



COMPANY PROFILE

*the best value comes from the integrity of
successful & working perfectly.*



EM-FLOW ENVIRONMENTAL TECHNOLOGY CO., LTD.

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Company Profile

EM-FLOW ENVIRONMENTAL TECHNOLOGY CO., LTD. is an experiences manufacturer, export and supplier of electric solenoid valve and spare parts. We offers a wide range of solenoid use in water, hot water, gas, air and steam with 12VDC, 24VDC AC110V or AC220V. In addition, you will receive associated appliance connectors and seals in various designs. Brass, stainless steel or plastic solenoid valves are available as 2- or 3-way valves, pilot operated or direct acting. The valves are NC (normally closed) or NO (normally open). With us, you not only receive individual advice from competent specialist staff, but also first-class customer-specific solutions.

We owns and utilize a variety of equipment, drilling machines, CNC machines and polishing machines. Significantly improve the efficiency of production. As well as perfect inspection equipments (3D Projectors, pressure test machine etc.) to guarantee quality and satisfy customer's requirements and trust.

EM-FLOW ENVIRONMENTAL TECHNOLOGY CO., LTD. have obtained the ISO9001:2008 certification. The company gathers lots of R&D talents and international standard Management talents. With the best quality and competitive prices, our products have enjoyed good reputation overseas. Our clients are extended from Taiwan to Southeast Asia, America, Russia, Eastern Europe and other developed countries.



Contents

ZW Compact Series Solenoid Valve-Normally Closed	1
ZW Compact Series Solenoid Valve-Normally Open	2
ZW Large Diameter Brass Solenoid Valve-Normally Closed	3
	4
ZW Large Diameter Brass Solenoid Valve-Normally Open	5
	6
ZW Large Diameter Stainless Steel Solenoid Valve-Normally Closed	7
	8
ZW Large Diameter Stainless Steel Solenoid Valve-Normally Open	9
	10
ZW Large Diameter Brass Solenoid Valve-Normally Closed	11
	12
ZW UPVC and CPVC Solenoid Valve-Normally Closed	13
	14
0927 Pilot Operated Solenoid Valve -Normally Closed	15
0955 Pilot Operated Solenoid Valve-Normally Open	16
SLP Large Diameter Pilot Operated Solenoid Valve-Normally Closed	17
	18
SLP Compact Series Solenoid Valve-Normally Closed	19
	20
SLP Large Diameter Flange Solenoid Valve-Normally Closed	21
	22
2L Steam Pilot Operated Solenoid Valve-Normally Closed	23
	24
SLA Pilot Operated Solenoid Valve-Normally Closed	25
SLDF Water Fountain Solenoid Valve-Normally Closed	26
ZCM Gas Explosion-Proof Solenoid Valve -Normally Closed	27
ZCT Stainless Steel Solenoid Valve-Normally Closed	28
ZW Large Diameter Flange Solenoid Valve -Normally Closed	29
	30
DF Liquid Flange Solenoid Valve Normally Closed	31
	32
DF Liquid Solenoid Valve-Normally Closed	33
ZQDF Zero Pressure Solenoid Valve-Normally Closed	34
Bag filter Rectangular Pulse Valve	35
	36
SLB 2/2-Way Direct-acting High (low) Temperature Solenoid Valve Series	37
VALVE BODY ,SEALING MATERIAL REFERENCE TABLE	38
SOLENOID VALVE ACCESSORIES (COIL)	39
	40

2W Compact Series Solenoid Valve-Normally Closed

Technical Specifications

Medium: Air,Gas,Water,Liquid,Oil(below 20cts)
 Orifice: 2.5-6mm
 Temperature: -5~80°C
 Voltage: AC220V,AC110V,DC24V,DC12V
 Connection: G-Thread,NPT-Thread
 Mode of action: Direct acting
 Pressure: Normally Closed(N/C):10bar
 Normally Open(N/O):6bar
 Body material: Brass,Stainless Steel
 Sealing material: NBR,EPDM,VITON
 Protection class: IP65 IP54



Options

EPDM(E):suitable to water,hot,water,gas,freon,the max.110°C; In case you choose EPDM, please state "E" in your order.
 Viton(V):suitable to hot water,acid,alkali,chemical salt,oil and hydrocarbon;the MAX. 130°C. In case you choose Viton,please state"V" in your order.
 Metal coverd coil(IP54) is standard.
 Thread: If different from G connection, it should be indicated.

Ordering Code

Valve Type	Orifice	Pipe Size	Connection	Voltage	Coils	Function Type	Sealing	Body Material
2W	025	06	N	AC220V	D	H	V	J
	025-2.5mm	06:1/8"	Black:G-Thread	AC220V	Black:Common	Black:N/C	Blank:NBR	Black:Brass
	040-4.0mm	08:1/4"	N:NPT Thread	AC110V	A:Metallic Housing	H:N/O	E:EPDM	J:Stainless steel
	060-6.0mm	10:3/8"		DC24V	D:DIN Plastic		V:VITON	
				DC12V				

Valve Selection List

Mode code	2W025-06	2W025-08	2W040-08	2W040-10	2W060-10
Pipe Size	1/8"		1/4"	3/8"	3/8"
Orifice(mm)	2.5	2.5	4	4	6
Cv Factor		0.2		0.3	0.7
Fluid Media	Air, Water, Oil, Gas				
Operation Mode	Direct Acting				
Type	Normally Closed				
Viscosity	Under 20CTS				
L(mm)	38	38	52	52	52
H(mm)	72	72	84	84	84
Operation Pressure(bar)	N/C:0-10		N/O:0-6		
Available Voltage	AC220V AC110V DC24V DC12V ±10%				
Body Material	Brass				
Seals Material	Standard:fluid temperature is below NBR 80 °C, available: VITON under 130°C				

Note: In case use for special pressure, voltages,sealing and so on, please state with your order.

2W Compact Series Solenoid Valve-Normally Open

Technical Specifications

Medium: Air,Gas,Water,Liquid,Oil(below 20cts)
 Orifice: 2.5-6mm
 Temperature: -5~80°C
 Voltage: AC220V,AC110V,DC24V,DC12V
 Connection: G-Thread,NPT-Thread
 Mode of action:Direct acting
 Pressure: Normally Closed(N/C):10bar
 Normally Open(N/O):6bar
 Body material: Brass,Stainless Steel
 Sealing material: NBR,EPDM,VITON
 Protection class: IP65 IP54



Options

EPDM(E):suitable to water,hot,water,gas,freon,the max.110°C; In case you choose EPDM, please state "E" in your order.
 Viton(V):suitable to hot water,acid,alkali,chemical salt,oil and hydrocarbon;the MAX. 130°C. In case you choose Viton,please state"V" in your order.
 Metal coverd coil(IP54) is standard.
 Thread: If different from G connection, it should be indicated.

Ordering Code

Valve Type	Orifice	Pipe Size	Connection	Voltage	Coils	Function Type	Sealing	Body Material
2W	025	06	N	AC220V	D	H	V	J
	025-2.5mm	06:1/8"	Black:G-Thread	AC220V	Black:Common	Black:N/C	Blank:NBR	Black:Brass
	040-4.0mm	08:1/4"	N:NPT Thread	AC110V	A:Metallic Housing	H:N/O	E:EPDM	J:Stainless steel
	060-6.0mm	10:3/8"		DC24V	D:DIN Plastic		V:VITON	
				DC12V				

Valve Selection List

Mode code	2W025-06H	2W025-08H	2W040-08H	2W040-10H	2W060-10H
Pipe Size	1/8"		1/4"	3/8"	3/8"
Orifice(mm)	2.5	2.5	4	4	6
Cv Factor		0.2		0.3	0.7
Fluid Media	Air, Water, Oil, Gas				
Operation Mode	Direct Acting				
Type	Normally Closed				
Viscosity	Under 20CTS				
L(mm)	38	38	52	52	52
H(mm)	72	72	86	86	86
Operation Pressure(bar)	N/C:0-10		N/O:0-6		
Available Voltage	AC220V AC110V DC24V DC12V ±10%				
Body Material	Brass				
Seals Material	Standard:fluid temperature is below NBR 80 °C, available: VITON under 130°C				

Note: In case use for special pressure, voltages,sealing and so on, please state with your order.

2W Large Diameter Brass Solenoid Valve-Normally Closed



Technical Specifications

Medium: Air, Gas, Water, Liquid, Oil (below 20cts)
 Orifice: 16-50mm
 Temperature: -5~80°C
 Voltage: AC220V, AC110V, DC24V, DC12V
 Connection: G-Thread, NPT-Thread
 Mode of action: Sime-direct acting
 Pressure: Normally Closed(N/C): 10bar
 Normally Open(N/O): 6bar
 Body material: Brass, Stainless Steel
 Sealing material: NBR, EPDM, VITON
 Protection class: IP65 IP54

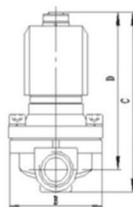
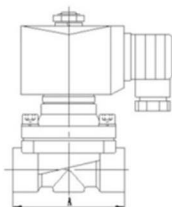


Options

EPDM(E): suitable to water, hot water, gas, freon, the max. 110°C;
 In case you choose EPDM, please state "E" in your order.
 Viton(V): suitable to hot water, acid, alkali, chemical salt, oil and hydrocarbon; the MAX. 130°C. In case you choose Viton, please state "V" in your order.
 Metal cover coil(IP54) is standard.
 Thread: If different from G connection, it should be indicated.

