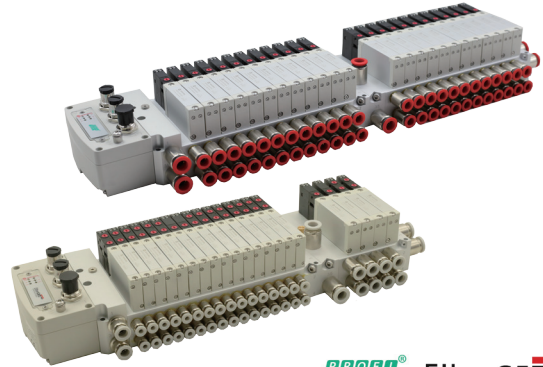


VSR Series, 10/15 mm 2 x 3/2, 5/2 or 5/3 Valve Islands

- Industrial Ethernet
- 2 x 3/2, 5/2 or 5/3 valve slices
- Modular system offering a wide range of configuration options
- LED indicator of solenoid function
- No restriction in installation
- 4, 8, 12, 16, 20, 24 stations
- Fixed length, allow for mix-up of 10 mm and 15 mm valve slices
- Easy to replace valves and fittings



Technical features

Medium:
Compressed air, filtered to 40 µm, lubricated or non-lubricated

Operation:
Dynamic softseal spool valve, solenoid pilot operated

Flow:

VSR1

Function	l/min	Cv	Kv
2 x 3/2	350	0.39	0.34
5/2	350	0.39	0.34
5/3	350	0.39	0.34

VSR2

Function	l/min	Cv	Kv
2 x 3/2	560	0.64	0.55
5/2	560	0.64	0.55
5/3	560	0.64	0.55

Mounting:
Sub-base

Ports 1, 3 & 5 (P,E):

VSR1: G 1/4, PIF 8 mm; NPT 1/4", PIF 5/16"
VSR2: G 1/4, PIF 10 mm; NPT 1/4", PIF 3/8"

Ports 2 & 4 (A,B):

VSR1: R 1/8, PIF 6 mm; NPT 1/4", 5/32"
VSR2: R 1/8, PIF 8 mm; NPT 1/4", 5/16"

Operating pressure:

Maximum pressure 8 bar; 116psi

Media/Ambient temperature:

-5 ... +50°C (+23 ... 122°F)
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

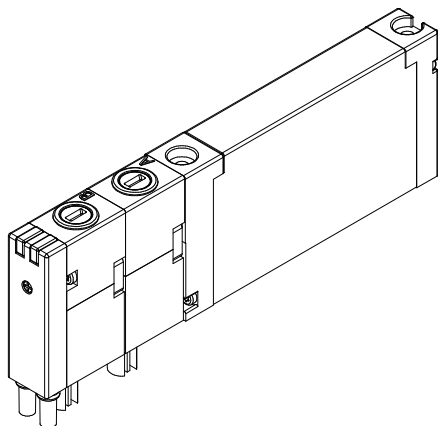
Materials:

Body: Aluminium + PBT
Spool: Aluminium
Seal: NBR
Sub-base: Aluminium

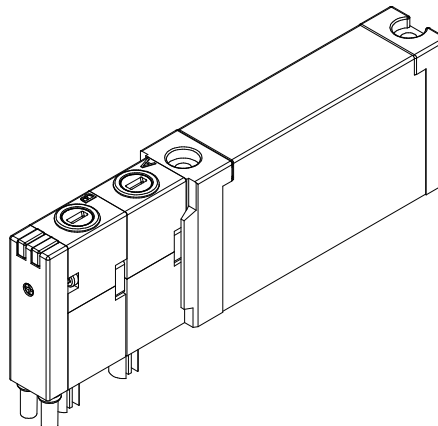
Electrical details for solenoid operators

Supply voltage	24V d.c. ±10%
Power consumption	24 V d.c 0.5W
Manual override	Push and turn to lock
Rating	100% E.D
Indication	LED red/green

Technical data valve

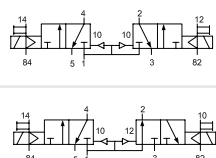
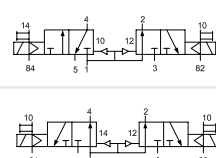
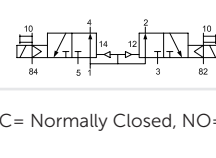


VSR1



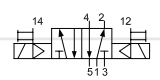
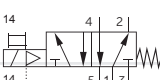
VSR2

2x 3/2 Double solenoid actuated valves

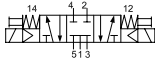
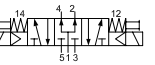
Symbol	Series	Function	Actuation	Pilot Supply	Operating Pressure (bar / psi)	Manual Override	Voltage	Model
	VSR1	2 X 3/2	NC/NC	Internal	2.5 ... 8/36 ... 116	Push & turn to lock	24 V d.c	VSR1SA11BV203A
	VSR2	2 X 3/2	NC/NC	Internal	2.5 ... 8/36 ... 116	Push & turn to lock	24 V d.c	VSR2SA11BV203A
	VSR1	2 X 3/2	NC/NO	Internal	2.5 ... 8/36 ... 116	Push & turn to lock	24 V d.c	VSR1SC11BV203A
	VSR2	2 X 3/2	NC/NO	Internal	2.5 ... 8/36 ... 116	Push & turn to lock	24 V d.c	VSR2SC11BV203A
	VSR1	2 X 3/2	NO/NO	Internal	2.5 ... 8/36 ... 116	Push & turn to lock	24 V d.c	VSR1SB11BV203A
	VSR2	2 X 3/2	NO/NO	Internal	2.5 ... 8/36 ... 116	Push & turn to lock	24 V d.c	VSR2SB11BV203A

