

Plug-in Mini ISO Valves
2x2/2, 2x3/2, 5/2 and 5/3 valves
ISO 15407-2
Size 18 mm

Used in conjunction with SIEMENS ET200pro

Variable valve configuration from 2 to 16 stations
using double width sub-bases

Field expandable and maintenance friendly

Dual spool technology

VS18G Glandless spool and sleeve for long life

VS18S Softseal spool for high flow

Wide range of accessories



Technical data

Medium:

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

Operation:

VS18G: Glandless spool valve, solenoid pilot actuated

VS18S: Softseal spool valve, solenoid pilot actuated

Mounting:

Sub-base

Ports 2+4:

G1/8, NPTF 1/8, PIF 8 mm, PIF 6 mm, PIF 1/4

Operating pressure:

VS18S and VS18G: 10 bar max.

VS18G (external pilot pressure): 16 bar max.

Flow characteristics:

Series	Function	C	b	A	l/min	Cv	Kv
VS18G	5/2	2,30	0,20	8,83	550	0,56	0,48
VS18G	5/3	2,30	0,20	8,83	550	0,56	0,48
VS18S	2x2/2	2,30	0,20	8,82	550	0,56	0,46
VS18S	2x3/2	2,43	0,26	9,67	600	0,61	0,52
VS18S	5/2	2,58	0,29	10,51	650	0,66	0,57
VS18S	5/3	2,58	0,29	10,51	650	0,66	0,57

Ambient temperature:

-15°C ... +50°C

Medium temperature:

-5°C ... +50°C

(Consult our Technical Service for use below +2°C)

Materials:

Body/sub-base: die-cast aluminium

Glandless spool & sleeve (VS18G): aluminium, hard anodised, teflon coated

Softseal spool (VS18S): aluminium with HNBR seals

Plastic parts: POM, PA, PPA

Static seals: NBR

Mounting sheets/screws: steel, zinc coated

Springs: stainless steel

Sandwich plates: aluminium bar material, PA

Electrical contacts: brass, tin/gold coated

PCB: glass epoxy

Electrical parameters

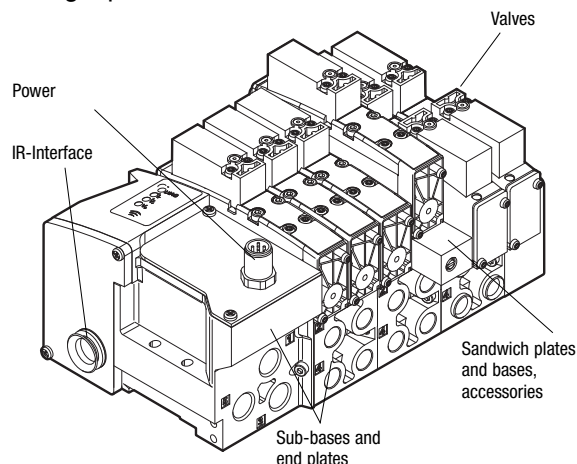
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Ordering information

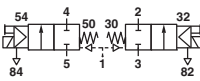
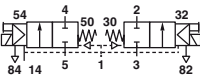
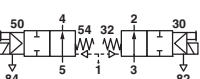
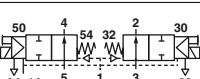
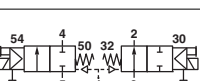
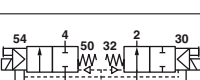
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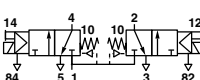
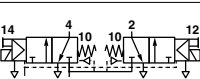
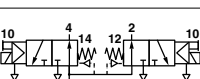
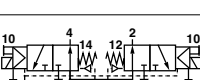
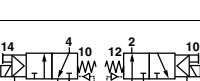
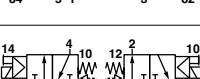
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Sandwich plates	9, 10, 11
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2x2/2, Double solenoid actuated softseal valves (flow 500 l/min)

Symbol	Model	Function 2x2/2	Actuation/ return	Pilot supply	Pilot pressure (bar)	Operating- pressure (bar)	Manual override	Voltage	Short code
	VS18SE11DF313A	NC	Sol/Spring	Internal	2,5...10 *1)	-0,9...10	Push only	24 V d.c. 1,2 W	STU
	VS18SE11DF213A	NC	Sol/Spring	Internal	2,5...10 *1)	-0,9...10	Push & turn	24 V d.c. 1,2 W	STT
	VS18SE11DF513A	NC	Sol/Spring	Internal	2,5...10 *1)	-0,9...10	Extended, push only	24 V d.c. 1,2 W	STE
	VS18SE22DF313A	NC	Sol/Spring	External	1,7 + (0,35 x pressure) *1), *2)	-0,9...10	Push only	24 V d.c. 1,2 W	SWU
	VS18SE22DF213A	NC	Sol/Spring	External	1,7 + (0,35 x pressure) *1), *2)	-0,9...10	Push & turn	24 V d.c. 1,2 W	SWT
	VS18SE22DF513A	NC	Sol/Spring	External	1,7 + (0,35 x pressure) *1), *2)	-0,9...10	Extended, push only	24 V d.c. 1,2 W	SWE
	VS18SF11DF313A	NO	Sol/Spring	Internal	2,5...10 *1)	-0,9...10	Push only	24 V d.c. 1,2 W	SUU
	VS18SF11DF213A	NO	Sol/Spring	Internal	2,5...10 *1)	-0,9...10	Push & turn	24 V d.c. 1,2 W	SUT
	VS18SF11DF513A	NO	Sol/Spring	Internal	2,5...10 *1)	-0,9...10	Extended, push only	24 V d.c. 1,2 W	SUE
	VS18SF22DF313A	NO	Sol/Spring	External	1,7 + (0,35 x pressure) *1), *2)	-0,9...10	Push only	24 V d.c. 1,2 W	SXU
	VS18SF22DF213A	NO	Sol/Spring	External	1,7 + (0,35 x pressure) *1), *2)	-0,9...10	Push & turn	24 V d.c. 1,2 W	SXT
	VS18SF22DF513A	NO	Sol/Spring	External	1,7 + (0,35 x pressure) *1), *2)	-0,9...10	Extended, push only	24 V d.c. 1,2 W	SXE
	VS18SG11DF313A	NO/NC	Sol/Spring	Internal	2,5...10 *1)	-0,9...10	Push only	24 V d.c. 1,2 W	SVU
	VS18SG11DF213A	NO/NC	Sol/Spring	Internal	2,5...10 *1)	-0,9...10	Push & turn	24 V d.c. 1,2 W	SVT
	VS18SG11DF513A	NO/NC	Sol/Spring	Internal	2,5...10 *1)	-0,9...10	Extended, push only	24 V d.c. 1,2 W	SVE
	VS18SG22DF313A	NO/NC	Sol/Spring	External	1,7 + (0,35 x pressure) *1), *2)	-0,9...10	Push only	24 V d.c. 1,2 W	SYU
	VS18SG22DF213A	NO/NC	Sol/Spring	External	1,7 + (0,35 x pressure) *1), *2)	-0,9...10	Push & turn	24 V d.c. 1,2 W	SYT
	VS18SG22DF513A	NO/NC	Sol/Spring	External	1,7 + (0,35 x pressure) *1), *2)	-0,9...10	Extended, push only	24 V d.c. 1,2 W	SYE

2x3/2 Double solenoid actuated softseal valves (flow 600 l/min)

