 180Bar）
- 减压阀：设置范围为35~210Bar（预设135Bar）
Pressure reducing valve: set range 35~210Bar（preset 135Bar）
- 回油滤器精度：10微米
Return oil precision : 10 microns
- 进出口油管：φ18x2
Inlet/outlet oil pipe : φ18x2

产品功能

Product Function

- 液压油输出功能
Hydraulic oil output function
- 遥控和就地控制功能
Remote control and local control function
- 压力安全保护和调压功能
Pressure safety protection and pressure regulating function
- 高、低压报警和自动补压功能
High and low pressure alarm and automatic pressure supplement function
- 油温高报警停泵功能
High oil temperature alarm and pump stop function
- 液位低报警停泵功能
Low liquid level alarm and pump stop function
- 报警信号输出功能
Alarm signal output function
- 过载保护功能
Overload protection function



型号命名

Model naming

液压动力泵站 Hydraulic power unit	HPU	☐	/ ☐
规格:150L、250L、350L Tank : 150L、250L、350L			
S: 主、备电机, 省略: 单电机 S: mian and standby motors. Omitted inle motor			

产品组成

Product composition

液压动力泵站采用模块设计的结构形式, 主要由以下零部件组成

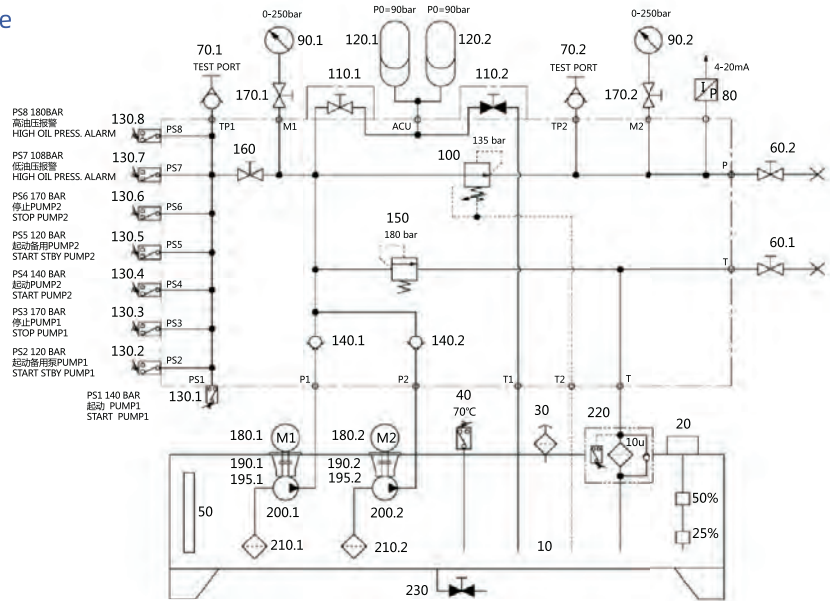
The hydraulic power pump station adopts the structural form of module design, which is mainly composed of the following parts

油箱、液位开关、空气滤清器、温度开关、液位计、高压球阀、低压球阀、清洗窗盖板、蓄能器、泵站阀组、电机阀组、电控箱。

Oil tank, level switch, air filter, temperature switch level gauge, high pressure ball, etc.

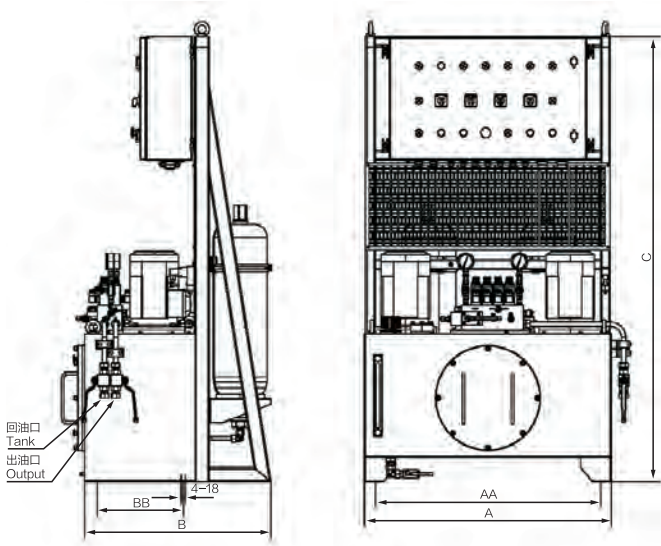
液压原理

Hydraulic principle



外形及接口

Shape and interface



型号 Type	出油口 Output	回油口 Tank	A	AA	B	BB	C	重量 Weight (Kg)
HPU150LS	Φ18×2	Φ18×2	1000	910	755	350	1800	500
HPU250LS	Φ18×2	Φ18×2	1000	910	1020	520	1800	600
HPU350LS	Φ28×3	Φ28×3	1000	910	1220	750	1800	780

注: 以上重量不含液压油, 可根据客户要求定制。

Note: the above weight does not oil, can be customized according to customer requirements.

