ZCLD CRYOGENIC SOLENOID VALVE

EXQUISITE TECHNIQUE/ANTIFREEZE DEVICE/STRUCTURE SIMPLE/GOOD QUALITY/MILITARY ACCESSORIES

Valve selection

- The direction of arrow on the valve body must be consistent with the flow of the medium, if there is bi-directional flow ,may select electric valve or pneumatic valve.
- If contain impurity particles in the fluid, the filter screen should be installed in front of the valve according to the particle size (the filter net > = 80 mesh).
- The length of DC power cord should not be too long to avoid coil power loss and normal operation.
- Please give preference to the normally closed type in the design control plan.
- If you need explosion-proof solenoid valve, long duration power on and special voltagerequirements, please consult before selecting the model.

Model naming method

JLB	ZCLD	-K	-RL	DN3	G1/4
Special code B→BT4Anti-explosion BZ→CT4Anti-explosion No special,omitted	Model	Function mode Blank→Normally close K→Normally open	Body material Blank→SS304 R→SS316 RL→SS316L	Nominal diameter DN3→3mm Dn6→6mm	Connection mode G→ G1/4~G2 NPT→ NPT1/2~NPT2 Flange→HG/T .....

Other important parameters

Technical parameter

DN	DN3~50mm
Connection mode	English G internal thread,Flange, NPT, HG/T Flange, SH/T Flange, and American standard Flange can be customized
Principle	Direct acting mode,Pilot piston mode
Valve body material	Ss304, SS316, SS316L
Sealing material	Alloy metal material. other materials please consult
Suitable medium	Liquid nitrogen,Liquid ammonia,Refrigerant,Carbon dioxide and cryogenic liquid, gas etc.
Medium temperature	6.-196℃~60℃ others please consult
Ambient temperature	Standard type: -20℃~60℃
Installation mode	Horizontal installation, coil vertical upward (others please consult)
Protection level	Iron housing material: IP54 Explosion-proof type: BT4:IP54 CT5:IP65

•Notes: Special conditions can be designed and manufactured according to the customer's actual conditions.

Power parameter

Supply Voltage	AC:220V DC:24V other electrical be customized
Rated power	J10 AC50VA DC48W
Voltage deviation	±10%
Electrical connection	Standard type:DIN43650A, standard junction box(M18x1.5) Anti-explosion type:Standard G1/2" inner thread Power cord of IP54 can be replaced, but IP65 can't

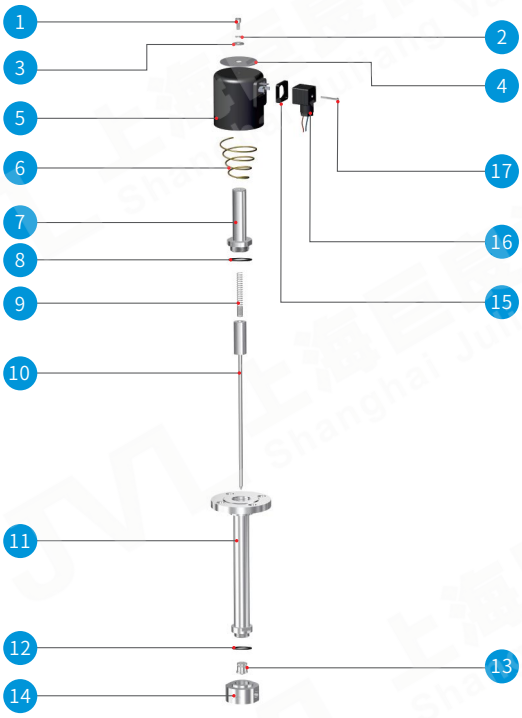
Product function selection

Symbol	Function mode	Content
Blank	Normally closed	Energized valve on, deenergized valve off
K	Normally open	Energized valve off, deenergized valve on
Notes	Anti-explosition level: Ex dbⅡ BT4 Gb、Ex dbⅡ CT5 Gb special device related qualification please ask for from our sales	

