

- > **Port size: Ø 6 mm, G1/8**
- > **Sub-base mounted**
- > **Dedicated AS-Interface models**
- > **Multipole for easy installation**
- > **IP40, IP65 and Conduit entry models**
- > **From 12 V up to 240 V supply**



Technical features

Indication:

By red LED (d.c.) or neon (a.c.)
Flywheel diode for d.c.
Suppression by diode (d.c.)
or VDR (a.c.)

Diagnostic:

Red LED = correct movement
of armature
Orange LED = failed operation
Valve Terminal pins to DIN 43650
table 'C'

Degree of protection:

IP40 'D' sub-connector
IP65 Round type plug

Ambient/Media temperature:

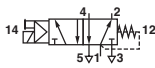
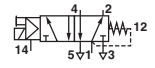
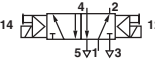
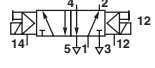
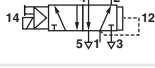
-20 ... +50°C (-4 ... +122°F) .
Air supply must be dry enough to
avoid ice formation at temperatures
below +2°C (+35°F).

Materials

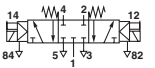
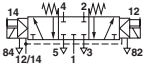
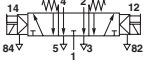
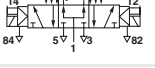
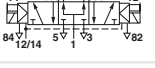
Wireway housings and modules:
glass fibre reinforced
co-polymer mouldings
Conduit end caps:
zinc pressure die-cast
End plates: aluminium alloy
sub-base modules: aluminium
pressure die-cast

Technical data

5/2 solenoid actuated valves

Symbol	Manual Override	Solenoid Pilot	Operator	Return	Operating pressure (bar)	Pilot pressure (bar)	Weight (kg)	Spares kit	Model
	Screwdriver, bi-stable	Internal	Solenoid	Spring and air	2 ... 10	-	0,155	V10034-K00	V096516R-D21*A
	push button spring return								V096516R-D31*A
	Screwdriver, bi-stable	External	Solenoid	Spring and air	2 ... 10	2 ... 10	0,155	V10034-K00	V096526R-D21*A
	push button spring return								V096526R-D31*A
	Screwdriver, bi-stable	Internal	Solenoid	Solenoid	2 ... 10	-	0,198	V10034-K00	V096511R-D21*A
	push button spring return								V096511R-D31*A
	Screwdriver, bi-stable	External	Solenoid	Solenoid	2 ... 10	2 ... 10	0,198	V10034-K00	V096522R-D21*A
	push button spring return								V096522R-D31*A
	Screwdriver, bi-stable	Internal	Solenoid	Air	2 ... 10	-	0,155	V10034-K00	V096513R-D21*A
	push button spring return								V096513R-D31*A

5/3 Solenoid actuated valves

Symbol	Manual Override	Pilot supply	Operator	Mid-position	Return	Operating pressure (bar)	Pilot pressure (bar)	Weight (kg)	Spares kit	Model
	Screwdriver, bi-stable	Internal	Solenoid	APB	Solenoid	2 ... 10	-	0,205	V10034-K01	V096611W-D21*A
	Push button									V096611W-D31*A
	Screwdriver, bi-stable	External	Solenoid	APB	Solenoid	2 ... 10	2 ... 10	0,205	V10034-K01	V096622W-D21*A
	Push button									V096622W-D31*A
	Screwdriver, bi-stable	Internal	Solenoid	COE	Solenoid	2 ... 10	-	0,205	V10034-K02	V096711W-D21*A
	Push button									V096711W-D31*A
	Screwdriver, bi-stable	External	Solenoid	COE	Solenoid	2 ... 10	2 ... 10	0,205	V10034-K02	V096722W-D21*A
	Push button									V096722W-D31*A
	Screwdriver, bi-stable	Internal	Solenoid	COP	Solenoid	2 ... 10	-	0,205	V10034-K03	V096811W-D21*A
	Push button									V096811W-D31*A
	Screwdriver, bi-stable	External	Solenoid	COP	Solenoid	2 ... 10	2 ... 10	0,205	V10034-K03	V096822W-D21*A
	Push button									V096822W-D31*A

* Insert Voltage Code from table (see page 3.)

APB = All Ports Blocked, COE = Centre Open Exhaust, COP = Centre Open Pressure.