CCP&SVC 中央控制箱 & 液压电磁阀箱 Central control panel & solenoid valve control panel

概述 Overview

中央控制箱控制液压电磁阀箱内部配置的多路电磁阀将液压动力泵站输出的液压油分配给各个液压执行器完成功能要求，同时中央控制箱还可控制电液、电动执行器完成功能要求，并分别接收液压、电液、电动执行器的反馈阀位信号，通过显示屏显示阀位状态。

The central control box controls the multi-channel solenoid valve in the hydraulic solenoid valve box, which distributes the hydraulic oil from the hydraulic power pump station to each hydraulic actuator to complete the functional requirements. At the same time, the central control box can also control the electro-hydraulic and electric actuators to complete the functional requirement and receive the feedback valve position signals from the hydraulic and electric actuators respectively, and display the valve position status through the display screen.

产品特点 Product features

- 操作简单，具有远程和本地操作功能；
Simple operation, remote and local operation function;
- 可接受开关量和模拟量信号多种反馈形式；
It can accept multiple feedback forms of switching and analog signals;
- 结构紧凑、外形多样，中央控制箱和液压电磁阀箱可进行一体和分体组装。
The central control box and the hydraulic solenoid valve box can be assembled in one or separate parts.

技术指标 Technical index

中央控制箱 central control panel

- 安装形式：一体式组合安装（与液压电磁阀箱组合安装）、
壁挂式独立安装（可选）
Installation form: Integrated installation with hydraulic solenoid valve box
wall mounted independent installation
- 工作电压：AC220V 50/60Hz, DC24V
Working voltage: AC220V 50/60Hz, DC24V
- 防护等级：IP44
Protection grade: IP44
- 箱体材质：钢质
Box material: steel



- 操作类型：触摸操作
Operation type: touch Operation
- 通信接口：开关量、模拟量、CAN通讯
Communication interface: on/off potentiometer, CAN Communication
- 信号反馈：VPI（开关量和模拟量反馈）
Feedback signal: VPI (ON/OFF or potentiometer)

液压电磁阀箱

Solenoid valve control panel

- 安装形式：立式安装
Installation form: vertical installation
- 防护等级：IP44
Protection grade: IP44
- 箱体材质：钢质
Box material: steel
- 阀块材质：合金铝
Valve material: aluminum alloy
- 工作电压：DC24V
(可选：DC12V、AC/DC110V、AC/DC220)
Working voltage: DC24V
(DC12V、AC/DC110V、AC/DC220)
- 工作温度：-10°C~+55°C
Operating temperature: -10°C~+55°C
- 最大压力：160Bar
MAX pressure: 160Bar
- 工作压力：135Bar
Working pressure: 135Bar
- 工作介质：矿物油，符合DIN51524（如需使用其他规格液压油请向我们咨询。）
Hydraulic medium: mineral oil according to DIN 51524 (other media on request)
- A+B接口：G1/4"
A+B interface: G1/4"
- P+T接口：G1/2"
P+T interface: G1/2"

产品功能 Product functions

- 执行器远程控制功能
Remote control function of actuator
- 阀位数据采集、指示和故障报警功能
Data acquisition and alarm function of valve position
- 就地操作：电磁阀可就地操作
Local operation: the solenoid valve can be operated locally

► 型号命名

Model naming

中央控制箱 Central control panel	CCP -	☐	/ ☐	☐	/ ☐
规格：控制路数 Specification control the number of channels					
信号反馈输出数量：数字表示 Port signal feedback output omitted: Digital representation					
信号输入、输出模式：“O”开关量、“S”模拟量、“B”CAN通讯 Signal input and output mode：“O” switch value、“S” Analog value、“B” CAN communication					
安装方式:L为立式,B为壁挂式 Installation mode: L is vertical, B is wall mounted					