NC= Normally Closed, NO= Normally Open

5/2 Single and double solenoid actuated valves

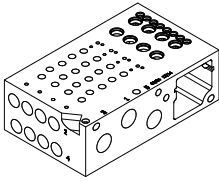
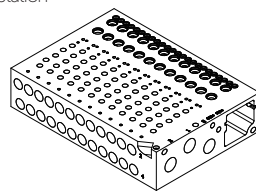
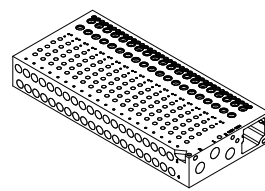
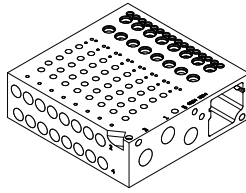
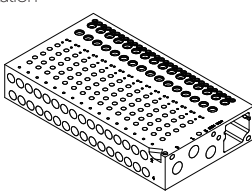
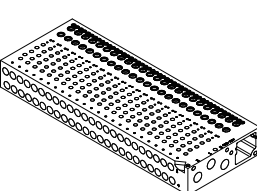
Symbol	Series	Function	Actuation	Pilot Supply	Pilot Pressure (bar / psi)	Operating Pressure (bar / psi)	Manual Override	Voltage	Model
	VSR1	5/2	Sol./Sol.	Internal	2 ... 8/29 ... 116	2 ... 8/29 ... 116	Push & turn to lock	24 V d.c	VSR1S511BV203A
				External	2 ... 8/29 ... 116	0 ... 8/0 ... 116			
	VSR2	5/2	Sol./Sol.	Internal	2 ... 8/29 ... 116	2 ... 8/29 ... 116	Push & turn to lock	24 V d.c	VSR2S511BV203A
				External	2 ... 8/29 ... 116	0 ... 8/0 ... 116			
	VSR1	5/2	Sol./Spring	Internal	2 ... 8/29 ... 116	2 ... 8/29 ... 116	Push & turn to lock	24 V d.c	VSR1S513BV203A
				External	2 ... 8/29 ... 116	0 ... 8/0 ... 116			
	VSR2	5/2	Sol./Spring	Internal	2 ... 8/29 ... 116	2 ... 8/29 ... 116	Push & turn to lock	24 V d.c	VSR2S513BV203A
				External	2 ... 8/29 ... 116	0 ... 8/0 ... 116			

5/3 Single and double solenoid actuated valves

Symbol	Series	Function	Actuation	Pilot Supply	Pilot Pressure (bar / psi)	Operating Pressure (bar / psi)	Manual Override	Voltage	Model
	VSR1	5/3	APB	Internal	3 ... 8/46 ... 116	3 ... 8/46 ... 116	Push & turn to lock	24 V d.c	VSR1S611BV203A
				External	3 ... 8/46 ... 116	0 ... 8/0 ... 116			
	VSR2	5/3	APB	Internal	3 ... 8/46 ... 116	3 ... 8/46 ... 116	Push & turn to lock	24 V d.c	VSR2S611BV203A
				External	3 ... 8/46 ... 116	0 ... 8/0 ... 116			
	VSR1	5/3	COE	Internal	3 ... 8/46 ... 116	3 ... 8/46 ... 116	Push & turn to lock	24 V d.c	VSR1S711BV203A
				External	3 ... 8/46 ... 116	0 ... 8/0 ... 116			
	VSR2	5/3	COE	Internal	3 ... 8/46 ... 116	3 ... 8/46 ... 116	Push & turn to lock	24 V d.c	VSR2S711BV203A
				External	3 ... 8/46 ... 116	0 ... 8/0 ... 116			
	VSR1	5/3	COP	Internal	3 ... 8/46 ... 116	3 ... 8/46 ... 116	Push & turn to lock	24 V d.c	VSR1S811BV203A
				External	3 ... 8/46 ... 116	0 ... 8/0 ... 116			
	VSR2	5/3	COP	Internal	3 ... 8/46 ... 116	3 ... 8/46 ... 116	Push & turn to lock	24 V d.c	VSR2S811BV203A
				External	3 ... 8/46 ... 116	0 ... 8/0 ... 116			

APB= All Ports Blocked, COE= Centre Open Exhaust, COP= Centre Open Port

5/3 Single and double solenoid actuated valves

		Series	No. Stations	Port Size (2/4)	Model
4 Station		VSR1	4	Rc 1/8	VSR160475BE046
		VSR1	4	NPT 1/8"	VSR160475NE045
		VSR1	8	Rc 1/8	VSR160475BE086
		VSR1	8	NPT 1/8"	VSR160475NE085
		VSR1	12	Rc 1/8	VSR160475BE126
		VSR1	12	NPT 1/8"	VSR160475NE125
12 Station		VSR1	16	Rc 1/8	VSR160475BE166
		VSR1	16	NPT 1/8"	VSR160475NE165
		VSR1	20	Rc 1/8	VSR160475BE206
		VSR1	20	NPT 1/8"	VSR160475NE205
		VSR1	24	Rc 1/8	VSR160475BE246
		VSR1	24	NPT 1/8"	VSR160475NE245
20 Station		VSR2	4	Rc 1/8	VSR260475BE048
		VSR2	4	NPT 1/8"	VSR260475NE047
		VSR2	8	Rc 1/8	VSR260475BE088
		VSR2	8	NPT 1/8"	VSR260475NE087
		VSR2	12	Rc 1/8	VSR260475BE128
		VSR2	12	NPT 1/8"	VSR260475NE127
8 Station		VSR1	16	Rc 1/8	VSR160475BE166
		VSR1	16	NPT 1/8"	VSR160475NE165
		VSR1	20	Rc 1/8	VSR160475BE206
		VSR1	20	NPT 1/8"	VSR160475NE205
		VSR1	24	Rc 1/8	VSR160475BE246
		VSR1	24	NPT 1/8"	VSR160475NE245
16 Station		VSR2	16	Rc 1/8	VSR260475BE168
		VSR2	16	NPT 1/8"	VSR260475NE167
		VSR2	20	Rc 1/8	VSR260475BE208
		VSR2	20	NPT 1/8"	VSR260475NE207
		VSR2	24	Rc 1/8	VSR260475BE248
		VSR2	24	NPT 1/8"	VSR260475NE248
24 Station					