Symbol	Model	Function 2x3/2	Actuation/ return	Pilot supply	Pilot pressure (bar)	Operating pressure (bar)	Manual Override	Voltage	Short code
	VS18SA11DF313A	NC	Sol/Spring	Internal	-	2,5...10	Push only	24 V d.c. 1,2 W	SAU
	VS18SA11DF213A	NC	Sol/Spring	Internal	-	2,5...10	Push & turn	24 V d.c. 1,2 W	SAT
	VS18SA11DF513A	NC	Sol/Spring	Internal	-	2,5...10	Extended, push only	24 V d.c. 1,2 W	SAE
	VS18SA22DF313A	NC	Sol/Spring	External	1,7 + (0,5 x op. pressure)	0...10	Push only	24 V d.c. 1,2 W	SDU
	VS18SA22DF213A	NC	Sol/Spring	External	1,7 + (0,5 x op. pressure)	0...10	Push & turn	24 V d.c. 1,2 W	SDT
	VS18SA22DF513A	NC	Sol/Spring	External	1,7 + (0,5 x op. pressure)	0...10	Extended, push only	24 V d.c. 1,2 W	SDE
	VS18SB11DF313A	NO	Sol/Spring	Internal	-	2,5...10	Push only	24 V d.c. 1,2 W	SBU
	VS18SB11DF213A	NO	Sol/Spring	Internal	-	2,5...10	Push & turn	24 V d.c. 1,2 W	SBT
	VS18SB11DF513A	NO	Sol/Spring	Internal	-	2,5...10	Extended, push only	24 V d.c. 1,2 W	SBE
	VS18SB22DF313A	NO	Sol/Spring	External	1,7 + (0,5 x op. pressure)	0...10	Push only	24 V d.c. 1,2 W	SEU
	VS18SB22DF213A	NO	Sol/Spring	External	1,7 + (0,5 x op. pressure)	0...10	Push & turn	24 V d.c. 1,2 W	SET
	VS18SB22DF513A	NO	Sol/Spring	External	1,7 + (0,5 x op. pressure)	0...10	Extended, push only	24 V d.c. 1,2 W	SEE
	VS18SC11DF313A	NO/NC	Sol/Spring	Internal	-	2,5...10	Push only	24 V d.c. 1,2 W	SCU
	VS18SC11DF213A	NO/NC	Sol/Spring	Internal	-	2,5...10	Push & turn	24 V d.c. 1,2 W	SCT
	VS18SC11DF513A	NO/NC	Sol/Spring	Internal	-	2,5...10	Extended, push only	24 V d.c. 1,2 W	SCE
	VS18SC22DF313A	NO/NC	Sol/Spring	External	1,7 + (0,5 x op. pressure)	0...10	Push only	24 V d.c. 1,2 W	SFU
	VS18SC22DF213A	NO/NC	Sol/Spring	External	1,7 + (0,5 x op. pressure)	0...10	Push & turn	24 V d.c. 1,2 W	SFT
	VS18SC22DF513A	NO/NC	Sol/Spring	External	1,7 + (0,5 x op. pressure)	0...10	Extended, push only	24 V d.c. 1,2 W	SFE

Valve dimensions see page 6

Valve functions designations:
NO = Normally open, NC = Normally closed

*1) Pressure supply through port 1

*2) Pilot air supply through port 12/14

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.

5/2 Solenoid actuated glandless valves (flow = 550 l/min)

Symbol	Model	Actuation/ return	Pilot supply	Pilot pressure (bar)	Operating pressure (bar)	Manual override	Voltage	Short code
	VS18G511DF313A	Sol/Sol	Internal	–	2...10	Push only	24 V d.c. 1,2 W	GJU
	VS18G511DF213A	Sol/Sol	Internal	–	2...10	Push & turn	24 V d.c. 1,2 W	GJT
	VS18G511DF513A	Sol/Sol	Internal	–	2...10	Extended, push only	24 V d.c. 1,2 W	GJE
	VS18G522DF313A	Sol/Sol	External	2...10	-0,9...16	Push only	24 V d.c. 1,2 W	GPU
	VS18G522DF213A	Sol/Sol	External	2...10	-0,9...16	Push & turn	24 V d.c. 1,2 W	GKT
	VS18G522DF513A	Sol/Sol	External	2...10	-0,9...16	Extended, push only	24 V d.c. 1,2 W	GKE
	VS18G591DF313A	Sol (Priority)/Sol	Internal	–	2...10	Push only	24 V d.c. 1,2 W	GSU
	VS18G591DF213A	Sol (Priority)/Sol	Internal	–	2...10	Push & turn	24 V d.c. 1,2 W	GST
	VS18G591DF513A	Sol (Priority)/Sol	Internal	–	2...10	Extended, push only	24 V d.c. 1,2 W	GSE
	VS18G592DF313A	Sol (Priority)/Sol	External	2...10	-0,9...16	Push only	24 V d.c. 1,2 W	GTU
	VS18G592DF213A	Sol (Priority)/Sol	External	2...10	-0,9...16	Push & turn	24 V d.c. 1,2 W	GTT
	VS18G592DF513A	Sol (Priority)/Sol	External	2...10	-0,9...16	Extended, push only	24 V d.c. 1,2 W	GTE
	VS18G517DF313A	Sol/Spring	Internal	–	1,6...10	Push only	24 V d.c. 1,2 W	GGU
	VS18G517DF213A	Sol/Spring	Internal	–	1,6...10	Push & turn	24 V d.c. 1,2 W	GGT
	VS18G517DF513A	Sol/Spring	Internal	–	1,6...10	Extended, push only	24 V d.c. 1,2 W	GGE
	VS18G527DF313A	Sol/Spring	External	1,6...10	-0,9...16	Push only	24 V d.c. 1,2 W	GHU
	VS18G527DF213A	Sol/Spring	External	1,6...10	-0,9...16	Push & turn	24 V d.c. 1,2 W	GHT
	VS18G527DF513A	Sol/Spring	External	1,6...10	-0,9...16	Extended, push only	24 V d.c. 1,2 W	GHE

5/2 Solenoid actuated softseal valves (flow 650 l/min)

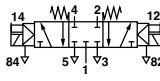
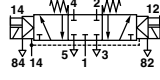
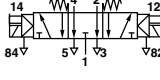
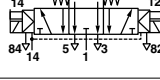
Symbol	Model	Actuation/ return	Pilot supply	Pilot pressure (bar)	Operating pressure (bar)	Manual override	Voltage	Short code
	VS18S511DF313A	Sol/Sol	Internal	–	2...10	Push only	24 V d.c. 1,2 W	SJU
	VS18S511DF213A	Sol/Sol	Internal	–	2...10	Push & turn	24 V d.c. 1,2 W	SJT
	VS18S511DF513A	Sol/Sol	Internal	–	2...10	Extended, push only	24 V d.c. 1,2 W	SJE
	VS18S522DF313A	Sol/Sol	External	2...10	-0,9...10	Push only	24 V d.c. 1,2 W	SKU
	VS18S522DF213A	Sol/Sol	External	2...10	-0,9...10	Push & turn	24 V d.c. 1,2 W	SKT
	VS18S522DF513A	Sol/Sol	External	2...10	-0,9...10	Extended, push only	24 V d.c. 1,2 W	SKE
	VS18S517DF313A	Sol/Spring	Internal	–	2...10	Push only	24 V d.c. 1,2 W	SGU
	VS18S517DF213A	Sol/Spring	Internal	–	2...10	Push & turn	24 V d.c. 1,2 W	SGT
	VS18S517DF513A	Sol/Spring	Internal	–	2...10	Extended, push only	24 V d.c. 1,2 W	SGE
	VS18S527DF313A	Sol/Spring	External	2...10	-0,9...10	Push only	24 V d.c. 1,2 W	SHU
	VS18S527DF213A	Sol/Spring	External	2...10	-0,9...10	Push & turn	24 V d.c. 1,2 W	SHT
	VS18S527DF513A	Sol/Spring	External	2...10	-0,9...10	Extended, push only	24 V d.c. 1,2 W	SHE

5/3 Double solenoid actuated glandless valves (flow 550 l/min)

Symbol	Model	Function 5/3	Actuation/ return	Pilot supply	Pilot pressure (bar)	Operating pressure (bar)	Manual override	Voltage	Short code
	VS18G611DF313A	APB	Sol/Sol	Internal	–	2...10	Push only	24 V d.c. 1,2 W	GLU
	VS18G611DF213A	APB	Sol/Sol	Internal	–	2...10	Push & turn	24 V d.c. 1,2 W	GLT
	VS18G611DF513A	APB	Sol/Sol	Internal	–	2...10	Extended, push only	24 V d.c. 1,2 W	GLE
	VS18G622DF313A	APB	Sol/Sol	External	2...10	-0,9...16	Push only	24 V d.c. 1,2 W	GMU
	VS18G622DF213A	APB	Sol/Sol	External	2...10	-0,9...16	Push & turn	24 V d.c. 1,2 W	GMT
	VS18G622DF513A	APB	Sol/Sol	External	2...10	-0,9...16	Extended, push only	24 V d.c. 1,2 W	GME
	VS18G711DF313A	COE	Sol/Sol	Internal	–	2...10	Push only	24 V d.c. 1,2 W	GQU
	VS18G711DF213A	COE	Sol/Sol	Internal	–	2...10	Push & turn	24 V d.c. 1,2 W	GQT
	VS18G711DF513A	COE	Sol/Sol	Internal	–	2...10	Extended, push only	24 V d.c. 1,2 W	GQE
	VS18G722DF313A	COE	Sol/Sol	External	2...10	-0,9...16	Push only	24 V d.c. 1,2 W	GRU
	VS18G722DF213A	COE	Sol/Sol	External	2...10	-0,9...16	Push & turn	24 V d.c. 1,2 W	GRT
	VS18G722DF513A	COE	Sol/Sol	External	2...10	-0,9...16	Extended, push only	24 V d.c. 1,2 W	GRE