液压电磁阀箱 Solenoid valve control box	SVC -	☐	/ ☐	☐
规格：出、回油口路数 Moth specification: number of oil outlet and return port				
信号反馈输出数量：数字表示 Port signal feedback output omitted: Digital representation				
信号反馈输出模式：“O”开关量、“S”模拟量、省略：无输出 Signal feedback output mode：“O” switch value、“S” Analog value、omitted: no output				

► 产品组成

Product composition

中央控制箱采用模块设计的结构形式，主要由以下部件组成

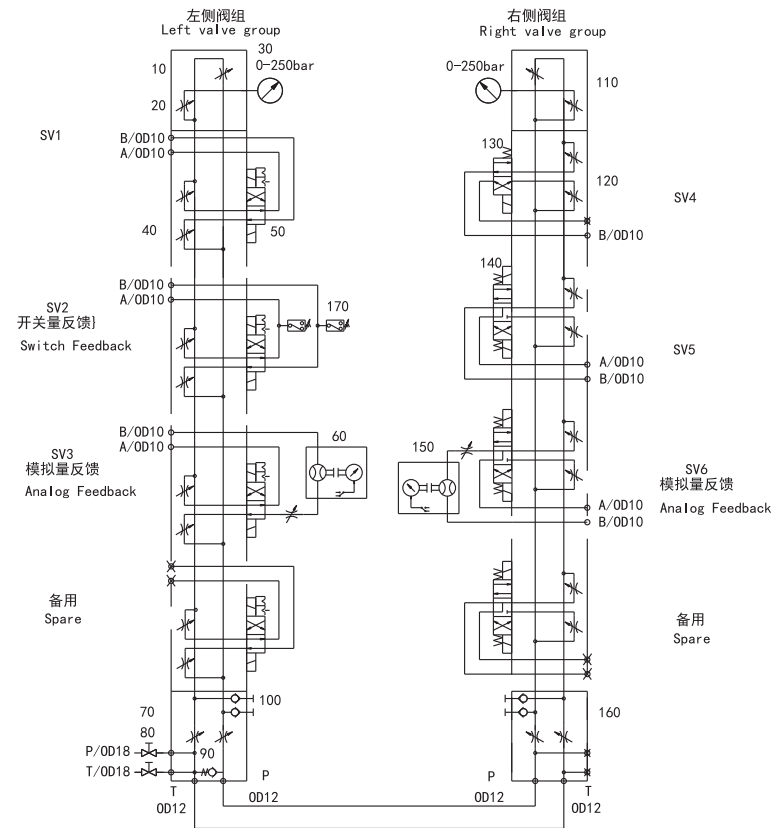
The central control box adopts the structural form of module design/ which is mainly composed of the following components

- 箱体
Box
- 触摸屏
Touch screen
- 电气元件
Electrical components
- 控制模块
Control module

液电磁阀箱采用模块设计的结构形式，主要由以下部件组成

The hydraulic solenoid valve box adopts the structural form of module design, which is mainly composed of the following components

- | | |
|----------------|-------------------------------------|
| ■ 箱体 | ■ VPI传感器 |
| Box | VPI sensor |
| ■ 电磁阀 | ■ 截止阀 |
| Solenoid valve | Globe valve |
| ■ 阀块 | ■ 液压接口、管路等 |
| Valve block | Hydraulic interface , pipeline, etc |
| ■ 压力表 | |
| Pressure gauge | |

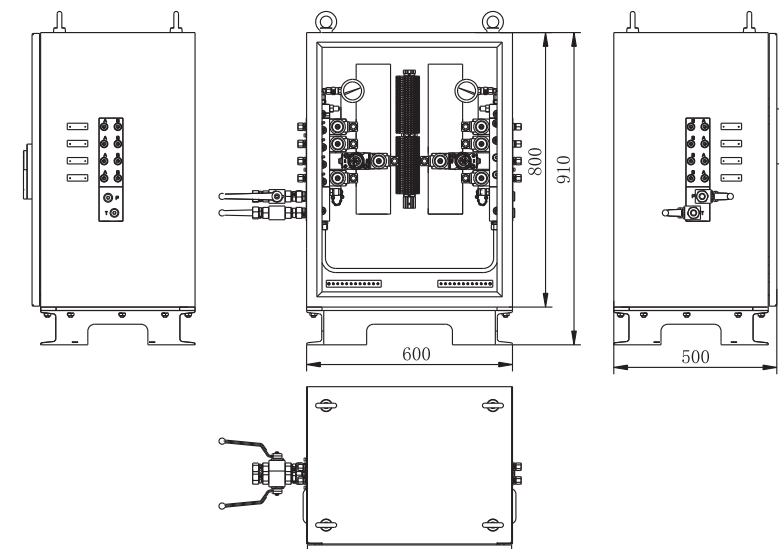


► 外形及接口

Shape and interface

SVC82S10液压电磁阀箱 (客户可根据自己所需的控制阀门数量、功能以及电磁阀尺寸进行定制)。

SVC82S10 hydraulic solenoid valve box (customers can customize according to the number, function and size of control valves they need).