ZCLD CRYOGENIC SOLENOID VALVE

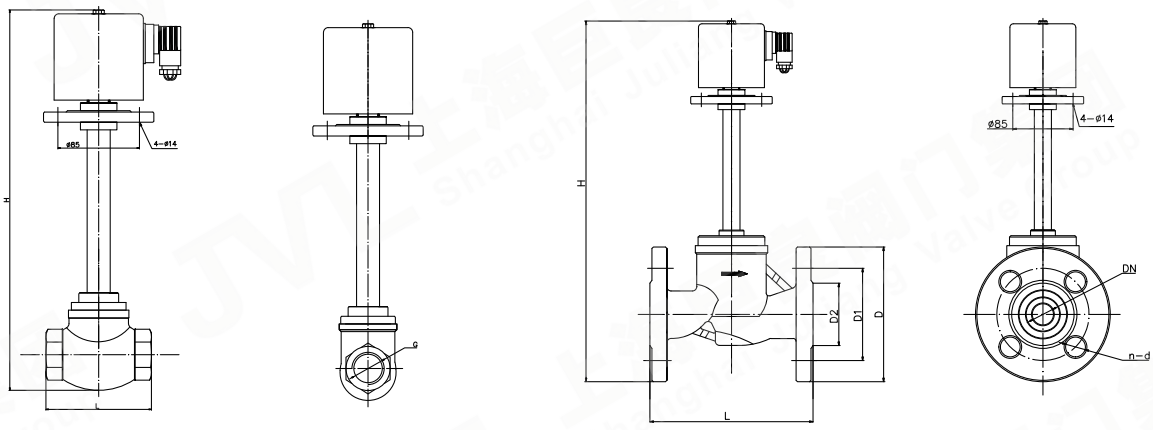
TESTED FOR A LONG TIME/JVL THE CHOICEST GOODS/REPLACING IMPORTED PRODUCTS

Application: Ultra-low temperature solenoid valves are widely used in nuclear industry, aerospace industry, military industry, shipbuilding, power equipment, food machinery, air separation equipment, petrochemical industry, tail gas separation equipment, ethylene, LNG plant, natural gas LPG LNG storage tank, liquid oxygen , Liquid nitrogen, liquid argon, carbon dioxide cryogenic storage tanks and tank trucks, pressure swing adsorption oxygen generators, liquid nitrogen storage devices, low temperature test devices and other automated control systems.



Part component description

NO.	Name	NO.	Name
1	M6 outer hex nut	10	Moving iron corecomponent
2	D6 spring washer	11	Thermal insulation pipe
3	D6 flat washer	12	Conduitseal
4	Name plate	13	Small valve core component
5	Electromagnetic coil	14	Valve body
6	Anti-shock spring	15	Protective pad for junction box
7	Bonnet component	16	Junction box
8	Bonnet seal	17	M3 bolt
9	Reset spring		



Normally closed standard product specifications & dimensions

Type	Nominal diameter DN[mm]	Pipe thread [G]	Differential pressure range[bar]		Thread connectionsize		Flange Size					
			AC	DC	L	H	L	H	D	D1	D2	N-d
ZCLD03	03	G1/4"	0~16	0~16	50	310	-	-	-	-	-	-
ZCLD06	06	G1/4"	0~16	0~16	50	310	-	-	-	-	-	-
ZCLD09	08	G3/8"	0.5~16	0.5~16	50	310	-	-	-	-	-	-
ZCLD15	15	G1/2"	0.5~16	0.5~16	60	315	115	198	φ95	φ65	φ44	4-φ14
ZCLD20	20	G3/4"	0.5~16	0.5~16	92	320	115	206	φ105	φ75	φ55	4-φ14
ZCLD25	25	G1"	0.5~16	0.5~16	110	328	125	211	φ115	φ85	φ65	4-φ14
ZCLD32	32	G1-1/4"	0.5~16	0.5~16	120	340	150	223	φ134	φ99	φ72	4-φ18
ZCLD40	40	G1-1/2"	0.5~16	0.5~16	140	350	164	241	φ144	φ110	φ82	4-φ18
ZCLD50	50	G2"	0.5~16	0.5~16	160	365	188	256	φ156	φ125	φ96	4-φ18

Note: 1. The above technical eta andinsalato limensions arestandardesgns. fadsedfunctionaloptons o pelredesig s sti , oucan ast Oov ll laving rom ucompay. Dte rssu2grade or special technical requirements shall be subject to the appointment of contract and physical products.
2.If the solenoid valve is used in explosion-proof conditions, please ask explosion-proof solenoid valve's 'Overall drawing from our company.
3.Metalalloy seal, according to the standard should allow slight leakage amount.