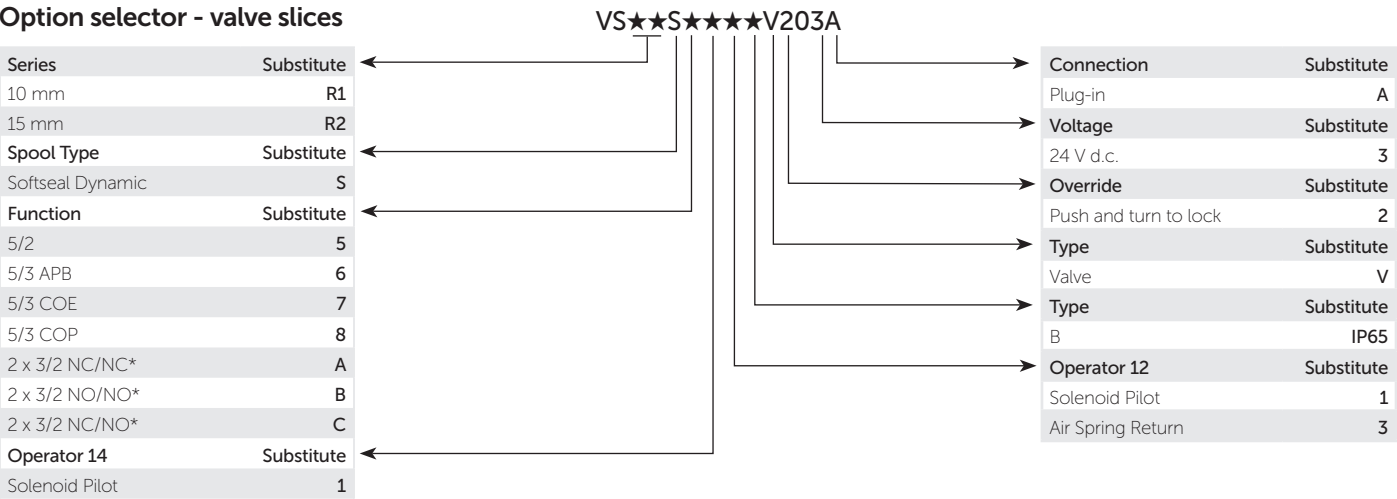
Interface Plates

	Series	Cover Location	Port Size (1/3/5)	Model
	VSR1 & 2	Left (Interface)	G 1/4	C2221-101
	VSR1 & 2	Left (Interface)	NPT 1/4"	C2221-301

ISEM Modules

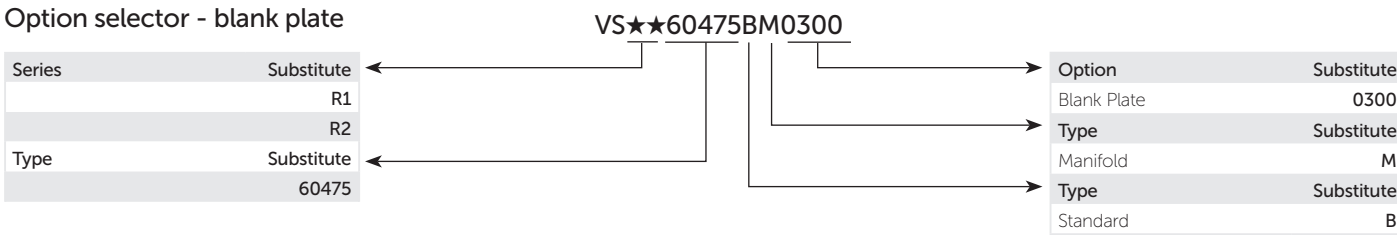
	Series	Cover Location	Port Size (1/3/5)	Model
	VSR1 & 2	External	G 1/4	C2221-102
	VSR1 & 2	External	NPT 1/4"	C2221-302

