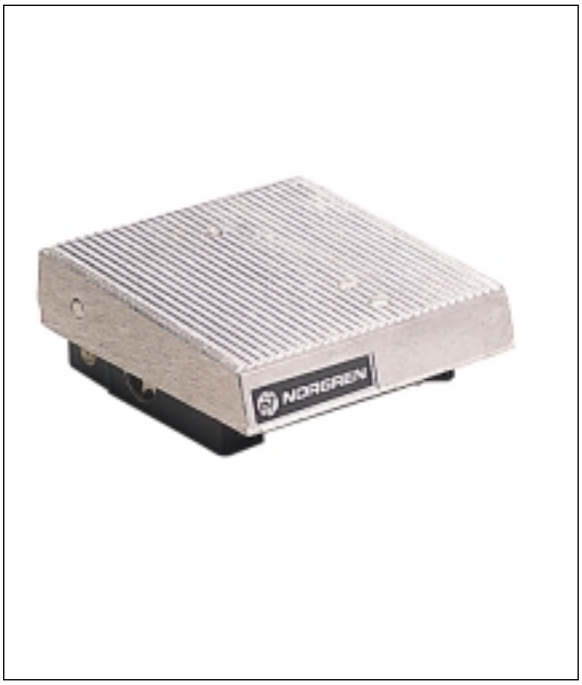
OBSOLETE DOCUMENT
Technical Reference Only

4/2 Spool Valves Manually Actuated $G^1/_4$

- **Neat, attractive styling with low overall height**
- **Short operating movement with light force minimise operator fatigue**
- **Large pedal area**
- **Suitable for 3/2 function**



Technical Data

Medium:
Compressed air, filtered, lubricated and non-lubricated
Operation:
Spool valve, bleed operated
Mounting:
Through-holes in valve body, threaded. Optional mounting plate.
Port Size:
$G^1/_4$
Operating Pressure:
2 - 10 bar
Flow Characteristics:

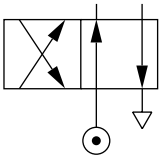
C	b	A	Cv	l/min
2,12	0,14	8,5	0,52	512

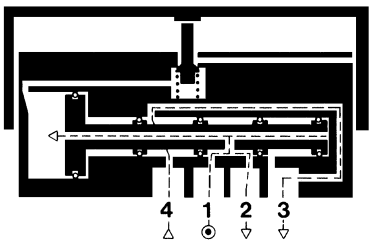
Operating Temperature:
–20˚C* to +80˚C
*Consult our Technical Service for use below +5˚C

Materials:
Diecast zinc alloy valve body, diecast aluminium foot pedal, nitrile rubber seals.

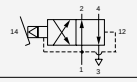
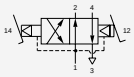
Ordering Information

To order, quote model number from table overleaf, e.g. M/649/99 for the Pedal Pilot Pressure Release Operated, Air Return model.

