

The adaptable VM22 series of products is composed of a 5/2 or 5/3 spool-type centre section, to which an extensive range of actuators can be fitted. The VM22 range is interchangeable with Capsula 1/4 valve products. Manifold bases are available in single or gang-stack versions.

Key Features:

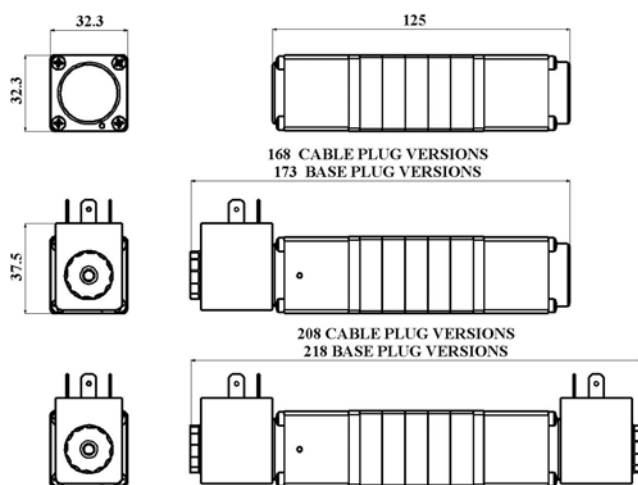
Cable plug and base plug versions

Metal actuator ends

Slip on/off interchangeable coils

Metal Manual override

5/2 and 5/3 pressure held/pressure release



The centre section consists of five moulded segments clamped between end plates and housing static twin lipped seals through which the valve spool slides. Spool actuators are secured to the ends of the centre section and four screws hold the valve to the base.

TECHNICAL SPECIFICATIONS

General

Type of Unit	5 Port 2 or 3 Position Directional Valve
Model Code	Refer to ordering code overleaf
Design	Spool Type Valve
Mounting Type	On Sub-Base
Connections	Appropriate to the Sub-Base
Port Sizes	8mm Push-in

Pneumatic Characteristics

Operating Pressure Range	3 - 8 bar (45 - 120psi)
Operating Temperature Range	-40 to +100°C
Orifice Size	6.0mm
CV Factor (Ports 1-2)	1.00
Response Time at 6 bar (87psi) mS	ON 40 OFF 80 Solenoid Operated

Actuators Electrical

Standard DC	12V	24V	
Standard AC	24V-50/60Hz	110V-50/60Hz	240V-50/60Hz

Consult with Sales for additional voltages

Electrical Characteristics

AC Solenoid	Inrush 8.5 VA (Max) Holding 6 VA (Max)
Standard DC Solenoid	4.5 Watts (Max)
Operating Duty	100% (Continuous)
Type of Protection (Class)	Standard Solenoid IP65
Insulation (Class)	Standard Solenoid 'F'
Electrical Connection	Standard Solenoid Din 43650 Type 'A'

Materials

Body Segments	Thermoset Plastic
Clamp Plates	Aluminium
Spool	Acetyl
Spool Seals	Nitrile
Actuator Housing	Anodised Aluminium
Actuator Pistons	Aluminium
Solenoid Components	Stainless Steel/Brass

Bases

- 1** Series - Rear Entry
- 3** Series - Common Entry and Exhaust
- 5** Series - Common Entry, Separate Exhaust
- 7** Series - Side Entry

Refer to Ordering Code overleaf for specifications

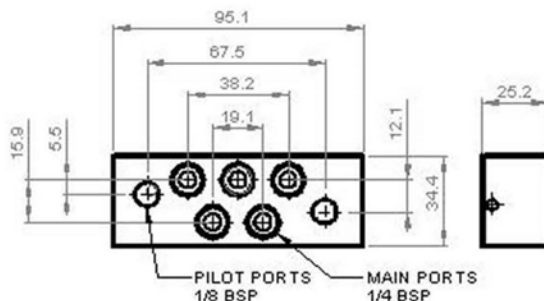


BASE DIMENSIONS

Rear Entry Base

Series 1**

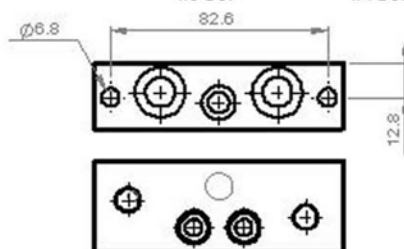
For Port Connection choice see Base
Product ordering code on page 4



Weight 360 gms

Common Inlet - Common Exhaust Base

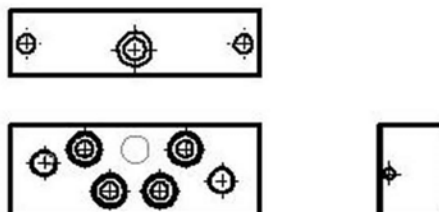
Series 3**



Weight 320 gms

Common Inlet - Separate Exhaust Base

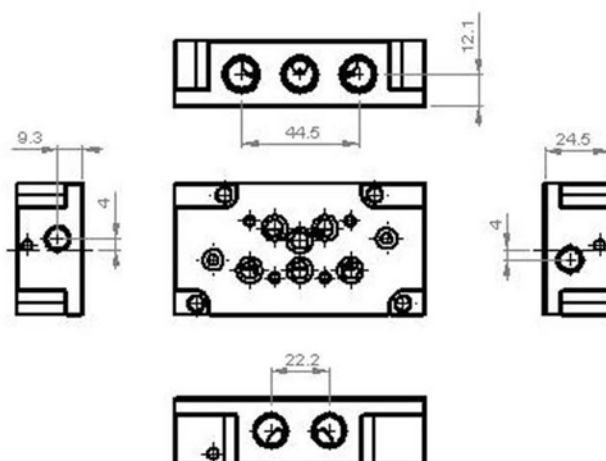
Series 5**



Weight 310 gms

Side Entry Base

Series 7**



Weight 320 gms

STANDARD VALVE RANGE



PRODUCT ORDERING CODE

VM22—0303—BS —000

PRODUCT FAMILY

VM22 - Capsula 1/4" Valve

ACTUATORS (SELECT BOTH ENDS)

- 01 - Solenoid Pilot Standard Piston No Manual Override
- 03 - Solenoid Pilot Standard Piston
- 04 - Solenoid Pilot Small Piston
- 05 - Air Pilot Standard Piston
- 06 - Air Pilot Small Piston
- 07 - Spring
- 14 - Air Spring
- 71 - Solenoid Pilot 5/3 Pressure Release
- 72 - Solenoid Pilot 5/3 Pressure Held
- 75 - Air Pilot 5/3 Pressure Release
- 76 - Air Pilot 5/3 Pressure Held

VOLTAGE - SOLENOID

- | | |
|----------|-------------------|
| A - 12DC | D - 24AC 50Hz |
| B - 24DC | F - 110AC 50/60Hz |
| | H - 230AC 50/60Hz |

(Add suffix 'S' if L.E.S. is required, otherwise insert 'O')

Consult with Sales for additional voltages

VALVE TOPWORKS ONLY

- 000 - Cable Plug
- 001 - Base Plug

BASE OPTIONS

- 1 4 1

PORT CONNECTIONS

- 1 - Rear or Side Entry Only
- 3 - Common Inlet/Exhaust
- 5 - Common Inlet/Separate Exhaust

PILOT CONTROL

- 1 - Both Internal
- 2 - Both External
- 3 - Port 12 Internal Port 14 External
- 4 - Port 14 Internal Port 12 External

BASE TYPE

- 1 - Rear Entry
- 3 - Common Inlet/Exhaust
- 5 - Common Inlet/Separate Exhaust
- 7 - Side Entry

KITS

- VM22K-1 - Valve Seals
- VM22K-2 - Solenoid Operator
- VM22K-3 - Spare Coil (Specify Voltage Code)
- VM22K-C - Base Kit