Option selector - valve slices

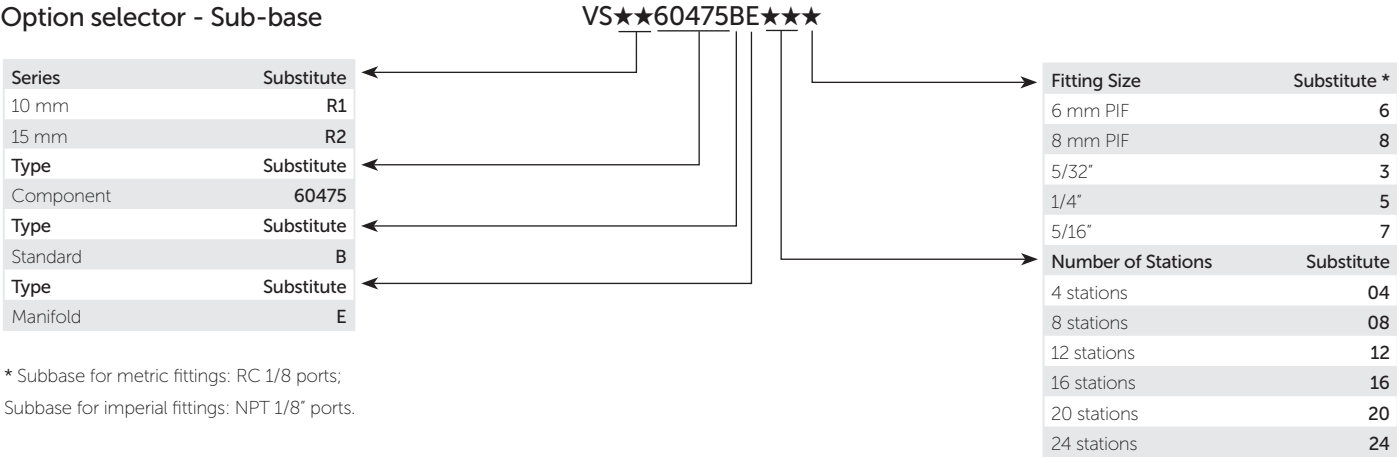


* Internal Pilot Only

Option selector - blank plate

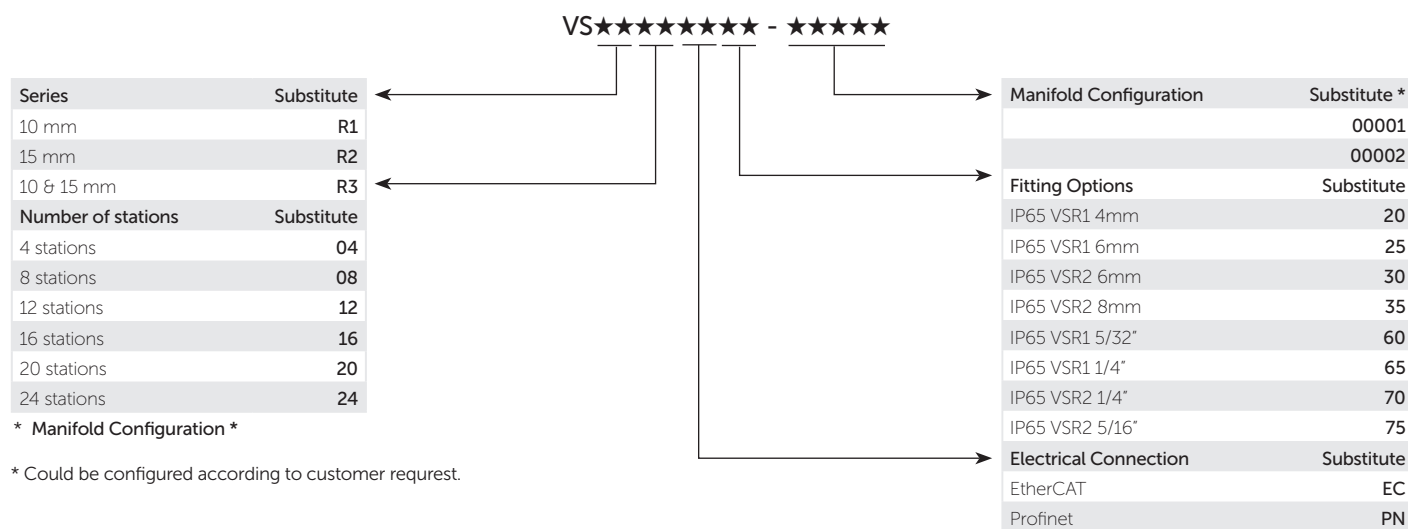


Option selector - Sub-base



* Subbase for metric fittings: RC 1/8 ports;
Subbase for imperial fittings: NPT 1/8" ports.

Part numbering for complete valve islands



Control Modules

PROFINET IRT



VSRX60475BM04PN

Weight: 0,223 kg

EtherCAT



VSRX60475BM04EC

Weight: 0,221 kg

Industrial Ethernet - Cable and Connectors

Bus cable: 4-pin D-coded M12 - M12



Model	Cable length (m)
NC-124MS-1244SGA	0,5
NC-124MS-1244SG2	2,0
NC-124MS-1244SG5	5,0

Bus cable: 4-pin D-coded M12 - flying lead



Model	Cable length (m)
NC-124MS-00000G2	2,0
NC-124MS-00000G5	5,0

Power cable: 5-pin A-coded M12 - flying lead



Model	Cable length (m)
NC-125FS-00000-5	5,0

Bus connector RJ45 Wireable



NC-RJ450-0000000

IO-Link - Cables

Cable 5-pin A-code M12 - M12



Model	Cable length (m)
NC-125FS-125MS-A	0,6
NC-125FS-125MS-1	1,0
NC-125FS-125MS-2	2,0
NC-125FS-125MS-5	5,0