Overall Dimension Chart

Dimension Sheet(mm)



Part	A	B	C	D	Weight (kg)
2W160-10	63	56	106	95	0.62
2W160-15	63	56	106	95	0.6
2W200-20	66	56	110	97	0.65
2W250-25	90	72	118	99	0.88
2W350-35	109	88	155	140	1.8
2W400-40	115	95	162	142	2.1
2W500-50	155	111	195	160	2.9

Ordering Code

Valve Type	Orifice	Pipe Size	Connection	Voltage	Coils	Function Type	Sealing	Body Material
2W	160	10"	N	AC220V	D	H	V	J
	160-16mm	10: 3/8"	Black-G-Thread	AC220V	Black/Common	Black/N/C	Blank-NBR	Black-Brass
	200-20mm	15: 1/2"	N/NPT Thread	AC110V	A-Metallic Housing	H/N/O	E-EPDM	J-Stainless steel
	250-25mm	20: 3/4"		DC24V	D: DIN Plastic		V: VITON	
	350-35mm	25: 1"		DC12V				
	400-40mm	35: 1 1/4"						
	500-50mm	40: 1 1/2"						
		50: 2"						

Valve Selection List

Pipe Connection	Orifice (mm)	Cv	Working Pressure (kgf/cm ²)						Max. Temp. C	Sealing Material	Coil Power		Normal Order Code	
			Min	Air, Gas	Water, Liqui	Light Oil	VA	W						
											AC	DC		AC
3/8"	16	4.8	0	10	6	10	6	10	6	80	NBR	20	20	2W160-10
				10	6	10	6	10	6	130	EPDM			2W160-10-E
				10	6	10	6	10	6	120	VITON			2W160-10-V
1/2"	16	4.8	0	10	6	10	6	10	6	80	NBR	20	20	2W160-15
				10	6	10	6	10	6	130	EPDM			2W160-15-E
				10	6	10	6	10	6	120	VITON			2W160-15-V
3/4"	20	7.6	0	10	6	10	6	10	6	80	NBR	20	20	2W200-20
				10	6	10	6	10	6	130	EPDM			2W200-20-E
				10	6	10	6	10	6	120	VITON			2W200-20-V
1"	25	12	0	10	6	10	6	10	6	80	NBR	20	32	2W250-25
				10	6	10	6	10	6	130	EPDM			2W250-25-E
				10	6	10	6	10	6	120	VITON			2W250-25-V
1-1/4"	35	24	0	10	6	10	6	10	6	80	NBR	30	38	2W350-35
				10	6	10	6	10	6	130	EPDM			2W350-35-E
				10	6	10	6	10	6	120	VITON			2W350-35-V
1-1/2"	40	29	0	10	6	10	6	10	6	80	NBR	30	38	2W400-40
				10	6	10	6	10	6	130	EPDM			2W400-40-E
				10	6	10	6	10	6	120	VITON			2W400-40-V
2"	50	48	0	10	6	10	6	10	6	80	NBR	30	38	2W500-50
				10	6	10	6	10	6	130	EPDM			2W500-50-E
				10	6	10	6	10	6	120	VITON			2W500-50-V

2W Large Diameter Brass Solenoid Valve-Normally Open



Technical Specifications

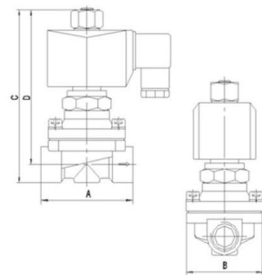
Medium: Air, Gas, Water, Liquid, Oil (below 20cts)
 Orifice: 16-50mm
 Temperature: -5~80°C
 Voltage: AC220V, AC110V, DC24V, DC12V
 Connection: G-Thread, NPT-Thread
 Mode of action: Sime-direct acting
 Pressure: Normally Closed(N/C): 10bar
 Normally Open(N/O): 6bar
 Body material: Brass, Stainless Steel
 Sealing material: NBR, EPDM, VITON
 Protection class: IP65 IP54



Options

EPDM(E): suitable to water, hot water, gas, freon, the max. 110°C;
 In case you choose EPDM, please state "E" in your order.
 Viton(V): suitable to hot water, acid, alkali, chemical salt, oil and hydrocarbon; the MAX. 130°C. In case you choose Viton, please state "V" in your order.
 Metal coverd coil(IP54) is standard.
 Thread: If different from G connection, it should be indicated.

Overall Dimension Chart



Dimension Sheet(mm)

Part	A	B	C	D	Weight (kg)
2W160-10H	63	56	117	102	0.7
2W160-15H	63	56	117	102	0.69
2W200-20H	66	56	122	109	0.7
2W250-25H	85	72	130	112	0.95
2W320-32H	109	18	140	120	1.2
2W400-40H	107	88	155	135	1.5
2W500-50H	135	93	170	140	2

Ordering Code

Valve Type	Orifice	Pipe Size	Connection	Voltage	Coils	Function Type	Sealing	Body Material
2W	160	10	N	AC220V	D	H	V	J
	160-16mm	10: 3/8"	Black-G-Thread	AC220V	Black/Common	Black/N/C	Blank-NBR	Black-Brass
	200-20mm	15: 1/2"	N-NPT Thread	AC110V	A-Metallic Housing	H/N/O	E-EPDM	Black-Steel
	250-25mm	20: 3/4"		DC24V	D: DIN Plastic		V: VITON	
	320-32mm	25: 1"		DC12V				
	400-40mm	32: 1 1/4"						
	500-50mm	40: 1 1/2"						
		50: 2"						

Valve Selection List

Pipe Connection	Orifice (mm)	Cv	Working Pressure (kgf/cm ²)						Max. Temp. C	Sealing Material	Coil Power		Normal Order Code
			Min	Air, Gas	Water, Liquid	Light Oil	VA	W					
											AC	DC	
3/8"	16	4.8	0	6	6	6	6	80	NBR	20	20	2W160-10-H	
				6	6	6	6	130	EPDM			2W160-10-H-E	
				6	6	6	6	120	VITON			2W160-10-H-V	
1/2"	16	4.8	0	6	6	6	6	80	NBR	20	20	2W160-15-H	
				6	6	6	6	130	EPDM			2W160-15-H-E	
				6	6	6	6	120	VITON			2W160-15-H-V	
3/4"	20	7.6	0	6	6	6	6	80	NBR	20	20	2W200-20-H	
				6	6	6	6	130	EPDM			2W200-20-H-E	
				6	6	6	6	120	VITON			2W200-20-H-V	
1"	25	12	0	6	6	6	6	80	NBR	20	32	2W250-25-H	
				6	6	6	6	130	EPDM			2W250-25-H-E	
				6	6	6	6	120	VITON			2W250-25-H-V	
1-1/4"	32	22	0	6	6	6	6	80	NBR	30	38	2W320-32-H	
				6	6	6	6	130	EPDM			2W320-32-H-E	
				6	6	6	6	120	VITON			2W320-32-H-V	
1-1/2"	40	29	0	6	6	6	6	80	NBR	30	38	2W400-40-H	
				6	6	6	6	130	EPDM			2W400-40-H-E	
				6	6	6	6	120	VITON			2W400-40-H-V	
2"	50	48	0	6	6	6	6	80	NBR	30	38	2W500-50-H	
				6	6	6	6	130	EPDM			2W500-50-H-E	
				6	6	6	6	120	VITON			2W500-50-H-V	

2W Large Diameter Stainless Steel Solenoid Valve-Normally Closed



Technical Specifications

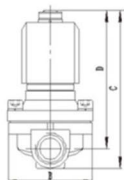
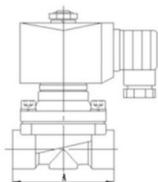
Medium: Air, Gas, Water, Liquid, Oil (below 20cts)
 Orifice: 16-50mm
 Temperature: -5~80°C
 Voltage: AC220V, AC110V, DC24V, DC12V
 Connection: G-Thread, NPT-Thread
 Mode of action: Sime-direct acting
 Pressure: Normally Closed(N/C): 10bar
 Normally Open(N/O): 6bar
 Body material: Brass, Stainless Steel
 Sealing material: NBR, EPDM, VITON
 Protection class: IP65 IP54

Options

EPDM(E): suitable to water, hot water, gas, freon, the max. 110°C;
 In case you choose EPDM, please state "E" in your order.
 Viton(V): suitable to hot water, acid, alkali, chemical salt, oil and hydrocarbon; the MAX. 130°C. In case you choose Viton, please state "V" in your order.
 Metal coverd coil(IP54) is standard.
 Thread: If different from G connection, it should be indicated.



Overall Dimension Chart



Dimension Sheet(mm)

Part	A	B	C	D	Weight (kg)
2W160-10J	69	52	112	100	0.8
2W160-15J	69	52	112	100	0.75
2W200-20J	73	57	117	102	0.85
2W250-25J	98	77	122	105	1.2
2W350-35J	111	86	155	130	2
2W400-40J	120	94	165	135	2.2
2W500-50J	163	112	190	160	3.8

Ordering Code

Valve Type	Orifice	Pipe Size	Connection	Voltage	Coils	Function Type	Sealing	Body Material
2W	160	10"	N	AC220V	D	H	V	J
	160-16mm	10: 3/8"	Black-G-Thread	AC220V	Black/Common	Black/N/C	Blank-NBR	Black-Brass
	200-20mm	15: 1/2"	N/NPT Thread	AC110V	A-Metallic Housing	H/N/O	E-EPDM	J-Stainless steel
	250-25mm	20: 3/4"		DC24V	D: DIN Plastic		V: VITON	
	350-35mm	25: 1"		DC12V				
	400-40mm	32: 1 1/4"						
	500-50mm	40: 1 1/2"						
		50: 2"						

