

Valve Islands VS18 Series Plug-in Mini ISO Valves

2x3/2, 5/2 and 5/3 valves

ISO 15407-2

Size 18 mm

24V DC or 115V AC Multipole

Integrated Fieldbus

Field expandable with single add-on stations

Dual spool technology

VS18G Glandless spool and sleeve for long life

VS18S Softseal spool for high flow

Wide range of accessories

UL and ATEX

Universal PNP/NPN 24V DC Multipole

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, NPTF1/8, PIF 8 mm, PIF 6 mm, PIF 1/4

Operating pressure

Maximum pressure

145 psi (10 bar) VS18S models and VS18G solenoid pilot actuated valves with internal pilot supply

232 psi (16 bar) VS18G solenoid pilot actuated valves with external pilot supply

Details of minimum and maximum pilot pressure see overleaf.

Flow characteristics

Series	Function	Cv	L/min
VS18G	5/2	0.56	550
VS18G	5/3	0.56	550
VS18S	2x3/2	0.61	600
VS18S	5/2	0.66	650
VS18S	5/3	0.66	650

Ambient temperature:

5°F to 122°F (-15°C to +50°C)

Medium temperature:

23°F to 122°F (-5°C to +50°C)

Consult our technical service for use below 35°F (+2°C).

Materials

Body / sub-base: die-cast aluminum

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

Softseal spool (VS18S): aluminum with HNBR seals

Plastic parts: POM, PA, PPA

Mounting sheets / screws: steel, zinc coated

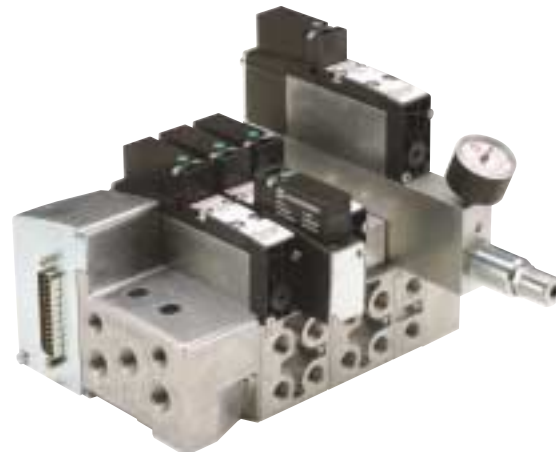
Springs: stainless steel

Sandwich plates: aluminum bar material

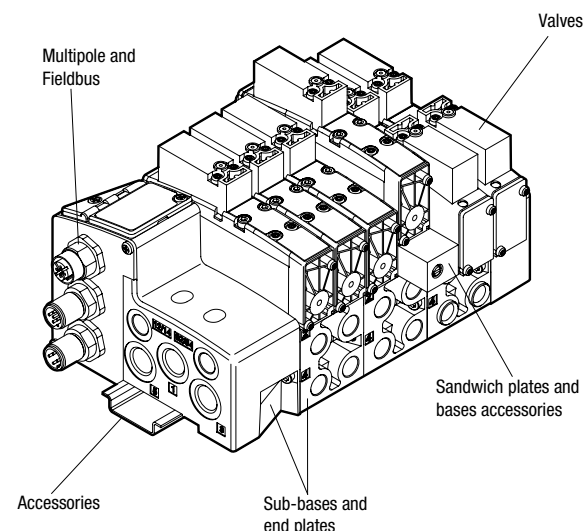
Regulator screws: brass

Electrical contacts: brass, tin/gold coated

PCB: glasepoxy



To order please use valve island configurator available at www.norgren.com
Alternatively contact Norgren for a configurator on CD or use our worksheet.



Valve Islands VS18 Series Plug-in Mini ISO Valves

2x3/2, 5/2 and 5/3 valves, ISO 15407-2, Size 18 mm

2x3/2 Double solenoid actuated Softseal valves flow = 0.61 Cv (600 L/min)

Model	Function 2x3/2	Actuation	Pilot supply	Pilot pressure psi [bar]	Operating pressure psi (bar)	Manual override	Voltage
VS18SA11DF313A	NC	Sol/Spring	Internal	-	36 to 145 (2.5 to 10)	Push only	24V DC 1.2W
VS18SA11DF318A	NC	Sol/Spring	Internal	-	36 to 145 (2.5 to 10)	Push only	115V AC 1.5VA
VS18SA11DF213A	NC	Sol/Spring	Internal	-	36 to 145 (2.5 to 10)	Push & turn	24V DC 1.2W
VS18SA11DF218A	NC	Sol/Spring	Internal	-	36 to 145 (2.5 to 10)	Push & turn	115V AC 1.5VA
VS18SA11DF513A	NC	Sol/Spring	Internal	-	36 to 145 (2.5 to 10)	Extended, push only	24V DC 1.2W
VS18SA11DF518A	NC	Sol/Spring	Internal	-	36 to 145 (2.5 to 10)	Extended, push only	115V AC 1.5VA
VS18SA22DF313A	NC	Sol/Spring	External	25 [1.7] + (5 [0.35] x op. press.)	0 to 145 (0 to 10)	Push only	24V DC 1.2W
VS18SA22DF318A	NC	Sol/Spring	External	25 [1.7] + (5 [0.35] x op. press.)	0 to 145 (0 to 10)	Push only	115V AC 1.5VA
VS18SA22DF213A	NC	Sol/Spring	External	25 [1.7] + (5 [0.35] x op. press.)	0 to 145 (0 to 10)	Push & turn	24V DC 1.2W
VS18SA22DF218A	NC	Sol/Spring	External	25 [1.7] + (5 [0.35] x op. press.)	0 to 145 (0 to 10)	Push & turn	115V AC 1.5VA
VS18SA22DF513A	NC	Sol/Spring	External	25 [1.7] + (5 [0.35] x op. press.)	0 to 145 (0 to 10)	Extended, push only	24V DC 1.2W
VS18SA22DF518A	NC	Sol/Spring	External	25 [1.7] + (5 [0.35] x op. press.)	0 to 145 (0 to 10)	Extended, push only	115V AC 1.5VA
VS18SB11DF313A	NO	Sol/Spring	Internal	-	36 to 145 (2.5 to 10)	Push only	24V DC 1.2W
VS18SB11DF318A	NO	Sol/Spring	Internal	-	36 to 145 (2.5 to 10)	Push only	115V AC 1.5VA
VS18SB11DF213A	NO	Sol/Spring	Internal	-	36 to 145 (2.5 to 10)	Push & turn	24V DC 1.2W
VS18SB11DF218A	NO	Sol/Spring	Internal	-	36 to 145 (2.5 to 10)	Push & turn	115V AC 1.5VA
VS18SB11DF513A	NO	Sol/Spring	Internal	-	36 to 145 (2.5 to 10)	Extended, push only	24V DC 1.2W
VS18SB11DF518A	NO	Sol/Spring	Internal	-	36 to 145 (2.5 to 10)	Extended, push only	115V AC 1.5VA
VS18SB22DF313A	NO	Sol/Spring	External	25 [1.7] + (5 [0.35] x op. press.)	0 to 145 (0 to 10)	Push only	24V DC 1.2W
VS18SB22DF318A	NO	Sol/Spring	External	25 [1.7] + (5 [0.35] x op. press.)	0 to 145 (0 to 10)	Push only	115V AC 1.5VA
VS18SB22DF213A	NO	Sol/Spring	External	25 [1.7] + (5 [0.35] x op. press.)	0 to 145 (0 to 10)	Push & turn	24V DC 1.2W
VS18SB22DF218A	NO	Sol/Spring	External	25 [1.7] + (5 [0.35] x op. press.)	0 to 145 (0 to 10)	Push & turn	115V AC 1.5VA
VS18SB22DF513A	NO	Sol/Spring	External	25 [1.7] + (5 [0.35] x op. press.)	0 to 145 (0 to 10)	Extended, push only	24V DC 1.2W
VS18SB22DF518A	NO	Sol/Spring	External	25 [1.7] + (5 [0.35] x op. press.)	0 to 145 (0 to 10)	Extended, push only	115V AC 1.5VA
VS18SC11DF313A	NO/NC	Sol/Spring	Internal	-	36 to 145 (2.5 to 10)	Push only	24V DC 1.2W
VS18SC11DF318A	NO/NC	Sol/Spring	Internal	-	36 to 145 (2.5 to 10)	Push only	115V AC 1.5VA
VS18SC11DF213A	NO/NC	Sol/Spring	Internal	-	36 to 145 (2.5 to 10)	Push & turn	24V DC 1.2W
VS18SC11DF218A	NO/NC	Sol/Spring	Internal	-	36 to 145 (2.5 to 10)	Push & turn	115V AC 1.5VA
VS18SC11DF513A	NO/NC	Sol/Spring	Internal	-	36 to 145 (2.5 to 10)	Extended, push only	24V DC 1.2W
VS18SC11DF518A	NO/NC	Sol/Spring	Internal	-	36 to 145 (2.5 to 10)	Extended, push only	115V AC 1.5VA
VS18SC22DF313A	NO/NC	Sol/Spring	External	25 [1.7] + (5 [0.35] x op. press.)	0 to 145 (0 to 10)	Push only	24V DC 1.2W
VS18SC22DF318A	NO/NC	Sol/Spring	External	25 [1.7] + (5 [0.35] x op. press.)	0 to 145 (0 to 10)	Push only	115V AC 1.5VA
VS18SC22DF213A	NO/NC	Sol/Spring	External	25 [1.7] + (5 [0.35] x op. press.)	0 to 145 (0 to 10)	Push & turn	24V DC 1.2W
VS18SC22DF218A	NO/NC	Sol/Spring	External	25 [1.7] + (5 [0.35] x op. press.)	0 to 145 (0 to 10)	Push & turn	115V AC 1.5VA
VS18SC22DF513A	NO/NC	Sol/Spring	External	25 [1.7] + (5 [0.35] x op. press.)	0 to 145 (0 to 10)	Extended, push only	24V DC 1.2W
VS18SC22DF518A	NO/NC	Sol/Spring	External	25 [1.7] + (5 [0.35] x op. press.)	0 to 145 (0 to 10)	Extended, push only	115V AC 1.5VA



Valve functions designations:

NO = Normally open
NC = Normally closed

Valves

5/2 Single and double solenoid actuated Glandless valves flow = 0.56 Cv (550 L/min)

Model	Function	Actuation	Pilot supply	Pilot pressure psi (bar)	Operating pressure psi (bar)	Manual override	Voltage
VS18G511DF313A	5/2	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push only	24V DC 1.2W
VS18G511DF318A	5/2	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push only	115V AC 1.5VA
VS18G511DF213A	5/2	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push & turn	24V DC 1.2W
VS18G511DF218A	5/2	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push & turn	115V AC 1.5VA
VS18G511DF513A	5/2	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Extended, push only	24V DC 1.2W
VS18G511DF518A	5/2	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Extended, push only	115V AC 1.5VA
VS18G522DF313A	5/2	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Push only	24V DC 1.2W
VS18G522DF318A	5/2	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Push only	115V AC 1.5VA
VS18G522DF213A	5/2	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Push & turn	24V DC 1.2W
VS18G522DF218A	5/2	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Push & turn	115V AC 1.5VA
VS18G522DF513A	5/2	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Extended, push only	24V DC 1.2W
VS18G522DF518A	5/2	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Extended, push only	115V AC 1.5VA
VS18G591DF313A	5/2	Sol (Priority)/Sol	Internal	-	29 to 145 (2 to 10)	Push only	24V DC 1.2W
VS18G591DF318A	5/2	Sol (Priority)/Sol	Internal	-	29 to 145 (2 to 10)	Push only	115V AC 1.5VA
VS18G591DF213A	5/2	Sol (Priority)/Sol	Internal	-	29 to 145 (2 to 10)	Push & turn	24V DC 1.2W
VS18G591DF218A	5/2	Sol (Priority)/Sol	Internal	-	29 to 145 (2 to 10)	Push & turn	115V AC 1.5VA
VS18G591DF513A	5/2	Sol (Priority)/Sol	Internal	-	29 to 145 (2 to 10)	Extended, push only	24V DC 1.2W
VS18G591DF518A	5/2	Sol (Priority)/Sol	Internal	-	29 to 145 (2 to 10)	Extended, push only	115V AC 1.5VA
VS18G592DF313A	5/2	Sol (Priority)/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Push only	24V DC 1.2W
VS18G592DF318A	5/2	Sol (Priority)/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Push only	115V AC 1.5VA
VS18G592DF213A	5/2	Sol (Priority)/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Push & turn	24V DC 1.2W
VS18G592DF218A	5/2	Sol (Priority)/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Push & turn	115V AC 1.5VA
VS18G592DF513A	5/2	Sol (Priority)/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Extended, push only	24V DC 1.2W
VS18G592DF518A	5/2	Sol (Priority)/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Extended, push only	115V AC 1.5VA
VS18G517DF313A	5/2	Sol/Spring	Internal	-	23 to 145 (1.6 to 10)	Push only	24V DC 1.2W
VS18G517DF318A	5/2	Sol/Spring	Internal	-	23 to 145 (1.6 to 10)	Push only	115V AC 1.5VA
VS18G517DF213A	5/2	Sol/Spring	Internal	-	23 to 145 (1.6 to 10)	Push & turn	24V DC 1.2W
VS18G517DF218A	5/2	Sol/Spring	Internal	-	23 to 145 (1.6 to 10)	Push & turn	115V AC 1.5VA
VS18G517DF513A	5/2	Sol/Spring	Internal	-	23 to 145 (1.6 to 10)	Extended, push only	24V DC 1.2W
VS18G517DF518A	5/2	Sol/Spring	Internal	-	23 to 145 (1.6 to 10)	Extended, push only	115V AC 1.5VA
VS18G527DF313A	5/2	Sol/Spring	External	23 to 145 (1.6 to 10)	26" Hg to 232 (-0.9 to 16)	Push only	24V DC 1.2W
VS18G527DF318A	5/2	Sol/Spring	External	23 to 145 (1.6 to 10)	26" Hg to 232 (-0.9 to 16)	Push only	115V AC 1.5VA
VS18G527DF213A	5/2	Sol/Spring	External	23 to 145 (1.6 to 10)	26" Hg to 232 (-0.9 to 16)	Push & turn	24V DC 1.2W
VS18G527DF218A	5/2	Sol/Spring	External	23 to 145 (1.6 to 10)	26" Hg to 232 (-0.9 to 16)	Push & turn	115V AC 1.5VA
VS18G527DF513A	5/2	Sol/Spring	External	23 to 145 (1.6 to 10)	26" Hg to 232 (-0.9 to 16)	Extended, push only	24V DC 1.2W
VS18G527DF518A	5/2	Sol/Spring	External	23 to 145 (1.6 to 10)	26" Hg to 232 (-0.9 to 16)	Extended, push only	115V AC 1.5VA

5/2 Single and double solenoid actuated Softseal valves flow = 66 Cv (650 L/min)

Model	Function	Actuation	Pilot supply	Pilot pressure psi (bar)	Operating pressure psi (bar)	Manual override	Voltage
VS18S511DF313A	5/2	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push only	24V DC 1.2W
VS18S511DF318A	5/2	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push only	115V AC 1.5VA
VS18S511DF213A	5/2	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push & turn	24V DC 1.2W
VS18S511DF218A	5/2	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push & turn	115V AC 1.5VA
VS18S511DF513A	5/2	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Extended, push only	24V DC 1.2W
VS18S511DF518A	5/2	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Extended, push only	115V AC 1.5VA
VS18S522DF313A	5/2	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Push only	24V DC 1.2W
VS18S522DF318A	5/2	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Push only	115V AC 1.5VA
VS18S522DF213A	5/2	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Push & turn	24V DC 1.2W
VS18S522DF218A	5/2	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Push & turn	115V AC 1.5VA
VS18S522DF513A	5/2	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Extended, push only	24V DC 1.2W
VS18S522DF518A	5/2	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Extended, push only	115V AC 1.5VA
VS18S517DF313A	5/2	Sol/Spring	Internal	-	29 to 145 (2 to 10)	Push only	24V DC 1.2W
VS18S517DF318A	5/2	Sol/Spring	Internal	-	29 to 145 (2 to 10)	Push only	115V AC 1.5VA
VS18S517DF213A	5/2	Sol/Spring	Internal	-	29 to 145 (2 to 10)	Push & turn	24V DC 1.2W
VS18S517DF218A	5/2	Sol/Spring	Internal	-	29 to 145 (2 to 10)	Push & turn	115V AC 1.5VA
VS18S517DF513A	5/2	Sol/Spring	Internal	-	29 to 145 (2 to 10)	Extended, push only	24V DC 1.2W
VS18S517DF518A	5/2	Sol/Spring	Internal	-	29 to 145 (2 to 10)	Extended, push only	115V AC 1.5VA
VS18S527DF313A	5/2	Sol/Spring	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Push only	24V DC 1.2W
VS18S527DF318A	5/2	Sol/Spring	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Push only	115V AC 1.5VA
VS18S527DF213A	5/2	Sol/Spring	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Push & turn	24V DC 1.2W
VS18S527DF218A	5/2	Sol/Spring	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Push & turn	115V AC 1.5VA
VS18S527DF513A	5/2	Sol/Spring	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Extended, push only	24V DC 1.2W
VS18S527DF518A	5/2	Sol/Spring	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Extended, push only	115V AC 1.5VA

Valve Islands VS18 Series Plug-in Mini ISO Valves

2x3/2, 5/2 and 5/3 valves, ISO 15407-2, Size 18 mm

5/3 Double solenoid actuated Glandless valves flow = 0.56 Cv (550 L/min)

Model	Function 5/3	Actuation	Pilot supply	Pilot pressure (bar)	Operating pressure (bar)	Manual override	Voltage
VS18G611DF313A	APB	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push only	24V DC 1.2W
VS18G611DF318A	APB	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push only	115V AC 1.5VA
VS18G611DF213A	APB	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push & turn	24V DC 1.2W
VS18G611DF218A	APB	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push & turn	115V AC 1.5VA
VS18G611DF513A	APB	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Extended, push only	24V DC 1.2W
VS18G611DF518A	APB	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Extended, push only	115V AC 1.5VA
VS18G622DF313A	APB	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Push only	24V DC 1.2W
VS18G622DF318A	APB	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Push only	115V AC 1.5VA
VS18G622DF213A	APB	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Push & turn	24V DC 1.2W
VS18G622DF218A	APB	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Push & turn	115V AC 1.5VA
VS18G622DF513A	APB	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Extended, push only	24V DC 1.2W
VS18G622DF518A	APB	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Extended, push only	115V AC 1.5VA
VS18G711DF313A	COE	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push only	24V DC 1.2W
VS18G711DF318A	COE	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push only	115V AC 1.5VA
VS18G711DF213A	COE	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push & turn	24V DC 1.2W
VS18G711DF218A	COE	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push & turn	115V AC 1.5VA
VS18G711DF513A	COE	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Extended, push only	24V DC 1.2W
VS18G711DF518A	COE	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Extended, push only	115V AC 1.5VA
VS18G722DF313A	COE	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Push only	24V DC 1.2W
VS18G722DF318A	COE	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Push only	115V AC 1.5VA
VS18G722DF213A	COE	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Push & turn	24V DC 1.2W
VS18G722DF218A	COE	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Push & turn	115V AC 1.5VA
VS18G722DF513A	COE	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Extended, push only	24V DC 1.2W
VS18G722DF518A	COE	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 232 (-0.9 to 16)	Extended, push only	115V AC 1.5VA



5/3 Double solenoid actuated Softseal valves flow = 0.66 Cv (650 L/min)

Model	Function 5/3	Actuation	Pilot supply	Pilot pressure (bar)	Operating pressure (bar)	Manual override	Voltage
VS18S611DF313A	APB	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push only	24V DC 1.2W
VS18S611DF318A	APB	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push only	115V AC 1.5VA
VS18S611DF213A	APB	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push & turn	24V DC 1.2W
VS18S611DF218A	APB	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push & turn	115V AC 1.5VA
VS18S611DF513A	APB	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Extended, push only	24V DC 1.2W
VS18S611DF518A	APB	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Extended, push only	115V AC 1.5VA
VS18S622DF313A	APB	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Push only	24V DC 1.2W
VS18S622DF318A	APB	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Push only	115V AC 1.5VA
VS18S622DF213A	APB	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Push & turn	24V DC 1.2W
VS18S622DF218A	APB	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Push & turn	115V AC 1.5VA
VS18S622DF513A	APB	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Extended, push only	24V DC 1.2W
VS18S622DF518A	APB	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Extended, push only	115V AC 1.5VA
VS18S711DF313A	COE	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push only	24V DC 1.2W
VS18S711DF318A	COE	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push only	115V AC 1.5VA
VS18S711DF213A	COE	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push & turn	24V DC 1.2W
VS18S711DF218A	COE	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Push & turn	115V AC 1.5VA
VS18S711DF513A	COE	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Extended, push only	24V DC 1.2W
VS18S711DF518A	COE	Sol/Sol	Internal	-	29 to 145 (2 to 10)	Extended, push only	115V AC 1.5VA
VS18S722DF313A	COE	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Push only	24V DC 1.2W
VS18S722DF318A	COE	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Push only	115V AC 1.5VA
VS18S722DF213A	COE	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Push & turn	24V DC 1.2W
VS18S722DF218A	COE	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Push & turn	115V AC 1.5VA
VS18S722DF513A	COE	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Extended, push only	24V DC 1.2W
VS18S722DF518A	COE	Sol/Sol	External	29 to 145 (2 to 10)	26" Hg to 145 (-0.9 to 10)	Extended, push only	115V AC 1.5VA

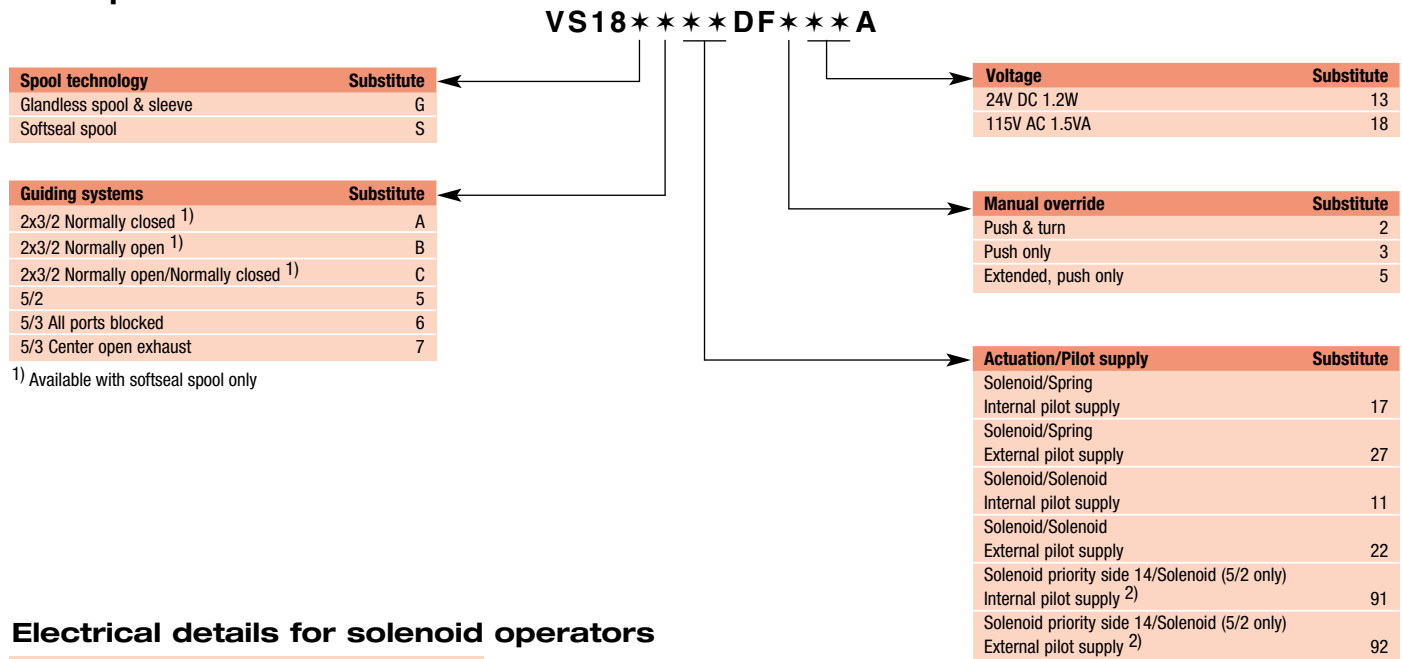
Valve functions designations:

APB = All ports blocked

COE = Centre open exhaust

Valves

Valve part no. breakdown



Electrical details for solenoid operators

Voltage tolerances	(24V DC) +/- 10%
Voltage tolerances	(115V AC) +15%/-10%
Rating	100 % Continuous duty
Inlet orifice	0.8 mm
Indication	LED green
Surge suppression	Transil diode
Materials	PPS (body), Viton and NBR (seal)

Protection classification (IP Code)

All VS18 valve islands fulfill IP65 and NEMA4 ratings.

PELV (Electrical protection class III)

All VS18 24V DC products are designed to be used with a protective extra low voltage (PELV) power supply.

UL approval

UL approval for Multipole and Fieldbus valve islands ongoing.
Please contact customer service for detailed information.

ATEX

ATEX category 3 approval for 24V DC Multipole and Fieldbus valve islands ongoing.
Please contact customer service for detailed information.

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.

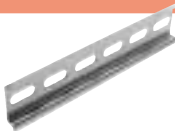
System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.

Valve Islands VS18 Series Plug-in Mini ISO Valves

2x3/2, 5/2 and 5/3 valves, ISO 15407-2, Size 18 mm

Accessories

DIN EN 50 022 rail (1 metre)		DIN-rail mounting kit	Blanking disc to modular sub-base	Manual override set-up kit	Spare valve identification labels ¹⁾
					
V10009-C00	35 x 7.5 mm	V70531-KA0	VS1872405-KF00 (Ports 1, 3, 5)	VS2672906-KG00	VS2672905-KG00 (10 pcs)
V10592-C01	35 x 15 mm		VS1872406-KF00 (Ports 12/14)		

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

Base accessories

Intermediate supply/exhaust module	Blanking plate
	
VS1872402-PF00 (NPTF1/8)	
VS1872402-AF00 (G1/8)	VS1872404-KF00

Sandwich plates

Single pressure regulator plate	Double pressure regulator plate	Flow control plate	Single valve shut-off plate
			
VS1872400-KF01 (port 1)	VS1872400-KF04 (port 2+4)	VS1872401-KF00	VS1872403-KF00
VS1872400-KF02 (port 2)			
VS1872400-KF03 (port 4)			

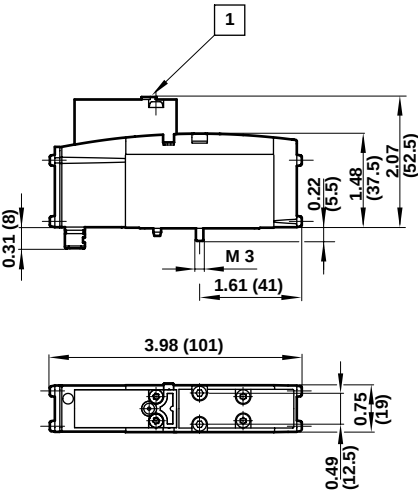
Sub-bases and end plates

Single station sub-base	Double station modular sub-base	Single station modular sub-base	End plate kit
			

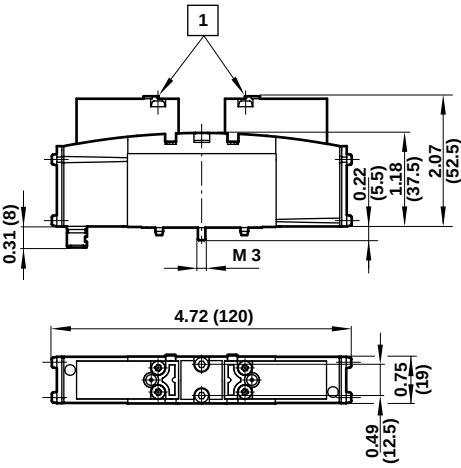
Valves

Valve dimensions

VS18*5*7DF*1*A models
5/2 Single solenoid pilot valve
Mechanical spring return



VS18****DF*1*A models
2x3/2, 5/2 and 5/3 Double solenoid pilot valve



1

Manual override

Valve Islands VS18 Series

Plug-in Mini ISO Valves

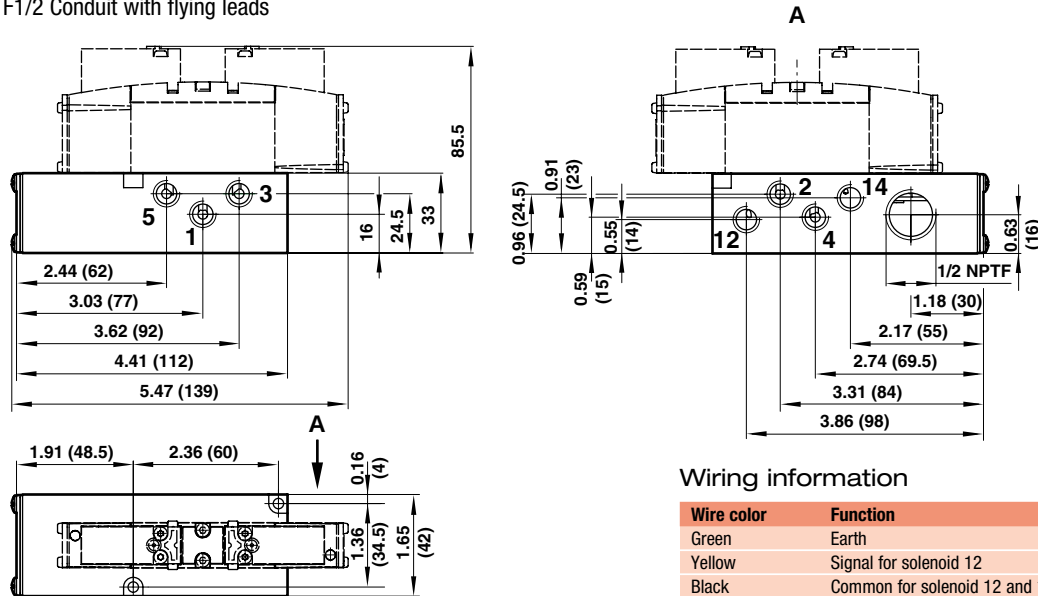
2x3/2, 5/2 and 5/3 valves, ISO 15407-2, Size 18 mm

Dimensions in inches (mm)

Single station sub-base

Model	Description	Ports 1, 3 & 5	Ports 12/14 & 82/84	Ports 2 & 4	Connector type
VS1872010-PF00	Single station sub-base for 24V DC	NPTF1/8	NPTF1/8	NPTF1/8	M12
VS1872011-PF00	Single station sub-base for 24V DC and 115V AC	NPTF1/8	NPTF1/8	NPTF1/8	NPTF1/2 conduit
VS1872010-AF00	Single station sub-base for 24V DC	G1/8	G1/8	G1/8	M12

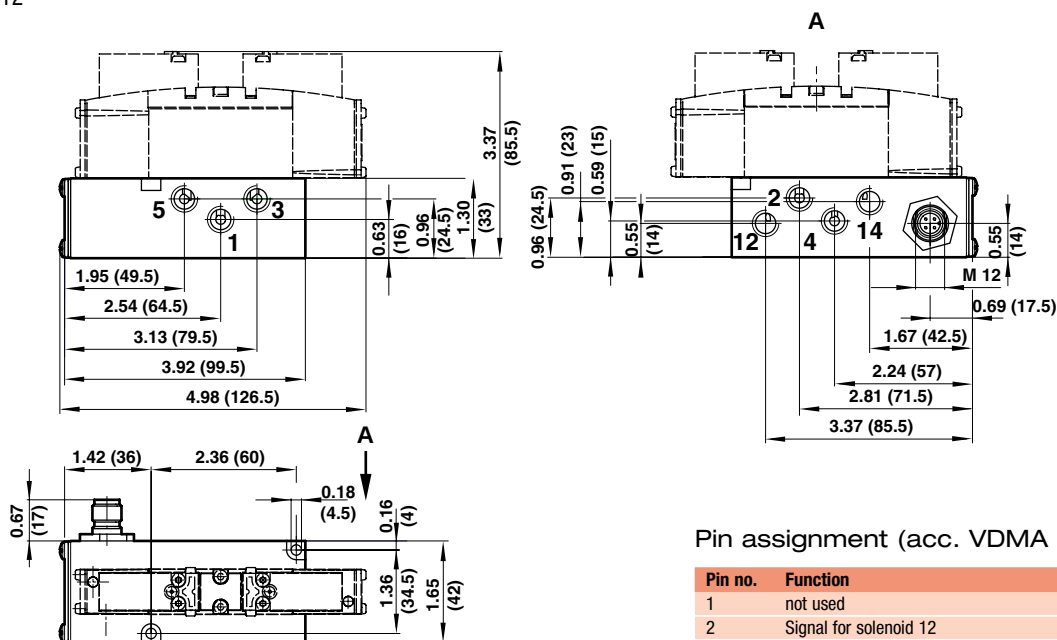
Connector type: NPTF1/2 Conduit with flying leads



Wiring information

Wire color	Function
Green	Earth
Yellow	Signal for solenoid 12
Black	Common for solenoid 12 and 14
Red	Signal for solenoid 14

Connector type: M12



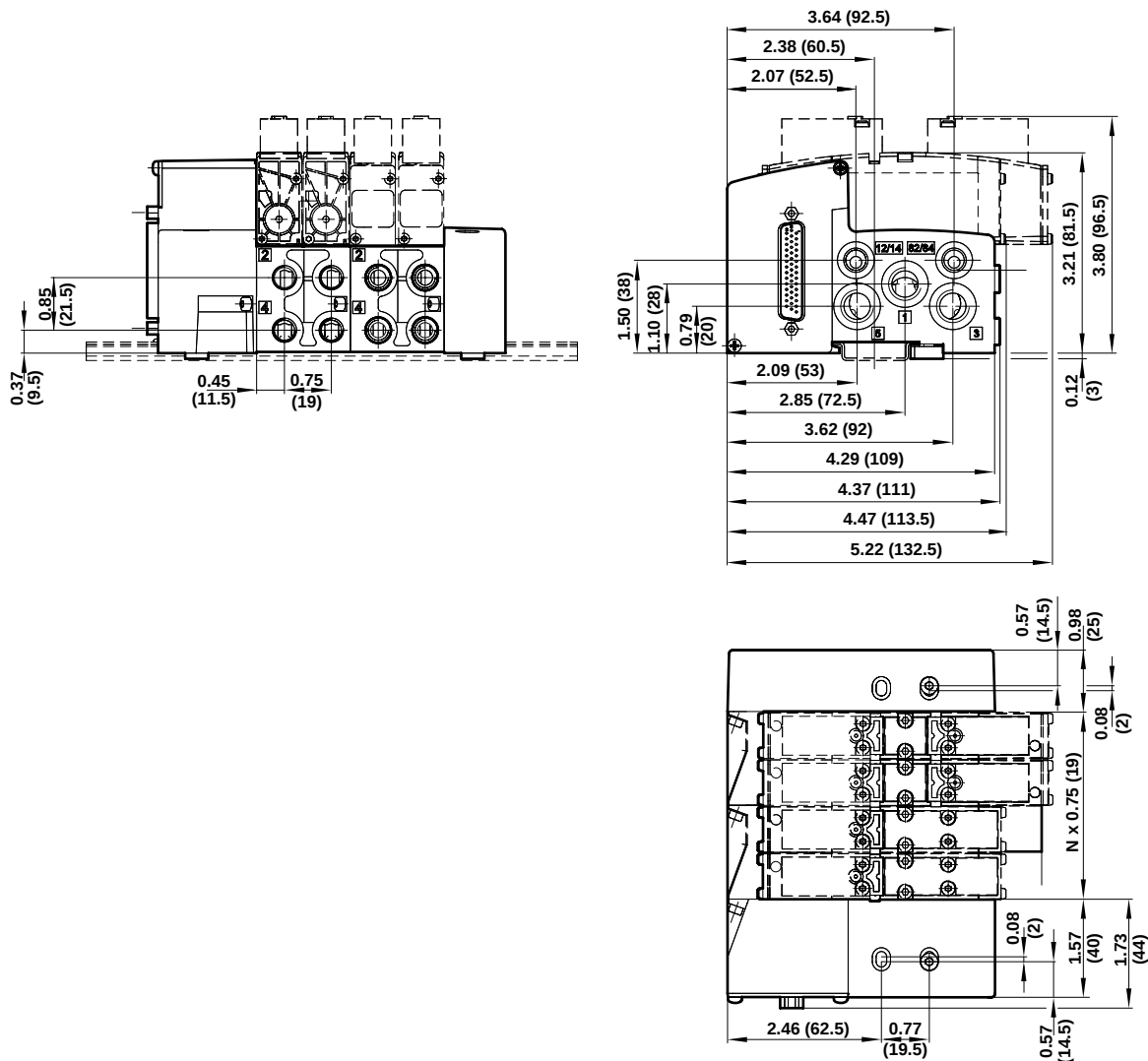
Pin assignment (acc. VDMA 24571)

