ZCGL ULTRA-HIGH TEMPERATURE SOLENOID VALVE

JVL THE CHOICEST GOODS/MILITARY ACCESSORIES/HEAT SINK/DURABLE SERVICE/SUPER TECHNOLOGY

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 voltage requirements,, please consult before selecting the model.

Model naming method

JLB	ZCGL	-K	-RL	DN15	G1/2
Special code	Model	Function mode	Body material	Nominal diameter	Connection mode
B→BT4Anti-explosion		Blank→Normally closed	Omitted→SS304	DN15→15mm	G→ G1/4~G2
BZ→CT4Anti-explosion		K→Normally open	R→SS316	Dn20→20mm	NPT→ NPT1/2~NPT2
No special,omitted		......	Rl→SS316L		Flange→HG/T
......			......		......

Other important parameters

Technical parameter

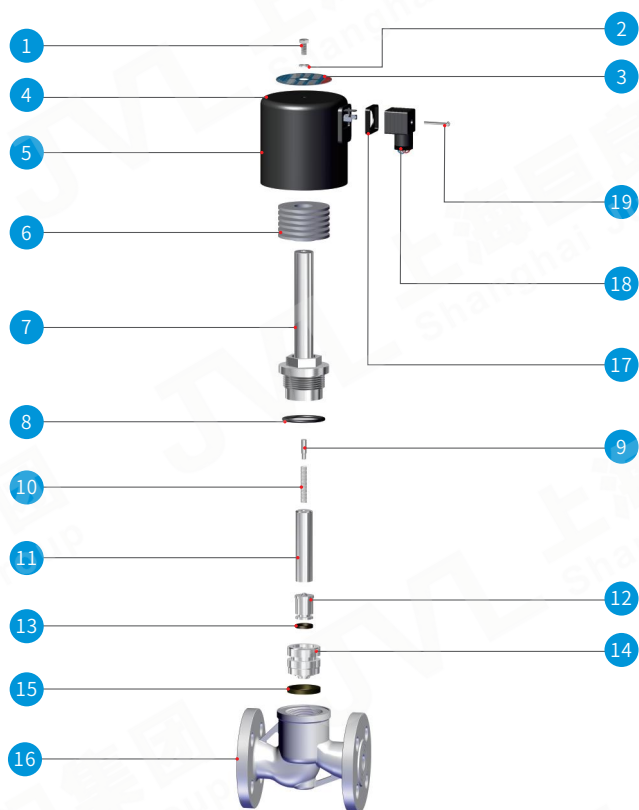|	
DN	DN15~300mm
Connection mode	English G internal thread, NPT, Flange and other standards of Flange can be customized
Principle	Distributed direct acting mode,Pilot piston mode
Valve body material	Ss304, SS316(-R), SS316L(-RL)
Sealing material	PTFE, alloy metal material, others please consult
Suitable medium	Super-heated steam, high temp. thermal oil etc.
Medium temperature	5.250℃~450℃ others please consult
Ambient temperature	Standard type: -20℃~60℃
Installation mode	Horizontal installation, coil vertical upward (others please consult)
Protection level	Iron housing type: 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 voltages can be customized
Rated power	J10 AC50VA DC48W
Voltage deviation	±10%
Electrical connection	Standard type:DIN43650A Standard junction box(M18x1.5) Anti-explosion:Standard G1/2" inner thread IP54 can replace power cord, IP65 non replace

ULTRA–HIGH TEMPERATURE SOLENOID VALVE

COMPACT STRUCTURE/HIGH TEMPERATURE AND HIGH PRESSURE/SAFE AND RELIABLE

JVL®

Application: heat conduction system, power station system, iron and steel metallurgy, power equipment, HVAC, biopharmaceutical, electroplating coating, petroleum and petrochemical, industrial kiln, heating equipment, hydraulic equipment, drying equipment, textile printing and dyeing, thermal power plant, high temperature blowing Automatic control system such as ash system.

Part component description

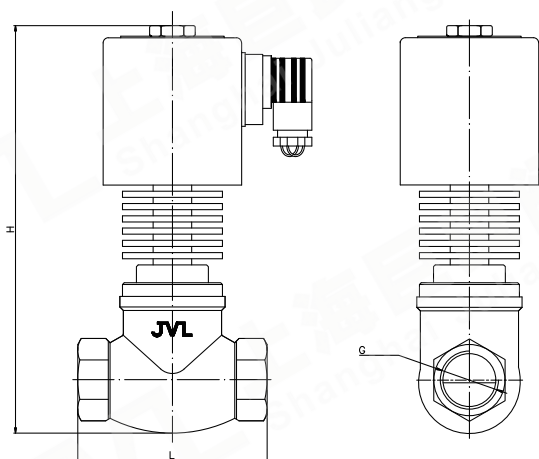| NO.	Name	NO.	Name
1	M6 outer hex nut	11	Moving iron core component
2	D6 spring washer	12	Elastic seal ring of small valve core
3	D6 flat washer	13	Small valve core component
4	Name plate	14	Elastic seal ring of main valve core
5	Electromagnetic coil	15	Main valve core component
6	High temp. radiator	16	Valve body
7	Bonnet component	17	Protective pad for junction box
8	Bonnet seal	18	Junction box
9	Reset top rod	19	M3 bolt
10	Reset spring		