Valve Selection List

Pipe Connection	Orifice (mm)	Cv	Working Pressure (kgf/cm ²)						Max. Temp. C	Sealing Material	Coil Power		Normal Order Code	
			Min	Air, Gas		Water, Liquid		Light Oil			VA	W		
				AC	DC	AC	DC							AC
3/8"	16	4.8	0	10	6	10	6	10	6	80	NBR	20	20	2W160-10-J
				10	6	10	6	10	6	130	EPDM			2W160-10-E-J
				10	6	10	6	10	6	120	VITON			2W160-10-V-J
1/2"	16	4.8	0	10	6	10	6	10	6	80	NBR	20	20	2W160-15-J
				10	6	10	6	10	6	130	EPDM			2W160-15-E-J
				10	6	10	6	10	6	120	VITON			2W160-15-V-J
3/4"	20	7.6	0	10	6	10	6	10	6	80	NBR	20	20	2W200-20-J
				10	6	10	6	10	6	130	EPDM			2W200-20-E-J
				10	6	10	6	10	6	120	VITON			2W200-20-V-J
1"	25	12	0	10	6	10	6	10	6	80	NBR	20	32	2W250-25-J
				10	6	10	6	10	6	130	EPDM			2W250-25-E-J
				10	6	10	6	10	6	120	VITON			2W250-25-V-J
1-1/4"	35	24	0	10	6	10	6	10	6	80	NBR	30	38	2W350-35-J
				10	6	10	6	10	6	130	EPDM			2W350-35-E-J
				10	6	10	6	10	6	120	VITON			2W350-35-V-J
1-1/2"	40	29	0	10	6	10	6	10	6	80	NBR	30	38	2W400-40-J
				10	6	10	6	10	6	130	EPDM			2W400-40-E-J
				10	6	10	6	10	6	120	VITON			2W400-40-V-J
2"	50	48	0	10	6	10	6	10	6	80	NBR	30	38	2W500-50-J
				10	6	10	6	10	6	130	EPDM			2W500-50-E-J
				10	6	10	6	10	6	120	VITON			2W500-50-V-J

2W Large Diameter Stainless Steel Solenoid Valve-Normally Open



Technical Specifications

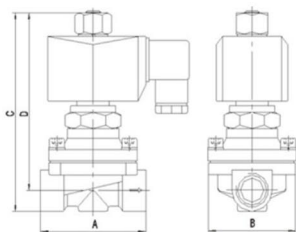
Medium: Air, Gas, Water, Liquid, Oil (below 20cts)
 Orifice: 16-50mm
 Temperature: -5~80°C
 Voltage: AC220V, AC110V, DC24V, DC12V
 Connection: G-Thread, NPT-Thread
 Mode of action: Sime-direct acting
 Pressure: Normally Closed(N/C): 10bar
 Normally Open(N/O): 6bar
 Body material: Brass, Stainless Steel
 Sealing material: NBR, EPDM, VITON
 Protection class: IP65 IP54

Options

EPDM(E): suitable to water, hot water, gas, freon, the max. 110°C;
 In case you choose EPDM, please state "E" in your order.
 Viton(V): suitable to hot water, acid, alkali, chemical salt, oil and hydrocarbon; the MAX. 130°C. In case you choose Viton, please state "V" in your order.
 Metal cover coil(IP54) is standard.
 Thread: If different from G connection, it should be indicated.



Overall Dimension Chart



Dimension Sheet (mm)

Part	A	B	C	D	Weight (kg)
2W160-10UJ	69	52	120	107	0.88
2W160-15UJ	69	52	120	107	0.83
2W200-20UJ	73	57	126	110	0.95
2W250-25UJ	98	77	133	113	1.3
2W350-35UJ	111	86	150	126	2.2
2W400-40UJ	120	94	155	127	2.5
2W500-50UJ	163	112	200	167	4

Ordering Code

Valve Type	Orifice	Pipe Size	Connection	Voltage	Coils	Function Type	Sealing	Body Material
2W	250	25	N	AC220V	D	H	V	J
	160-16mm	10: 3/8"	Black-G-Thread	AC220V	Black/Common	Black/N/C	Blank-NBR	Black-Brass
	200-20mm	15: 1/2"	N-NPT Thread	AC110V	A-Metallic Housing	H/N/O	E-EPDM	J-Stainless steel
	250-25mm	20: 3/4"		DC24V	D:DIN Plastic		V:VITON	
	350-35mm	25: 1"		DC12V				
	400-40mm	35: 1 1/4"						
	500-50mm	40: 1 1/2"						

Valve Selection List

Pipe Connection	Orifice (mm)	Cv	Working Pressure (kgf/cm ²)						Max. Temp. °C	Sealing Material	Coil Power		Normal Order Code	
			Min	Air, Gas	Water, Liquid	Light Oil	VA	W						
				AC	DC	AC					DC	AC		DC
3/8"	16	4.8	0	10	6	10	6	10	6	80	NBR	20	20	2W160-10-H-J
				10	6	10	6	10	6	130	EPDM			2W160-10-H-E-J
				10	6	10	6	10	6	120	VITON			2W160-10-H-V-J
1/2"	16	4.8	0	10	6	10	6	10	6	80	NBR	20	20	2W160-15-H-J
				10	6	10	6	10	6	130	EPDM			2W160-15-H-E-J
				10	6	10	6	10	6	120	VITON			2W160-15-H-V-J
3/4"	20	7.6	0	10	6	10	6	10	6	80	NBR	20	20	2W200-20-H-J
				10	6	10	6	10	6	130	EPDM			2W200-20-H-E-J
				10	6	10	6	10	6	120	VITON			2W200-20-H-V-J
1"	25	12	0	10	6	10	6	10	6	80	NBR	20	32	2W250-25-H-J
				10	6	10	6	10	6	130	EPDM			2W250-25-H-E-J
				10	6	10	6	10	6	120	VITON			2W250-25-H-V-J
1-1/4"	35	24	0	10	6	10	6	10	6	80	NBR	30	38	2W350-35-H-J
				10	6	10	6	10	6	130	EPDM			2W350-35-H-E-J
				10	6	10	6	10	6	120	VITON			2W350-35-H-V-J
1-1/2"	40	29	0	10	6	10	6	10	6	80	NBR	30	38	2W400-40-H-J
				10	6	10	6	10	6	130	EPDM			2W400-40-H-E-J
				10	6	10	6	10	6	120	VITON			2W400-40-H-V-J
2"	50	48	0	10	6	10	6	10	6	80	NBR	30	38	2W500-50-H-J
				10	6	10	6	10	6	130	EPDM			2W500-50-H-E-J
				10	6	10	6	10	6	120	VITON			2W500-50-H-V-J

ZW Large Diameter Brass Solenoid Valve-Normally Closed

Technical Specifications

Medium: Air, Gas, Water, Liquid, Oil (below 20cts)
 Orifice: 16-50mm
 Temperature: -5~80°C
 Voltage: AC220V, AC110V, DC24V, DC12V
 Connection: G-Thread, NPT-Thread
 Mode of action: Sime-direct acting
 Pressure: Normally Closed(N/C): 10bar
 Normally Open(N/O): 6bar
 Body material: Brass, Stainless Steel
 Sealing material: NBR, EPDM, VITON
 Protection class: IP65 IP54

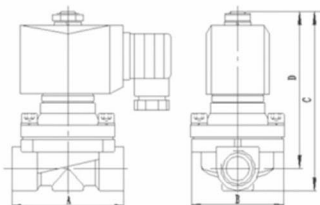


Options

EPDM(E): suitable to water, hot water, gas, freon, the max. 110°C;
 In case you choose EPDM, please state "E" in your order.
 Viton(V): suitable to hot water, acid, alkali, chemical salt, oil and hydrocarbon; the MAX. 130°C. In case you choose Viton, please state "V" in your order.
 Metal coverd coil(IP54) is standard.
 Thread: If different from G connection, it should be indicated.



Overall Dimension Chart



Dimension Sheet(mm)

Part	A	B	C	D	Weight (kg)
ZW160-15	67	56	110	96	0.78
ZW200-20	70	56	117	100	0.86
ZW250-25	98	75	127	106	1.4
ZW350-35	111	84	162	137	2.3
ZW400-40	120	89	168	140	2.5
ZW500-50	150	108	190	156	3.7

Ordering Code

Valve Type	Orifice	Pipe Size	Connection	Voltage	Coils	Function Type	Sealing	Body Material
ZW	160	15	N	AC220V	D	H	V	J
	160-16mm	15: 1/2"	Black-G-Thread	AC220V	Black/Common	Black/N/C	Blank-NBR	Black-Brass
	200-20mm	20: 3/4"	N-NPT Thread	AC110V	A-Metallic Housing	H/N/O	E-EPDM	J-Stainless steel
	250-25mm	25: 1"		DC24V	D: DIN Plastic		V: VITON	
	350-35mm	32: 1 1/4"		DC12V				
	400-40mm	40: 1 1/2"						
	500-50mm	50: 2"						

Valve Selection List

Pipe Connection	Orifice (mm)	Cv	Working Pressure (kgf/cm ²)						Max. Temp. °C	Sealing Material	Coil Power		Normal Order Code	
			Min	Air, Gas		Water, Liquid		Light Oil			VA	W		
				AC	DC	AC	DC							AC
3/8"	16	4.8	0	10	6	10	6	10	6	80	NBR	20	20	ZW160-10
				10	6	10	6	10	6	130	EPDM			ZW160-10-E
				10	6	10	6	10	6	120	VITON			ZW160-10-V
1/2"	16	4.8	0	10	6	10	6	10	6	80	NBR	20	20	ZW160-15
				10	6	10	6	10	6	130	EPDM			ZW160-15-E
				10	6	10	6	10	6	120	VITON			ZW160-15-V
3/4"	20	7.6	0	10	6	10	6	10	6	80	NBR	20	20	ZW200-20
				10	6	10	6	10	6	130	EPDM			ZW200-20-E
				10	6	10	6	10	6	120	VITON			ZW200-20-V
1"	25	12	0	10	6	10	6	10	6	80	NBR	20	32	ZW250-25
				10	6	10	6	10	6	130	EPDM			ZW250-25-E
				10	6	10	6	10	6	120	VITON			ZW250-25-V
1-1/4"	35	24	0	10	6	10	6	10	6	80	NBR	30	38	ZW350-35
				10	6	10	6	10	6	130	EPDM			ZW350-35-E
				10	6	10	6	10	6	120	VITON			ZW350-35-V
1-1/2"	40	29	0	10	6	10	6	10	6	80	NBR	30	38	ZW400-40
				10	6	10	6	10	6	130	EPDM			ZW400-40-E
				10	6	10	6	10	6	120	VITON			ZW400-40-V
2"	50	48	0	10	6	10	6	10	6	80	NBR	30	38	ZW500-50
				10	6	10	6	10	6	130	EPDM			ZW500-50-E
				10	6	10	6	10	6	120	VITON			ZW500-50-V

2W UPVC and CPVC Solenoid Valve-Normally Closed

Technical Specifications



The introduction of UPVC solenoid valve

UPVC, also known as hard PVC, is an amorphous hot resin made by polymerization of vinyl chloride monomer and certain additives. It has strong mechanical properties, wear resistance, flame resistance, good dielectric properties, excellent corrosion resistance, which can adapt to the general corrosion of the fluid.

