

KLS SERIES 2/2 WAY DIRECT ACTING SOLENOID VALVE



Feature

- ✓ Direct-acting solenoid valve, zero pressure, change quickly, start smooth, fluid can be vacuum.
- ✓ Compact structure, small size, light weight, easy repair.
- ✓ Body material stainless steel SUS304, solenoid valve coil heat-resistant grade H, rubber seal has better sealing performance and low pressure working conditions, wide range of applications.
- PTFE (Teflon) seals is suitable for a variety of working media, chemical fluids, especially for high temperature and steam, sealing performance is worse than rubber.
- ✓ Coil protection class IP65, IP67 and explosion-proof, the connection mode has flying wire type, DIN socket type, for different occasions.
- ✓ Long service life.

Ordering Code

KLS	030	- 08	- V	- NO	- D1	AC220V
Specification Code	Orifice Size	Port Size	Sealing Material	Blank:	Customized Coil	Standard Voltage
KLS: KLQD	020: 2mm	08: G1/4"	Blank: PTFE	Normally closed	D1: IP65 DIN 16433LP	DC12V
Stainless Steel	025: 2.5mm	10: G3/8"	V: VITON	NO:	D2: IP65 DIN AB410HP	DC24V
Compact Direct Acting Solenoid Valve	030: 3mm	Other customized	E: EPDM	Normally open	D3: IP65 DIN AB510LP	AC24V 50Hz/60Hz
	040: 4mm	N: NPT	SI: SI	T: DIN coil with Timer	D4: IP65 DIN AB510HP	AC110V 50Hz/60Hz
	050: 5mm	P: PT	Other customized		L: IP65 DIN Latching Coil (Limited to DC6, 12, 24)	AC220V 50Hz/60Hz
			Latching coil only use for rubber sealing.		LD1: IP65 DIN 16433LP with LED	Other customized
					LD2: IP65 DIN AB410HP with LED	
					LD3: IP65 DIN AB510LP with LED	
					LD4: IP65 DIN AB510HP with LED	
					LL: IP65 DIN coil with LED latching coil (Limited to DC6, 12, 24)	
					W: IP65 wiring type coil AB410B	
					Z: Ex-proof coil 1680	
					A: IP67 waterproof coil 16431	
					ES: Energy saving coil	
					Other customized coils	

Installation & Use

- ✓ Before installation, Check whether the component is damaged during the transportation.
- ✓ Coils has to be vertically up, pay attention to the flow direction and make sure thread is right. 40µm (or greater than 400 mesh) filter or filter mesh should be installed before solenoid valve.
- ✓ Check the installation conditions to meet the technical requirements (such as working pressure, temperature range, voltage range, etc.), then install and use.
- ✓ Try to avoid the vibration in the environment, and pay attention to antifreeze measures at low temperatures.
- ✓ When connecting the main pipeline, thread sealing gaskets should be inside of thread, clear the pipe dust, iron scurf and other impurity.

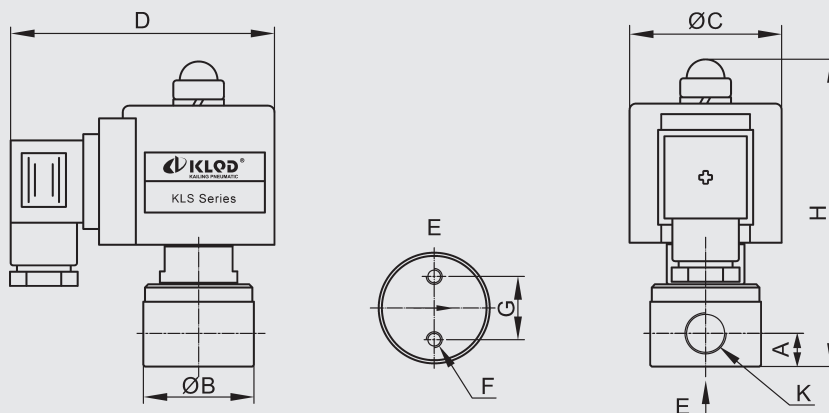
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Technical Specification

Item	Parameter				
Operation Medium	Steam, air, water, light oil (below 50CST fluid), micro-corrosive media, multiple chemical fluids				
Operation	Direct Acting				
Orifice Size	2.0mm	2.5mm	3mm	4mm	5mm
C Value	0.13	0.18	0.25	0.53	0.85
Pressure Difference	Zero pressure, the maximum pressure reference pressure table				
	When the medium is steam: the maximum operating pressure of 1.2MPa, short-term maximum operating pressure of 1.6MPa				
	Rubber: Max. 3.0MPa				
Operating Temperature	VITON: -10~150℃; PTFE: -20~+180℃; EPDM: -5~120℃				
Voltage Range	± 10%				
Protection Degree	IP65; IP67; Ex-proof Grade; Ex mb I Mb; Ex mb II T4 Gb; DIP A20 TA T4				
Insulation Class	H				
Installation	Horizontal or Slant				
Material of Body	SS304				

Overall Dimension

KLS-08、10



Dimension Sheet

Model	A	ΦB	ΦC	D	F	G	K	H
KLS-08	10.5	35	48	83.5	M5	20	G1/4"	89
KLS-08-NO								96
KLS-10	11.5	44			M5	27	G3/8"	93
KLS-10-NO								100