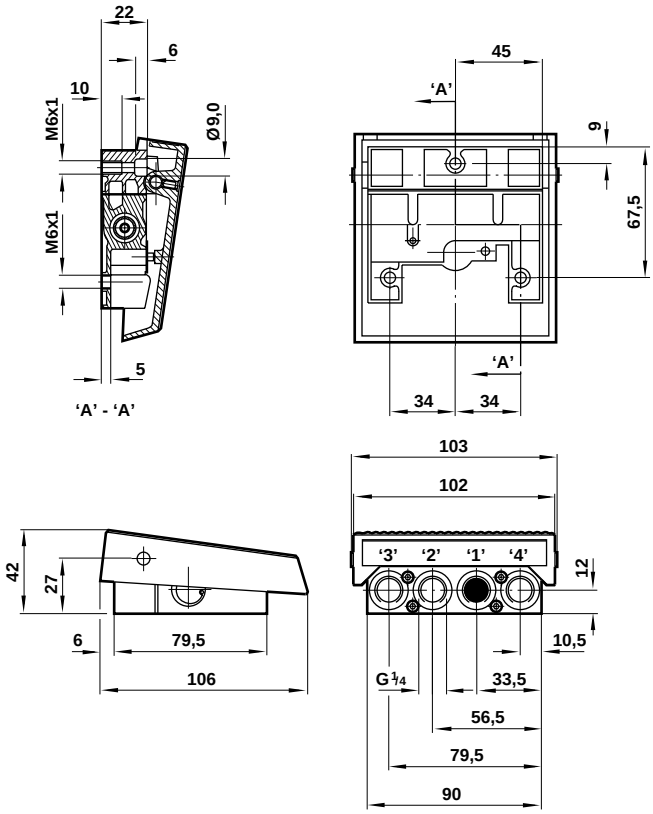




General Information
4/2 Spool Valves

Symbol	Model	Operation	Return	Weight (kg)	Spares kit
	M/649/99	Pedal	Air	0,70	QM/649/99/00
	M/649/119	Pedal	Pedal	0,70	QM/649/99/00

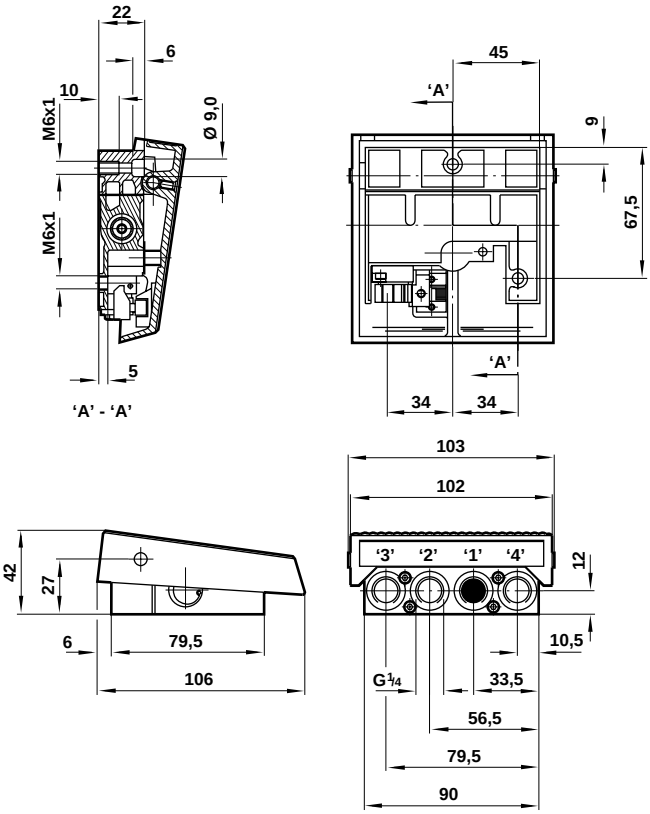
M/649/99
Pedal Pilot Pressure Release Operated, Air Return



Operating Force: 13,5 N @ 2 bar
22 N @ 10 bar

To avoid accidental operation the valve should be installed in a protected position.
For use as a 3/2 valve, plug the unwanted outlet port.

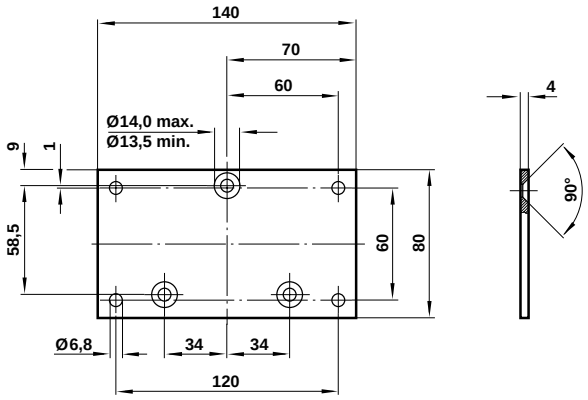
M/649/199
Pedal Pilot Pressure Release Set, Pedal Pilot Air Re-set



Operating Force: 35,5 N @ 10 bar

To avoid accidental operation the valve should be installed in a protected position.
For use as a 3/2 valve, plug the unwanted outlet port.

Accessories



Mounting Plate for use when the valve cannot be mounted in the normal manner, reference QM/1149. Includes three M6 x 1 x 10 long bolts.

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.
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.