1. UPVC solenoid valve unique structural process

- The fluid is completely separated from the metal parts (moving iron core, spring), realizing the real corrosion resistance in the structure;
- Piston instead of diaphragm, solenoid valve service life greatly increased;
- The pilot hole has very large diameter, short and straight path, which is not easy to be blocked by the crystallinity in the fluid from the particle precipitate (silt in the water and the crystalline salt in the brine);
- Embedded sealing structure makes sealing performance more reliable.

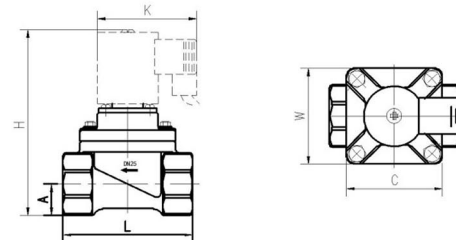
2. Advantages of UPVC solenoid valve

- Electromagnetic zero leakage;
- The aperture of the electromagnetic flow is the standard value, which meets the corresponding flow requirements;
- The electromagnetic particles in the two fluids have strong adaptability to sediment, which is used in sewage treatment, agriculture, forestry, irrigation, seawater desalination, and aquaculture. The acidic and alkaline fluids in the industrial process have obvious advantages, especially in the crystallizable fluids such as phosphoric acid;
- UPVC material seals used by the United States health foundation (NSF) has passed the health and safety certification, in line with international standards for environmental drinking water.

Ordering Code

Valve Type	Pipe Size	Connection	Voltage	Function Type	Body Material
2W	20	N	AC220V	H	ZP
	15: 1/2"	Black/G-Thread	AC220V	Black/N/C	ZP-UPVC
	20: 3/4"	N:NPT Thread	DC24V	H/N/O	ZC-CPVC
	25: 1"	F:Flange			
	32: 1 1/4"				
	40: 1 1/2"				
	50: 2"				

Overall Dimension Chart



Overall Dimension (mm)

Model	Connection Port	Overall Dimension (mm)						
		L	H	W	C	A	K	D
2W15ZP	1/2"	75	132	63.5	63.5	16	92	φ64
2W20ZP	3/4"	80	137	63.5	63.5	19	92	φ75
2W25ZP	1"	100	147	74	74	26	92	φ85
2W32ZP	1 1/4"	120	171	94	94	30	94	φ100
2W40ZP	1 1/2"	130	180	94	94	32.5	94	φ110
2W50ZP	2"	172	225	155	155	42	94	φ125

Valve Selection List

Mode code	2W15ZP	2W20ZP	2W25ZP	2W32ZP	2W40ZP	2W50ZP
Pipe Size	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Orifice(mm)	15	20	25	32	40	50
Cv Factor	4	5.5	13	17	25	40
Fluid Media	Acid, Alkali, Corrosive Liquid, Air					
Operation Mode	Pilot Operated					
Type	Normally Closed					
Viscosity	Under 20CTS					
Interface	G Thread, NPT Thread					
Operation Pressure(bar)	0.1~6					
Available Voltage	AC220V AC110V DC24V DC12V ±10%					
Body Material	UPVC/CPVC					
Seals Material	EPDM/FKM					

Note: In case use for special pressure, voltages, sealing and so on, please state with your order.

■ 0927 Pilot Operated Solenoid Valve -Normally Closed

Technical Specifications

Medium: Air, Gas, Water, Oil (below 20cts)
 Orifice: 12-50mm
 Medium Temperature: -5~80°C
 Voltage: AC220V, AC110V, DC24V, DC12V
 Connection: G-Thread, NPT-Thread
 Mode of action: Pilot Operated
 Pressure: Normally closed type: 0.5~16bar
 Body material: Brass
 Sealing material: NBR
 Protection class: IP65

Options

0927 two position two-way diaphragm type solenoid valve is the original part of switch in modern industrial line. By using the electromagnetic suction and working pressure difference of the medium, the automatic control of the gas, liquid, oil, weak acid, weak base media is completed in the system.



Valve Selection List

MODEL	0927200	0927300	0927400	0927500	0927600	0927700
G Connection	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Orifice size	12	20	25	32	40	50
Cv Value	4.5	7.6	12	22	30	48
L (mm)	50	80	84	112	120	147
H (mm)	97	113	113	136	136	172
Weight (kg)	0.49	0.87	1.03	1.43	1.75	2.42
Fluid Media	Air, Water, Oil, Gas					
Operation Mode	Pilot Operated					
Medium Temp.	-5~80°C					
Pressure	Normally closed: 0.5-16bar					
Voltage/Power	110V~220V 50Hz/60Hz 12VA; DC24V 11W; Range: ±10%					

■ 0955 Pilot Operated Solenoid Valve-Normally Open

Technical Specifications

Medium: Air, Gas, Water, Oil (below 20cts)
 Orifice: 12-50mm
 Medium Temperature: -5~80°C
 Voltage: AC220V, AC110V, DC24V, DC12V
 Connection: G-Thread, NPT-Thread
 Mode of action: Pilot Operated
 Pressure: Normally open type: 0.5~16bar
 Body material: Brass
 Sealing material: NBR
 Protection class: IP65

Options

0955 two position two-way diaphragm type solenoid valve is the original part of switch in modern industrial line. By using the electromagnetic suction and working pressure difference of the medium, the automatic control of the gas, liquid, oil, weak acid, weak base media is completed in the system.



Valve Selection List

MODEL	0955200	0955300	0955400	0955500	0955600	0955700
G Connection	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"
Orifice size	12	20	25	32	40	50
Cv Value	4.5	7.6	12	22	30	48
L (mm)	50	80	84	112	120	147
H (mm)	99	115	115	140	140	178
Weight (kg)	0.49	0.87	1.03	1.43	1.75	2.42
Fluid Media	Air, Water, Oil, Gas					
Operation Mode	Pilot Operated					
Medium Temp.	-5~80°C					
Pressure	Normally closed: 0.5-16bar					
Voltage/Power	110V~220V 50Hz/60Hz 12VA; DC24V 11W; Range: ±10%					

■ SLP Large Diameter Pilot Operated Solenoid Valve-Normally Closed



Technical Specifications

Medium: Air, Gas, Water, Liquid, Oil (below 20cts)
 Orifice: 13-50mm
 Medium Temp: -5-120°C
 Ambient Temp: 0-65°C
 Voltage: AC220V, AC110V, DC24V, DC12V
 Connection: G-Thread, NPT-Thread
 Mode of action: Pilot Operated
 Pressure: 0.5-16bar
 Body material: Brass, Stainless Steel
 Sealing material: NBR, EPDM, VITON
 Protection class: IP65

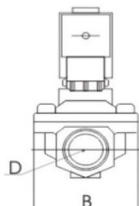
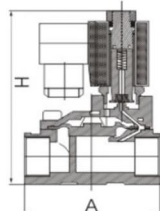
Options

EPDM(E): suitable to water, hot water, gas, freon, the max. 110°C;
 In case you choose EPDM, please state "E" in your order.
 Viton(V): suitable to hot water, acid, alkali, chemical salt, oil and hydrocarbon; the MAX. 130°C. In case you choose Viton, please state "V" in your order.
 Metal cover coil(IP65) is standard.
 Thread: If different from G connection, it should be indicated.

Pilot operated solenoid valves 2/2way N/C or N/O

This solenoid valve uses the force of the fluid to operate the valve via a suitable integral pilot valve. The inlet pressure must always be at least the same as the minimum ΔP figure shown on the data sheets. Using the same coils as direct acting valves much higher fluid volumes and pressures can be controlled with this solenoid valve.

