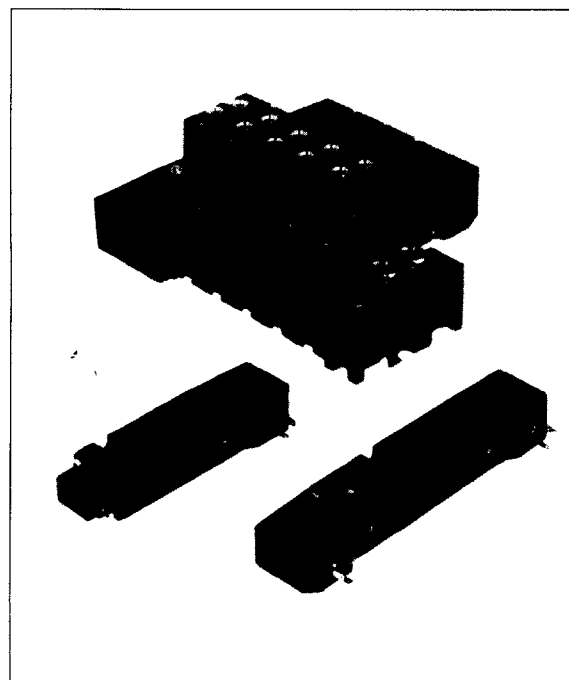


**Integrally Ported 5/2 Spool Valves
Solenoid Actuated and Pilot Operated
Ø 4, Ø 6mm or M5**

- High flow from 17 mm body width
- Low power solenoids with a range of voltages
- Use valves singly or with Base Systems
- Low profile fixed length manifolds
- Modular manifolds can be DIN rail or surface mounted



Technical Data

Medium:

Compressed air, filtered to 40µm lubricated and non-lubricated

Operation:

Spool valve, indirectly actuated

Mounting:

Through-holes in valve body or to 35 mm DIN rail using modular base system

Port Sizes:

M5, Ø 4 mm and Ø 6 mm (with connector blocks)

Operating Pressure:

Maximum 10 bar

See individual details overleaf

Flow Characteristics:

Size	'C'	'b'	'A'	l/min	Cv	Kv
M5	1	0,55	4,23	256	0,26	0,22
Ø 4mm	0,9	0,54	3,74	226	0,23	0,2
Ø 6mm	1,4	0,42	5,7	344	0,35	0,3

Ambient Temperature:

-20°C to +80°C Pilot Models

-20°C to +50°C Solenoid Models

*Consult our Technical Service for use below +2°C

Materials

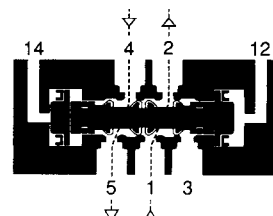
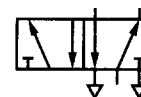
Zinc alloy body, glass filled end caps, aluminium spool with bonded nitrile rubber seals, and glass filled co-polymer bases.

Ordering Information

To order, quote model number and voltage code from tables overleaf, e.g. V085516A-B213A for a Solenoid Pilot Actuated, Spring and Air Return model fitted with a 24 V d.c. coil and screwdriver operated manual override.

Multipole Systems

For complete Valve Islands see section 5.4.112





General Information

Symbol	Model	Manual Override	Solenoid Pilot	Operator	Return	Operating Pressure (bar)	Pilot Pressure (bar)	Weight (kg)	Spares kit
	V085516A-B21*A	Push and Lock	Internal	Solenoid	Spring and Air	3 - 10	-	0,155	V10034-K00
	V085516A-B31*A	Push Only							
	V085511A-B21*A	Push and Lock	Internal	Solenoid	Solenoid	2 - 10	-	0,198	V10034-K00
	V085511A-B31*A	Push Only							
	V085536A-X0130	-	-	Pressure	Spring and Air	2 - 10	1,5 + 0,5 x supply	0,152	V10034-K00
	V085533A-X0020	-	-	Pressure	Pressure	1 - 10	2 - 10	0,141	V10034-K00

*Insert voltage code from table below.

