

Ningbo Best Industrial Co.,Ltd.

DSG-02Series Solenoid Operated Directional valve

【Specification】

- 1.These are epoch-making solenoid operated directional valves of high pressure, high flow which have been developed.
- 2.Use matching Electromagnetic suction and improve Spring force.
- 3.Unique waterproof and dust proof characteristics.
- 4.Use DIN43650 ISO4400 EN175301--803 standard plug.
protection degree IP65 and we can also custom more degree,like AMP type plug.
Deutsch plug or other Terminal box type.



【 Description 】

	DS	G	02	3C2	D24		B
Solenoid Operated Directional valve							
Sub-plate mounting							
Spool Symbols							
Size; 02=6 Size							
D12 D24 = DC12V 24V A110 A220 = AC 110V/50Hz 220V/50Hz R110 R220 = RAC 110V 220V							
NP:with self - locking type emergency manual override No code:with manual override							
H: With DIN43650 connector B: Terminal box type							

【Technical data】

General parameters

Weight (with 2 electromagne)	kg	1.94
Weight (with 1 electromagne)	kg	1.50
Mounting location		anywhere
Ambient temperature	℃	~20~+50 (use NBR lock ring)

Hydraulic data

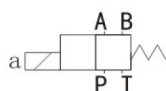
Max working oil pressure P.A.B	MPa	31.5
Max oil pressure for T chamber	MPa	16
Rated Flow	l/min	20
Max flow	l/min	63
liquid medium		Mineral oil, hydraulic oil
Oil temperature range	℃	-20~+80
Oil cleanliness		ISO4572: β 10 ≥ 75 NAS1638:9 degree

Electrical data

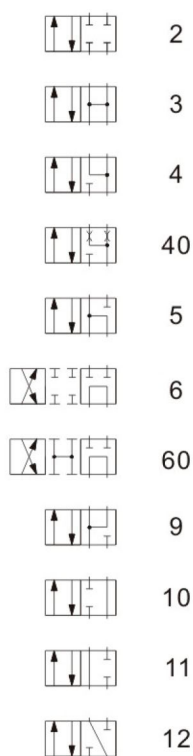
Voltage class		DC、RAC				
Work system	ED	100%				
Voltage range	%	-10~+10				
Transposition and reset time	ms	on 50 off 40 (not include RAC)				
Maximum operating frequency	Hz	3				
Coil insulation class		B				
Coil max working temperature	℃	130				
Coil weight	kg	0.30				
Power voltage	V	12	24	110	110	220
Power type		DC	DC	DC	RAC	RAC
Power frequency	Hz				50/60	50\60
Loss power	W	34	34	34	36	36
Coil resistance	ohm	4.2	16.5	346	64.6	258
Working current	A	2.8	1.45	0.31	0.42	0.21

【Spool valve symbol 】

Single solenoid valve
Spring offset



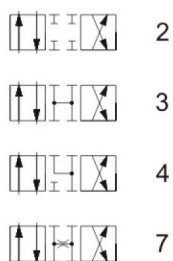
2B * BL



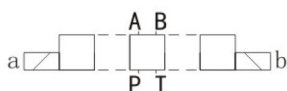
2 position. No Spring



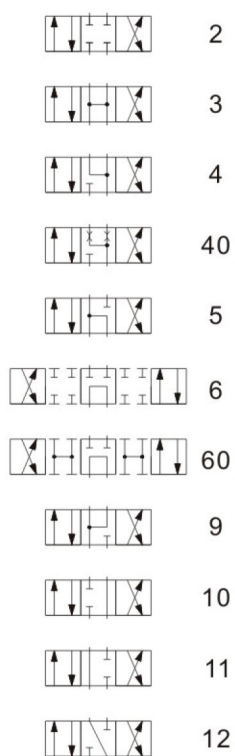
2N *



double solenoid valve
3 position. Spring central



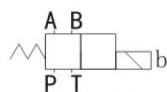
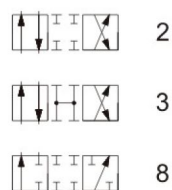
3C *