Overall Dimension Chart



Dimension Sheet(mm)

Part	A	B	H	Weight (kg)
SLP130-10	67	48	112	0.75
SLP130-15	67	48	112	0.7
SLP200-20	75	58	118	0.82
SLP250-25	96	69	125	1.3
SLP350-35	131	96	150	2.9
SLP400-40	131	96	150	2.7
SLP500-50	165	120	165	3.9

Ordering Code

Valve Type	Orifice	Pipe Size	Connection	Voltage	Function Type	Sealing	Body Material
SLP	130	25	N	AC220V	H	V	J
	130-13mm	10: 3/8"	Black-G-Thread	AC220V	Black/N/C	Blank/NBR	Black-Brass
	200-20mm	15: 1/2"	N/NPT Thread	AC110V	H/N/O	E:EPDM	J:Stainless steel
	250-25mm	20: 3/4"		DC24V		V:VITON	
	350-35mm	25: 1"		DC12V			
	400-40mm	32: 1 1/4"					
	500-50mm	40: 1 1/2"					
		50: 2"					

Valve Selection List

Pipe Connection	Orifice (mm)	Cv	Working Pressure (kgf/cm ²)						Max. Temp. °C	Sealing Material	Coil Power		Normal Order			
											VA	W				
			Min	Air Gas	Water Liquid	Light Oil					AC220V	DC24V				
3/8"	13	4.5	0.5	AC	DC	AC	DC	AC	DC	80	NBR	22	13	SLP130-10		
				16	16	16	16	13	13					130	EPDM	SLP130-10-E
				16	16	16	16	13	13					120	VITON	SLP130-10-V
1/2"	13	4.5	0.5	AC	DC	AC	DC	AC	DC	80	NBR	22	13	SLP130-15		
				16	16	16	16	13	13					130	EPDM	SLP130-15-E
				16	16	16	16	13	13					120	VITON	SLP130-15-V
3/4"	20	7.6	0.5	AC	DC	AC	DC	AC	DC	80	NBR	22	13	SLP200-20		
				16	16	16	16	13	13					130	EPDM	SLP200-20-E
				16	16	16	16	13	13					120	VITON	SLP200-20-V
1"	25	12	0.5	AC	DC	AC	DC	AC	DC	80	NBR	22	13	SLP250-25		
				16	16	16	16	13	13					130	EPDM	SLP250-25-E
				16	16	16	16	13	13					120	VITON	SLP250-25-V
1 1/4"	35	22	0.5	AC	DC	AC	DC	AC	DC	80	NBR	22	13	SLP350-35		
				16	16	16	16	13	13					130	EPDM	SLP350-35-E
				16	16	16	16	13	13					120	VITON	SLP350-35-V
1 1/2"	40	30	0.5	AC	DC	AC	DC	AC	DC	80	NBR	22	13	SLP400-40		
				16	16	16	16	13	13					130	EPDM	SLP400-40-E
				16	16	16	16	13	13					120	VITON	SLP400-40-V
2"	50	48	0.5	AC	DC	AC	DC	AC	DC	80	NBR	22	13	SLP500-50		
				16	16	16	16	13	13					130	EPDM	SLP500-50-E
				16	16	16	16	13	13					120	VITON	SLP500-50-V

SLP Compact Series Solenoid Valve-Normally Closed



Technical Specifications

Medium: Air, Gas, Water, Liquid, Oil (below 20cts)
 Orifice: 3-6mm
 Medium Temp: -5~120°C
 Ambient Temp: 0~65°C
 Voltage: AC220V, AC110V, DC24V, DC12V
 Connection: G-Thread, NPT-Thread
 Mode of action: Direct acting
 Pressure: 0-13bar
 Body material: Brass, Stainless Steel
 Sealing material: NBR, EPDM, Viton
 Protection class: IP65

Direct acting solenoid valve 2/2 way N/C or N/O

The supply coil electrically a magnetic force that attracts the armature, which contains the seat that acts upon a passage orifice. The armature, rising, lets the fluid pass. The range of operating pressures depends directly on the attraction force of the coil.

Seal material

Consideration of the medium should be made when selecting seal and body types. NBR should be used for air, water, neutral gases and diesel and in general it is resistant to oils and grease from -10°C to 80°C.
 EPDM for hot water and steam. It is resistant to bases and acids in weak concentrations from 20°C to 140°C. EPDM seals should not be used for media containing oil.
 PTFE is practically resistant to all media, it is rigid and is used from -20°C to 180°C.
 Viton suitable to hot water, acid, alkali, chemical salt, oil and hydrocarbon;
 the suitable temperature is -20°C to 170°C.

Ordering Code

Valve Type	Orifice	Pipe Size	Connection	Voltage	Function Type	Sealing	Body Material
SLP	030	06	N	AC220V	H	V	J
	030-3.0mm	06:1/8"	Black-G-Thread	AC220V	Black/N/C	Blank/NBR	Black-Brass
	050-5.0mm	08:1/4"	N/NPT	AC110V	H/N/O	E/EPDM	J-Stainless steel
	060-6.0mm	10:3/8"		DC24V		V/VITON	
		15:1/2"		DC12V			

Valve Selection List

Pipe Connection	Orifice (mm)	Cv	Working Pressure (kgf/cm ²)						Max. Temp. °C	Sealing Material	Coil Power		Normal Order		
			Air		Water		Light Oil				VA	W			
			Min	DC	AC	DC	AC	DC			AC220V	DC24V			
1/8"	3	0.23	0	13	13	13	13	10	10	80	NBR	22	13	SLP030-06	
			0	13	13	13	13	10	10	120	130	EPDM	22	13	SLP030-06-E
			0	13	13	13	13	10	10	120	130	VITON	22	13	SLP030-06-V
1/8"	5	0.65	0	4	2.5	4	4	2.5	2	80	NBR	22	13	SLP050-06	
			0	4	2.5	4	4	2.5	2	130	EPDM	22	13	SLP050-06-E	
			0	4	2.5	4	4	2.5	2	120	130	VITON	22	13	SLP050-06-V
1/8"	6	0.8	0	3	2	3	2	2.5	2	80	NBR	22	13	SLP060-06	
			0	3	2	3	2	2.5	2	130	EPDM	22	13	SLP060-06-E	
			0	3	2	3	2	2.5	2	120	130	VITON	22	13	SLP060-06-V
1/4"	3	0.23	0	4	2.5	4	4	2.5	2	80	NBR	22	13	SLP030-08	
			0	4	2.5	4	4	2.5	2	130	EPDM	22	13	SLP030-08-E	
			0	4	2.5	4	4	2.5	2	120	130	VITON	22	13	SLP030-08-V
1/4"	5	0.65	0	4	2.5	4	4	2.5	2	80	NBR	22	13	SLP050-08	
			0	4	2.5	4	4	2.5	2	130	EPDM	22	13	SLP050-08-E	
			0	4	2.5	4	4	2.5	2	120	130	VITON	22	13	SLP050-08-V
1/4"	6	0.8	0	3	2.0	3	2	2.5	2	80	NBR	22	13	SLP060-08	
			0	3	2.0	3	2	2.5	2	130	EPDM	22	13	SLP060-08-E	
			0	3	2.0	3	2	2.5	2	120	130	VITON	22	13	SLP060-08-V
3/8"	5	0.65	0	4	2.5	4	4	2.5	2	80	NBR	22	13	SLP050-10	
			0	4	2.5	4	4	2.5	2	130	EPDM	22	13	SLP050-10-E	
			0	4	2.5	4	4	2.5	2	120	130	VITON	22	13	SLP050-10-V
3/8"	6	0.8	0	3	2.0	3	2	2.5	2	80	NBR	22	13	SLP060-10	
			0	3	2.0	3	2	2.5	2	130	EPDM	22	13	SLP060-10-E	
			0	3	2.0	3	2	2.5	2	120	130	VITON	22	13	SLP060-10-V
1/2"	5	0.65	0	4	2.5	4	4	2.5	2	80	NBR	22	13	SLP050-15	
			0	4	2.5	4	4	2.5	2	130	EPDM	22	13	SLP050-15-E	
			0	4	2.5	4	4	2.5	2	120	130	VITON	22	13	SLP050-15-V
1/2"	6	0.8	0	3	2.0	3	2	2.5	2	80	NBR	22	13	SLP060-15	
			0	3	2.0	3	2	2.5	2	130	EPDM	22	13	SLP060-15-E	
			0	3	2.0	3	2	2.5	2	120	130	VITON	22	13	SLP060-15-V

■ SLP Large Diameter Flange Solenoid Valve-Normally Closed

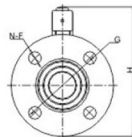
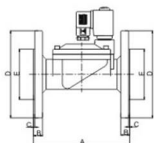


Technical Specifications

Medium: Air, Gas, Water, Liquid, Oil (below 20cts)
 Orifice: 25-100mm
 Medium Temp: -5-120°C
 Ambient Temp: 0-65°C
 Voltage: AC220V, AC110V, DC24V, DC12V
 Connection: Flange
 Mode of action: Pilot Operated
 Pressure: 0.5-16bar
 Body material: Brass, Stainless Steel
 Sealing material: NBR, EPDM, VITON
 Protection class: IP65 IP54

Pilot operated solenoid valves 2/2way N/C or N/O

This solenoid valve uses the force of the fluid to operate the valve via a suitable integral pilot valve. The inlet pressure must always be at least the same as the minimum ΔP figure shown on the data sheets. Using the same coils as direct acting valves much higher fluid volumes and pressures can be controlled with this solenoid valve.