Voltage codes and spare solenoid kits

Voltage	Code	Power	Solenoid Kit Part Number	
			Push MO Pin Down	Turn MO Pin Down
12 V d.c.	2	1 W	V12861-P12	V12861-T12
24 V d.c.	3	1 W	V12861-P13	V12861-T13
24 V 50/60 Hz	4	1 W	V12861-P14	V12861-T14
110 V 50/60 Hz	8	1 W	V12861-P18	V12861-T18
240 V 50/60 Hz	9	1 W	V12861-P19	V12861-T19

Electrical details for solenoid operators

Voltage tolerances:	-10/+15%
Rating:	100% E.D.
Inlet orifice:	0,8 mm
Electrical connection:	DIN 43650 table 'C'
Manual override:	V096***-D21*A - Screwdriver bi-stable V096***-D31*A - Push button, spring return
Protection class:	IP 65 (DIN 40050)

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

Electrical details for wireway

Voltage	Features	Indicator	Codes	Colour code
12 ... 24 V d.c.	Surge suppression	LED (red)	3	Green
24 ... 48 V 50/60 Hz	Surge suppression	Neon	6	Blue
110 ... 120 V 50/60 Hz	Surge suppression	Neon	8	Yellow
220 ... 240 V 50/60 Hz	Surge suppression	Neon	9	Orange

Sub-bases



Modular sub-base

V095516R-Q130G (G1/8 ports)
V095516R-Q1306 (push-in cartridges)



End plate kit

V095516R-Q140G



Optional tie rod kits

V085516A-Q0302...0320

Accessories



Sandwich plate flow regulator

V095516A-Q1200



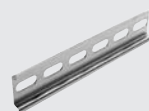
Blanking plate

V095516A-Q1100



DIN rail mounting kits

V10007-K00



Din rail

V10009-C00 1 metre



Blanking disk set

V095516A-Q1900



Intermediate supply/Exhaust plate

V095516A-Q160G



Pressure switch assembly

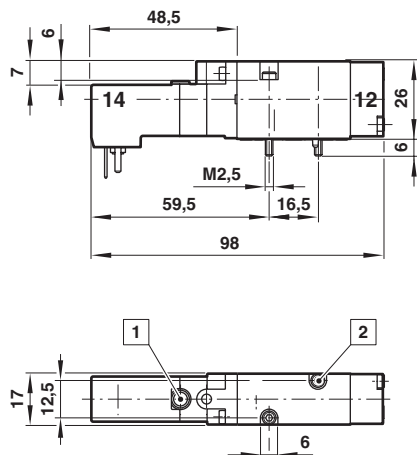
V095516A-Q1700

V09 Valves for modular sub-base mounting

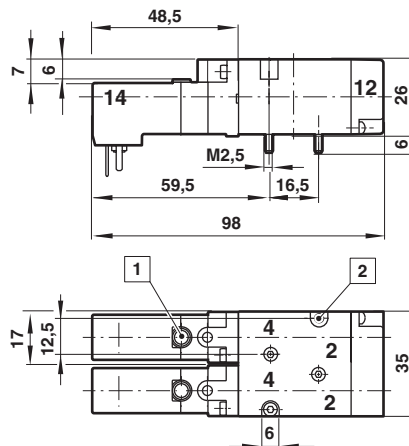
Dimensions in mm
Projection/First angle



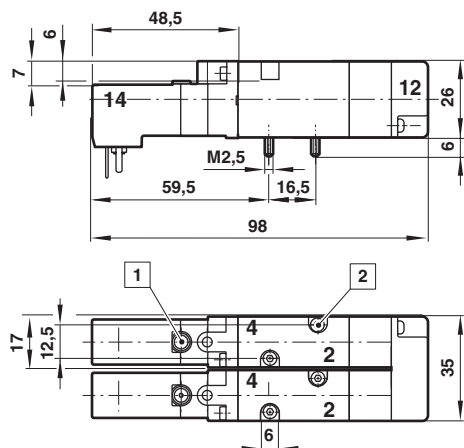
V0965**R models 5/2 Single solenoid valves