Valve dimensions see page 6, Valve functions designations: APB = All ports blocked; COE = Centre open exhaust

5/3 Double solenoid actuated softseal valves (flow 650 l/min)

Symbol	Model	Function 5/3	Actuation/return	Pilot-supply	Pilot pressure (bar)	Operating pressure (bar)	Manual override	Voltage	Short code
	VS18S611DF313A	APB	Sol/Sol	Internal	–	2...10	Push only	24 V d.c. 1,2 W	SLU
	VS18S611DF213A	APB	Sol/Sol	Internal	–	2...10	Push & turn	24 V d.c. 1,2 W	SLT
	VS18S611DF513A	APB	Sol/Sol	Internal	–	2...10	Extended, push only	24 V d.c. 1,2 W	SLE
	VS18S622DF313A	APB	Sol/Sol	External	2...10	-0,9...10	Push only	24 V d.c. 1,2 W	SMU
	VS18S622DF213A	APB	Sol/Sol	External	2...10	-0,9...10	Push & turn	24 V c.c. 1,2 W	SMT
	VS18S622DF513A	APB	Sol/Sol	External	2...10	-0,9...10	Extended, push only	24 V d.c. 1,2 W	SME
	VS18S711DF313A	COE	Sol/Sol	Internal	–	2,5...10	Push only	24 V d.c. 1,2 W	SQU
	VS18S711DF213A	COE	Sol/Sol	Internal	–	2,5...10	Push & turn	24 V d.c. 1,2 W	SQT
	VS18S711DF513A	COE	Sol/Sol	Internal	–	2,5...10	Extended, push only	24 V d.c. 1,2 W	SQE
	VS18S722DF313A	COE	Sol/Sol	External	2,5...10	-0,9...10	Push only	24 V d.c. 1,2 W	SRU
	VS18S722DF213A	COE	Sol/Sol	External	2,5...10	-0,9...10	Push & turn	24 V d.c. 1,2 W	SRT
	VS18S722DF513A	COE	Sol/Sol	External	2,5...10	-0,9...10	Extended, push only	24 V d.c. 1,2 W	SRE

Valve dimensions see page 6

Valve functions designations:

APB = All ports blocked; COE = Centre open exhaust

Options selector

VS18★★★★DF★13A

Spool technology	Substitute	Manual override *3)	Substitute
Glandless spool & sleeve	G	Push & turn	2
Softseal spool	S	Push only	3
		Extended, push only	5
Valve function	Substitute	Actuation/Pilot supply	Substitute
2x3/2 way valve, normally closed *1)	A	Solenoid/Spring	
2x3/2 way valve, normally open *1)	B	Internal pilot supply	17
2x3/2 way valve, normally open/Normally closed *1)	C	Solenoid/Spring	
2x2/2 way valve, normally closed *1)	E	External pilot supply	27
2x2/2 way valve, normally open *1)	F	Solenoid/Solenoid	
2x2/2 way valve, normally open/normally closed *1)	G	Internal pilot supply	11
5/2 way valve	5	Solenoid/Solenoid	
5/3 All ports blocked (APB)	6	External pilot supply	22
5/3 Centre open exhaust (COE)	7	Solenoid priority side 14/Solenoid (5/2 only)	
5/3 Centre open pressure (COP)	B	Internal pilot supply *2)	91
		Solenoid priority side 14/Solenoid (5/2 only)	
		External pilot supply *2)	92

*1) Available with softseal spool only (VS18S).

*2) Available with glandless spool & sleeve only (VS18G).

*3) Option "without manual override" available on request.

Electrical details for solenoid operators

Voltage tolerances	(24 V DC) +/- 10%
Rating	100 % ED
Inlet orifice	0,8 mm
Indication	LED green
Surge suppression	Transil Diode
Protection class	IP 65
Materials	PPS (body), Viton & NBR (seal)

Electromagnetic compatibility (EMV):

EU-conforming to 89/336/EWG (CE - logo)

All VS18 V d.c. products are designed to be used with a protective extra low voltage (PELV) power supply.

Accessories

Blanking disk kit for modular sub-base



VS1872405-KF00 (Ports 1, 3, 5)
VS1872406-KF00 (Port 12/14)

Manual override set-up kit



VS2672906-KG00

Spare valve identification labels *1)



VS2672905-KG00 (10 pcs)

Blanking plug for base connector hole *2)



VS2672914-KG00

*1) When purchasing assembled valve islands from Norgren, valve identification labels are already included.

*2) When V40/V41 valves are fitted on VS18 bases.

Base accessories

Intermediate supply/exhaust manifold



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VS1872402-AF00 (G1/8)

VS1872402-PF00 (NPTF1/8)

Blanking plate



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VS1872404-KF00

Interface module



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0252420

Sandwich plates

Single pressure regulator plate



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VS1872400-KF10 (port 1)

VS1872400-KF20 (port 2)

VS1872400-KF30 (port 4)

Double pressure regulator plate



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VS1872400-KF40 (ports 2+4)

Flow regulator plate



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VS1872401-KF00 (ports 3+5)

Sandwich plate with additional pressure port 1



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VS1872428-KF00 (G1/8)

VS1872429-KF00 (NPTF1/8)

Single valve shut-off plate



Page 11

VS1872403-KF00 (port 1)

End plates, direct mounting SIEMENS ET200pro

End plate kit



Mounting kit for profile rail



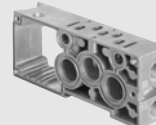
Page 7 for dimensions. Page 15 for ordering information.

Modular sub-base

Double station modular sub-base



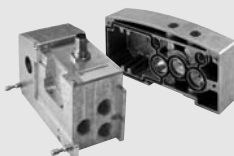
Single station modular sub-base



Page 7 & 8 for dimensions. Page 15 & 16 for ordering information.

End plates for modular block

End plate kit for modular block



Modular block

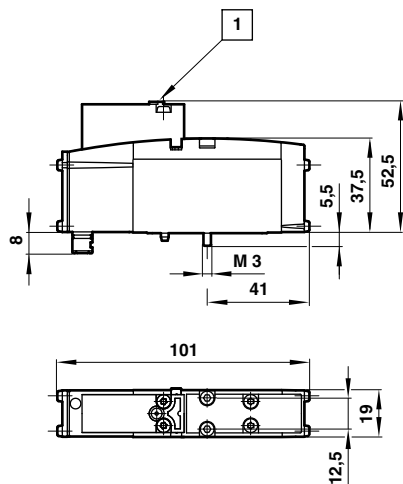


Page 8 for dimensions. Page 16 for ordering information.

Valve dimensions

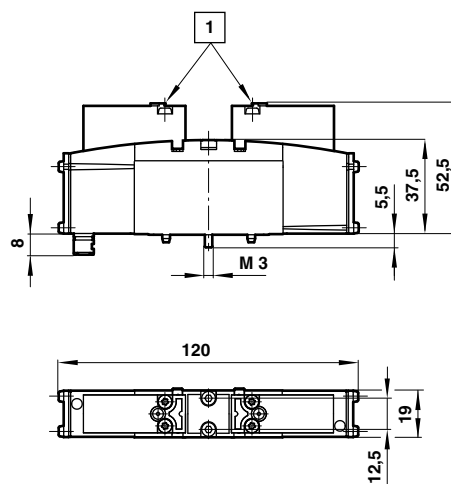
VS18*5*7DF*1*A models

5/2 Single solenoid pilot valve
Mechanical spring return



VS18****DF*1*A models

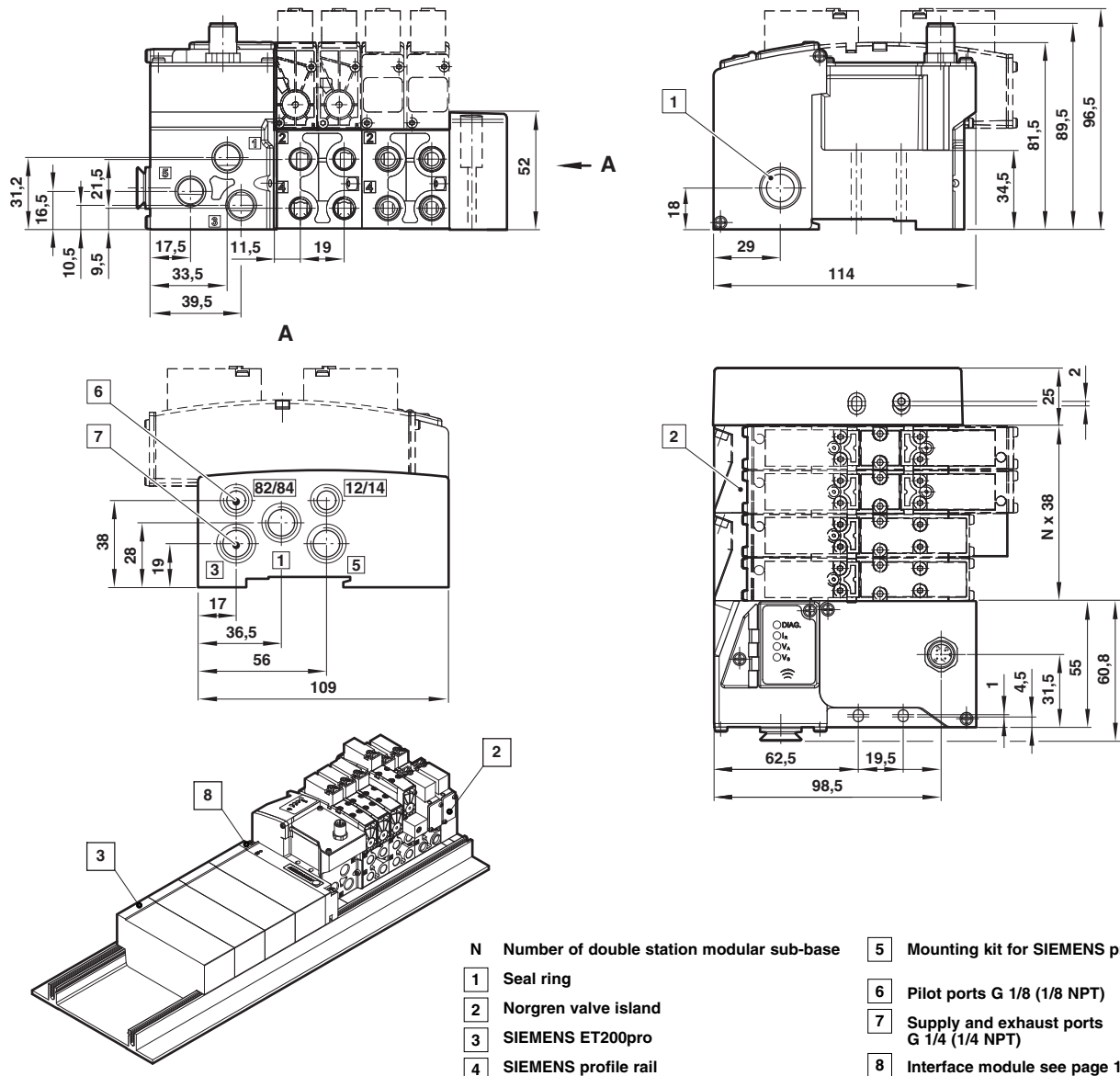
2x2/2, 2x3/2, 5/2 and 5/3 Double solenoid pilot valve



1 Manual override

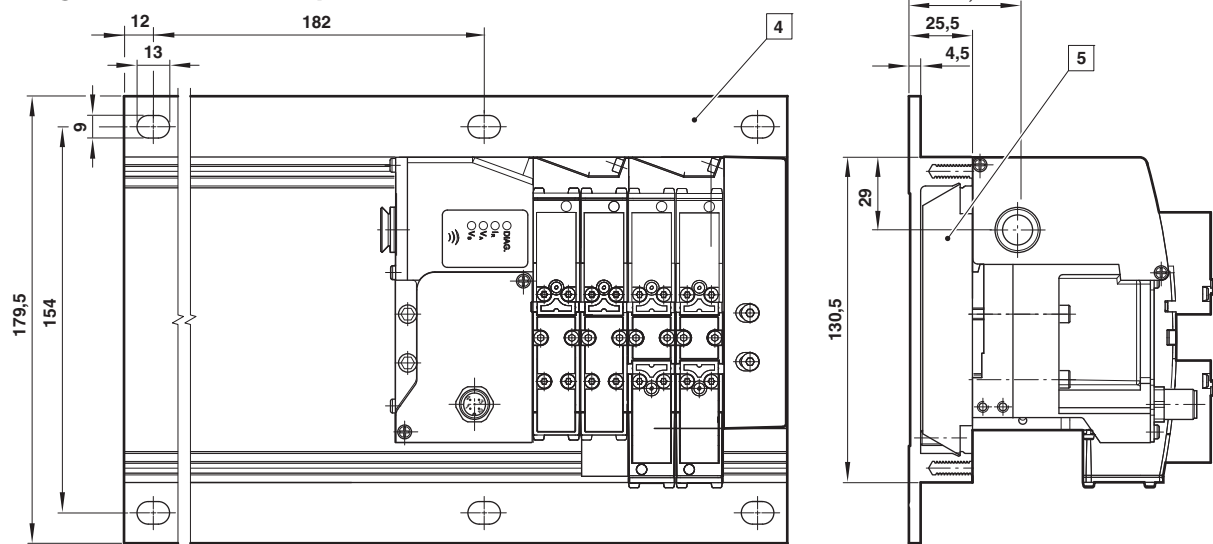
Valve island modular with SIEMENS ET200pro interface for profile rail

For ordering information port sizes of modular sub-bases and end plates see page 15



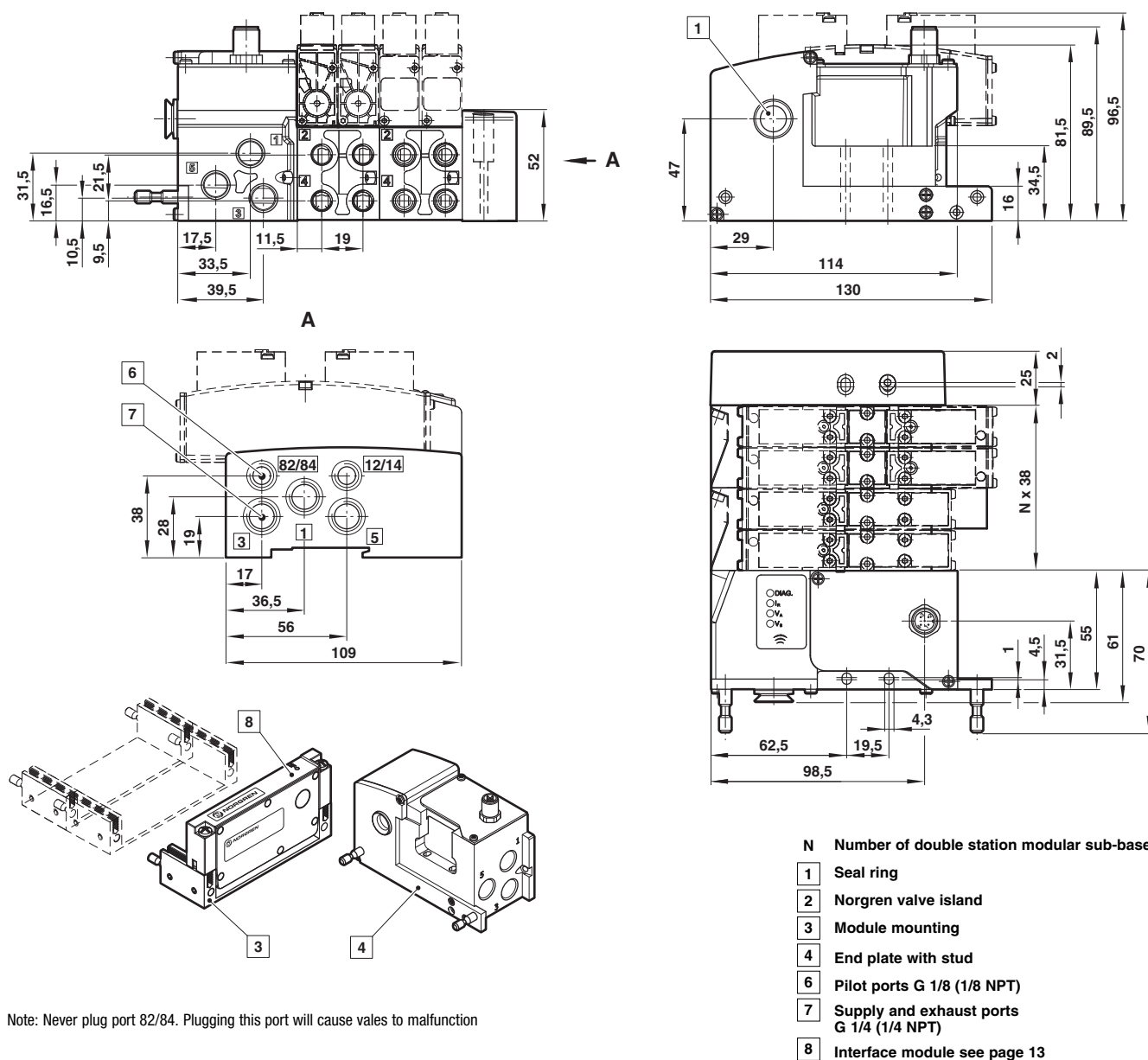
Note: Never plug port 82/84. Plugging this port will cause valves to malfunction

Mounting kit for SIEMENS profile rail Model: VSP150128



Valve island modular with SIEMENS ET200pro interface for module mounting

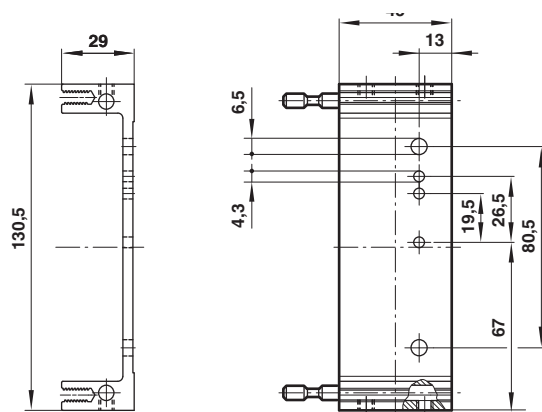
For ordering information port sizes of modular sub-bases and end plates see page 16



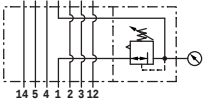
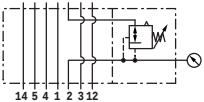
Note: Never plug port 82/84. Plugging this port will cause valves to malfunction

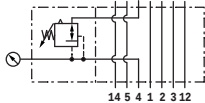
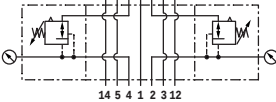
Mounting module for SIEMENS components

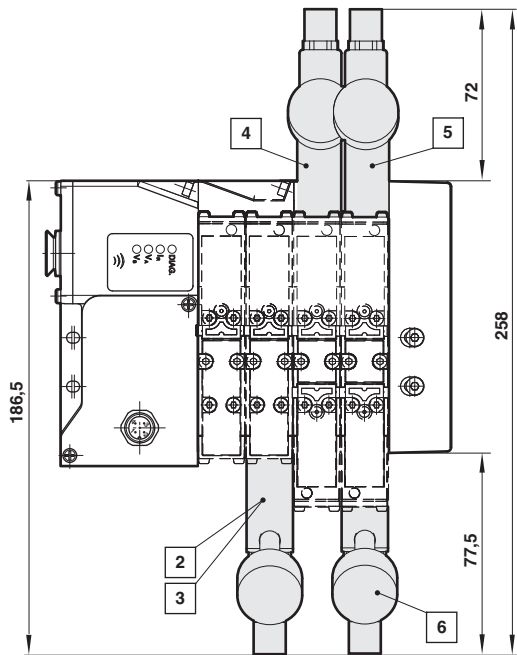
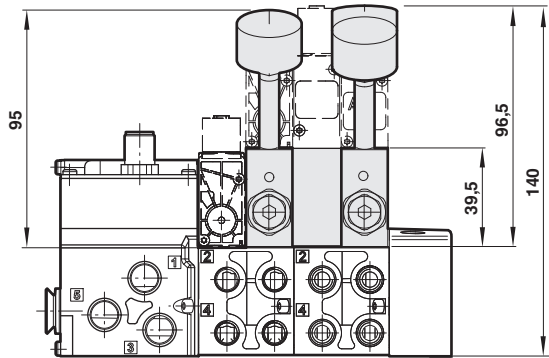
Model: VS267294-KG00



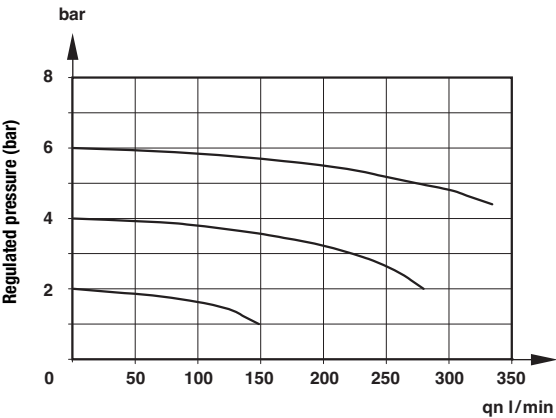
Sandwich plates
Pressure regulator sandwich plates

Symbol	Model	Description
	VS1872400-KF10	Regulation of port 1
	VS1872400-KF20	Regulation of port 2

Symbol	Model	Description
	VS1872400-KF30	Regulation of port 4
	VS1872400-KF40	Regulation of port 2+4



Flow characteristics for pressure regulator plates

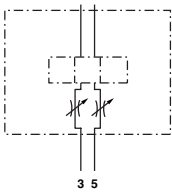


- 2 Regulation of port 1
- 3 Regulation of port 2
- 4 Regulation of port 4
- 5 Regulation of port 2+4
- 6 Gauge

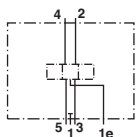
Spare part number for gauge = V70534-500

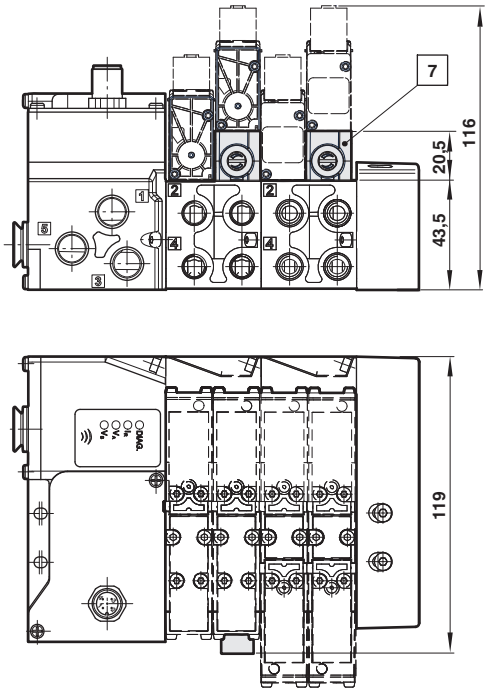
Sandwich plates

Flow regulator sandwich plate

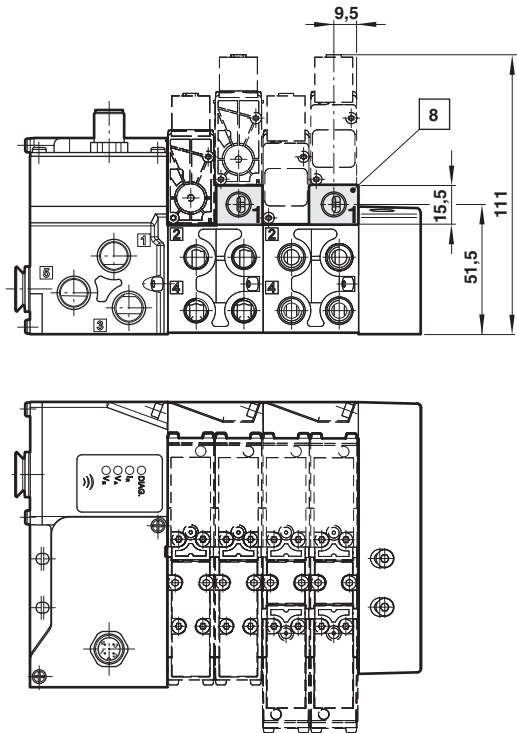
Symbol	Typ	Description
	VS1872401-KF00	Flow regulator supplied with gasket, dual regulation of exhaust ports 3 and 5

Sandwich plate with additional pressure port 1

Symbol	Model	Description
	VS1872428-KF00	Sandwich plate with additional pressure port 1 (G1/8), supplied with gasket
	VS1872429-KF00	Sandwich plate with additional pressure port 1 (NPTF1/8), supplied with gasket



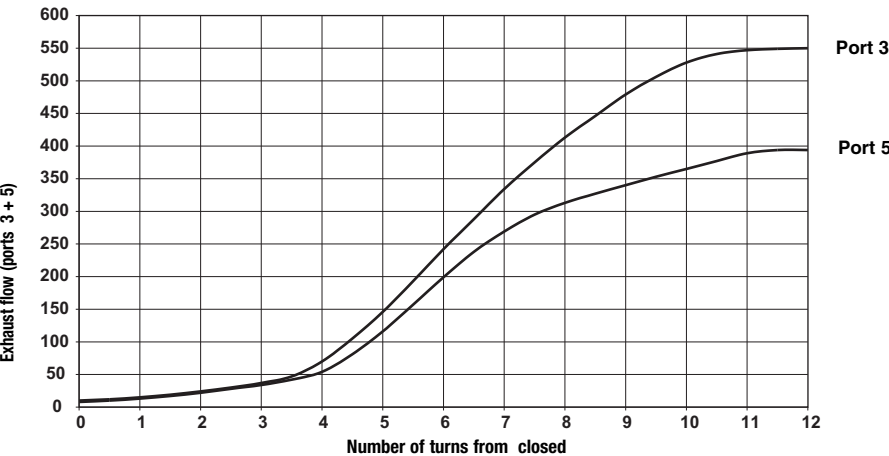
7 Flow regulator plate



8 Sandwich plate with additional pressure port 1

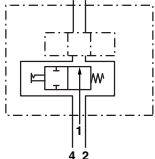
Flow characteristics

Dual regulation of exhaust ports 3 and 5



Flow port 1 & 2 and 1 & 4 remains unchanged.
Flow measured at 6 bar inlet, pressure drop 1 bar

Sandwich plates
Single valve shut-off plate

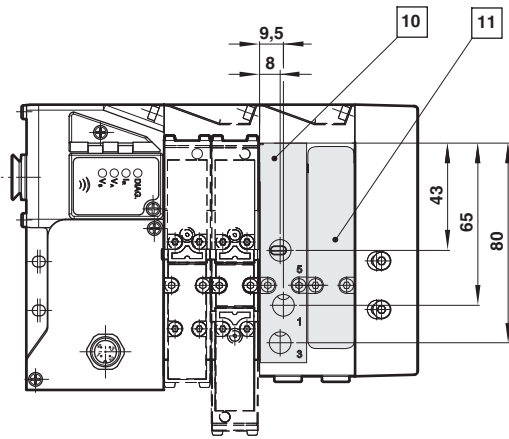
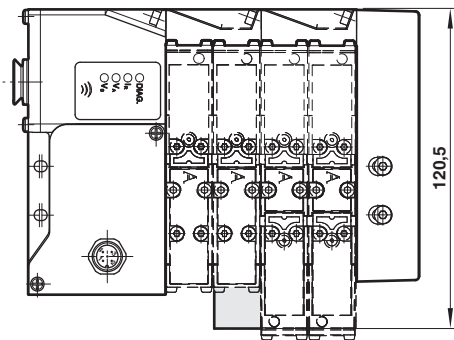
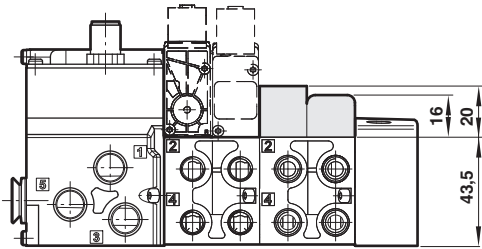
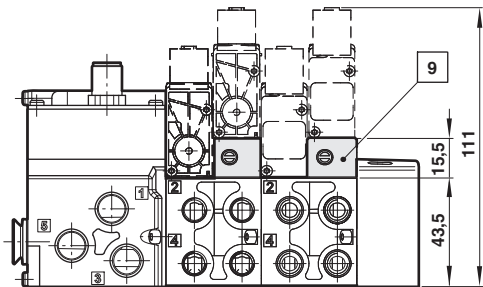
Symbol	Model	Description
	VS1872403-KF00	Single valve shut-off plate supplied with gasket

Allows individual exchange of valve while valve island is pressurised by port 1.
Flow restricted to max. 800 L/min.

Base accessories

Model	Beschreibung
VS1872402-AF00	Intermediate supply/exhaust manifold (ISEM), port size G1/8 *1)
VS1872402-PF00	Intermediate supply/exhaust manifold (ISEM), port size NPTF1/8 *1)
VS1872404-KF00	Blanking plate for unused stations (supplied with gasket)

*1) For use see page 12



- 9 Single valve shut-off plate
- 10 Intermediate supply/exhaust manifold (ISEM)
- 11 Blanking plate

Multi pressure configurations

A

Blanking disk kit	Description
VS1872405-KF00	Suitable for ports 1, 3 and 5

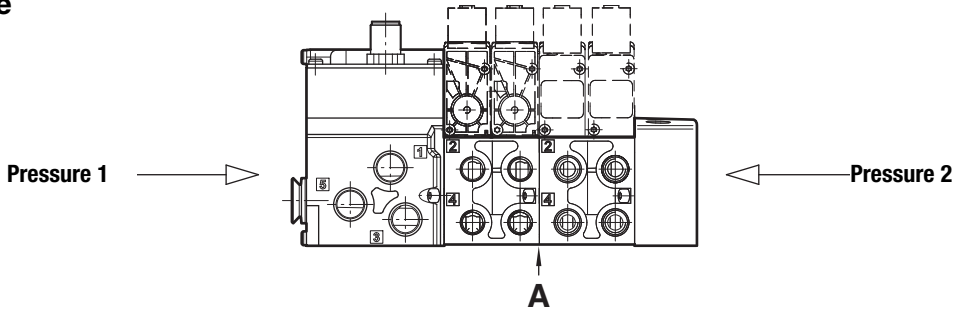
B

Intermediate supply/exhaust manifold (ISEM)	Description
VS1872402-AF00	G1/8
VS1872402-PF00	NPTF1/8

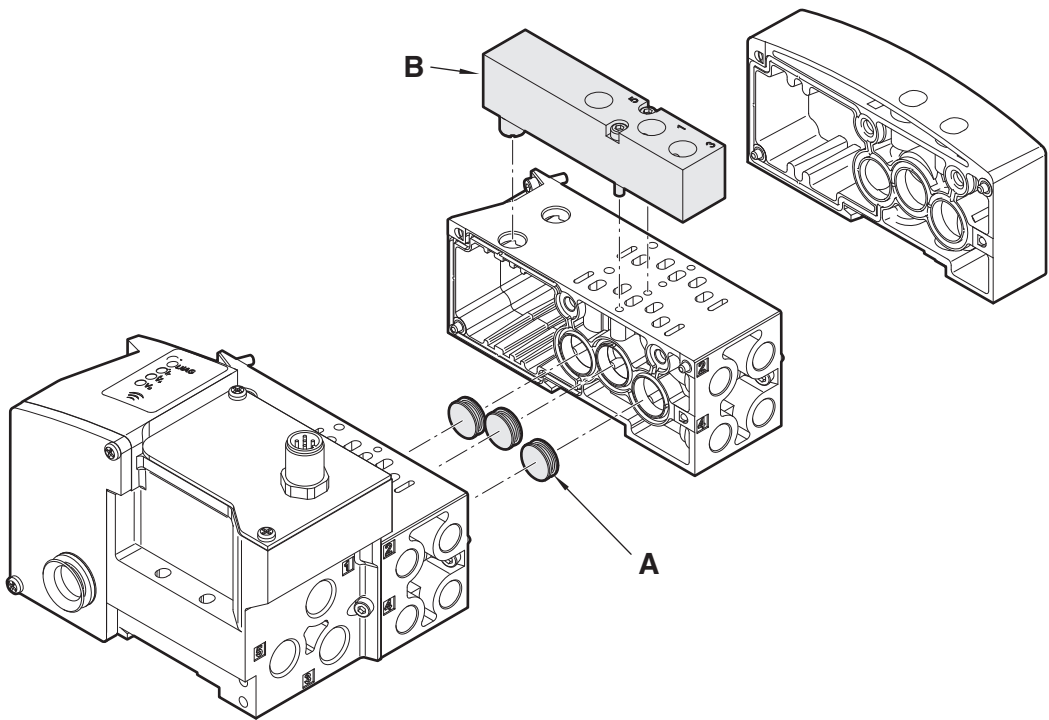
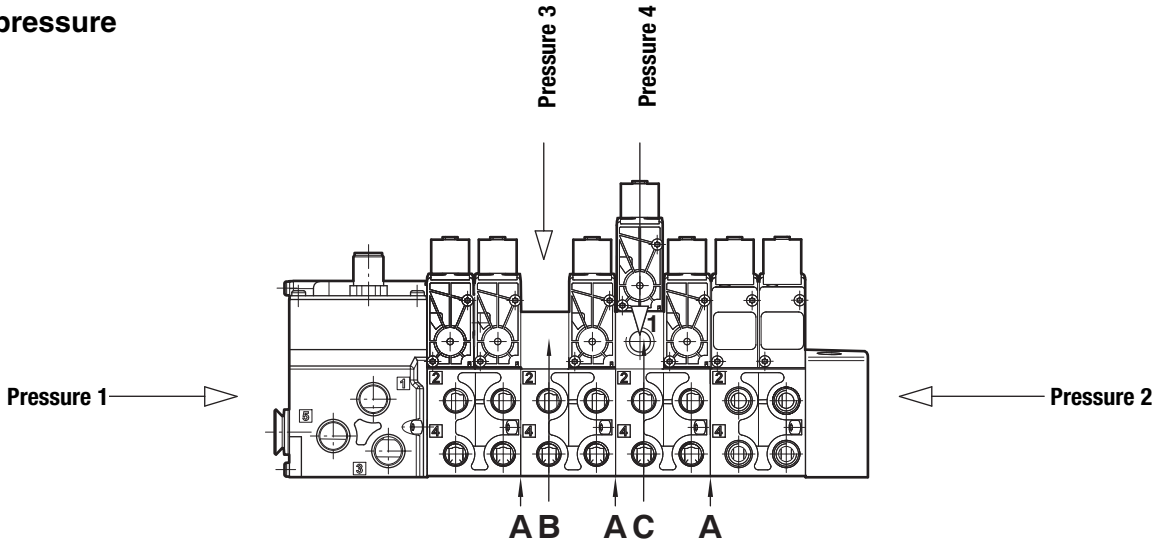
C

Sandwich plate with additional port 1	Description
VS1872428-KF00	G1/8
VS1872429-KF00	NPTF1/8

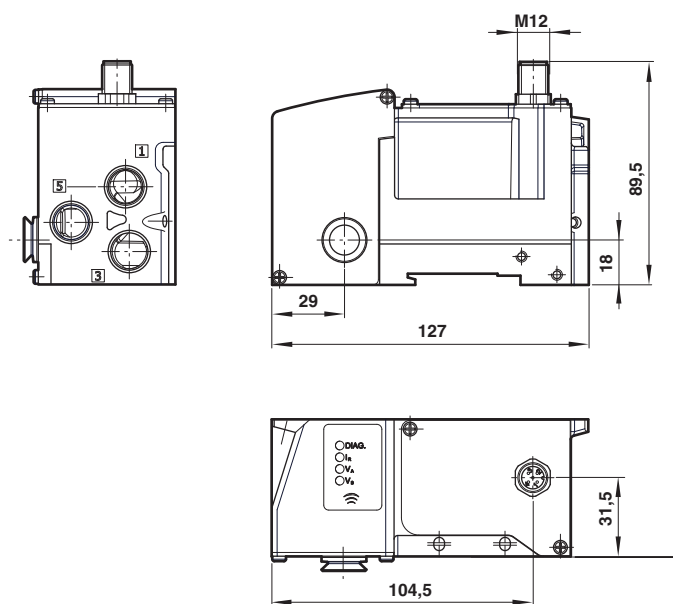
Dual pressure



Multi pressure



End plate with IR communication



Power connector: M12, 5-pin

Pin no.	Function	Tolerance	Max. current
1	24 V logic circuit supply	±25%	100 mA
2	24 V valves	—	*1)
3	0 V	—	—
4	0 V valve	—	—
5	Earth	—	—

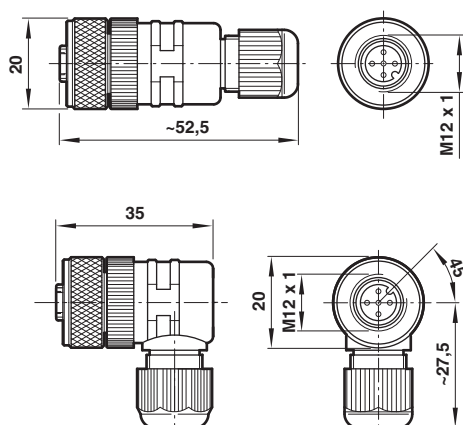
Connector pins



*1) $I_{max} = 10 \text{ mA} + n \cdot 60 \text{ mA}$
 n = number of energized solenoids

Note: Zero voltage are galvanically isolated!

Accessories



Connector, straight

M12 x 1, 5 pin, female, A coded
 Model: 0252563

Connector, 90°

M12 x 1, 5 pin, female, A coded
 Model: 0252543

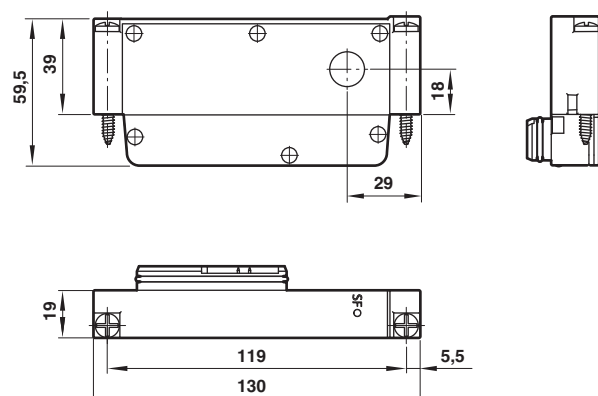
Connector, 90°

M12 x 1, 5 pin, female, A coded with
 5 m cable
 Model: 0250081

M12 x 1, 5 pin, female, A coded with
 10 m cable
 Model: 0250472

Interface module

Model: 0252420



The interface module is used to connect the Norgren valve island to the SIEMENS ET200pro.

The existing right hand end plate of the SIEMENS ET200pro must be replaced.

An ET200pro assembly fitted with the interface but no valve island will also function correctly

Worksheet VS18M Series (Please mark the corresponding boxes and fax the sheet to Norgren customer service)

		Station																	
		G	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Valves G = Glandless spool & sleeve S = Soft seal spool Please enter corresponding letter in the boxes	2x2/2 Sol/Spring NC		X																
	2x2/2 Sol/Spring NO			X															
	2x2/2 Sol/Spring NO/NC		X																
	2x3/2 Sol/Spring NC			X															
	2x3/2 Sol/Spring NO (5/3 COP)			X															
	2x3/2 Sol/Spring NO/NC		X																
	5/2 Sol/Spring		X	X															
	5/2 Sol/Sol		X	X															
Base accessories (optional)	5/2 Sol Priority side 14/Sol		X																
	5/3 APB Sol/Sol		X	X															
	5/3 COE Sol/Sol		X																
	Intermediate supply/Exhaust module G1/8																		
Sandwich plates (optional)	Intermediate supply/Exhaust module 1/8 NPT																		
	Blanking plate																		
	Pressure regulator, port 1																		
	Pressure regulator, port 2																		
	Pressure regulator, port 4																		
	Pressure regulator, port 2 + 4																		
	Flow regulator, port 3 + 5																		
	Sandwich plate with additional port 1 (G1/8)																		
Sub-base port size	Sandwich plate with additional port 1 (1/8 NPT)																		
	G1/8																		
	1/8 NPT																		
	PIF8 mm																		
	PIF6 mm																		
Blanking discs *1) (optional)	PIF1/4																		
	Port 1																		
	Port 3																		
	Port 5																		

*1) For blanking discs after odd valve stations please contact technical service

Pilot supply

- ☐ Internal
☐ External
☐ Mixed (Please specify in notes)

Manual override (all valves)

- ☐ Push only
☐ Push & turn
☐ Extended, push only
☐ Mixed (Please specify in notes)

End plate kit

- ☐ G1/4
☐ 1/4 NPT

Power supply

- ☐ Wireable connector, straight
☐ Wireable connector, 90°
☐ Connector, 90° with 5 m cable length
☐ Connector, 90° with 10 m cable length

Accessories

- ☐ Manual override set-up kit: quantity: _____

Part no of configured valve island:
V S 18 M _ _ _ _ _ _ _ _ _ _
(This line will be filled out by Norgren)
In case of repeat order, please indicate only this number.