Cable 5-pin A-code M12 - flying lead



Model	Cable length (m)
NC-125FS-00000-5	5,0

Accessories

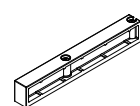
Pressure Zone Plug



Model

T10 pressure zone plug

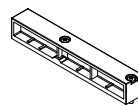
Blanking Plate 10 mm



Model

VSR160475BM0300

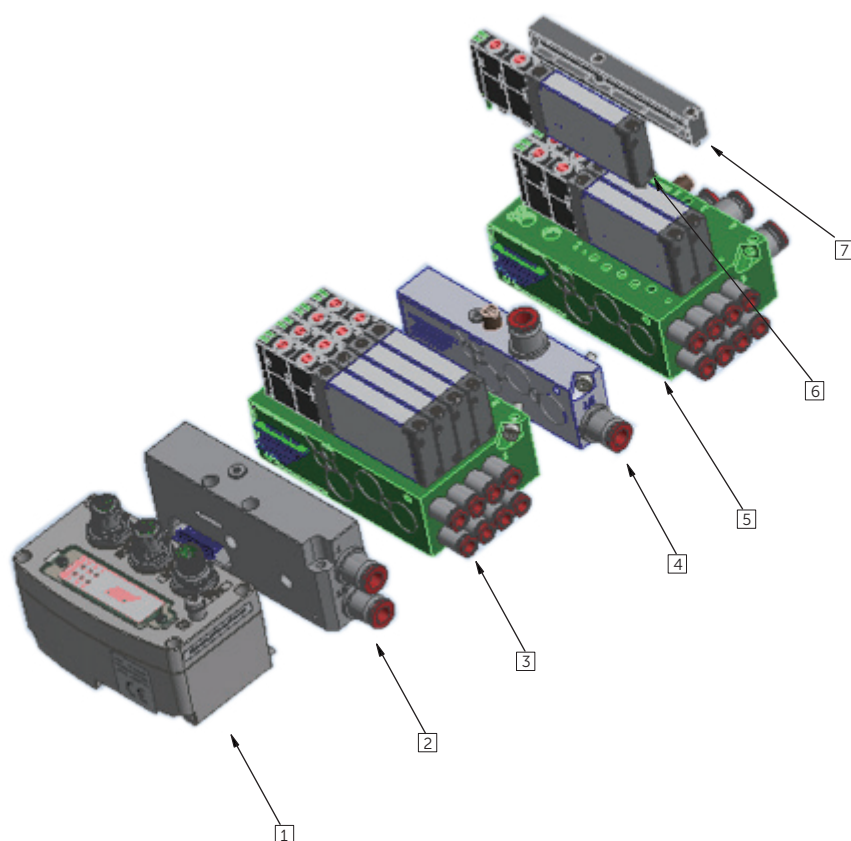
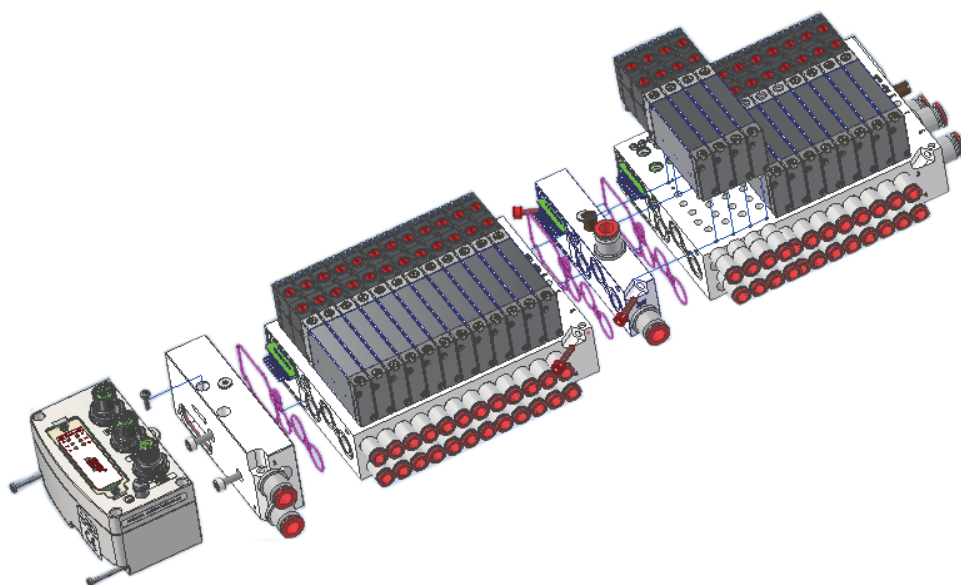
Blanking Plate 15 mm



Model

VSR260475BM0300

Exploded view (IP65)