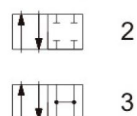
2 position. Spring offset



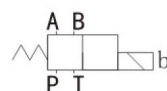
2B *



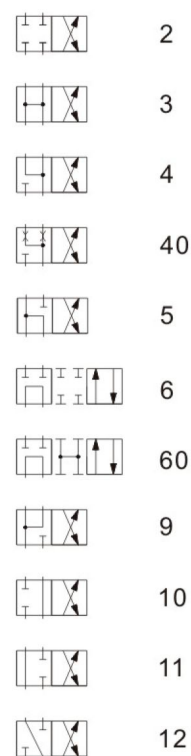
2B * A



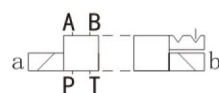
Single solenoid valve
Spring offset



2B * B



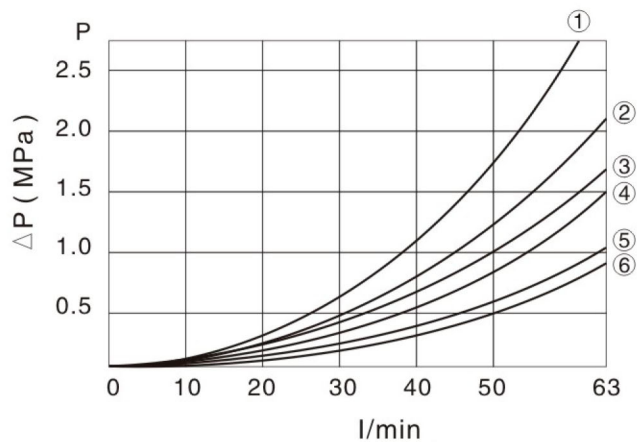
2 position, Mechanical position



2D *



【Characteristics curve】



Test condition:

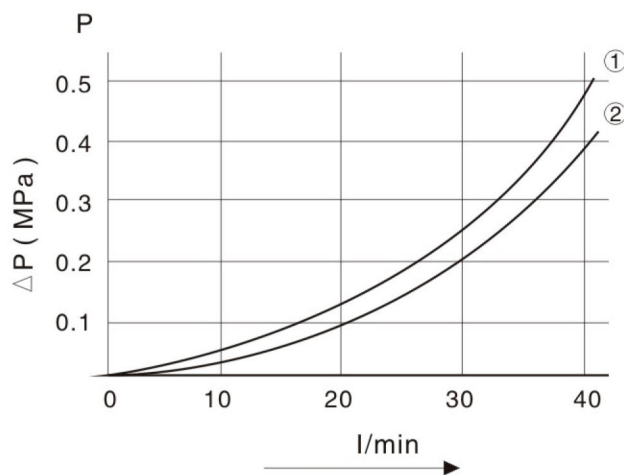
Pressure: 7Mpa

Flow: 63l/min

Viscosity: 35cst

voltage: 100%(Hot state)

Type	Pressure drop curve				
	P→A	B→T	P→B	A→T	P→T
3C2	5	5	5	5	—
3C3	6	6	6	6	4
3C4	5	6	5	6	—
3C40	5	5	5	5	—
3C5	2	2	2	2	4
3C6	1	1	1	1	4
3C60	1	1	1	1	3
3C9	6	5	6	5	—
3C12	6	5	6	5	—
3C11	5	5	5	6	—
2D2	6	5	5	5	—
2D3	5	3	5	3	—
2B2	4	5	4	5	—
2B3	3	3	5	5	—
2B8	2	—	5	—	—
2B2-L	4	5	4	5	—
2B3-L	5	5	3	3	—
2B8-L	5	—	2	—	—



