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DBET series proportional control valves

CONTENT

1. Electroohydraulic proportional pilot control valve is composed of solenoid and direct proportional pilot control valve, which can proportionally adjust pressure according the values of the input current.
2. The valve can be used with AC-YO--1 proportional amplifier produced by our company.
3. I=0.8A I=1.5A these two solenoids are alternative.



ORDERING DETAILS

DBET X _ D24 _ N Z4 M

Series code
DBET = Proportional control valves

Mounting type
X = The structure of mounting hole
No code = Conform to ISO4401-03-02-0-94

The maximum pressure level
6 = 50 bar
8 = 80 bar
18 = 180 bar
25 = 250 bar
31.5 = 315 bar

Supply voltage of amplifier
D24 = 24 VDC

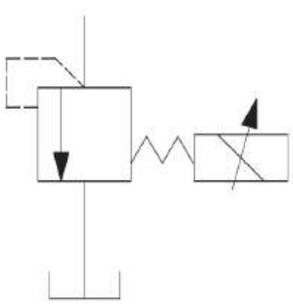
Suitable for mineral hydraulic oil
V = Viton seal
M = Nitril rubber seal

Electrical connection
Z4 = DIN43650 ZX plug

Emergency operation
N = Manual emergency operation

PASP - Magnetic (current)
8 = The maximum current valve of the solenoid 0.8A
15 = The maximum current valve of the solenoid 1.5A

SYMBOLE



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TECHNICAL DATA

General Parameter

Structure		Slide valve
Actuate		Proportional solenoid without position feedback
Connection type		Sub-plate mounting, size 6 mounting hole(ISO 4401-03-02-0-94)
Mounting site		arbitrarily
Operating temperature range	°C	-20~+50
Weight	kg	1.9

Hydraulic Pressure (Measured in the oil temperature of 40°C +/-5 °C)

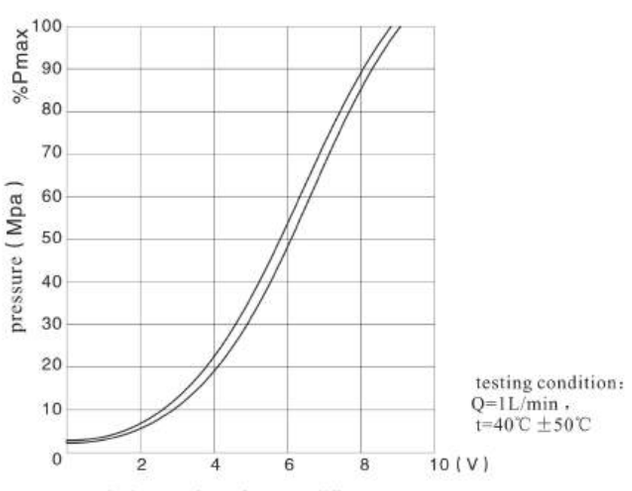
Hydraulic medium		Mineral hydraulic oil, phosphate hydraulic oil				
Recommended viscosity range	mm²/s	20~100				
Maximum allowable valve	mm²/s	10~800				
Oil temperature	°C	-20~+80				
The maximum pollution level oil allowed		MAS 1638 class7				
The maximum setting pressure (Q=1 L/min)	bar	50	80	180	250	315
The minimum setting pressure (Q=1 L/min)	bar	2	3	4	5	8
The maximum operating pressure (Q=1 L/min)	bar	Port P: 315				
The maximum return oil pressure	bar	Port T: 250				

Electric Parameter

Connection rate	%	100	
Protection class		IP65	
Solenoid electrical connection		DIN43650/ISO4400, plug	
Power type		DC	DC
The maximum solenoid current I_{max}	A	0.8A	1.5A
Coil resistance R	°C	19.5	4.5
The maximum operating temperature at 100% load value voltammetry	VA	25	30
Hysteresis	%	≤3	
Response time 100%signal changes	ms	on≤60 off≤70	

CHARACTERISTIC CURVE

[characteristic curve of current（voltage）-pressure]



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UNIT DIMENSIONS