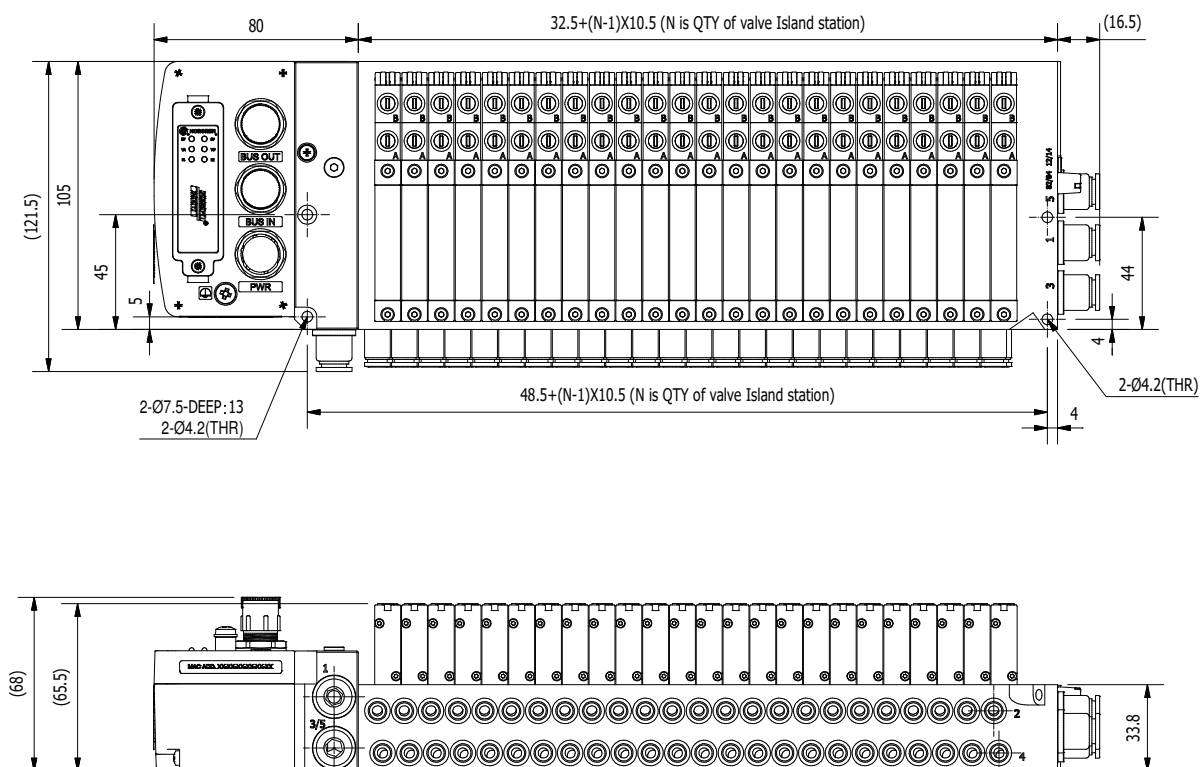


Number	Description
1	BUS MODULE
2	SUP/EX MODULE
3	SUB-BASE 1
4	ISEM PLATE
5	SUB-BASE 2
6	VALVE SLICE
7	BLANKING PLATE

VSR 10 mm Series

N stations for Single base

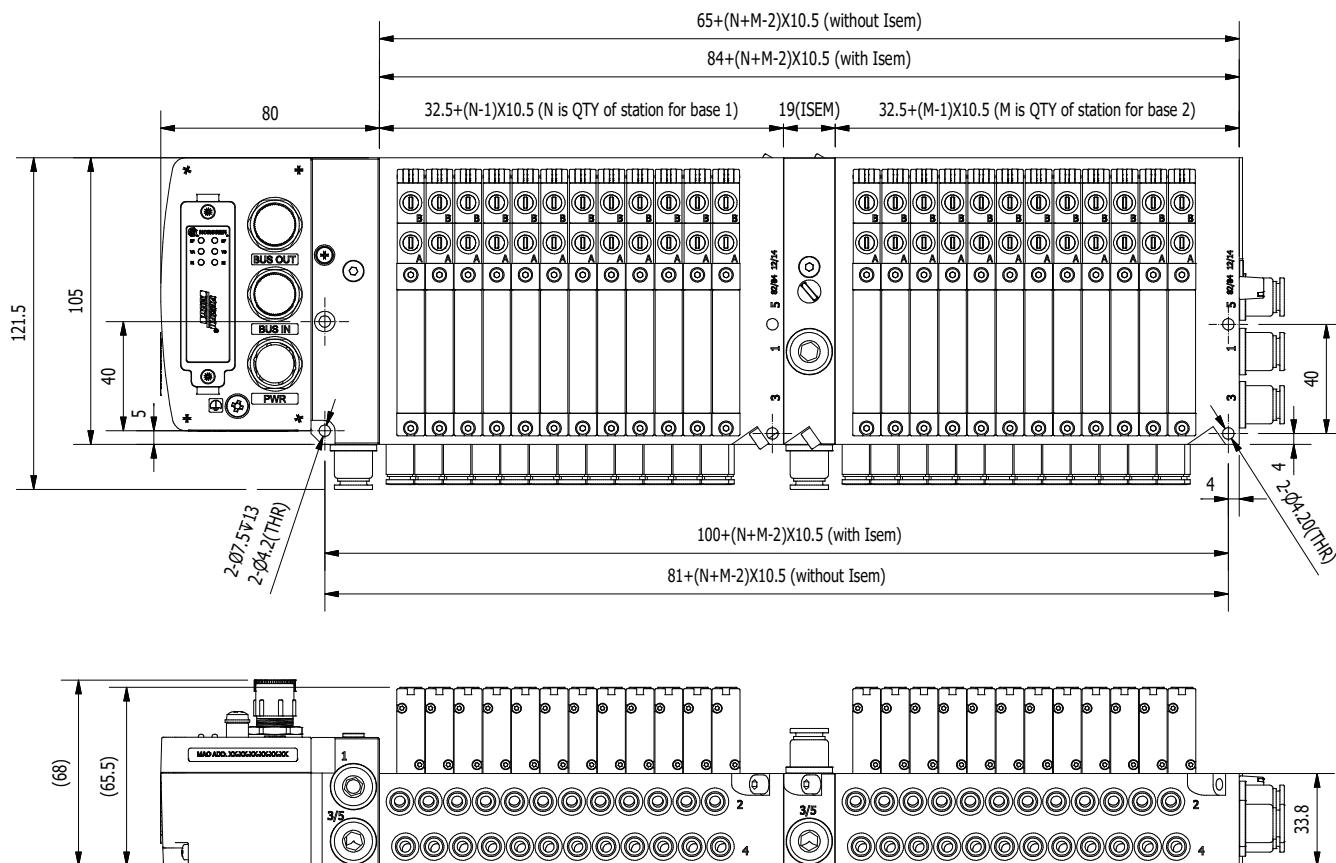
Dimensions in mm
