

POMER AMILIA

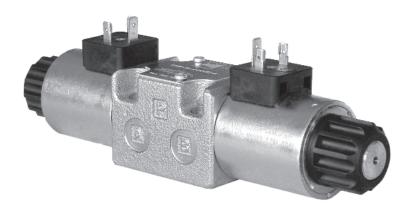
CONTINENTAL HYDRAULICS

VS6M

SOLENOID OPERATED DIRECTIONAL VALVES



VS6M SOLENOID OPERATED DIRECTIONAL VALVES



DESCRIPTION

These valves are supplied with a ZINC-NICKEL PLATING making them the perfect choice for mobile and environmental applications that require better protection.

Direct acting, subplate mounted directional control valve, with mounting surface according to NFPA D03 ISO 4401-03. The valve body is made with high strength iron castings with internal passages designed to minimize pressure drop.

OPERATIONS

The valve can be supplied for valve functions requiring 2 positions or 3 positions, as well as 3 way or 4 way flow functions.

DIN 43650, AMP junior, DEUTSCH DT04-2P coil connections.

Salt spray resistance up to 600h (test according to UNI EN ISO 9227 and UNI EN ISO 10289 tests and standards).

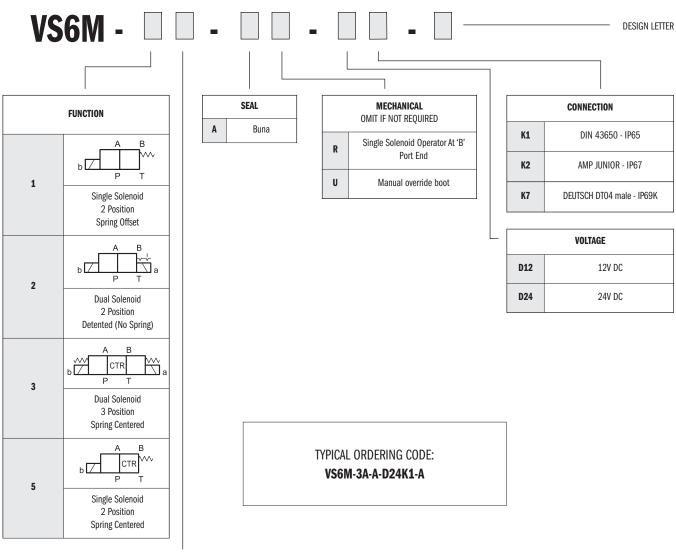
TYPICAL PERFORMANCE SPECIFICATIONS

MAXIMUM OPERATING	P - A - B Ports	5000 psi	350 bar	
PRESSURE	T Port	3000 psi	210 bar	
FLOW RATE		20 gpm	76 I/min	
MOUNTING SURFACE		NFPA D03 ISO 4401-03-02-0-03		
WEIGHT	Single Solenoid	3.3 lbs	1.5 kg	
WEIGHT	Dual Solenoid	4.4 lbs	2.0 kg	

RANGE	Ambient	-4 to +130 °F	-20 to +54 °C
TEMPERATURES	Fluid	-4 to +180 °F	-20 to +82 °C
FLUID VISCOSITY	Range	60 -1900 SUS 10 - 400 cSt	
PLUID VISCUSITI	Recommended	120 SUS	25 cSt
FLUID CONTAMINATION		ISO 4406:1999 Class 20/18/15	

HYDRAULICS.

IDENTIFICATION CODE



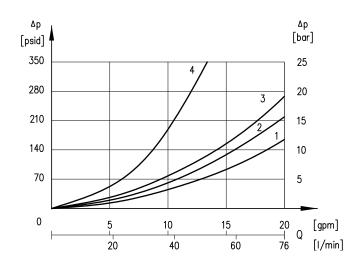
SPOOLS					
NAME	SYMBOL	FUNCTION	CENTER POSITION	CROSSOVER	FUNCTION MATCHING
A			All ports blocked	P→B or P→A T blocked	1, 2, 3, 5
В			All ports open	All ports open	1, 2, 3, 3
F			P blocked, $A \longrightarrow T$ and $B \longrightarrow T$	P blocked and A→T or B→T	
F1			P blocked, A and B restricted to T	P blocked, A or B restricted to T	3, 5
L			$P \longrightarrow T$, A and B blocked	All ports open, restricted	

Other spool funcions are available upon request.