Customer: _____
Contact: _____
Phone: _____
Fax: _____
Order no: _____
Quantity: _____
Date: _____

Additional accessories / Notes:

Sub-bases and end plates (without PCB's) for SIEMENS profile rail

Sub-bases and end plates (without PCB's)

including screws and gaskets

A – End plate kit

Model	Description	Ports 1, 3 + 5	Ports 12/14 + 82/84
VS1872006-BFJ0	End plate kit	G1/4	G1/8
VS1872006-RFH0	End plate kit	NPTF1/4	NPTF1/8

B - Double station modular sub-base

Model	Ports 2 + 4
VS1872002-AFF0	G1/8
VS1872002-PFF0	NPTF1/8
VS1872002-6FF0	PIF6 mm
VS1872002-8FF0	PIF8 mm
VS1872002-1FF0	PIF1/4

C - Single station modular sub-base

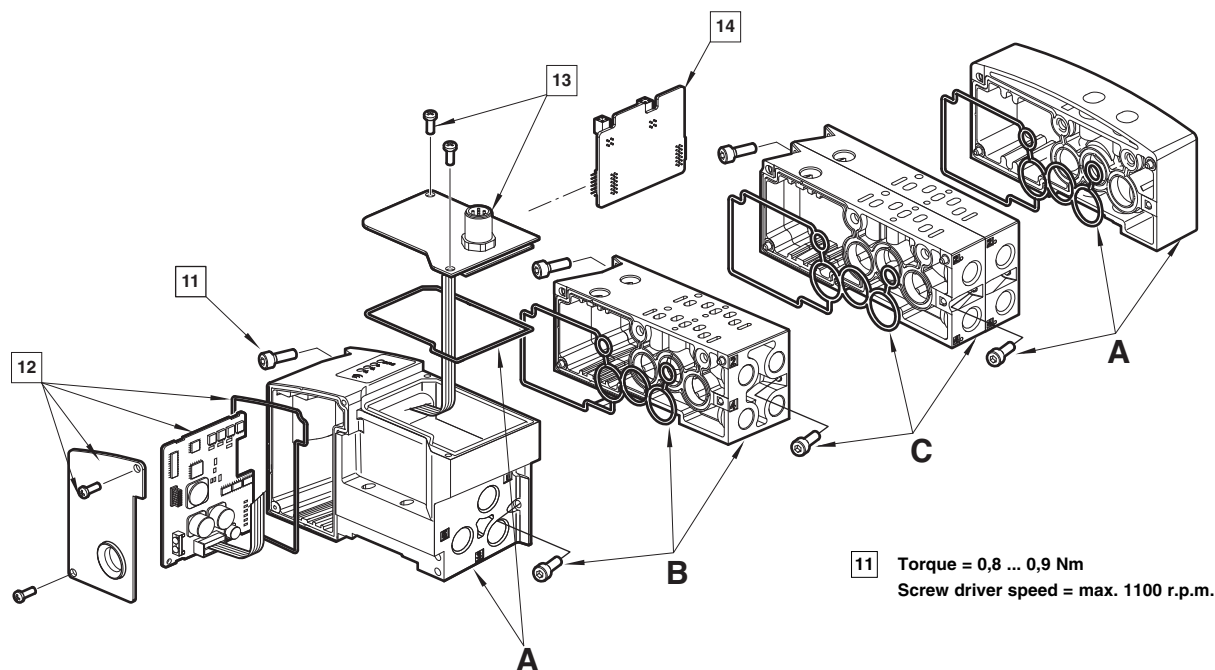
Use 2 x single sub-base

Model	Ports 2 + 4
VS1872003-AFF0	G1/8
VS1872003-PFF0	NPTF1/8
VS1872003-6FF0	PIF6 mm
VS1872003-8FF0	PIF8 mm
VS1872003-1FF0	PIF1/4

Electronic components

Model	Position	Description	Quantity per double sub-base
02522750	14	Output board for 2 stations	1

Model		Description	Quantity per island
59.05697	12	IR-Interface complete	1
VS2672758-KG00	13	Electrical port kit (M12 x 1)	1



Note: Never plug port 82/84. Plugging this port will cause valves to malfunction.
For detailed assembly instructions, please see maintenance & instruction booklet.

Sub-bases and end plates (without PCB's) for module mounting

Sub-bases and end plates (without PCB's)

including screws and gaskets

A – End plate kit

Model	Description	Ports 1, 3 + 5	Ports 12/14 + 82/84
VS1872006-BFJ0	End plate kit	G1/4	G1/8
VS1872006-RFH0	End plate kit	NPTF1/4	NPTF1/8

B - Double station modular sub-base

Model	Ports 2 + 4
VS1872002-AFF0	G1/8
VS1872002-PFF0	NPTF1/8
VS1872002-6FF0	PIF6 mm
VS1872002-8FF0	PIF8 mm
VS1872002-1FF0	PIF1/4

C - Single station modular sub-base

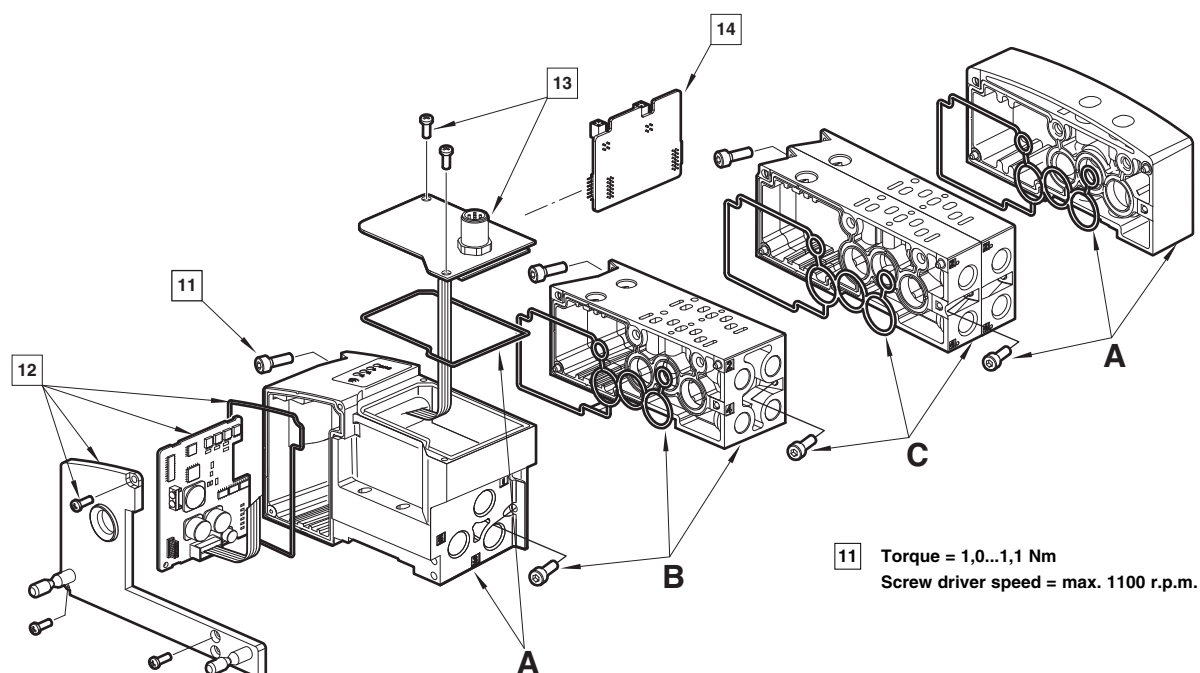
Use 2 x single sub-base

Model	Ports 2 + 4
VS1872003-AFF0	G1/8
VS1872003-PFF0	NPTF1/8
VS1872003-6FF0	PIF6 mm
VS1872003-8FF0	PIF8 mm
VS1872003-1FF0	PIF1/4

Electronic components

Model	Position	Description	Quantity per double sub-base
02522750	14	Output board for 2 stations	1

Model	Description	Quantity per island
59.05698	12	IR-Interface complete
VS2672758-KG00	13	Electrical port kit (M12 x 1)



Note: Never plug port 82/84. Plugging this port will cause valves to malfunction.
For detailed assembly instructions, please see maintenance & instruction booklet.