► 液压原理

Hydraulic principle

SVC82S10液压电磁阀箱：8路液压油输出，其中一路VPI开关量反馈输出、二路VPI模拟量反馈输出。

SVC82510 hydraulic solenoid valve box: 8-way hydraulic oil output, including one way of VPI switch feedback output and two way of vpi analog feedback output.

RTHP 应急手摇泵 Emergency hand pump

概述 Overview



RTHP型应急手摇泵是配套用于液压、电液执行器功能测试和在工况下执行器突然失电后进行应急操作，达到阀门所需的工作状态。

Rthp emergency hand pump is used for hydraulic and electro-hydraulic actuator function test and emergency operation after sudden power loss of actuator under working conditions, so as to achieve therequired working state of valve.

产品特点 Product features

- 输出压力高、排量大、工作可靠；
High output pressure, large displacement and reliable operation；
- 结构紧凑、重量轻、操作简单、便于携带。
Compact structure, light weight, simple operation, easy to carry.

技术指标 Technical index

- 安装形式：固定式、便携式（可选）
Installation form: portable, fixed(choice)
- 泵体材质：合金铝
Valve material: aluminum alloy
- 工作温度：-10℃~+55℃
Operating temperature: -10℃~+55℃
- 工作介质：矿物油，符合DIN51524
(如需使用其他规格液压油请向我们咨询。)
Hydraulic medium: mineral oil according to DIN 51524(other media on request)
- 工作压力：50-200Bar
Working pressure: 50-200Bar
- 最大压力：250Bar
Maximum pressure:250Bar

型号命名 Model naming

	RT	HP	□	□	□	/□
应急手摇泵 Emergency hand pump						
油箱容积：2为2L, 5为5L Tank volume: 2 for 2L , 5 for 5L						
排 量：1为8ml, 2为12ml, 3为25ml The volume of the first mouth: 1 is 8ml, 2 is 12ml, 3 is25ml						
液压管长度：2为2m, 3为3m, 5为5m Length of hydraulic pipe: 2 is 2m, 3 is 3m, 5 is 5m						
安装方式：F为固定式, 省略：为便携式 Installation mode: F is fixed, omitted: portable						

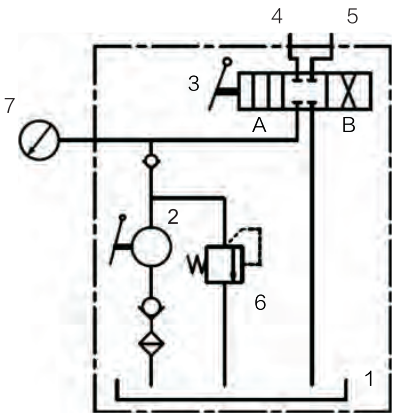
产品组成 Product composition

应急手摇泵采用模块设计的结构形式，主要由以下部件组成
The emergency hand pump adopts the structural from of module design, which is mainly composed of the following components.

- 手动泵
Hand pump
- 手动换向阀
Manual directional valve
- 阀块
Valve block

- 压力表
Pressure gauge
- 单向阀
Check valve
- 溢流阀
Relief valve
- 油箱
Tank
- 液压接口、液压软管等
Hydraulic interface, hydraulic hose, etc