Projection/Third angle

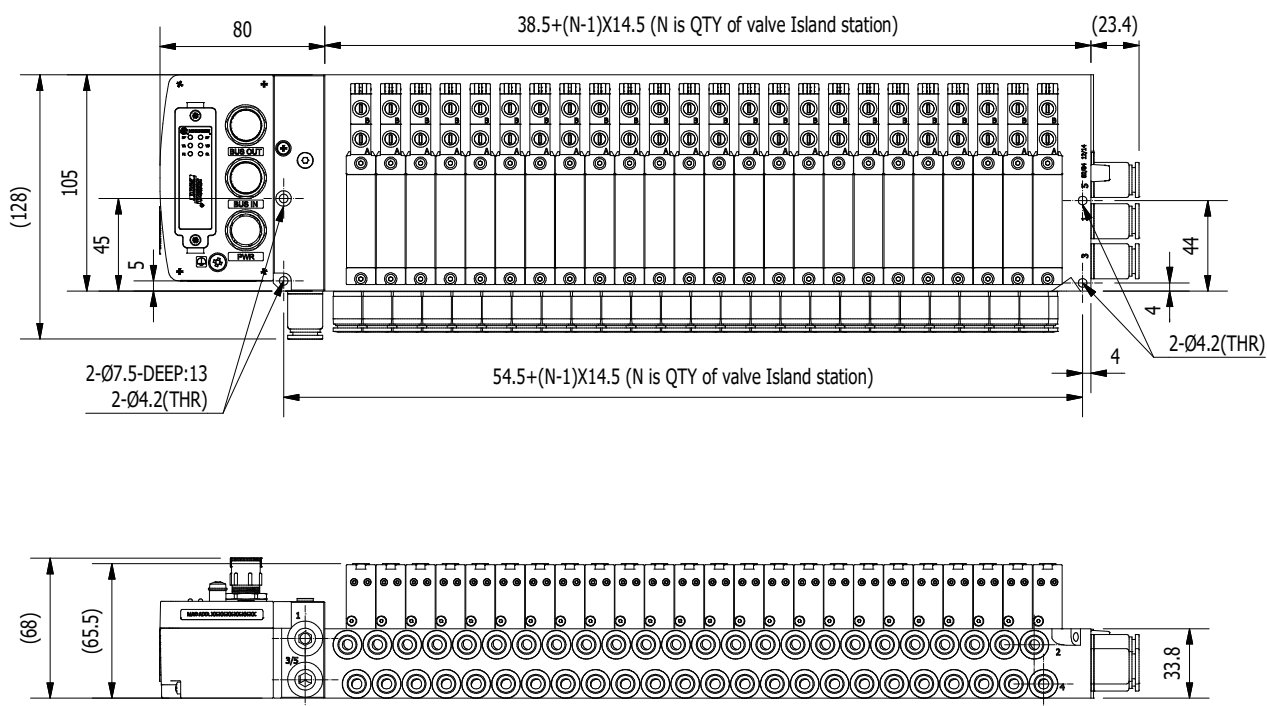


VSR 10 mm Series

N+M stations for two base (with Isem and without Isem)

Dimensions in mm
Projection/Third angle

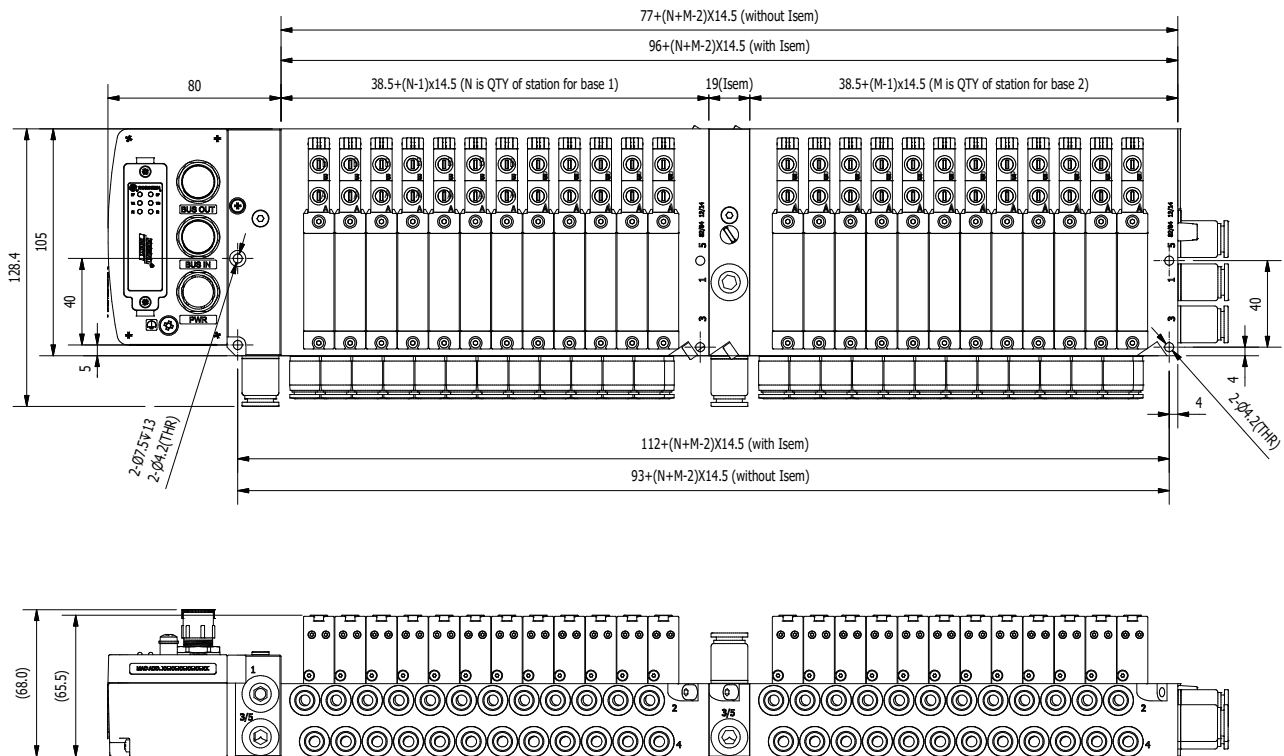
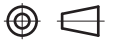