Dimension Sheet (mm)

Part No.	DN	A	B	C	ΦD	ΦE	N-ΦF	ΦG	H
SLP25-F-J	25	134	13	2	110	58	4-Φ14	85	160
SLP35-F-J	32	160	15	2	135	74	4-Φ14	100	175
SLP40-F-J	40	160	15	2	145	84	4-Φ14	110	180
SLP50-F-J	50	200	16	2	160	88	4-Φ18	125	207
SLP65-F-J	65	250	19	2	185	118	4-Φ18	145	250
SLP80-F-J	80	270	19	3	202	134	4-Φ18	160	262
SLP100-F-J	100	342	21	3	222	162	8-Φ18	180	287

Ordering Code

Valve Type	Orifice	Connection	Voltage	Coils	Function Type	Sealing	Body Material
SLP	25	F	AC220V	D	H	E	J
	25-25mm	F.Flange	AC220V	Black:Common	Black:N/C	Black:NBR	Black:Brass
	35-35mm		AC110V	A:Metallic Housing	H:N/O	E:EPDM	J:Stainless steel
	40-40mm		DC24V	D:DIN Plastic		V:VITON	
	50-50mm		DC12V				
	65-65mm						
	80-80mm						
	100-100mm						

Valve Selection List

Orifice (mm)	Cv	Working Pressure (kgf/cm ²)				Max. Temp. °C	Sealing Material	Coil Power		Normal Order Code
		Min	Air, Gas, Water, Light Oil, Liquid	AC	DC			VA	W	
								AC220V	DC24V	
25	12	0.5	16	16	80	NBR	22	13	SLP25-F-J	
					130	EPDM			SLP25-F-E-J	
					120	VITON			SLP25-F-V-J	
35	22	0.5	16	16	120	NBR	22	13	SLP35-F-J	
					130	EPDM			SLP35-F-E-J	
					120	VITON			SLP35-F-V-J	
40	30	0.5	16	16	80	NBR	22	13	SLP40-F-J	
					130	EPDM			SLP40-F-E-J	
					120	VITON			SLP40-F-V-J	
50	48	0.5	16	16	120	NBR	22	13	SLP50-F-J	
					130	EPDM			SLP50-F-E-J	
					120	VITON			SLP50-F-V-J	
65	52	0.5	12	10	80	NBR	33	20	SLP65-F-J	
					130	EPDM			SLP65-F-E-J	
					120	VITON			SLP65-F-V-J	
80	80	0.5	12	10	120	NBR	33	20	SLP80-F-J	
					130	EPDM			SLP80-F-E-J	
					120	VITON			SLP80-F-V-J	
100	128	0.5	12	10	80	NBR	33	20	SLP100-F-J	
					130	EPDM			SLP100-F-E-J	
					120	VITON			SLP100-F-V-J	

■ 2L Steam Pilot Operated Solenoid Valve-Normally Closed



Technical Specifications

Medium: Steam, Gas, Water
 Orifice: 17-38mm
 Temperature: -5~180°C
 Voltage: AC220V, AC110V, DC24V, DC12V
 Connection: G-Thread, NPT-Thread, Flange
 Mode of action: Pilot Operated
 Pressure: Normally Closed(N/C): 0.5~16bar
 Body material: Brass, Stainless Steel
 Sealing material: PTFE
 Protection class: IP54 IP65

Options

EPDM(E): suitable to water, hot water, gas, freon, the max. 110°C; In case you choose EPDM, please state "E" in your order.

Viton(V): suitable to hot water, acid, alkali, chemical salt, oil and hydrocarbon; the MAX. 130°C. In case you choose Viton, please state "V" in your order.

Metal cover coil(IP54) is standard.

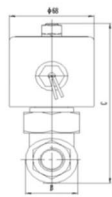
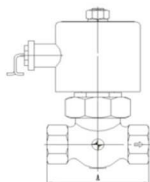
Thread: If different from G connection, it should be indicated.

Pilot operated solenoid valves 2/2way N/C

This solenoid valve uses the force of the fluid to operate the valve via a suitable integral pilot valve. The inlet pressure must always be at least the same as the minimum ΔP figure shown on the data sheets. Using the same coils as direct acting valves much higher fluid volumes and pressures can be controlled with this solenoid valve.



Overall Dimension Chart



Dimension Sheet (mm)

Part	A	B	C	Weight (kg)
2L170-10	80	39	142	1.45
2L170-15	80	39	142	1.42
2L200-20	82	40	144	1.3
2L200-25	92	48	153	1.7
2L300-35	105	65	170	2.2
2L300-40	110	71	180	2.7
2L400-50	118	82	195	3.7

Ordering Code

Valve Type	Orifice	Pipe Size	Voltage	Coils	Function Type	Body Material
2L	200	10	AC220V	D	H	J
	170-17mm	10: 3/8"	AC220V	Black/Common	Black/N/C	Black-Brass
	200-20mm	15: 1/2"	AC110V	A: Metallic Housing	H/N/O	J: Stainless steel
	300-30mm	20: 3/4"	DC24V	D: DIN Plastic		
	400-38mm	25: 1"	DC12V			
		32: 1 1/4"				
		40: 1 1/2"				
		50: 2"				

Valve Selection List

Pipe Connection	Orifice (mm)	Cv	Working Pressure (kgf/cm ²)			Max. Temp. °C	Sealing Material	Coil Power		Normal Order
			Min	AC220V	DC24V			VA	V	
								AC220V	DC24V	
3/8"	17	4.8	0.5	16	16	180	PTFE	50	32	2L170-10
1/2"	17	4.8	0.5	16	16	180	PTFE	50	32	2L170-15
3/4"	17	4.8	0.5	16	16	180	PTFE	50	32	2L200-20
1"	20	11	0.5	16	16	180	PTFE	50	32	2L200-25
1 1/4"	30	25	0.5	16	16	180	PTFE	50	32	2L300-35
1 1/2"	30	25	0.5	16	16	180	PTFE	50	32	2L300-40
2"	38	48	0.5	12	12	180	PTFE	50	32	2L400-50

Notes: If you want Stainless Steel body, the model for example 2L170-15J

■ SLA Pilot Operated Solenoid Valve-Normally Closed

Technical Specifications

Medium: Steam,Gas,Water
 Orifice:15-45mm
 Medium Temp.: -5~180°C
 Ambient Temp.: 0~65°C
 Voltage: AC220V,AC110V,DC24V,DC12V
 Connection: G-Thread,NPT-Thread
 Mode of action: Pilot Operated
 Pressure: Normally Closed(N/C): 0.5~25bar
 Body material: Brass
 Sealing material: PTFE
 Protection class: Ip54
 Thread: If different from G connection,
 it should be indicated.



Ordering Code

Valve Type	Orifice	Pipe Size	Connection	Voltage	Coils	Function Type
SLA	200	10		AC220V	D	H
	150=15mm	10: 3/8"	Black:Thread	AC220V	Black:Common	Black:N/C
	200=20mm	15: 1/2"	N: NPT:Thread	AC110V	A:Metallic Housing	H:N/O
	250=25mm	20: 3/4"		DC24V	D:DIN Plastic	
	350=35mm	25: 1"		DC12V		
	450=45mm	32: 1 1/4"				
		40: 1 1/2"				
		50: 2"				

Valve Selection List

Pipe Connection	Orifice (mm)	Cv	Working Pressure(kgf/cm ²)								Max. Temp. °C	Sealing Material	Coil Power		Normal Order
			Air:Gas:		Water:		Steam		Light Oil				VA	W	
			Min	Max	Min	Max	Min	Max	Min	Max			AC220V	DC24V	
3/8"	15	4.5	0.5	25	20	25	20	20	20	180	PTFE	30	25	SLA150-10	
1/2"	15	4.5	0.5	25	20	25	20	20	20	180	PTFE	30	25	SLA150-15	
3/4"	20	9	0.5	25	20	25	20	20	20	180	PTFE	30	25	SLA200-20	
1"	25	13	0.5	25	20	25	20	20	20	180	PTFE	30	25	SLA250-25	
1 1/4"	35	26	0.5	25	20	25	20	20	20	180	PTFE	30	25	SLA350-35	
1 1/2"	35	26	0.5	25	20	25	20	20	20	180	PTFE	30	25	SLA350-40	
2"	45	45	0.5	25	20	25	20	20	20	180	PTFE	30	25	SLA450-50	

■ SLDF Water Fountain Solenoid Valve-Normally Closed

Technical Specifications

Medium:Water
 Orifice:15-150mm
 Temperature: -5~80°C
 Voltage: AC220V,AC110V,DC24V,DC12V
 Connection: G-Thread,NPT-Thread,Flange
 Mode of action: Direct acting
 Pressure: 0~8bar
 Body material: Brass,Stainless Steel
 Sealing material: NBR
 Coil Type: Water-proof IP68
 Thread: If different from G connection,
 it should be indicated.



Ordering Code

Valve Type	Orifice	Connection	Voltage	Body Material
SLDF	20	N	AC220V	J
	15=15mm	Black:G-Thread	AC220V	Black:Brass
	20=20mm	N:NPT Thread	AC110V	J:Stainless steel
	25=25mm	F:Flange	DC24V	
	35=35mm		DC12V	
	40=40mm			

Valve Selection List

Pipe Connection	Orifice (mm)	Cv	Working Pressure (kgf/cm ²)				Max. Temp. °C	Sealing Material	Coil Power		Normal Order Code
			Water		Air				VA	W	
			Min	Max	Min	Max			AC220V	DC24V	
1/2"	15	3.8	0	6	6	60	NBR	33	20	SLDF15	
3/4"	20	7.6	0	6	6	60	NBR	33	20	SLDF20	
1"	25	12	0	6	6	60	NBR	33	20	SLDF25	
1 1/4"	35	24	0	6	6	60	NBR	33	20	SLDF35	
1 1/2"	40	30	0	6	6	60	NBR	33	20	SLDF40	
2"	50	48	0	6	6	60	NBR	33	20	SLDF50	
Flange	65	53	0.3	8	8	60	NBR	33	20	SLDF65-F-J	
Flange	80	82	0.3	8	8	60	NBR	33	20	SLDF80-F-J	
Flange	100	128	0.3	8	8	60	NBR	33	20	SLDF100-F-J	
Flange	150	292	0.3	8	8	60	NBR	33	20	SLDF150-F-J	

ZCM Gas Explosion-Proof Solenoid Valve -Normally Closed

Technical Specifications

Medium: Civil Gas
 Orifice:15-50mm
 Temperature: Viton Seal: 30°C~150°C
 Voltage: AC220V,AC110V,DC24V,DC12V
 Connection: G-Thread,NPT-Thread
 Mode of action: Direct acting
 Pressure:0~4bar
 Body material: Brass,Stainless Steel
 Sealing material: VITON
 Protection class: Ip69
 Thread: If different from G connection,
 it should be indicated.