PRESSURE DROPS AP-Q

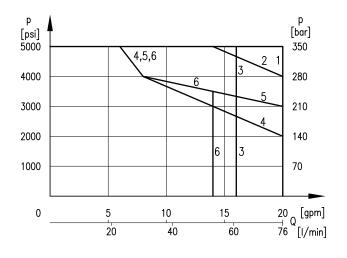
(OBTAINED WITH VISCOSITY OF 170 SUS - 36 CST AT 70°F - 50°C)



	FLOW CURVE NUMBER					
SP00L		SHIFTED				
	P→A	P→B	A→T	B→T	P→T	
3A, F1	2	2	3	3		
В	1	1	3	3	2	
F	3	3	1	1		
L	4	4	4	4	3	
1A, 1B, 2A, 2B	3	3	3	3		

PERFORMANCE CURVE

DC VOLTAGE



CURVE	SP00L
1	A, 2A
2	F1
3	L, B
4	F
5	1A
6	1B

NOTES:

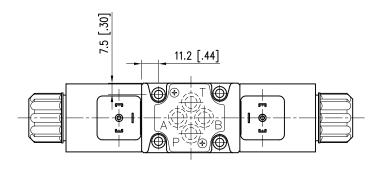
- 1. The values indicated in the graphs are relevant to the standard solenoid valve, with D24 coils.
- 2. Valve performance was tested in a four way circuit (full loop). Performances may be reduced from that shown when used in a three-way circuit (half circuit), i.e. A or B port plugged.
- 3. The values have been obtained according to ISO 6403 norm with solenoids at rated temperature and supplied with voltage equal to 90% of the nominal voltage. The value have been obtained with filtration according to ISO 4406:1999 class 18/16/13.

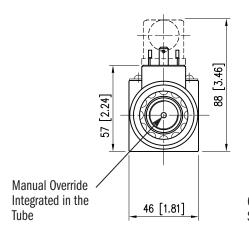


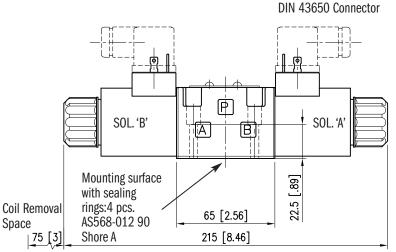
OVERALL AND MOUNTING DIMENSIONS - DIN STYLE VERSION

VS6M-2*, 3*

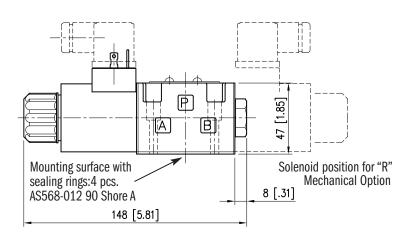
Dimensions in mm [IN]







VS6M-1*, 5*





COIL FEATURES

CODE	VOLTAGE [VOLT]	RESISTANCE AT 68°F [Ω] (±1%)	CURRENT CONSUMPTION [A] (±5%)	POWER CONSUMPTION (±5%) [W]
D12	12 V DC	4.4	2.72	32.7
D24	24 V DC	18.6	1.29	31

The coils are fastened to the tube by a threaded nut and can be rotated 360°.

SUPPLY VOLTAGE FLUCTUATION		± 10% Vnom	
MAXIMUM SWITCH ON FREQUENCY		10,000 cycles/hr	
DUTY CYCLE		100%	
ELECTROMAGNETIC COMPATIBILITY (EMC)		According to 2004/108/EC	
LOW VOLTAGE		According to 2006/95 EC	
CLASS OF PROTECTION	Coil Insulation	Class H	
CLASS OF FROILGIION	Impregnation	Class F	

COIL CONNECTION

K1 - DIN 43650

This solenoid has three terminal posts. Use bi-polar connectors that meet ISO 4400 / DIN 43650 (EN 175301-803). Protection against atmospheric agent: IP 65*

K2 - AMP JUNIOR

Plug for this type of connector. Protection against atmospheric agent: IP 67*

K7 - DEUTSCH DT04 MALE

Protection against atmospheric agent: IP 69* Connectors must be ordered separately.

*NOTE: The protection degree is guaranteed only with the connector correctly connected and installed.

SEAL KIT

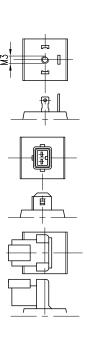
Buna Seal Kit	1019393
Bulla Seal Nil	1019393

BOLT KIT

BD03-125	1008406
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NOTES:

- 1. Bolt kit consists of: qty. 4 10-24 NC screws / qty. 4 #10 Lock washer
- 2. The recommended torque value for fasteners is: 4 lb.ft (5.4 Nm) $\,$





ABOUT CONTINENTAL HYDRAULICS

Rugged, durable, high-performance, efficient—the reason Continental Hydraulics' products are used in some of the most challenging applications across the globe. With a commitment to quality customer support and innovative engineering, Continental's pumps, valves, power units, mobile and custom products deliver what the markets demand. Continental has been serving the food production, brick and block, wood products, automotive and machine tool industries since 1962. Learn how our products survive some of the most harsh environments.

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