type	Pressure drop curve			
	P→A	B→T	P→B	A→T
3C2	1	1	1	1
3C4	1	2	1	2
2B2	1	1	1	1

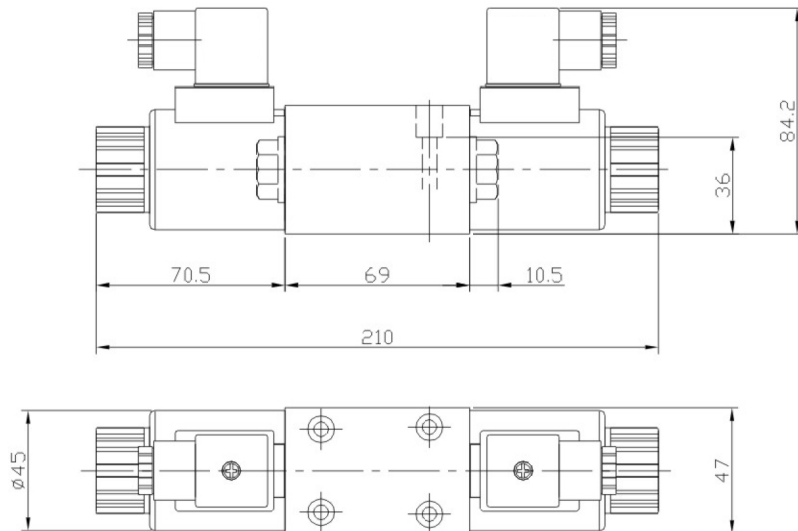
【Viscosity range】

Viscosity	cSt	15	20	30	40	50	60	70	80	90	100
	SSU	77	98	141	186	232	278	324	371	417	464
Modulus (G')		0.81	0.87	0.96	1.03	1.09	1.14	1.19	1.23	1.27	1.30

For other proportion, pressure drop can refer $\Delta P' = \Delta P (G' / 0.85)$

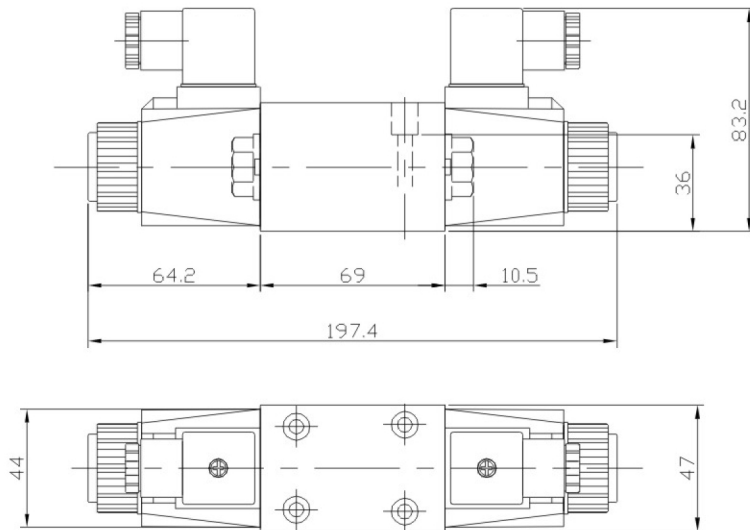
DSG 02-DC - H

Unit dimensions:

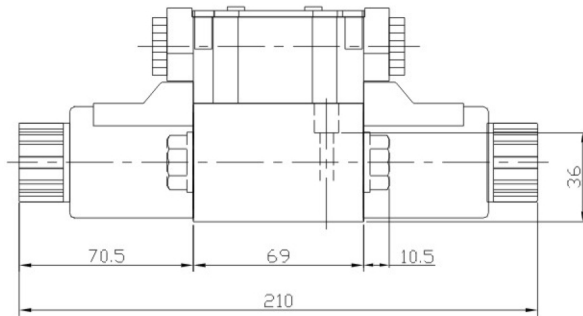


DSG 02-AC -H

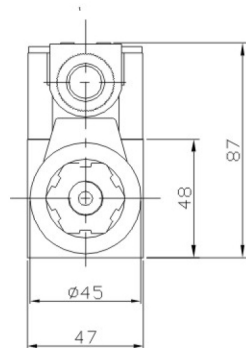
Unit dimensions:



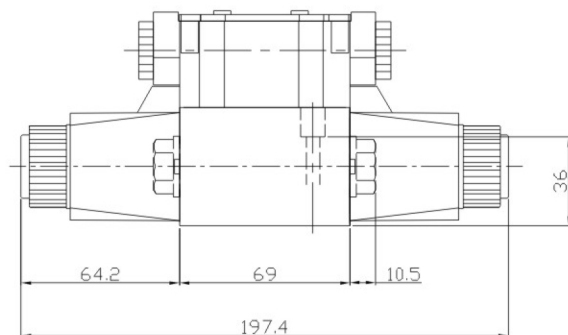
DSG 02- DC - B



Unit dimensions:



DSG 02-AC - B



Unit dimensions:

