- **Rugged, well proven range of valves**
- **Side ported, bottom ported and manifold sub-bases available**
- **Simple to service**

5/2 Spool Valves
Solenoid Actuated
G1/8

Technical Data

Medium:
Compressed air, filtered, lubricated and non-lubricated

Operation:
Spool valve, indirectly actuated

Mounting:
Through holes in sub-base, threaded

Port Size:
G1/8

Operating Pressure:
2 - 10 bar

Flow (to CETOP RP50P):
Conductance $dm^3/s/bar$ 0,89
Critical pressure ratio 0,48

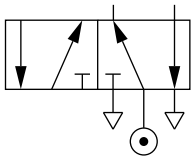
Operating Temperature:
+5˚C to +50˚C M/1761
–5˚C* to +40˚C supply air M/1741
+5˚C to +40˚C ambient M/1741
*Consult our Technical Service for use below +2˚C

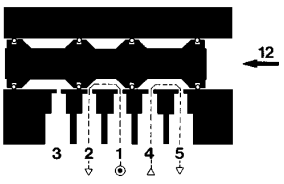
Alternative Models

Other operator types for the M/1761 range are also available:
Section 5.5. - Pressure actuated models (M/1701)

Materials

Pressure diecast zinc alloy body and sub-base, aluminium spool, nitrile rubber seals

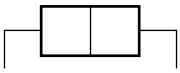




Ordering Information

To order, quote model number followed by voltage code from table overleaf, e.g. M/1761/123/137 for a Solenoid Pilot Set-reset model for use with an electrical supply of 220 - 240V 50/60Hz. For manifold models, add number of valves required in manifold after 'T' suffix, e.g. CM/1761/123/137/T4 for four of the
above models ready to be bolted together by means of tie rods supplied. Spare valve bodies can also be supplied to assist servicing and reduce downtime by adding prefix 'Q' to the basic, side ported, valve number and '/07' suffix, e.g.

General Information

Model	Sub-base	Solenoid Pilot	 Operator	Return	Weight (kg)	Spares kit
M/1761/152	Side ported	Integral	Solenoid	Air	0,59	QM/1701/00
M/1741/7152*	Side ported	Integral	Solenoid	Air	–	QM/1701/00
M/1761/123	Side ported	Integral	Solenoid	Solenoid	0,71	QM/1701/00
M/1741/7123*	Side ported	Integral	Solenoid	Solenoid	–	QM/1701/00
BM/1761/152	Bottom ported	Integral	Solenoid	Air	0,59	QM/1701/00
BM/1741/7152*	Bottom ported	Integral	Solenoid	Air	–	QM/1701/00
BM/1761/123	Bottom ported	Integral	Solenoid	Solenoid	0,71	QM/1701/00
BM/1741/7123*	Bottom ported	Integral	Solenoid	Solenoid	–	QM/1701/00
CM/1761/152/T	Manifold	Integral	Solenoid	Air	0,72	QM/1701/00
CM/1741/7152/T*	Manifold	Integral	Solenoid	Air	–	QM/1701/00
CM/1761/123/T	Manifold	Integral	Solenoid	Solenoid	0,85	QM/1701/00
CM/1741/7123/T*	Manifold	Integral	Solenoid	Solenoid	–	QM/1701/00

*Explosion proof solenoid models for use in Zones 1 and 2

Electrical Details for Solenoid Operators for M/1761

Voltage	Codes
12V d.c.	160
24V d.c. (low power)	173
24V d.c.	127
24V 50/60Hz	164
48V 50/60Hz	165
110/120V 50/60Hz	166
220/240V 50/60Hz	167

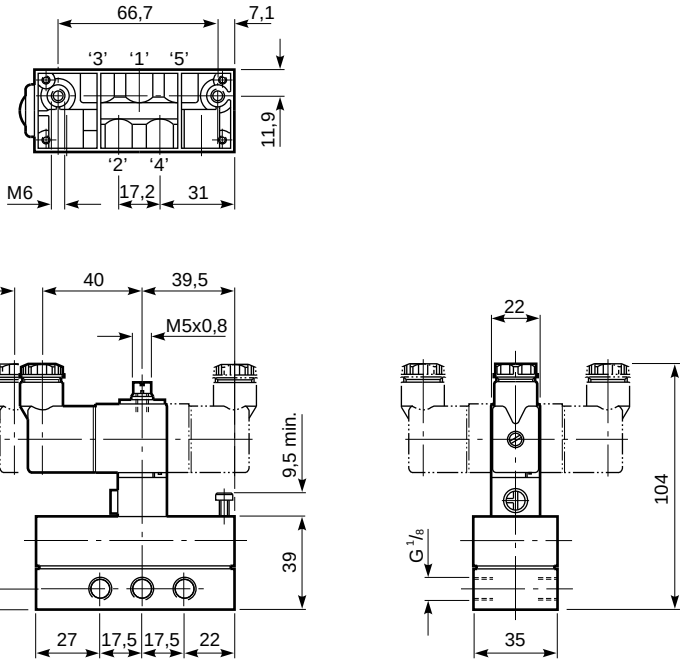
Voltage Tolerances:	d.c.: +10/-15% a.c.: +10/-15%
Power:	d.c.: 2W (low power - 0,5 on 24V)
Inrush/Hold:	a.c.: 4/2,5VA (9/5VA on 220/240V) 100% E.D.
Inlet Orifice:	1,0 mm
Exhaust Orifice:	2,0 mm 1,1 mm (low power)
Terminal Box:	3 pin plug with cable grip (DIN 43650 Form B) May be repositioned at 180˚
Cable Entry:	Pg9
Solenoid Coil:	May be rotated at 90˚ intervals
Manual Override:	Standard, turn 180˚ anti-clockwise to operate, turn clockwise to return
Protection Class:	IP65 (DIN 40050)
Manual Override:	Standard, twist clockwise and hold to operate, release to return

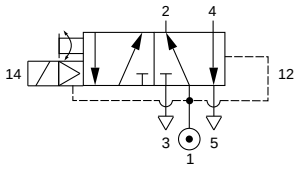
Electrical Details for Solenoid Operators for M/1741/7*

Voltage	Codes
24V d.c.	10
220V 50/60Hz	156
Voltage Tolerances:	d.c.: ±10% a.c.: +10/-15%
Inrush/Hold:	d.c.: 5,7W a.c.: 17,5/10VA 100% E.D.
Cable:	6,6 mm o.d.
Conductors:	24/0,2-0,75 mmÍ
Insulation:	PVC
Colours:	Brown, blue and green & yellow stripe (earth)
Test Certificate:	PTB Nr. Ex-79/2108 x
Protection rating:	E Ex e II T 4

These models have been designed for use in potentially explosive atmospheres and comply with BS. 5501 Part 1-EN 50014 and BS. 5501 Part 6-EN 50019. They incorporate increased safety features over the standard solenoid, in the form of an explosion proof solenoid enclosure and terminal box, which have been applied so as to prevent, with a higher degree of security, the possibility of excessive temperatures and the occurrence of arcs or sparks in the interior and on the external parts of electrical apparatus which does not produce them normally. They are suitable for use in environments where the lowest ignition temperature of that atmosphere is above 135˚C. They should not, however, be used in mines susceptible to firedamp. If there is a requirement for a valve to be used in a firedamp atmosphere (i.e. methane), then the JS/659 flameproof valve must be used. See page **5.4.**091.01

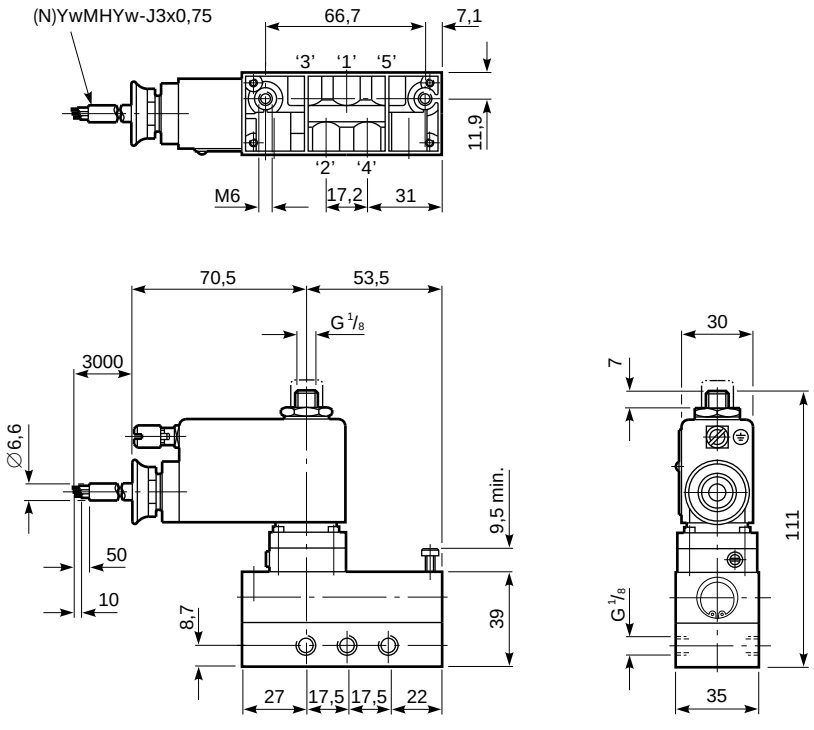
Solenoid Pilot Actuated, Air Return

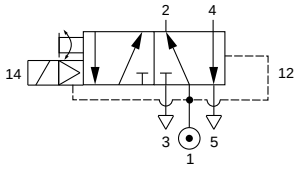




Model Number: **M/1761/152**
Type: 5/2
Integral Pilot Supply

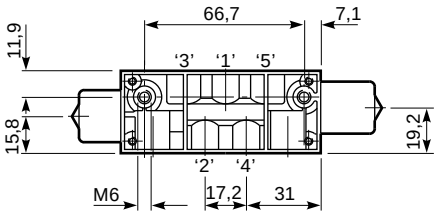
Explosion Proof Solenoid Pilot Actuated, Air Return

