

Used in conjunction with B&R X20- and X67-System

Variable valve configuration from 2 to 20 stations using double width sub-bases

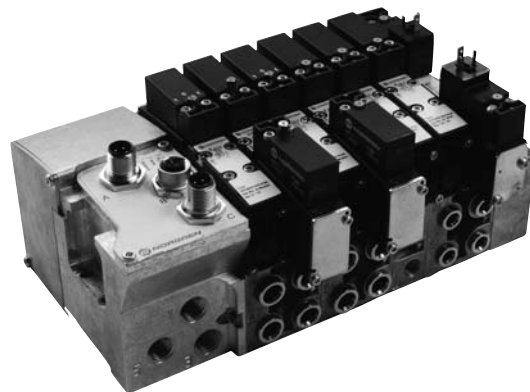
Field expandable and maintenance friendly

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 with internal and external pilot pressure

VS18S: Softseal spool valve, solenoid pilot actuated with internal and external pilot pressure

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

See page 4

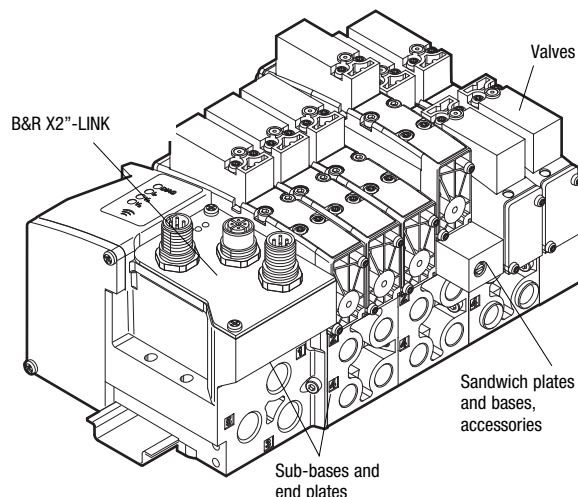
Ordering information

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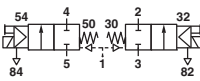
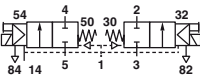
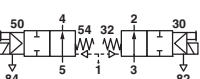
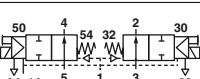
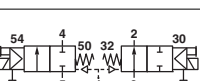
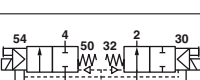
Content

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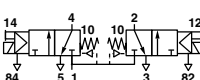
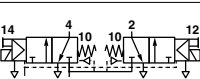
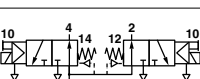
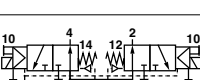
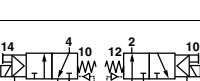
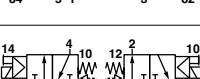
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2x2/2, Double solenoid actuated softseal valves (flow 500 l/min)

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)

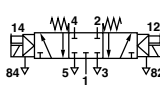
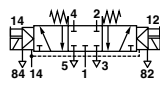
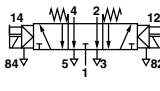
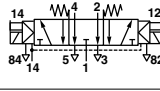
Symbol	Model	Actuation/ return	Pilot supply	Pilot pressure (bar)	Operating pressure (bar)	Manual override	Voltage	Short code
	VS18S511DF313A	Sol/Sol	Internal	–	2...10	Push only	24 V d.c. 1,2 W	SJU
	VS18S511DF213A	Sol/Sol	Internal	–	2...10	Push & turn	24 V d.c. 1,2 W	SJT
	VS18S511DF513A	Sol/Sol	Internal	–	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 only	2
Softseal spool	S	Push & turn	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 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	24V DC +/- 10%
Rating	100 % ED
Inlet orifice	0,8 mm
Indication	LED green
Surge suppression	Transil diode
Protection class	IP65
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

DIN EN/50 022 rail (1 metre)	DIN-rail mounting kit	Blanking disk kit for modular sub-base	Manual override set-up kit	Spare valve identification labels *1)	Blanking plug for base connector hole *2)
V10009-C00 (35 x 7,5 mm)	V70531-KA0	VS1872405-KF00 (Ports 1, 3, 5)	VS2672906-KG00	VS2672905-KG00 (10 pcs)	VS2672914-KG00
V10592-C01 (35 x 15 mm)		VS1872406-KF00 (Port 12/14)			

*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, connector

Intermediate supply/exhaust manifold	Blanking plate	Connector
Page 11	Page 10	Page 12
VS1872402-AF00 (G1/8)	VS1872404-KF00	
VS1872402-PF00 (NPTF1/8)		