VSR 15 mm Series

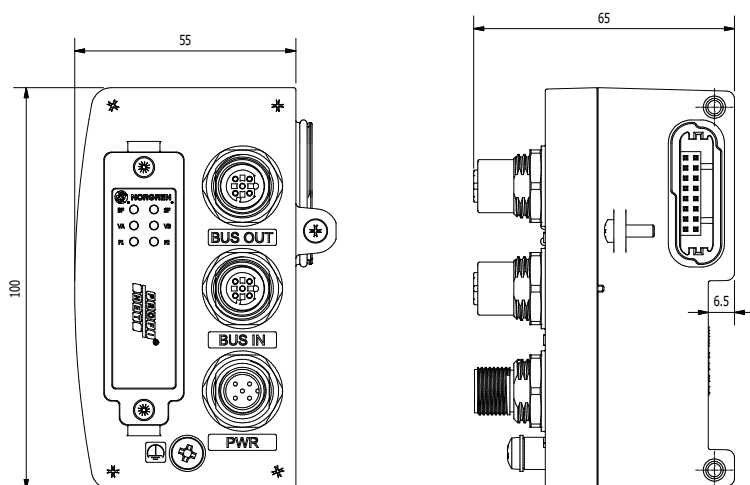
N+M stations for two base (with Isem and without Isem)

Dimensions in mm
Projection/Third angle



Control Modules (IP65 Version)

Industrial Ethernet Protocol: PROFINET IRT



PIN ALLOCATION OF PORT 1 BUS IN / PORT 2 BUS OUT



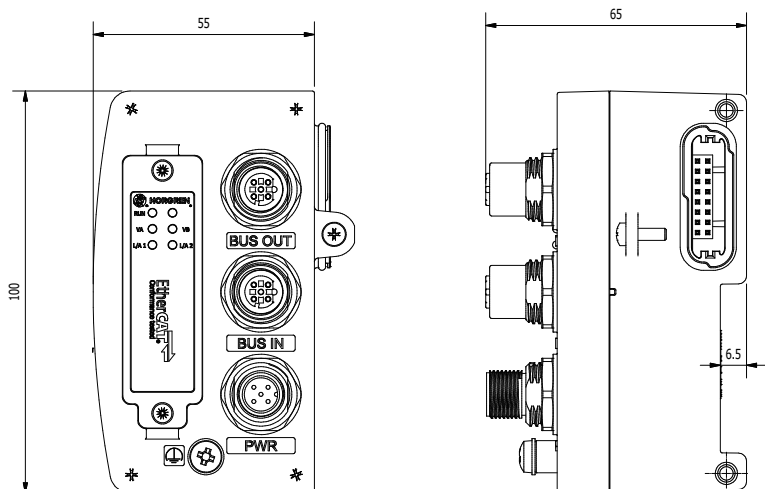
M12 / 4 PINS / FEMALE CONNECTOR / D-CODED	
PIN NO.	FUNCTION
1	TRANSMISSION DATA + (TD+)
2	RECEIVE DATA + (RD+)
3	TRANSMISSION DATA - (TD-)
4	RECEIVE DATA - (RD-)
EARTH SCREW	FE (FUNCTIONAL EARTH)

PIN ALLOCATION OF PWR



M12 / 5 PINS / MALE CONNECTOR / A-CODED	
PIN NO.	FUNCTION
1	L1 (VB+) 24V ELECTRONICS POWER SUPPLY
2	N2 (VA-) 0V VALVES POWER SUPPLY
3	N1 (VB-) 0V ELECTRONICS POWER SUPPLY
4	L2 (VA+) 24V VALVES POWER SUPPLY
5	FE (FUNCTIONAL EARTH)

Industrial Ethernet Protocol: EtherCAT



PIN ALLOCATION OF PORT 1 BUS IN / PORT 2 BUS OUT



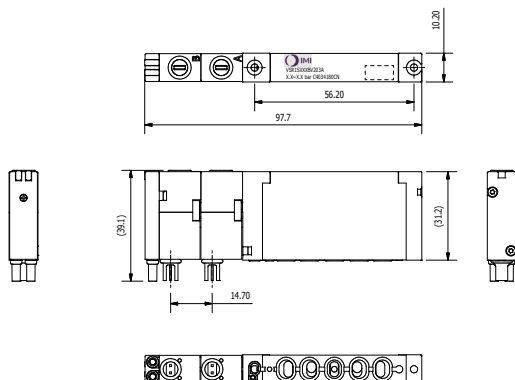
M12 / 4 PINS / FEMALE CONNECTOR / D-CODED	
PIN NO.	FUNCTION
1	TRANSMISSION DATA + (TD+)
2	RECEIVE DATA + (RD+)
3	TRANSMISSION DATA - (TD-)
4	RECEIVE DATA - (RD-)
EARTH SCREW	FE (FUNCTIONAL EARTH)

PIN ALLOCATION OF PWR

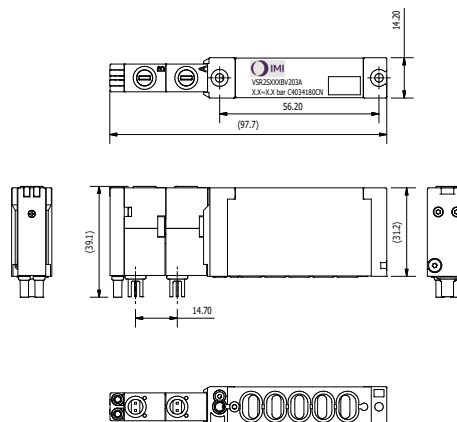


M12 / 5 PINS / MALE CONNECTOR / A-CODED	
PIN NO.	FUNCTION
1	L1 (VB+) 24V ELECTRONICS POWER SUPPLY
2	N2 (VA-) 0V VALVES POWER SUPPLY
3	N1 (VB-) 0V ELECTRONICS POWER SUPPLY
4	L2 (VA+) 24V VALVES POWER SUPPLY
5	FE (FUNCTIONAL EARTH)

VSR1 Series (Valve)



VSR2 Series (Valve)



Warning

These products are intended for use in industrial compressed air and fluid 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.

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.