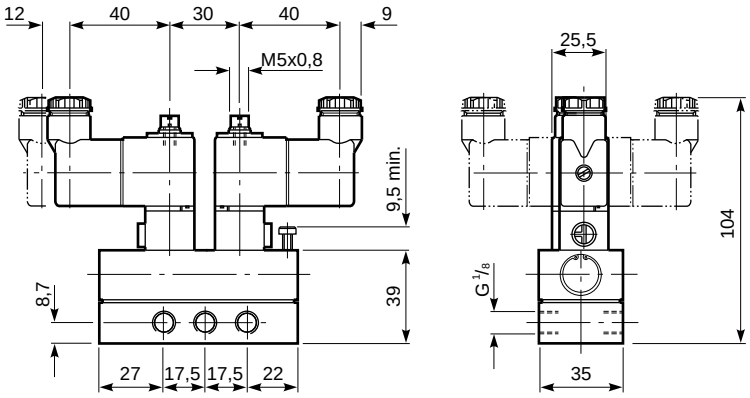


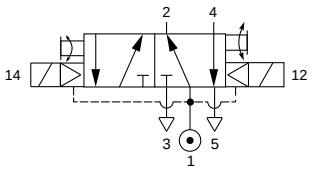


Model Number: **M/1741/7152**
Type: 5/2
Integral Pilot Supply

Solenoid Pilot Set-reset

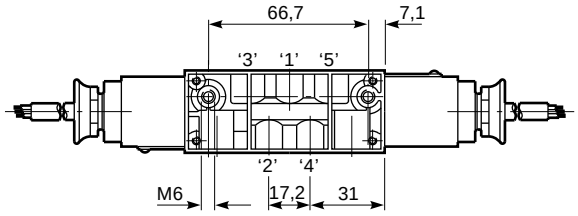


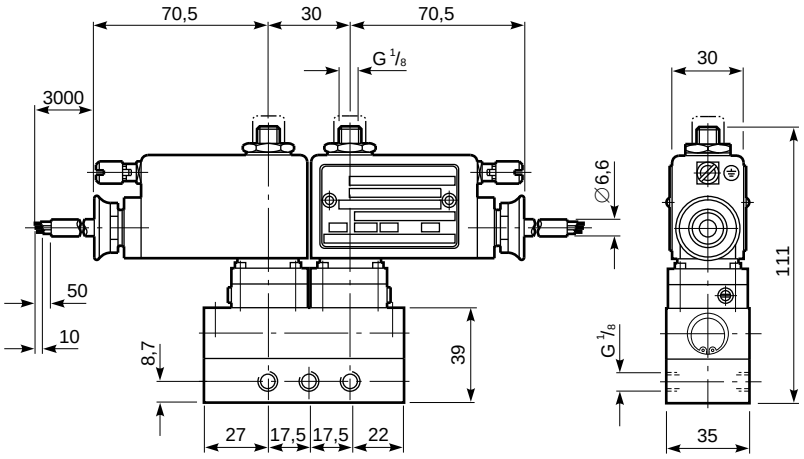


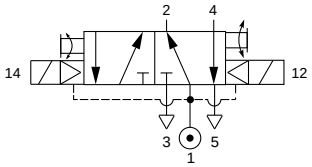


Model Number: **M/1761/123**
Type: 5/2
Integral Pilot Supply
Valve should be mounted with the axis of the spool horizontal