Ordering Code

Valve Type	Orifice	Pipe Size	Voltage	Body Material
ZCM	200	25	AC220V	J
	150=15mm	15: 1/2"	AC220V	Black-Brass
	200=20mm	20: 3/4"	AC110V	J:Stainless steel
	250=25mm	25: 1"	DC24V	
	350=35mm	32: 1 1/4"	DC12V	
	400=40mm	40: 1 1/2"		
	500=50mm	50: 2"		

Valve Selection List

Pipe Connection	Orifice (mm)	Cv	Working Pressure (kgf/cm ²)				Max. Temp. °C	Sealing Material	Coil Power		Normal Order	
			Min	Gas		VA			W			
				AC	DC					AC220V		DC24V
1/2"	15	4.5	0	4	4	60	NBR	33	20	ZCM150-15		
3/4"	20	7.5	0	4	4	60	NBR	33	20	ZCM200-20		
1"	25	12	0	4	4	60	NBR	33	20	ZCM250-25		
1 1/4"	35	22	0	2	2	60	NBR	33	20	ZCM350-35		
1 1/2"	40	30	0	2	2	60	NBR	33	20	ZCM400-40		
2"	50	48	0	2	2	60	NBR	33	20	ZCM500-50		

Notes:If you want Stainless Steel body,the model for example ZCM200-20J

ZCT Stainless Steel Solenoid Valve-Normally Closed

Technical Specifications

Medium: Steam, Water, Oil , Low alkalinity liquid
 Orifice: 3-15mm
 Temperature: 5~130°C
 Voltage: AC220V,AC110V,DC24V,DC12V
 Connection: G-Thread,NPT-Thread
 Mode of action: Substep-pilot-operated type
 Pressure:0~10bar
 Body material: Brass Stainless Steel
 Sealing material: VITON
 Protection class: IP65
 If need NPT screw thread, please noted in order.



Ordering Code

Valve Type	Orifice	Pipe Size	Voltage	Coils	Body Material
ZCT	030	25	AC220V	D	J
	030=3mm	06: 1/8"	AC220V	Black:Common	Black:Brass
	040=4mm	08: 1/4"	AC110V	A:Metallic Housing	J:Stainless steel
	060=6mm	10: 3/8"	DC24V	D:DIN Plastic	
	100=10mm	15: 1/2"	DC12V		
	150=15mm	20: 3/4"			
		25: 1"			

Valve Selection List

Pipe Connection	Orifice (mm)	Cv	Working Pressure (kgf/cm ²)						Max. Temp. °C	Sealing Material	Coil Power		Normal Order	
			Min	Air:Gas		Water		VA			W			
				AC	DC	AC	DC					AC220V		DC24V
1/8"	3	0.23	0	13	10	3	3	10	7	130	VITON	22	13	ZCT030-06
1/4"	3	0.23	0	13	10	3	3	10	7	130	VITON	22	13	ZCT030-08
1/4"	4	0.6	0	7	7	3	3	5	5	130	VITON	22	13	ZCT040-08
3/8"	4	0.6	0	7	7	3	3	5	5	130	VITON	22	13	ZCT040-10
3/8"	6	0.9	0	6	6	5	5	6	6	130	VITON	20	13	ZCT060-10
1/2"	6	0.9	0	6	6	5	5	6	6	130	VITON	20	13	ZCT060-15
1/2"	10	1.5	0	2.5	1.5	1	1	2	1	130	VITON	20	22	ZCT100-15
3/4"	15	4.5	0	1.5	1	1	1	1	1	130	VITON	20	22	ZCT150-20
1"	15	4.5	0	1.5	1	1	1	1	1	130	VITON	20	22	ZCT150-25

Notes:If you want SS304 body,the model for example ZCT040-08-J

2W Large Diameter Flange Solenoid Valve - Normally Closed

Technical Specifications

Medium : Air,Gas,Water,Liquid,Oil(below 20cts)
 Orifice: 15-50mm
 Temperature: -5~80°C
 Voltage: AC220V,AC110V,DC24V,DC12V
 Connection: Flange
 Mode of action: Sime-direct acting
 Pressure: 0~10bar
 Body material: Brass,Stainless Steel
 Sealing material: NBR,EPDM,VITON
 Protection class: IP65

Options

EPDM(E):suitable to water,hot,water,gas,freon,the max.110°C;
 In case you choose EPDM, please state "E" in your order.
 Viton(V):suitable to hot water,acid,alkali,chemical salt,oil and hydrocarbon;the MAX. 130°C. In case you choose Viton,please state"V" in your order.
 Metal cover coil(IP54) is standard.
 Thread: If different from G connection, it should be indicated.

Ordering Code

Valve Type	Orifice	Connection	Voltage	Coils	Function	Sealing	Body Material
2W	15	F	AC220V	D	H	E	J
	150~15mm	F.Flange	AC220V	A:Black:Common	Black:N/C	Black:NBR	Black:Brass
	200~20mm		AC110V	M:Metallic Housing	H:N/O	E:EPDM	J:Stainless steel
	320~32mm		DC24V	D:DIN Plastic		V:VITON	
	400~40mm		DC12V				
	500~50mm						



Dimension Sheet

Part No.	DN	L	D	H	K	d	C	f	n-φ
2W15-F-J	18	106	95	152	65	45	14	2	4-φ14
2W20-F-J	18	106	105	152	75	56	16	2	4-φ14
2W25-F-J	25	135	115	165	85	65	16	3	4-φ14
2W32-F-J	32	142	140	224	100	76	18	3	4-φ18
2W40-F-J	40	149	150	236	110	84	18	3	4-φ18
2W50-F-J	50	184	165	256	125	99	20	3	4-φ18

Valve Selection List

Orifice (mm)	Cv	Min	Working Pressure (kgf/cm ²)	Max. Temp. °C	Sealing Material	Coil Power		Normal Order Code		
						VA	W			
									AC220V	DC24V
15	7.2	0	Air, Gas, Water, Light Oil, Liquid	80	NBR	20	20	2W15-F-J		
								130	EPDM	2W15-F-E-J
								120	VITON	2W15-F-V-J
20	7.2	0	Air, Gas, Water, Light Oil, Liquid	80	NBR	20	20	2W20-F-J		
								130	EPDM	2W20-F-E-J
								120	VITON	2W20-F-V-J
25	12	0	Air, Gas, Water, Light Oil, Liquid	80	NBR	20	32	2W25-F-J		
								130	EPDM	2W25-F-E-J
								120	VITON	2W25-F-V-J
32	24	0	Air, Gas, Water, Light Oil, Liquid	80	NBR	30	38	2W32-F-J		
								130	EPDM	2W32-F-E-J
								120	VITON	2W32-F-V-J
40	29	0	Air, Gas, Water, Light Oil, Liquid	80	NBR	30	38	2W40-F-J		
								130	EPDM	2W40-F-E-J
								120	VITON	2W40-F-V-J
50	48	0	Air, Gas, Water, Light Oil, Liquid	80	NBR	30	38	2W50-F-J		
								130	EPDM	2W50-F-E-J
								120	VITON	2W50-F-V-J

Notes:If you want brass body,the model for example 2W20-F

■ DF Liquid Flange Solenoid Valve Normally Closed

Technical Specifications

Medium: Air, Gas, Water, Liquid, Oil (below 20cts)
 Orifice: 40-150mm
 Temperature: -5~80°C
 Voltage: AC220V, AC110V, DC24V, DC12V
 Connection: Flange
 Mode of action: pilot Operated
 Pressure: 0.3~12bar
 Body material: Cast Iron
 Sealing material: NBR
 Protection class: IP65 IP54



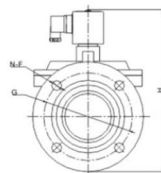
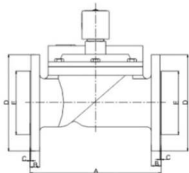
Options

This solenoid valve uses the force of the fluid to operate the valve via a suitable integral pilot valve. The inlet pressure must always be at least the same as the minimum ΔP figure shown on the data sheets. Using the same coils as direct acting valves much higher fluid volumes and pressures can be controlled with this solenoid valve.

Ordering Code

Valve Type	Orifice	Connection	Voltage	Coils	Function Type
DF	40	F	AC220V	D	H
	40=40mm	F/Flange	AC220V	Black:Common	Black/N/C
	50=50mm		AC110V	A:Metallic Housing	HN/O
	65=65mm		DC24V	D:DIN Plastic	
	80=80mm		DC12V		
	100=100mm				
	125=125mm				
	150=150mm				

Overall Dimension Chart



Dimension Sheet(mm)

Part No.	DN	A	B	C	φ D	φ E	N-φ F	φ G	H
DF40-F	40	155	15	2	150	88	4-φ 18	110	205
DF50-F	50	200	16	2	160	88	4-φ 18	125	200
DF65-F	65	259	20	3	185	118	4-φ 18	145	277
DF80-F	80	278	18	3	200	132	8-φ 18	160	289
DF100-F	100	350	20	2	220	160	8-φ 18	180	316
DF125-F	125	400	25	3	250	184	8-φ 18	210	380
DF150-F	150	450	24	3	285	212	8-φ 22	240	405

Valve Selection List

Orifice (mm)	Cv	Working Pressure (kgf/cm ²)			Max. Temp. °C	Sealing Material	Coil Power		Normal Order Code
		Min	Water: Liquid				VA	V	
			AC	DC					
40	30	0.3	12	8	80	NBR	25	13	DF40-F
50	48	0.3	12	8	80	NBR	25	13	DF50-F
65	52	0.3	12	8	80	NBR	25	13	DF65-F
80	82	0.3	12	8	80	NBR	25	13	DF80-F
100	128	0.3	12	8	80	NBR	45	30	DF100-F
125	222	0.3	12	8	80	NBR	45	30	DF125-F
150	292	0.3	12	8	80	NBR	45	30	DF150-F

DF Liquid Solenoid Valve-Normally Closed

Technical Specifications

Medium: Air,Gas,Water,Liquid,Oil(below 20cts)
 Orifice:13-50mm
 Temperature: -5~80°C
 Voltage: AC220V,AC110V,DC24V,DC12V
 Connection: G-Thread,NPT-Thread
 Mode of action: Pilot Operated
 Pressure: 0.3~12bar
 Body material: Stainless Steel
 Sealing material: NBR
 Protection class: IP65



Options

This solenoid valve uses the force of the fluid to operate the valve via a suitable integral pilot valve. The inlet pressure must always be at least the same as the minimum ΔP figure shown on the data sheets. Using the same coils as direct acting valves much higher fluid volumes and pressures can be controlled with this solenoid valve.