V0965**W models 5/2 Double width solenoid valve



V096***W models 5/3 Double width solenoid valve

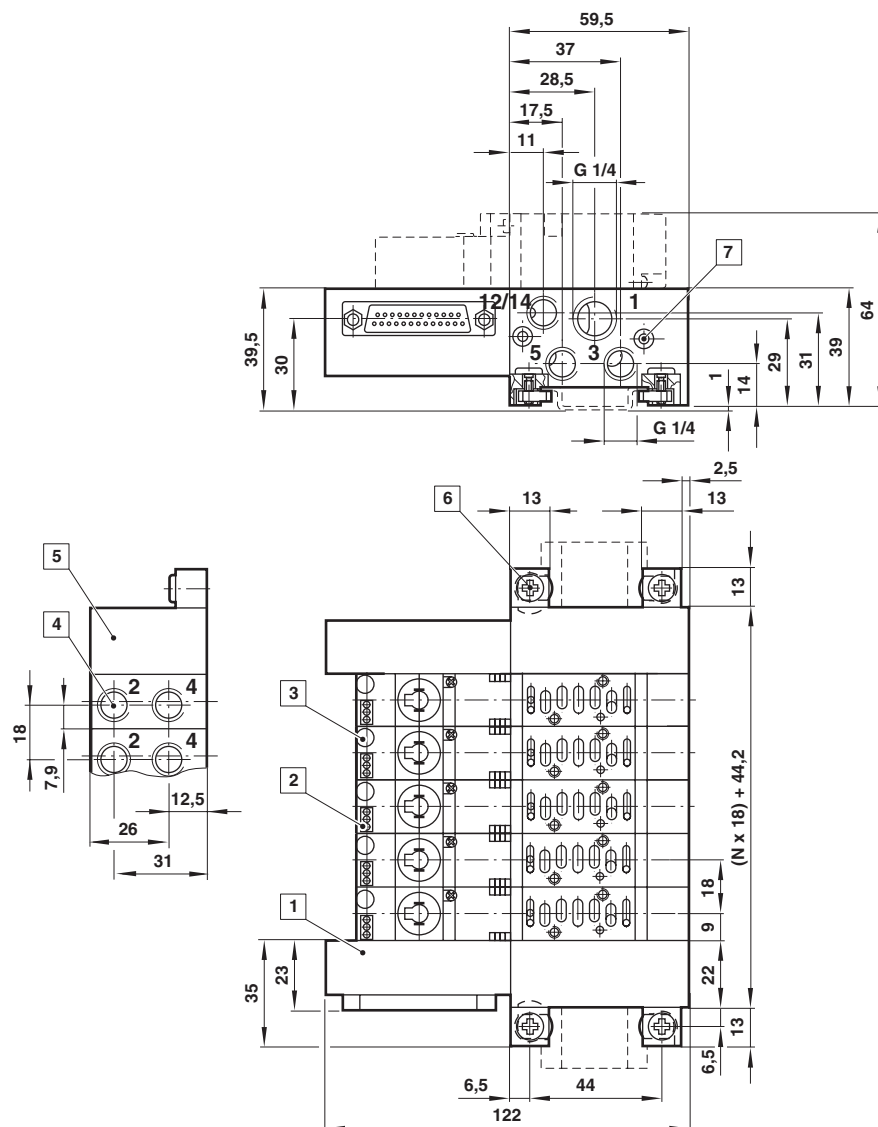


- 1 Manual override
- 2 Fixing screws

Note: Two stations needed

Modular Sub-base with IP40 D-Sub connector wireway for V09 valves

Dimensions in mm
Projection/First angle



- N** N = Number of stations
- 1** Incoming unit and harness
- 2** Multipole module
- 3** LED
- 4** Modular sub-base
- 5** End plate kit
- 6** DIN-rail mounting kit
- 7** Tie rod kit

End plate and harness with D Multipole connector

Number of stations	Model
4	V095516A-Q0604
8	V095516A-Q0608
12	V095516A-Q0612
16	V095516A-Q0616
20	V095516A-Q0620

Multipole module
V085516R-Q091*

Standard with indicator
* Insert voltage code

Modular sub-base
V095516R-Q130G

Modular sub-base G 1/8

Modular sub-base
V095516R-Q1306

Modular sub-base $\varnothing$ 6 mm PIF

End plate kit
V095516R-Q140G

Port 1 G 1/4, Ports 3 & 5 G 1/8

Tie rod kits
V085516A-Q03**

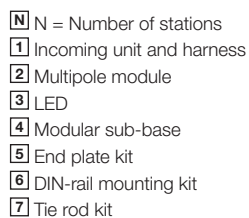
2 kits required for the sub-base assembly
 ** = 02 to 20 indicating the number of stations.
 For the wireway: 1 kit required with number of stations minus 1

**DIN-rail mounting kit
V10319-K30**

For mounting on DIN-rail

**Dual pressure blanking disk set
V095516A-Q1900**

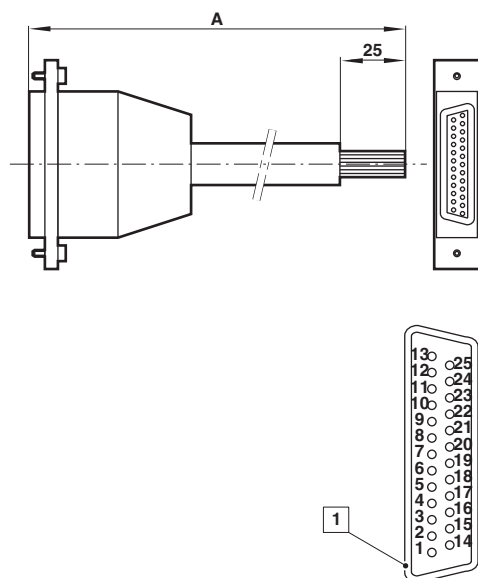
Dimensions in mm
Projection/First angle



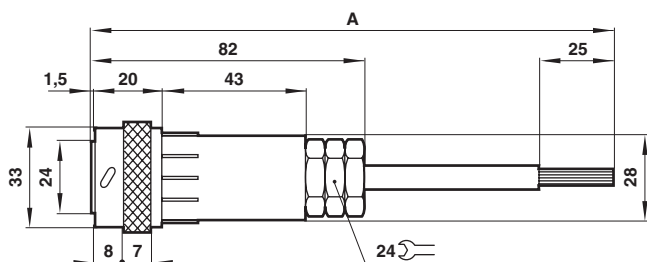
Number of stations	Model
4	V095516A-Q0704
8	V095516A-Q0708
12	V095516A-Q0712
16	V095516A-Q0716
18	V095516A-Q0718

**Dual pressure blanking disk set
V095516A-Q1900**

IP40 D-Sub connector



IP65 Round connector



D-Sub connector with cable

Dimensions in mm

Projection/First angle

Type: 25 pin IP 40 D-Sub connector, cable size 0,52 mm²



Model	A	Weight (kg)
V10020-E01	1,0 m	0,276
V10020-E03	3,0 m	0,676
V10020-E05	5,0 m	1,076

Pin no.	Socket	Plug	Pin no.	Socket	Plug
1	Solenoid 1	Red	14	Solenoid 14	Green/red
2	Solenoid 2	Blue	15	Solenoid 15	Yellow/red
3	Solenoid 3	Green	16	Solenoid 16	White/red
4	Solenoid 4	Yellow	17	Solenoid 17	Red/black
5	Solenoid 5	White	18	Solenoid 18	Red/brown
6	Solenoid 6	Brown	19	Common, -Ve/neutral	Yellow/blue
7	Solenoid 7	Violet	20	Common, -Ve/neutral	White/blue
8	Solenoid 8	Orange	21	Common, -Ve/neutral	Blue/black
9	Solenoid 9	Pink	22	Common, -Ve/neutral	Orange/blue
10	Solenoid 10	Turquoise	23	Common earth	Yellow/green
11	Solenoid 11	Grey	24	Solenoid 19	Grey/blue
12	Solenoid 12	Red/blue	25	Solenoid 20	Green/blue
13	Solenoid 13	Black			

Solenoid No. 1 is nearest to the connector on valve island

Round connector with cable

Type: 23 pin IP65 round connector,

cable size 0,52 mm²

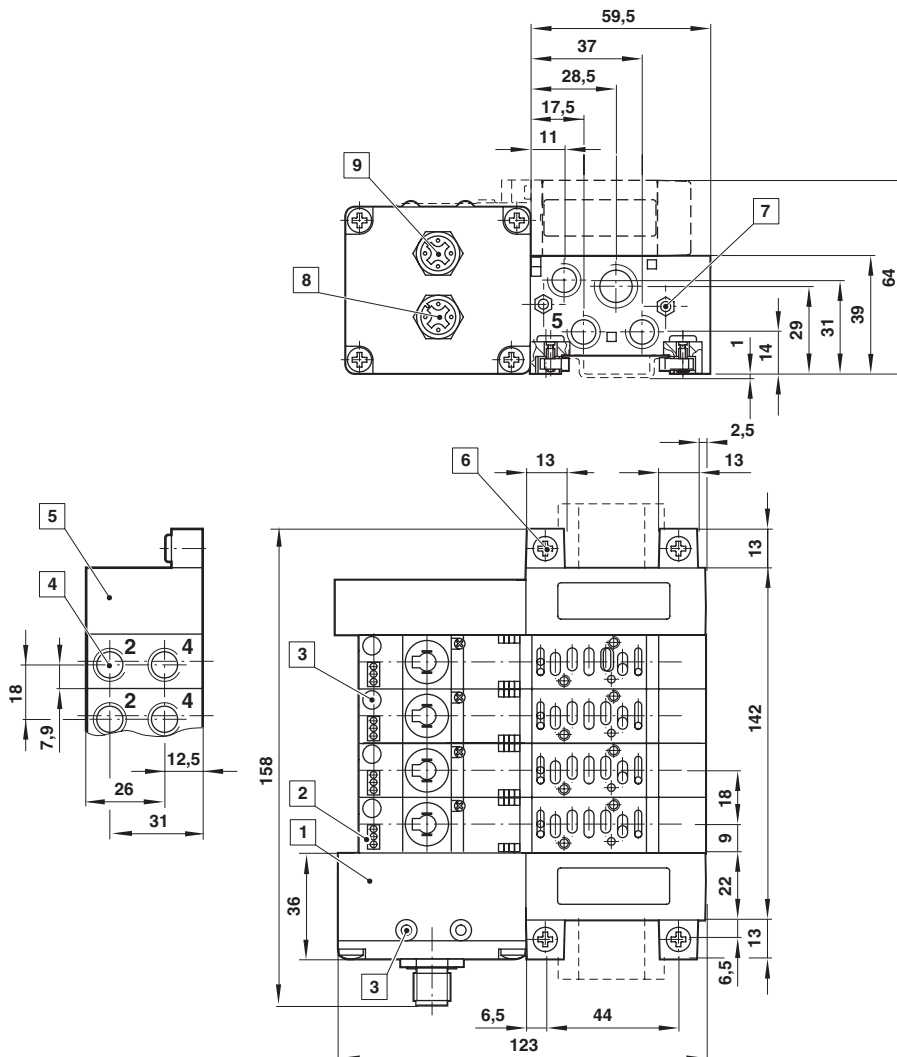
Model	A
V10021-E01	1,0 m
V10021-E03	3,0 m
V10021-E05	5,0 m

Pin no.	Socket	Plug	Pin no.	Socket	Plug
A	Solenoid 1	Red	N	Solenoid 13	Black
B	Solenoid 2	Blue	P	Solenoid 14	Green/red
C	Solenoid 3	Green	R	Solenoid 15	Yellow/red
D	Solenoid 4	Yellow	S	Solenoid 16	White/red
E	Solenoid 5	White	T	Solenoid 17	Red/black
F	Solenoid 6	Brown	U	Solenoid 18	Red/brown
G	Solenoid 7	Violet	V	Common, -Ve/neutral	Yellow/blue
H	Solenoid 8	Orange	W	Common, -Ve/neutral	White/blue
J	Solenoid 9	Pink	X	Common, -Ve/neutral	Blue/black
K	Solenoid 10	Turquoise	Y	Common, -Ve/neutral	Orange/blue
L	Solenoid 11	Grey	Z	Common earth	Yellow/green
M	Solenoid 12	Red/blue			

Note: Solenoid no. 1 is nearest to the connector on the valve island.