*Voltage Codes

Voltage	Codes	Power Inrush/Hold
6V d.c.	1	1,5 W
12V d.c.	2	1,7 W
24V d.c.	3	1,7 W
12V 50/60Hz	1	4,1/2,9 VA
24V 50/60Hz	4	4,1/2,9 VA
48V 50/60Hz	6	4,1/2,9 VA
110V 50/60Hz	8	3,5/2,5 VA
240V 50/60Hz	9	3,5/2,5 VA

Electrical Details for Solenoid Operators

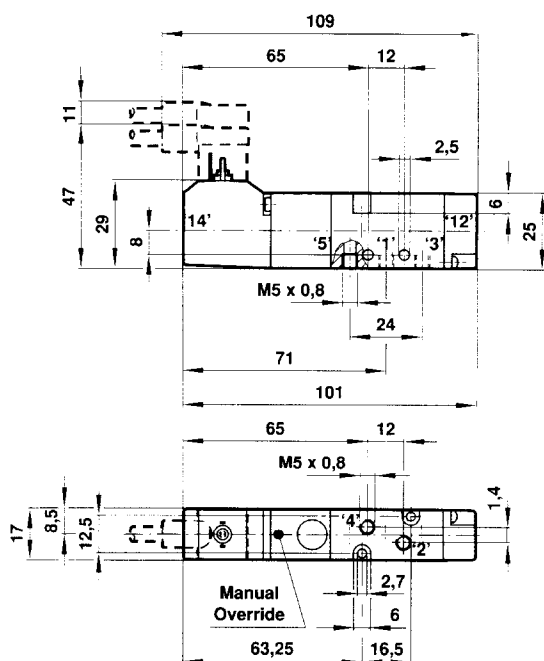
Voltage Tolerances:	±10%
Rating:	100% E.D.
Inlet Orifice:	0,8 mm
Electrical Connection:	DIN 43650 table 'C'
Manual Override:	V0855--A-B21*A - Push button, spring return with locking facility V0855--A-B31*A - Push button, spring return
Protection Class:	IP 65 (DIN 40050)

For details of connector plugs and light emitting seals see page 7.7.001.

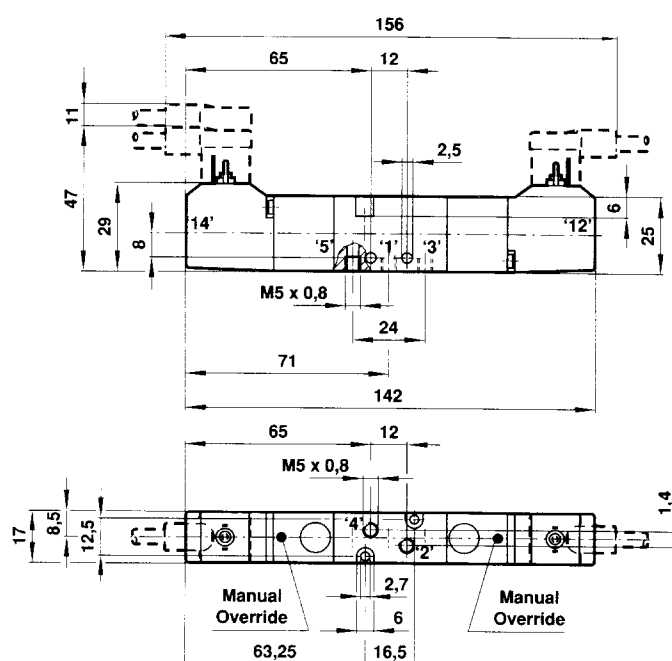
Accessories

Optional Port Connector Blocks	Blanking Plate	Optional Tie Rod Kits	DIN Rail
V085516A-Q0404, Ø4 mm	V095516A-Q1100	V085516A-Q0302-0316	V10009-C00 1 metre
V085516A-Q0406, Ø6 mm	-	-	-