Valve Selection List

Pipe Connection	Orifice (mm)	Cv	Working Pressure (kgf/cm ²)				Max. Temp. °C	Sealing Material	Coil Power		Normal Order Code
			Min	Water:Liquid		VA			W		
				AC	DC	AC220V			DC24V		
3/8"	13	4.5	0.3	12	10	80	NBR	25	13	DF150-10	
1/2"	13	4.5	0.3	12	10	80	NBR	25	13	DF150-15	
3/4"	18	7.2	0.3	12	10	80	NBR	25	13	DF200-20	
1"	23	12	0.3	12	10	80	NBR	25	13	DF250-25	
1 1/4"	33	24	0.3	12	10	80	NBR	25	13	DF350-35	
1 1/2"	40	30	0.3	12	10	80	NBR	25	13	DF400-40	
2"	50	48	0.3	12	10	80	NBR	25	13	DF500-50	

ZQDF Zero Pressure Solenoid Valve-Normally Closed

Technical Specifications

Medium: Steam,Gas,Water,Liquid
 Orifice:17-40mm
 Medium Temp.: -5~180°C
 Ambient Temp.: 0~65°C
 Voltage: AC220V,AC110V,DC24V,DC12V
 Connection: G-Thread,NPT-Thread,Flange
 Mode of action: Step-Direct Acting
 Pressure: Normally Closed(N/C): 0~8bar
 Body material: Brass,Stainless Steel
 Sealing material: PTFE
 Protection class: IP65



Step-Direct lift type

These solenoid valve are a combination of the pilot operated valve and the direct acting valves. The armature is mechanically connected to the diaphragm on which there is a pilot orifice. With minimal pressure the solenoid valve acts like a direct acting valve. Total opening as well as a pilot operated valve with full opening.

Valve Selection List

Pipe Connection	Orifice (mm)	Cv	Working Pressure (kgf/cm ²)				Max. Temp. °C	Sealing Material	Coil Power		Normal Order Code
			Min	AC220V		DC24V			VA	W	
				AC	DC				AC220V	DC24V	
1/2"	17	4.8	0	8	8	180	PTFE	50	30	ZQDF170-15	
3/4"	17	4.8	0	8	8	180	PTFE	50	30	ZQDF170-20	
1"	20	12	0	8	8	180	PTFE	50	30	ZQDF200-25	
1 1/4"	30	22	0	8	8	180	PTFE	50	30	ZQDF300-35	
1 1/2"	30	22	0	8	8	180	PTFE	50	30	ZQDF300-40	
2"	40	30	0	8	8	180	PTFE	40	40	ZQDF400-50	
Flange	20	12	0	8	8	180	PTFE	40	40	ZQDF25F	
Flange	30	22	0	8	8	180	PTFE	40	40	ZQDF40F	
Flange	40	30	0	8	8	180	PTFE	40	40	ZQDF50F	

Notes:If you want Stainless Steel body,the model for example ZQDF170-15J

■ Bag filter Rectangular Pulse Valve

Order Code

DMF	Z	XX	S	□	□
Bag Filter	Right angle	Diameter	Double Diaphragm	Temperature Grade	A:AC220V
				1:15-65°C	B:DC24V
				2:25-180°C	X:Explosion-Proof



DMF-Z-20



DMF-Z-25



DMF-Z-40S



DMF-Z-50S

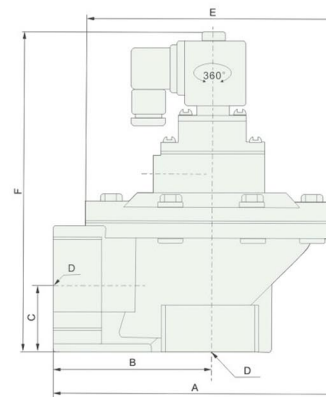


DMF-Z-62S

Valve Selection list

Model	DMF-Z-20	DMF-Z-25	DMF-Z-40S	DMF-Z-50S	DMF-Z-62S
Pressure	0.3~0.7Mpa				
Temperature	-15~65°C				
Relative Humidity	≤85%				
Medium	Air				
Voltage	AC110V/AC220V/DC24V				
Diaphragm Life	One million				
Diameter (mm)	20	25	40	50	62
Connection Thread	3/4"	1"	1 1/2"	2"	2 1/2"
KV/CV	17.55/20.48	26.16/30.53	45.82/53.47	62.09/72.46	136.58/159.39
Blowing Area(m ²)	3.5~6	8~10	12~16	18~28	27~38

Overall Dimension Chart



Dimension Sheet (mm)

Model	Orifice	A	B	C	D	E	F
DMF-Z-20	20	88	48	20	G3/4"	φ80	128
DMF-Z-25	25	108	60	23	G1"	φ96	136
DMF-Z-40S	40	131	75	32	G1 1/2"	φ112	184
DMF-Z-50S	50	180	100	43	G2"	φ160	206
DMF-Z-62S	62	204	110	49	G2 1/2"	φ188	226

SOLENOID VALVE ACCESSORIES (COIL)

NO.	Photo	Coil Type	Description	Size
1		D	DIN Standard Connections, Fully Encapsulated	Product model:AB410 Coil I.D.:φ16.5, Height:40mm Applicable power and Voltage: AC 22VA 12V~380V DC 18W 12V~220V Isolation grade:F, H IP65 Coil connection method:DIN43650A Applicable sample:2W, ZCT, DF
2		D	DIN Plastic Standard Connections, Fully Encapsulated	Product model:ABS10 Coil I.D.:φ16.5, Height:40mm Applicable power and Voltage: AC 28VA 12V~380V DC 30W 12V~220V Isolation grade:F, H IP65 Coil connection method:DIN43650A Applicable sample:2W, ZCT, DF
3		D	DIN Plastic Standard Connections, Fully Encapsulated	Product model:HC-USFC Coil I.D.:φ20.5, Height:56mm Applicable power and Voltage: AC 42VA 12V~380V DC 44W 12V~220V Isolation grade:H IP65 Coil connection method:DIN43650A Applicable sample:2W
4		D	DIN Plastic Standard Connections, Fully Encapsulated	Product model:0543 Coil I.D.:φ14.5, Height:43mm Applicable power and Voltage: AC 22VA 12V~380V DC 13W 12V~220V Isolation grade:H IP65 Coil connection method:DIN43650B Applicable sample:SLP
5		D	DIN Plastic Standard Connections, Fully Encapsulated	Product model:0545 Coil I.D.:φ14.5, Height:43mm Applicable power and Voltage: AC 28VA 12V~380V DC 12W 12V~220V Isolation grade:H IP65 Coil connection method:DIN43650B Applicable sample:SLP
6		D	DIN Plastic Standard Connections, Fully Encapsulated	Product model:Best-Nr.0200 Coil I.D.:φ13.5, Height:41mm Applicable power and Voltage: AC 15VA 12V~380V DC 12W 12V~220V Isolation grade:H IP65 Coil connection method:DIN43650A Applicable sample: 0927/0955/SLP

NO.	Photo	Coil Type	Description	Size
7		A	Metallic Housing, Round Coil	Product model:HC-014 Coil I.D.:φ14, Height:37mm Applicable power and Voltage: AC 14VA 12V~380V DC 9W 12V~220V Isolation grade:F IP54 Coil connection method:lead Applicable sample: 2W
8		A	Metallic Housing, Round Coil	Product model:HC-016 Coil I.D.:φ16, Height:43mm Applicable power and Voltage: AC 20VA 12V~380V DC 28W 12V~220V Isolation grade:F IP54 Coil connection method:lead Applicable sample: 2W, ZCT, DF
9		A	Metallic Housing, Round Coil	Product model:HC-020 Coil I.D.:φ20.5, Height:63mm Applicable power and Voltage: AC 32VA 12V~380V DC 30W 12V~220V Isolation grade:F IP54 Coil connection method:lead Applicable sample:2W, DF
10		G	Lead Wires, Water-proof, Fully Encapsulated	Product model:SLDF-25 Coil I.D.:φ16.2, Height:φ44mm Applicable power and Voltage: AC 22VA 110V~220V DC 18W 24V Isolation grade:H IP68 Coil connection method:Water-proof Applicable sample:SLDF15-25
11		G	Lead Wires, Water-proof, Fully Encapsulated	Product model:SLDF-50 Coil I.D.:φ20.5, Height:56mm Applicable power and Voltage: AC 32VA 110V~220V DC 24W 24V Isolation grade:H IP68 Coil connection method:Water-proof Applicable sample:SLDF35-50
12		X	Explosion-proof	Product model:HC1661 Coil I.D.:φ16.5, Height:44mm Applicable power and Voltage: AC 26VA 110V~220V DC 11W 24V Isolation grade:H IP69 Coil connection method:DIN43650A Applicable sample:ZCM10-25
13		X	Explosion-proof	Product model:HC1680 Coil I.D.:φ20.5, Height:56mm Applicable power and Voltage: AC 70VA 110V~220V DC 30W 24V Isolation grade:H IP69 Coil connection method:DIN43650A Applicable sample:ZCM35-50