液压原理 Hydraulic principle

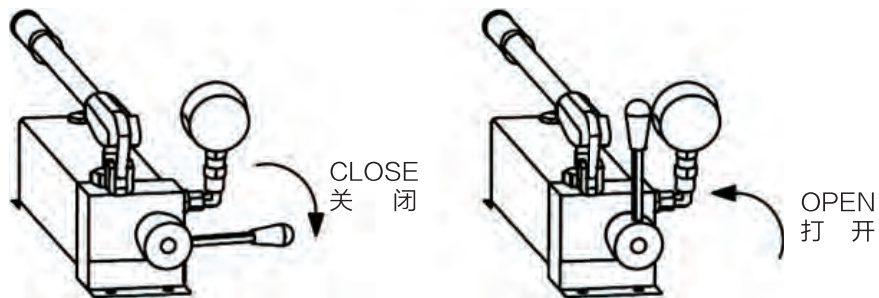
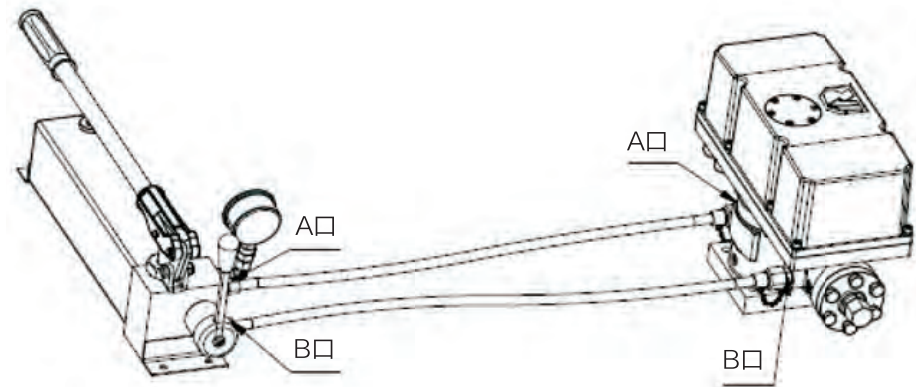


1-油箱；2-手摇泵；3-手动换向阀；
4，5-油口 6-溢流阀；7-压力表

► 使用说明

operation using hand pump

- 步骤1：将A、B软管连接到执行器A、B应急接口上；
Connect A and B hose to corresponding A and B pot tog actuator；
- 步骤2：切换到应急手摇泵手柄至打开或关闭位置；
Switch HP handle to open or close position of valve；
- 步骤3：按压手摇泵，观察阀位指示器是否打开或关闭到位；
Press the HP to observe whether the valve position indicator is opened or closed in place；
- 步骤4：使用完手摇泵后，拆下执行器A、B应急接口软管。
Dismantle the hose connected with actuator A and B after using the hand pump.

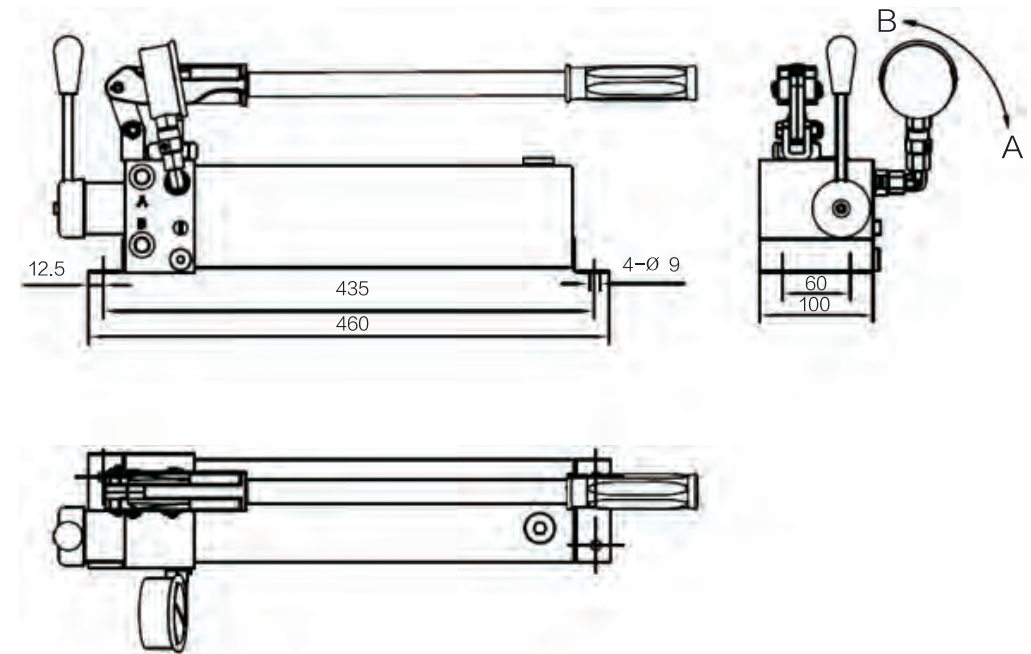


► 外形及接口

Shape and interface

应急手摇泵（客户可根据自己所需的排量、液压管长度进行定制）。

Emergency hand pump(customers can customize according to their own displacement to own displacement and hydraulic pipe length).



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