KLS SERIES 2/2 WAY DIRECT ACTING SOLENOID VALVE

Pressure Table

Model	Coil	Volatge	Power (W)	Temperature Rise (Coil heating minus ambient temperature)	Orifice	Max. Working Pressure (MPa)	Orifice	Max. Working Pressure (MPa)	Orifice	Max. Working Pressure (MPa)	Orifice	Max. Working Pressure (MPa)	Orifice	Max. Working Pressure (MPa)
KLS-08 KLS-10	D1: IP65 DIN 16433LP	AC24V	10	60°C	2.0mm	2.4	2.5mm	2.0	3.0mm	1.6	4.0mm	0.4	5.0mm	0.15
		AC110V	11			4.0		3.2		2.0		1.2		0.7
		AC220V	13			4.0		3.2		2.4		1.2		0.7
		DC12V	15			2.4		2.0		1.6		0.4		0.15
		DC24V				2.4		2.0		1.6		0.4		0.15
	D2: IP65 DIN AB410HP W: IP65 Wiring type coil AB410B	AC24V	12	75°C		3.2		2.5		1.8		0.6		0.3
		AC110V	14			5.0		4.0		2.6		1.6		1.0
		AC220V	15			5.0		4.0		2.6		1.6		1.0
		DC12V	25			3.2		2.5		1.8		0.4		0.2
		DC24V	18			3.2		2.5		1.8		0.6		0.3
	D3: IP65 DIN AB510LP	AC24V	15	70°C		5.0		4.0		2.2		1.4		0.8
		AC110V	15			6.0		5.0		3.2		2.2		1.4
		AC220V	15			6.0		5.0		3.2		2.2		1.4
		DC12V	21			5.0		4.0		2.2		1.4		0.8
		DC24V	21			5.0		4.0		2.2		1.4		0.8
	D4: IP65 DIN AB510HP	AC24V	20	90°C		6.0		5.0		4.0		2.2		1.4
		AC110V	20			7.0		6.0		5.0		3.0		2.0
		AC220V	20			7.0		6.0		5.0		3.0		2.0
		DC12V	27			6.0		5.0		4.0		2.2		1.4
		DC24V	27			6.0		5.0		4.0		2.2		1.4
	L: IP65 DIN coil with LED latching coil	DC12V	25	Ambient Temperature		3.0		2.5		1.8		0.4		0.15
		DC24V				3.0		2.5		1.8		0.4		0.15
	A: IP67 Waterproof coil 16431	AC24V	10	60°C		3.0		2.4		1.6		1.2		0.6
		AC110V	12			5.0		4.0		2.8		2.0		1.2
		AC220V	13			5.0		4.0		2.8		2.0		1.2
		DC12V	14			2.2		1.6		0.7		0.2		0.1
		DC24V	17			4.0		3.2		1.6		1.2		0.6
	Z: Ex-proof coil 1680	AC110V	13	40°C		4.0		3.2		2.6		2.0		1.2
		AC220V	14			4.0		3.2		2.6		2.0		1.2
		DC12V	16			3.5		2.8		1.6		0.4		0.15
		DC24V	16			3.5		2.8		1.6		0.4		0.15

Model	Coil	Volatge	Power (W)	Temperature Rise (Coil heating minus ambient temperature)	Orifice	Max. Working Pressure (MPa)	Orifice	Max. Working Pressure (MPa)	Orifice	Max. Working Pressure (MPa)	Orifice	Max. Working Pressure (MPa)	Orifice	Max. Working Pressure (MPa)
KLS-08-NO KLS-10-NO	D1: IP65 DIN 16433LP	AC24V	10	60°C	2.0mm	2.4	2.5mm	1.6	3.0mm	1.0	4.0mm	0.5	5.0mm	0.2
		AC110V	11			3.2		2.4		1.6		0.8		0.35
		AC220V	13			3.2		2.4		1.6		0.8		0.35
		DC12V	15			2.4		1.6		1.0		0.5		0.2
		DC24V				2.4		1.6		1.0		0.5		0.2
	D2: IP65 DIN AB410HP W: IP65 Wiring type coil AB410B	AC24V	12	75°C		2.4		1.6		1.0		0.5		0.2
		AC110V	14			3.2		2.4		1.6		0.8		0.35
		AC220V	15			4.0		3.0		2.2		1.0		0.5
		DC12V	25			2.4		1.6		1.0		0.5		0.2
		DC24V	18			2.4		1.6		1.0		0.5		0.2
	D3: IP65 DIN AB510LP	AC24V	15	70°C		3.2		2.4		1.6		0.8		0.35
		AC110V	15			4.0		3.0		2.2		1.0		0.5
		AC220V	15			4.0		3.0		2.2		1.0		0.5
		DC12V	21			3.2		2.4		1.6		0.8		0.35
		DC24V	21			3.2		2.4		1.6		0.8		0.35
	D4: IP65 DIN AB510HP	AC24V	20	90°C		4.0		3.0		2.2		1.0		0.5
		AC110V	20			4.0		3.0		2.2		1.0		0.5
		AC220V	20			5.0		4.0		2.8		1.4		0.8
		DC12V	27			4.0		3.0		2.2		1.0		0.5
		DC24V	27			4.0		3.0		2.2		1.0		0.5
	A: IP67 Waterproof coil 16431	AC24V	10	60°C		2.4		1.6		1.0		0.5		0.2
		AC110V	12			3.2		2.4		1.6		0.8		0.35
		AC220V	13			4.0		3.0		2.2		1.0		0.5
		DC12V	14			2.4		1.6		1.0		0.5		0.2
		DC24V	17			2.4		1.6		1.0		0.5		0.2
	Z: Ex-proof coil 1680	AC110V	13	40°C		4.0		3.0		2.2		1.0		0.5
		AC220V	14			4.0		3.0		2.2		1.0		0.5
		DC12V	16			2.4		1.6		1.0		0.5		0.2
		DC24V	16			2.4		1.6		1.0		0.5		0.2