Sandwich plates

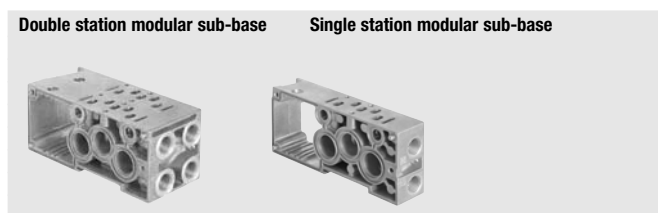
Single pressure regulator plate	Double pressure regulator plate	Flow regulator plate	Sandwich plate with additional pressure port 1	Single valve shut-off plate
Page 8	Page 8	Page 9	Page 9	Page 10
VS1872400-KF10 (port 1)	VS1872400-KF40 (ports 2+4)	VS1872401-KF00 (Ports 3+5)	VS1872428-KF00 (G1/8)	VS1872403-KF00 (port 1)
VS1872400-KF20 (port 2)			VS1872429-KF00 (NPTF1/8)	
VS1872400-KF30 (port 4)				

End plates



Page 7 for dimensions. Page 14 for ordering information.

Modular sub-base

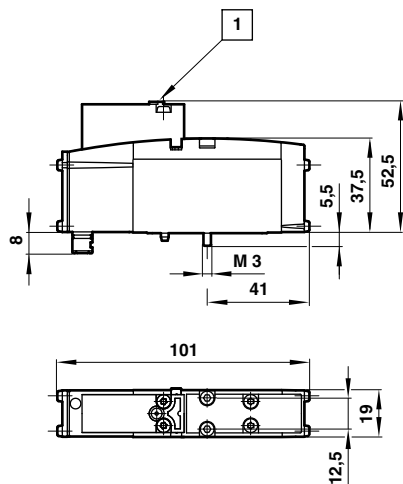


Page 7 for dimensions. Page 14 for ordering information.

Valve dimensions

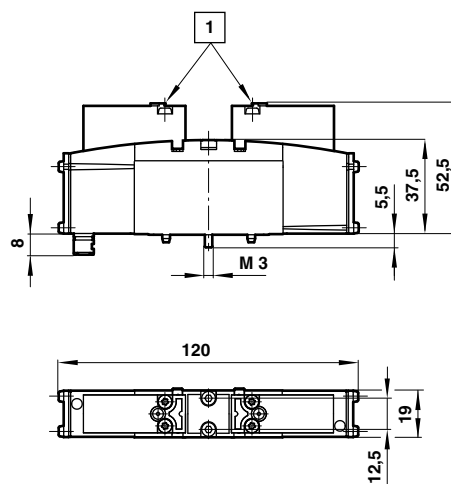
VS18*5*7DF*1*A models

5/2 Single solenoid pilot valve
Mechanical spring return



VS18****DF*1*A models

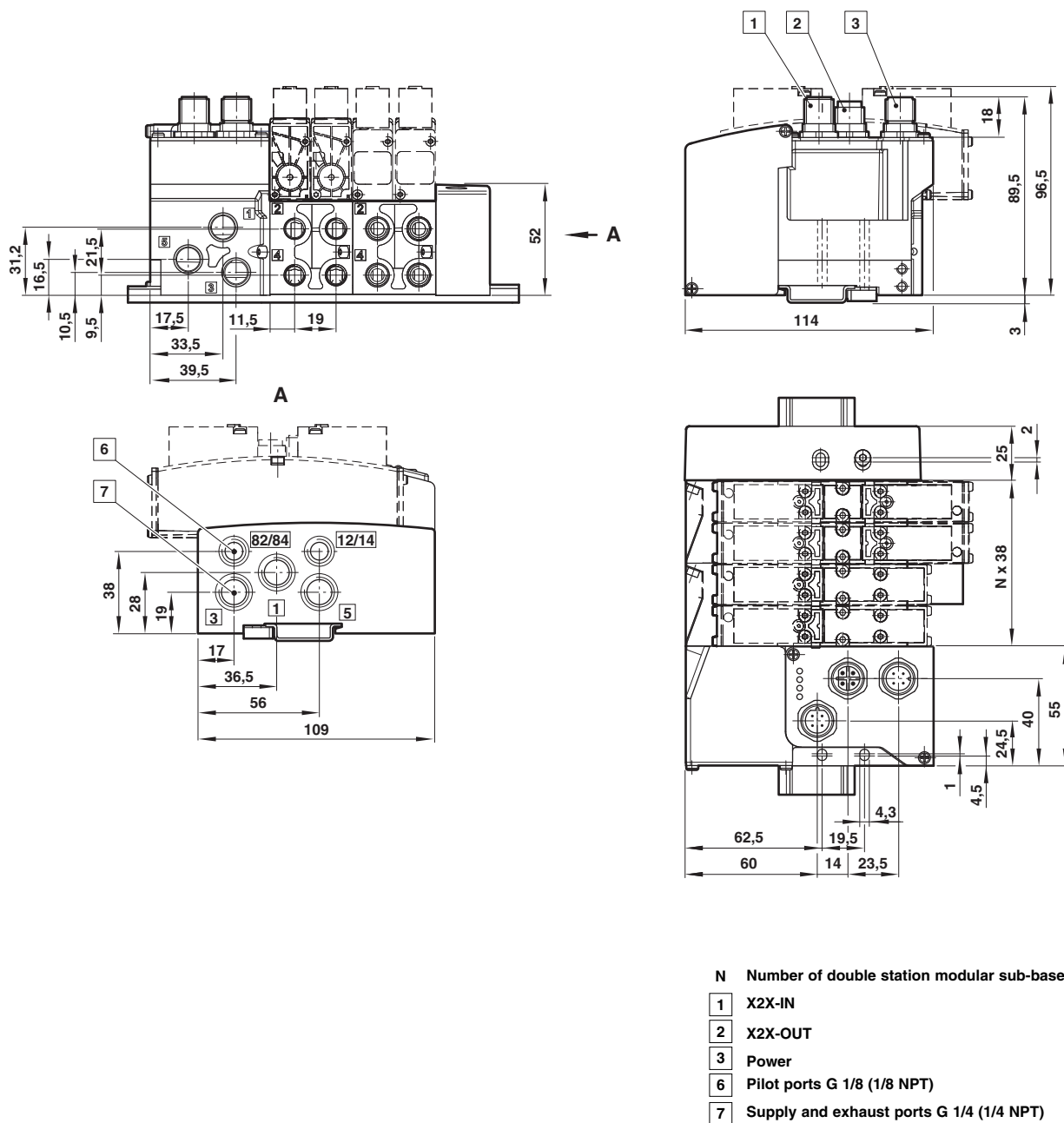
2x2/2, 2x3/2, 5/2 and 5/3 Double solenoid pilot valve



1 Manual override

Valve island with B&R X20- and X67-System across X2X-Link

For ordering information port sizes of modular sub-bases and end plates see page 14



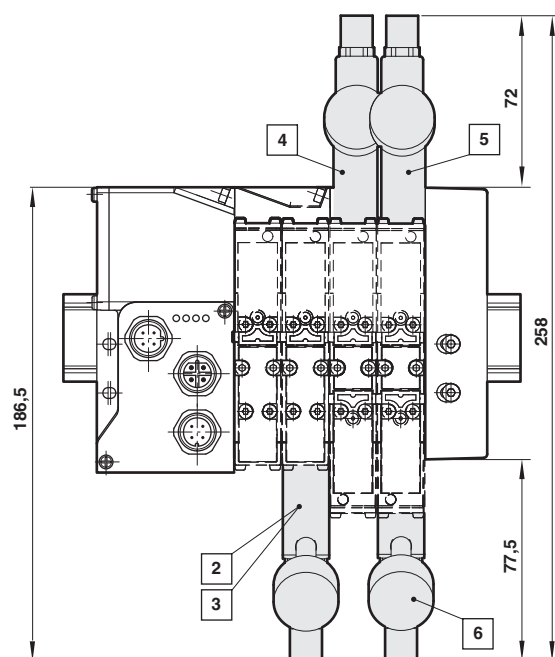
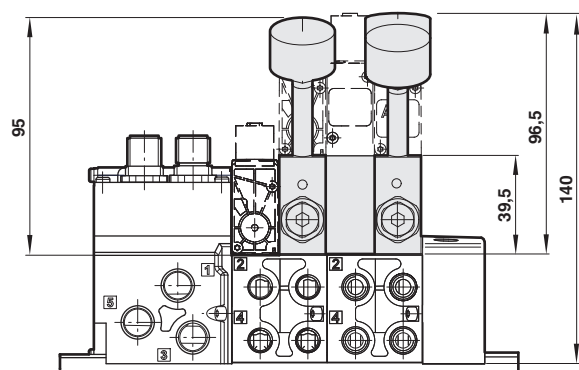
Note: Never plug port 82/84. Plugging this port will cause valves to malfunction

Sandwich plates

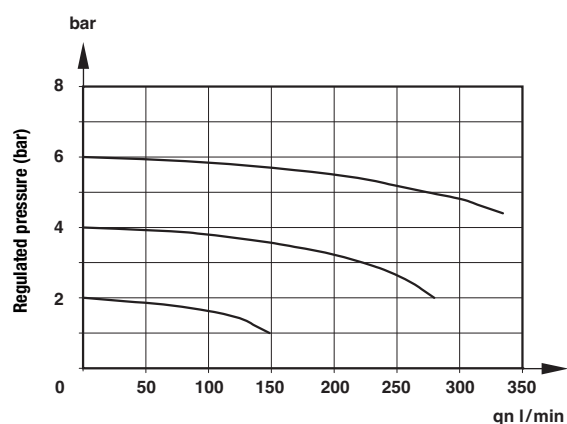
Pressure regulator sandwich plates

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

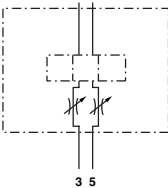


- 2 Regulation of port 1
- 3 Regulation of port 2
- 4 Regulation of port 4
- 5 Regulation of port 2+4
- 6 Gauge

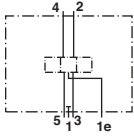
Spare part number for gauge = V70534-500

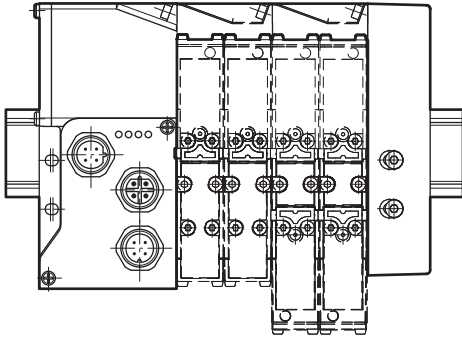
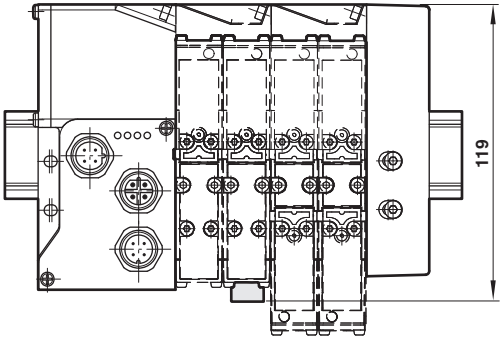
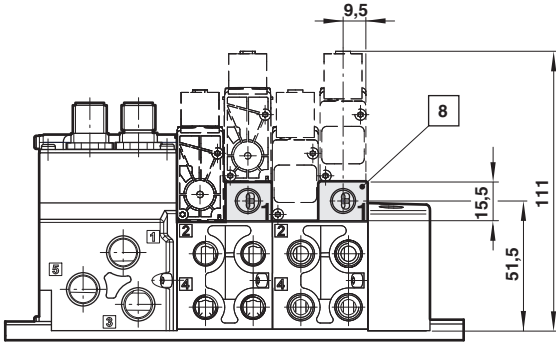
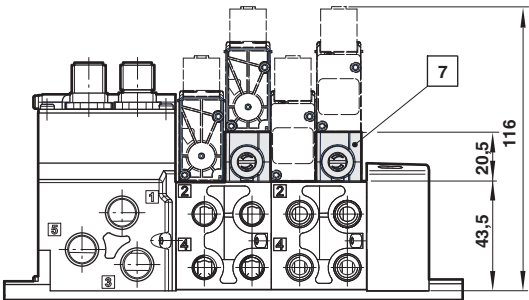
Sandwich plates

Flow regulator sandwich plate

Symbol	Model	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

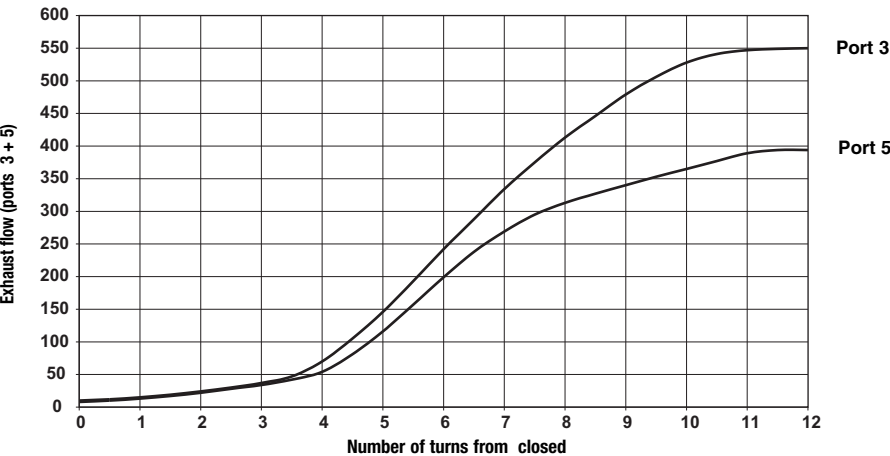


7 Flow regulator plate

8 Sandwich plate with additional pressure port 1

Flow characteristics

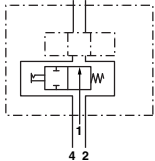
Dual regulation of exhaust ports 3 and 5



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

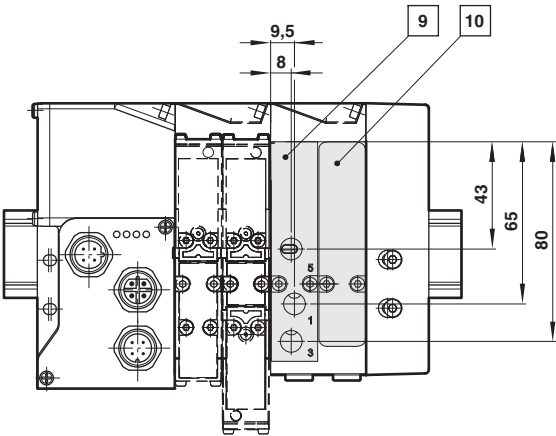
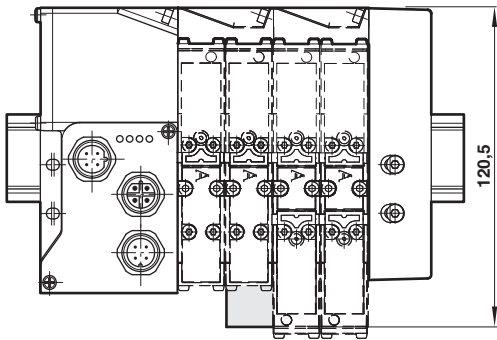
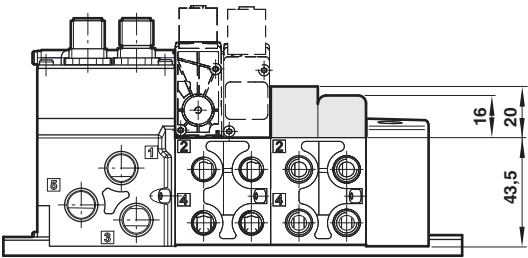
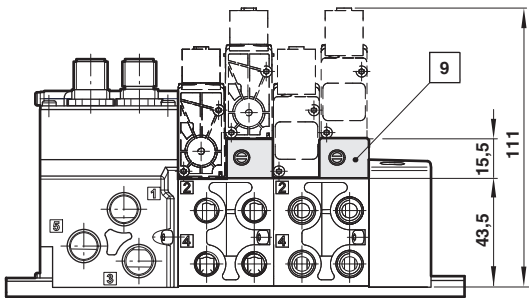
Symbol	Type	Description
	VS1872403-KF00	Single valve shut-off plate supplied with gasket

Allows individual exchange of valve while valve island is pressurised by port 1.
Flow restricted to max. 240 L/min.

Base accessories

Model	Description
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 11



- 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

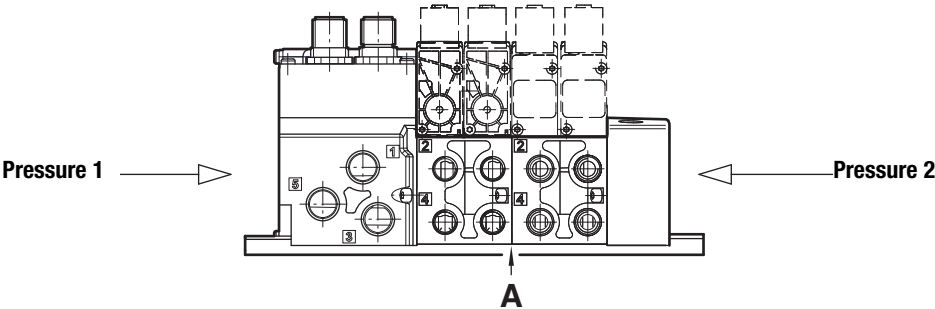
B

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

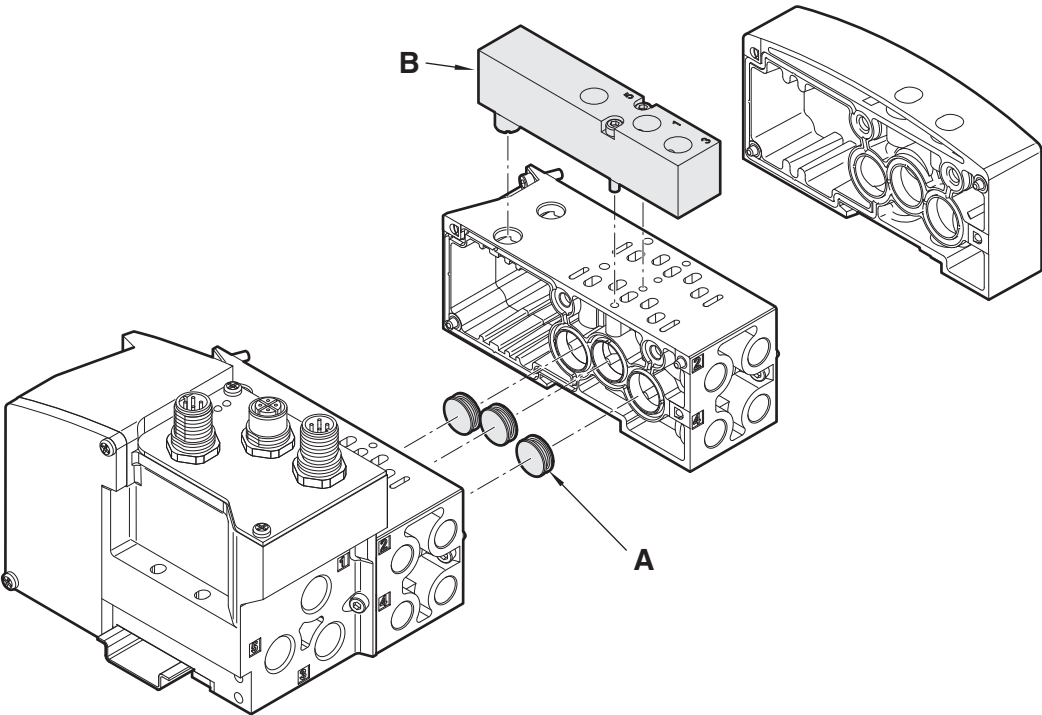
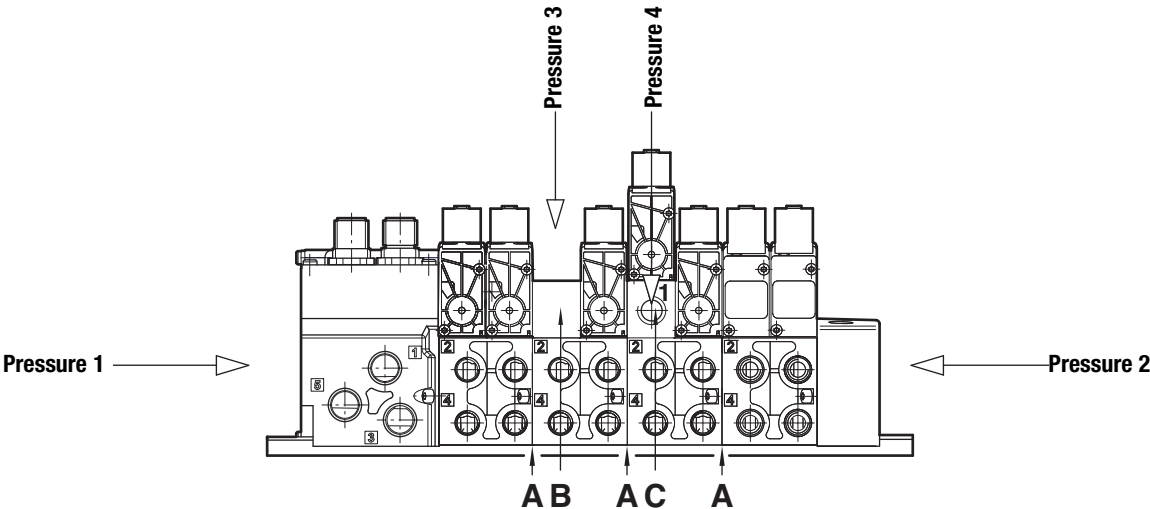
C

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

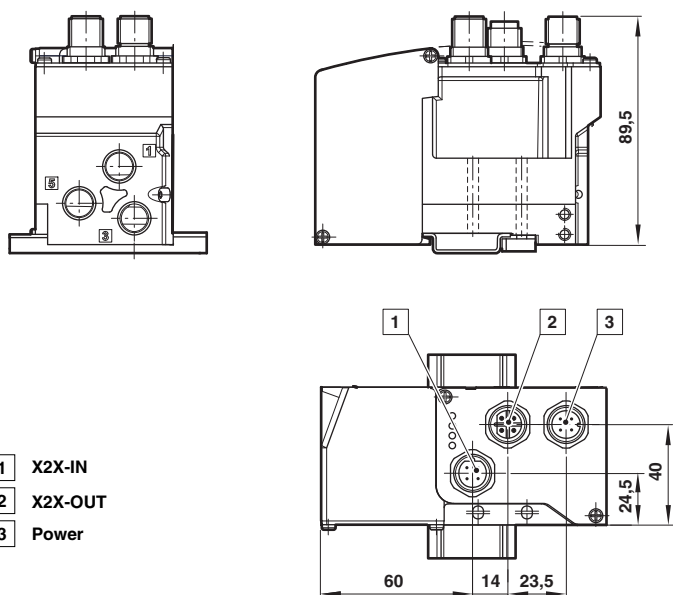
Dual pressure



Multi pressure



End plate with X2x interface



Power connector:
M12, 4 pin (A coded)

Connector pins



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

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

Connector pins



Bus connector, X2X-IN
4 pin (B coded)

Pin no.	Function
1	X2X +
2	X2X
3	X2X ⊥
4	X2X\

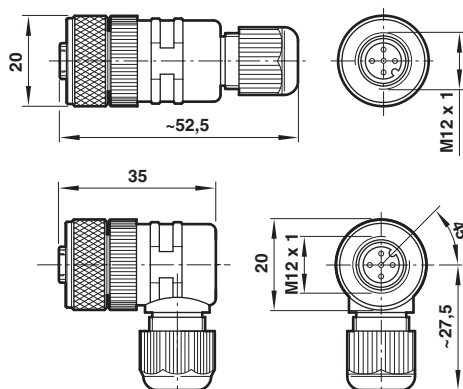
Female



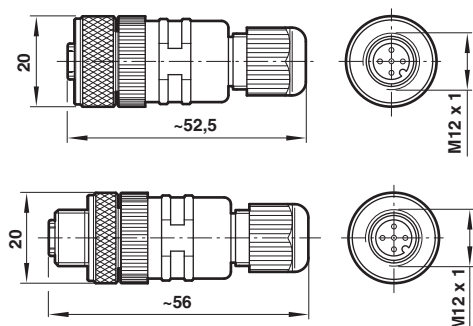
Bus connector (female), X2X-OUT
4 pin (B coded)

Pin no.	Function
1	X2X +
2	X2X
3	X2X ⊥
4	X2X\

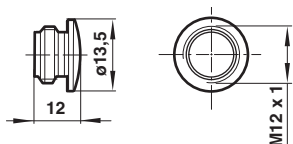
Power supply



BUS connectors



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

Connector, straight

X2X-LINK (input)
M12 x 1, 5 pin, female, B coded
Model: VE2DPCRS-CN05S

Connector, straight

X2X-LINK (output)
M12 x 1, 5 pin B coded
Model: VE2DPCRS-CN05P

Protection cap

For unused X2X-LINK (output)
M12 x 1,
Model: 0252069

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	17	18	19	20	
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																				
	5/2 Sol Priority side 14/Sol		X																					
	5/3 APB Sol/Sol		X	X																				
Base accessories (optional)	5/3 COE Sol/Sol		X																					
	Intermediate supply/Exhaust module G1/8																							
	Intermediate supply/Exhaust module 1/8 NPT																							
Sandwich plates (optional)	Blanking plate																							
	Pressure regulator, port 1																							
	Pressure regulator, port 2																							
	Pressure regulator, port 4																							
	Pressure regulator, port 2 + 4																							
	Flow regulator, port 3 + 5																							
Sub-base port size	Sandwich plate with additional port 1 (G1/8)																							
	Sandwich plate with additional port 1 (1/8 NPT)																							
	G1/8																							
	1/8 NPT																							
	PIF8 mm																							
Blanking discs *1) (optional)	PIF6 mm																							
	PIF1/4																							
	Port 1																							
	Port 3																							
	Port 5																							

Part number of configured valve island:
VS 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:

Pilot supply

☐ Internal

☐ External

☐ Mixed (Please specify in notes)

Manual override

☐ Push only

☐ Push & turn

☐ Extended, push only

☐ Mixed (Please specify in notes)

End plate kit

☐ G1/4

☐ 1/4 NPT

Accessories

☐ Manual override set-up kit:
quantity: _____

Power supply

☐ Wireable connector, straight

☐ Wireable connector, 90°

☐ Connector, 90° with 5 m cable length

☐ Connector, 90° with 10 m cable length

BUS connector

☐ Straight Connector

☐ X2X-LINK connector (output)

☐ Straight Connector

☐ X2X-LINK female (input)

☐ Protection cap

☐ X2X-LINK (output)

Sub-base 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

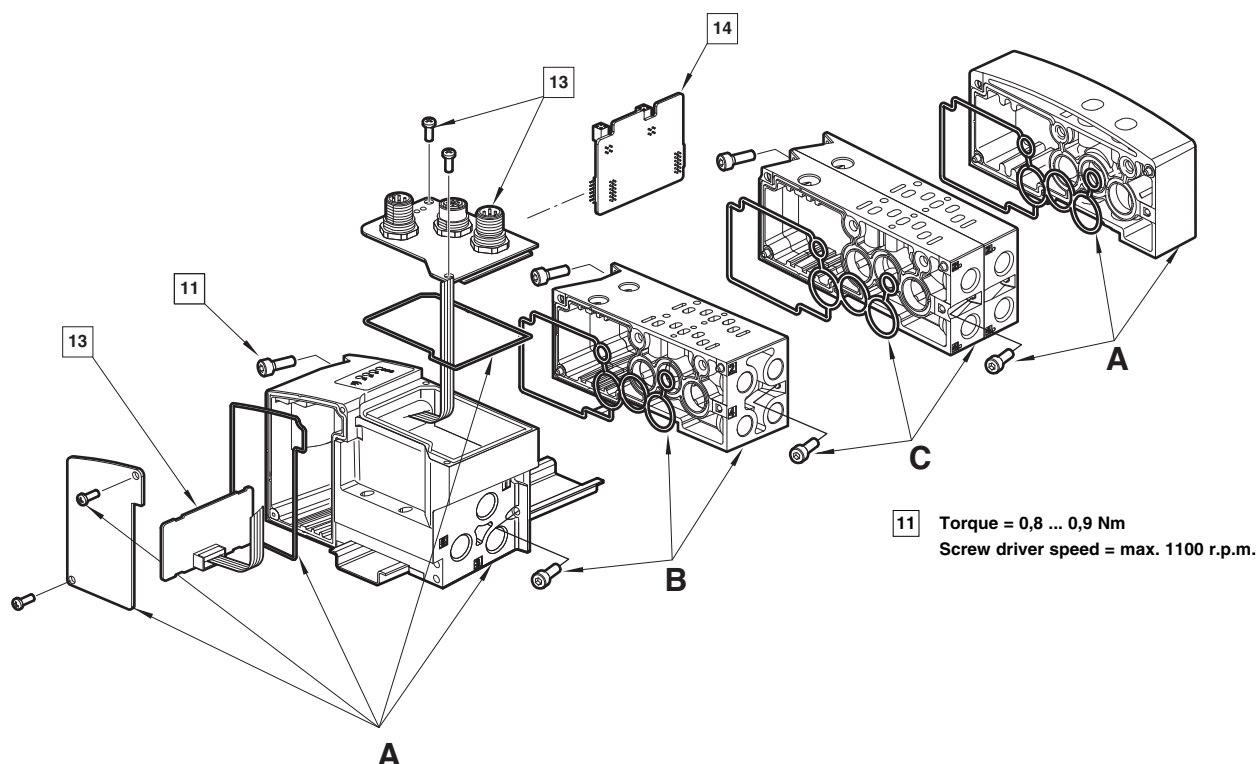
C - Single station modular sub-base Use 2 x single sub-base

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	Position	Description	Quantity per island
VS2672759-KG00	13	X2X-LINK Interface complete (B&R)	1



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