Product function selection

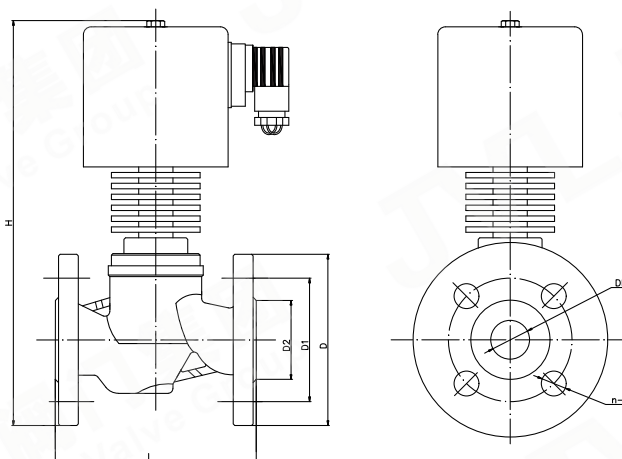| Symbol	Function mode	Content
Blank	Normally closed	Energized valve on, deenergized valve off
K	Normally open	Energized valve off, deenergized valve on
Notes	Anti-explosion level: Ex dbⅡ BT4 Gb、 Ex dbⅡ CT5 Gb special device related qualification please ask for from our sales	

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Thread connecting dimensiion(Figure 1)

Flange connection dimension(Figure 2)

Specification parameters of normally closed thread standard type products（Figure 1）

Type	Nominal diameter DN[mm]	Pipe thread [G]	Differential pressure range[bar]				Thread dimensions	
			Distributed direct acting mode		Distributed pilot mode			
			AC	DC	AC	DC	L	H
ZCGL15	15	G1/2"	0~16	0~10	-	-	92	218
ZCGL20	20	G3/4"	0~16	0~16	0~16	0.5~16	92	223
ZCGL25	25	G1"	0~15	0~14	0.5~16	0.5~16	110	229
ZCGL32	32	G1-1/4"	0~15	0~12	0.5~16	0.5~16	120	240
ZCGL40	40	G1-1/2"	0~10	0~8	0.5~16	0.5~16	140	252
ZCGL50	50	G2"	0~6	0~4	0.5~16	0.5~16	160	271

Specification parameters of flange normally closed standard type product(Figure 2)

Type	Nominal diameter DN[mm]	Distributed direct acting mode		Distributed pilot mode		Flange Size				
		AC	DC	AC	DC	L	H	D	D1	n-d
ZCGL15-F	15	0~16	0~10	-	-	115	240	95	65	4-φ14
ZCGL20-F	20	0~16	0~16	0~16	0.5~16	117	250	104	75	4-φ14
ZCGL25-F	25	0~15	0~14	0.5~16	0.5~16	125	252	114	85	4-φ14
ZCGL32-F	32	0~15	0~12	0.5~16	0.5~16	150	269	134	99	4-φ18
ZCGL40-F	40	0~10	0~8	0.5~16	0.5~16	160	250	150	110	4-φ18
ZCGL50-F	50	0~6	0~4	0.5~16	0.5~16	188	303	158	125	4-φ18
ZCGL65-F	65	-	-	1~16	1~16	290	300	185	145	4-φ18
ZCGL80-F	80	-	-	1~16	1~16	310	320	200	160	8-φ18
ZCGL100-F	100	-	-	1~16	1~16	350	330	220	180	8-φ18
ZCGL125-F	125	-	-	1~16	1~16	400	380	250	210	8-φ18
ZCGL150-F	150	-	-	1.5~16	1.5~16	480	400	285	240	8-φ22
ZCGL200-F	200	-	-	1.5~16	1.5~16	600	640	340	295	12-φ22
ZCGL250-F	250	-	-	1.5~16	1.5~16	650	670	405	355	12-φ26
ZCGL300-F	300	-	-	1.5~16	1.5~16	750	700	460	410	12-φ26

● Note: 1. The above technical parameters and installation size are standard designs. If the attached functional options or piping auxiliary is strict, the "external dimension drawing" should be obtained from our company.Other grades of pressure or special requirements shall be subject to the terms and conditions of the order.
2. When used in explosion–proof and other special occasions, we should ask for the explosion–proof solenoid valve "outline size drawing"
3. Metal alloy seal, according to the standard should allow slight leakage amount.