Explosion Proof Solenoid Pilot Set-reset

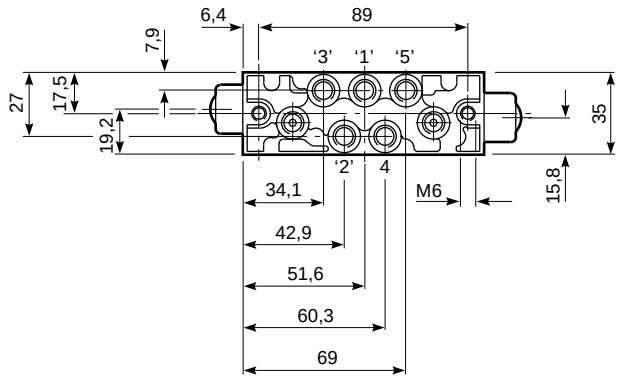


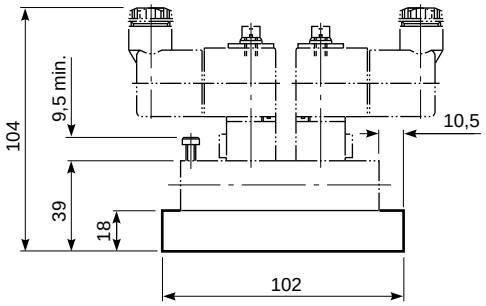




Model Number: **M/1741/7123**
Type: 5/2
Integral Pilot Supply
Valve should be mounted with the axis of the spool horizontal

Sub-bases for M/1761 and M/1741 valves



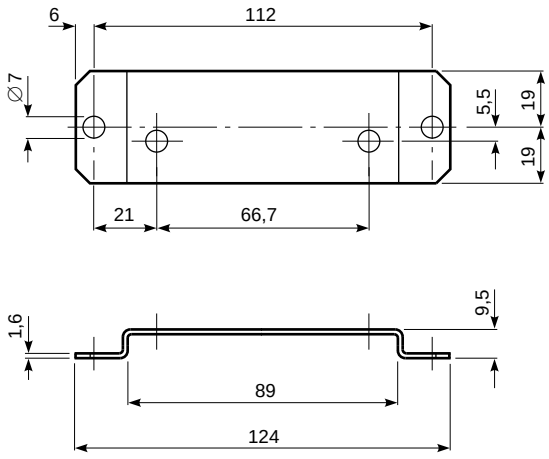


Bottom Ported Sub-base Models

Model Numbers: **BM/1761/123**
BM/1761/152
BM/1741/7123
BM/1741/7152

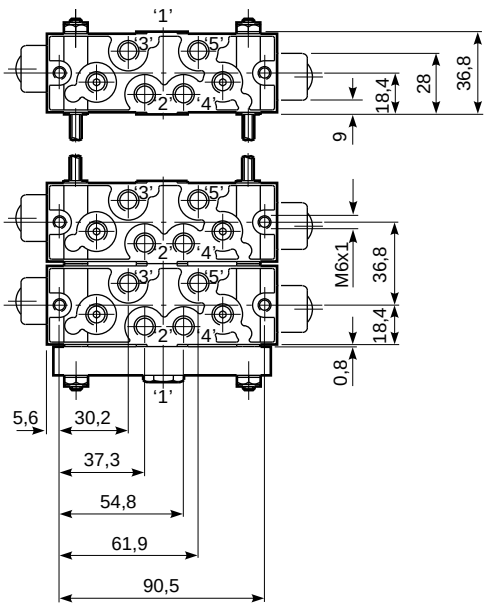
Type: Single sub-base with all ports on the bottom

Accessories



Steel fixing plate, including screws and washers, is available for the side ported models, reference QM/1391.

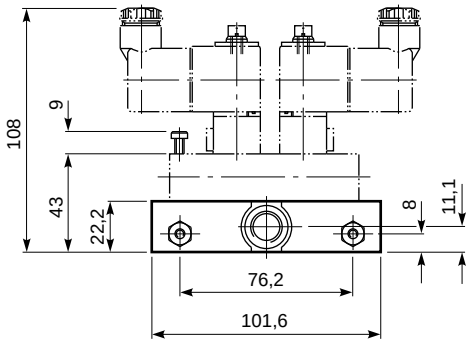
Manifold Sub-base Models

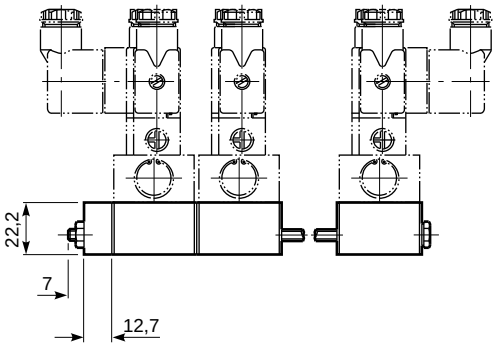


Model Numbers: **CM/1761/123/T***
CM/1761/152/T*
CM/1741/7123/T*
CM/1741/7152/T*

Type: Manifold sub-base with outlet and exhaust ports on the bottom and inlet port on the side for up to six valves.

*Insert number of valves required in manifold. Different models may be assembled in the same manifold. Plug for port '1' may be inserted at either end.





Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where *pressures* and *temperatures* can exceed those listed under **'Technical Data'**.
Before using these products with fluids other than those specified, for non-industrial applications, life-support systems, or other applications not within published specifications, consult NORGREN MARTONAIR.
Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.
System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.
System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.