AS-Interface – 4 output models

Dimensions in mm
 Projection/First angle



4 output LHS AS-I module
VE1AS09A-00400

Multipole module (24 V d.c.)
V085516R-Q0913
 Standard with indicator

Modular sub-base
V095516R-Q130G
 Modular sub-base G 1/8

Modular sub-base
V095516R-Q1306
 Modular sub-base ø 6 mm PIF

End plate kit
V095516R-Q140G
 Port 1 G 1/4, Ports 3 & 5 G 1/8

Tie rod kits
V085516A-Q03**
 2 kits required for the sub-base assembly
 ** = 02 to 20 indicating the number of stations.
 For the wireway: 1 kit required with number of stations minus 1

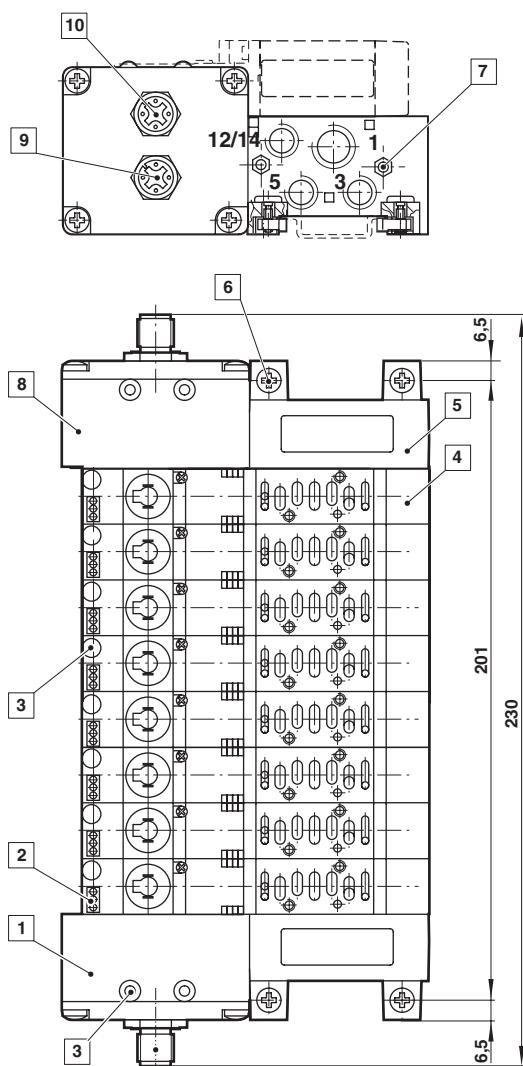
DIN-rail mounting kit
V10319-K30
 For mounting on DIN-rail

Dual pressure blanking disk set
V095516A-Q1900

- 1 4 output LHS AS-I module
- 2 Multipole module
- 3 LED
- 4 Modular sub-base
- 5 End plate kit
- 6 DIN-rail mounting kit
- 7 Tie rod kit
- 8 AS-I bus
- 9 External power

AS-Interface – 8 output models

Dimensions in mm
Projection/First angle



4 output LHS AS-I module
VE1AS09A-00400

4 output RHS AS-I module
VE1AS09B-00400

Multipole module (24 V d.c.)
V085516R-Q0913
Standard with indicator

Modular sub-base
V095516R-Q130G
Modular sub-base G 1/8

Modular sub-base
V095516R-Q1306
Modular sub-base ø 6 mm PIF

End plate kit
V095516R-Q140G
Port 1 G 1/4, Ports 3 & 5 G 1/8

Tie rod kits
V085516A-Q03**
2 kits required for the sub-base assembly
** = 02 to 20 indicating the number of stations.
For the wireway: 1 kit required with number of stations minus 1

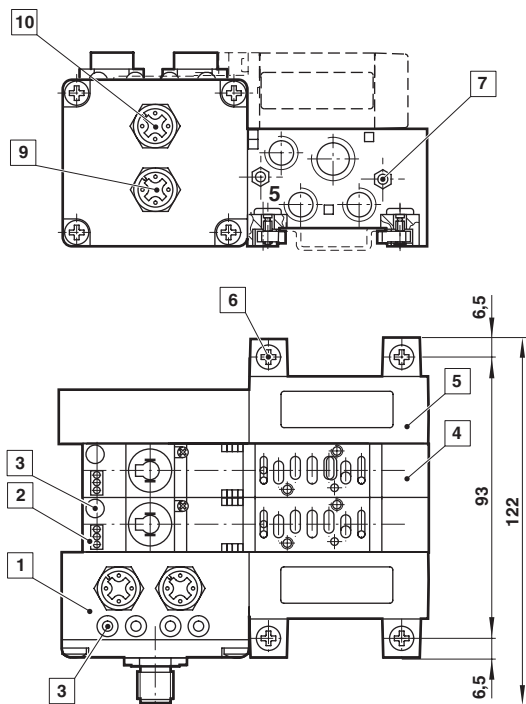
DIN-rail mounting kit
V10319-K30
For mounting on DIN-rail