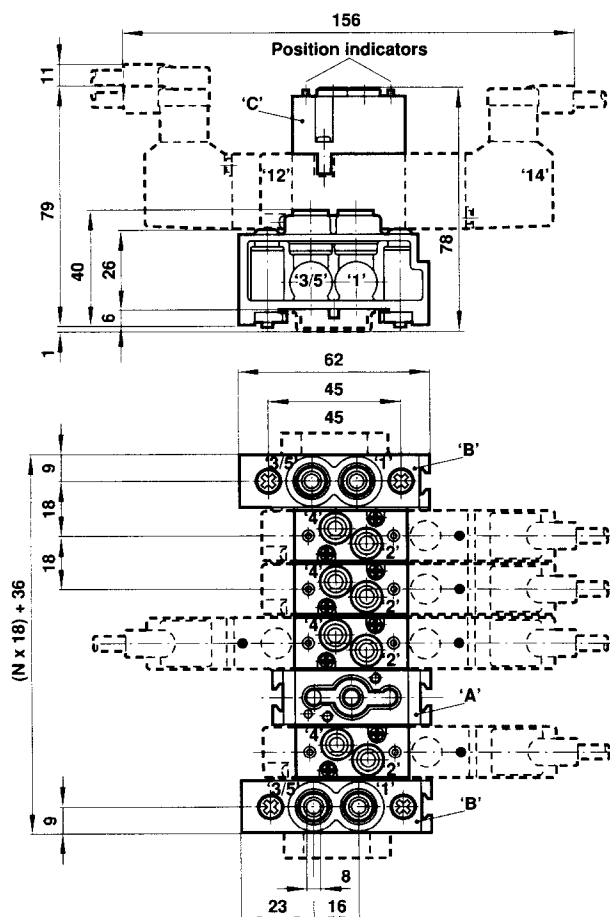
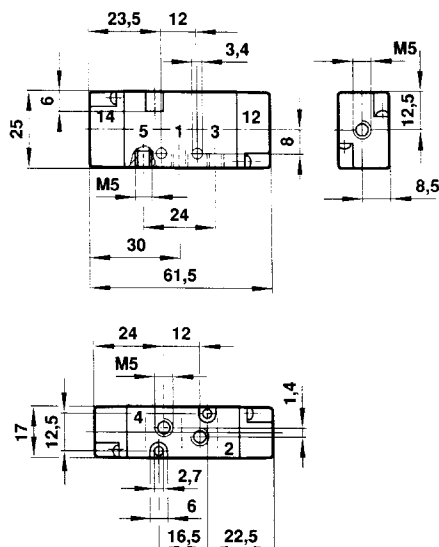
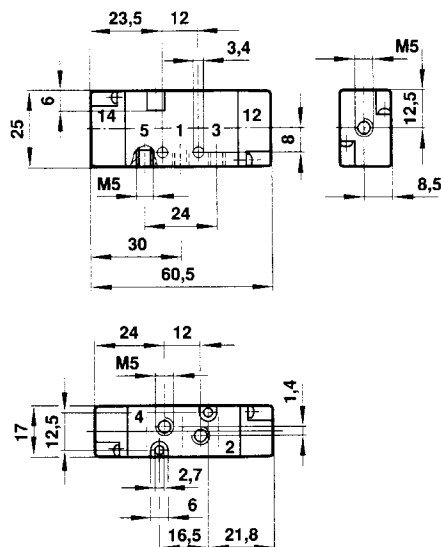
V085516A Models Single Solenoid Valves



V085511A Models Double Solenoid Valves

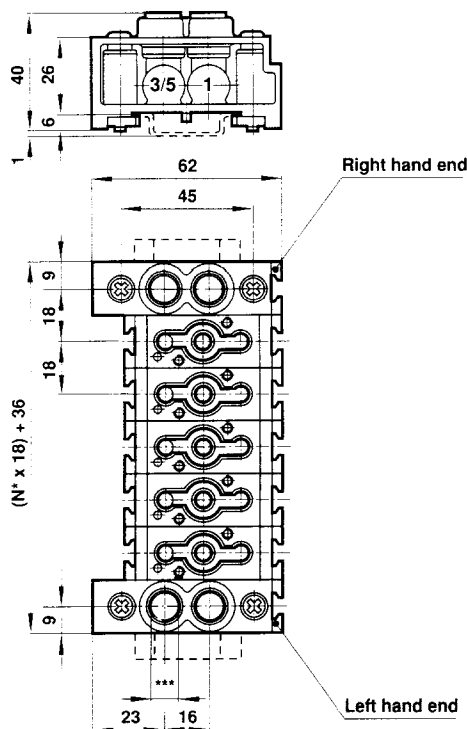


V085533A-X0020
Double Pilot Valve





Modular Manifold assemblies for DIN rail or surface mounting



N = Number of stations

*** For Ø8 mm tube

Modular Manifold assemblies

Model Number: **V088AX**–XXXXX**

Type: Manifold assemblies for 2 to 16 stations, ** = 02 to 16.

Size: Ø 8 mm tube

Dual Pressure Modular Manifold assemblies

Model Number: **V088AX**–**XXX**

Type: Manifold assemblies for 2 to 16 stations, allows supply of two different inlet pressures simultaneously

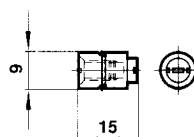
Size: Ø 8 mm tube

** = 1 to 15 to indicate position of Dual Pressure Plug, e.g. V088AX03–07XX indicates a 10 station base divided into groups of 3 and 7.

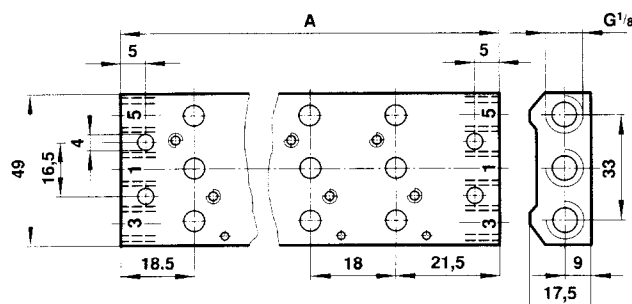
Dual Pressure Plug

Model Number: **V085516A–Q05AA**

To be placed in the inlet gallery



Fixed Length Manifold



Type	No. of stations	A
V10026 – G02	2	58
V10026 – G04	4	94
V10026 – G06	6	130
V10026 – G08	8	166
V10026 – G10	10	202
V10026 – G12	12	238

Note: Gaskets and valve fixing screws are supplied with these manifolds

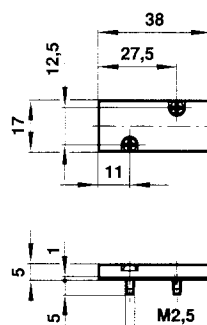
Accessories

Connector plugs and light emitting seals see page 7.7.001.

Blanking Plate

Model Number: **V095516A–Q1100**

Blanking Plate for blocking off unwanted stations.



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.

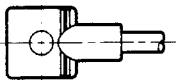
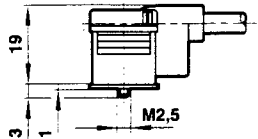
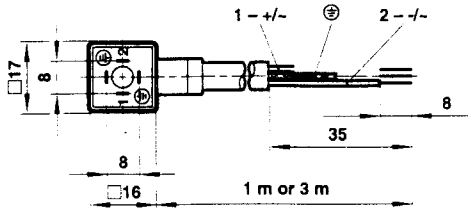
Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in 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.



Table 'C' Connectors



Connectors with moulded cable

Model Number: **V10013-D01** 1 m cable
V10013-D03 3 m cable

Type: 3 pin plug with 8 mm centres

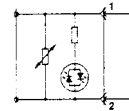
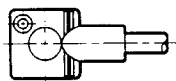
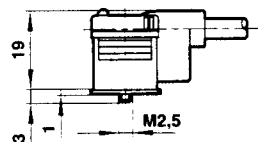
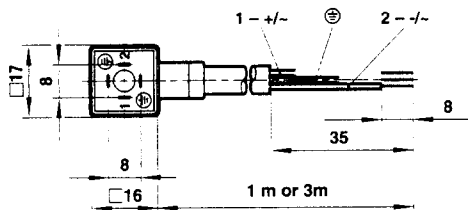
Polarity:

1 - Brown +/-

2 - Blue -/-

⊕ - Yellow-green earth

Cable size: 3 x 0,5 mm²



Indicator connectors with moulded cable

Model Number:

V10014-D01 1 m cable (24 V a.c. or d.c.)

V10015-D01 1 m cable (110 V a.c. or d.c.)

V10016-D01 1 m cable (220 V a.c. or d.c.)

V10014-D03 3 m cable (24 V a.c. or d.c.)

V10015-D03 3 m cable (110 V a.c. or d.c.)

V10016-D03 3 m cable (220 V a.c. or d.c.)

Type: 3 pin plugs with 8 mm centres, red LED indicators and a VDR

Polarity:

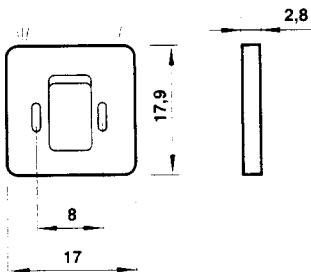
1 - Brown +/-

2 - Blue -/-

⊕ - Yellow-green earth

Cable size: 3 x 0,5 mm²

Light Emitting Seals



Model Number:

V10037-E13 (12 - 24 V)

V10037-E18 (110 - 120 V)

V10037-E19 (220 - 240 V)