Dual pressure blanking disk set
V095516A-Q1900

- 1** 4 output LHS AS-I module
- 2** Multipole module
- 3** LED
- 4** Modular sub-base
- 5** End plate kit
- 6** DIN-rail mounting kit
- 7** Tie rod kit
- 8** 4 output RHS AS-I module
- 9** AS-I bus
- 10** External power

AS-Interface – 2 output/2 input models

Dimensions in mm
Projection/First angle



**2 output / 2 input LHS AS-I
module**
VE1AS09A-20200

Multipole module (24 V d.c.)
V085516R-Q0913
Standard with indicator

Modular sub-base
V095516R-Q130G
Modular sub-base G 1/8

Modular sub-base
V095516R-Q1306
Modular sub-base ø 6 mm PIF

End plate kit
V095516R-Q140G
Port 1 G 1/4, Ports 3 & 5 G 1/8

Tie rod kits
V085516A-Q03**
2 kits required for the sub-base
assembly
** = 02 to 20 indicating the number
of stations.
For the wireway: 1 kit required
with number of stations minus 1

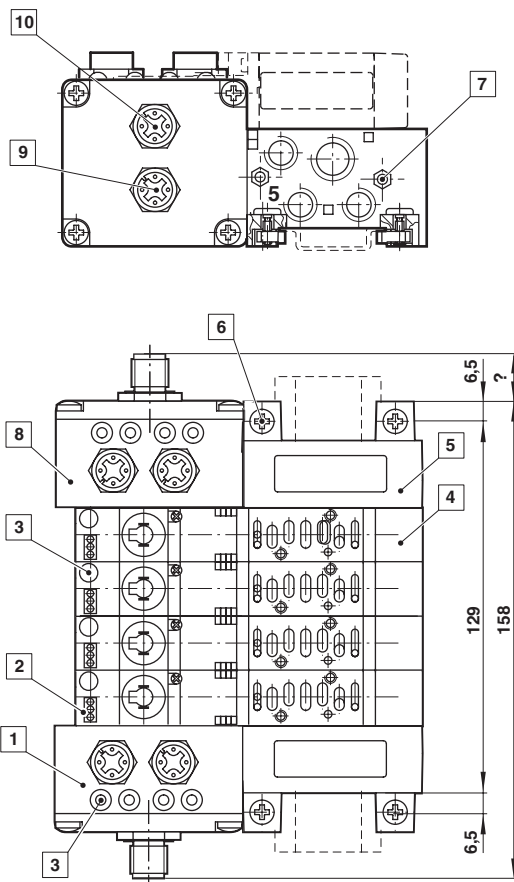
DIN-rail mounting kit
V10319-K30
For mounting on DIN-rail

Dual pressure blanking disk set
V095516A-Q1900

- 1** 2 output / 2 input LHS AS-I module
- 2** Multipole module
- 3** LED
- 4** Modular sub-base
- 5** End plate kit
- 6** DIN-rail mounting kit
- 7** Tie rod kit
- 9** AS-I bus
- 10** External power

AS-Interface – 4 output / 4 input Models

Dimensions in mm
Projection/First angle



- 1 2 output/ 2 input LHS AS-I module
- 2 Multipole module
- 3 LED
- 4 Modular sub-base
- 5 End plate kit
- 6 DIN-rail mounting kit
- 7 Tie rod kit
- 8 2 output/ 2 input RHS AS-I module
- 9 AS-I bus
- 10 External power

**2 output/ 2 input LHS AS-I
module**
VE1AS09A-20200

**2 output/ 2 input RHS AS-I
module**
VE1AS09B-20200

Multipole module (24 V d.c.)
V085516R-Q0913
Standard with indicator

Modular sub-base
V095516R-Q130G
Modular sub-base G 1/8

Modular sub-base
V095516R-Q130G
Modular sub-base ø 6 mm PIF

End plate kit
V095516R-Q140G
Port 1 G 1/4, Ports 3 & 5 G 1/8

Tie rod kits
V085516A-Q03**
2 kits required for the sub-base
assembly
** = 02 to 20 indicating the number
of stations.
For the wireway: 1 kit required
with number of stations minus 1

DIN-rail mounting kit
V10319-K30
For mounting on DIN-rail

Dual pressure blanking disk set
V095516A-Q1900

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 features/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 IMI 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.