Pin no.	Function
1	not used
2	Signal for solenoid 12
3	Common for solenoid 12 and 14
4	Signal for solenoid 14



Valves

Valve islands dimensions



Electrical connection	Min. no. of valve stations	Max. no. of valve stations
Multipole	2	16
AS-Interface	2	8
Other Fieldbus protocols	4	16

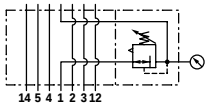
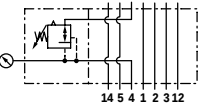
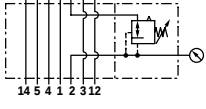
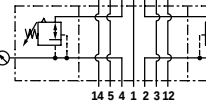
N Number of station

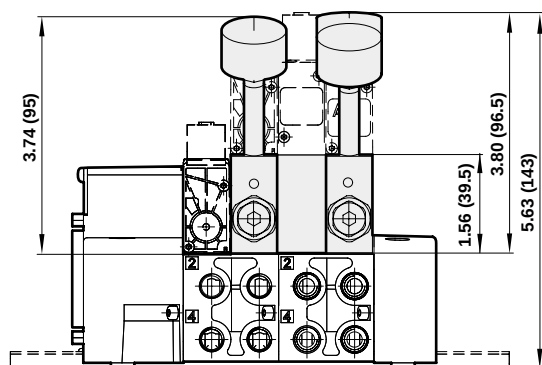
Valve Islands VS18 Series Plug-in Mini ISO Valves

2x3/2, 5/2 and 5/3 valves, ISO 15407-2, Size 18 mm

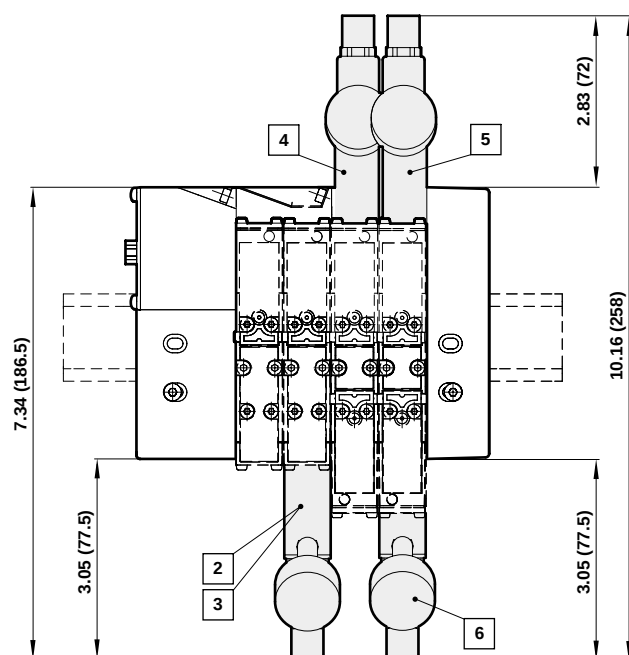
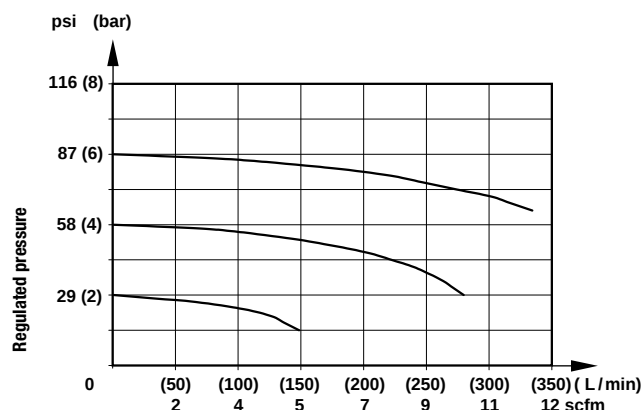
Sandwich plates

Pressure regulator sandwich plates

Symbol	Model	Description	Symbol	Model	Description
	VS1872400-KF10	Regulation of port 1, regulator on side 12		VS1872400-KF30	Regulation of port 4, regulator on side 14
	VS1872400-KF20	Regulation of port 2, regulator on side 12		VS1872400-KF40	Regulation of port 2+4



Flow characteristics for pressure regulator plates

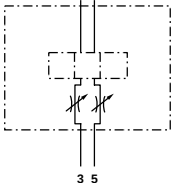


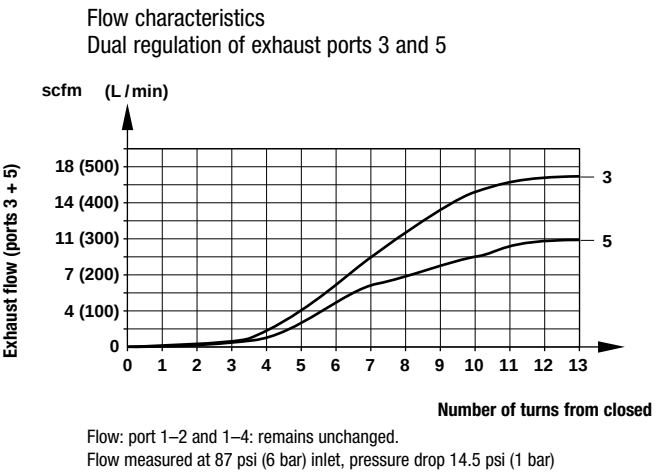
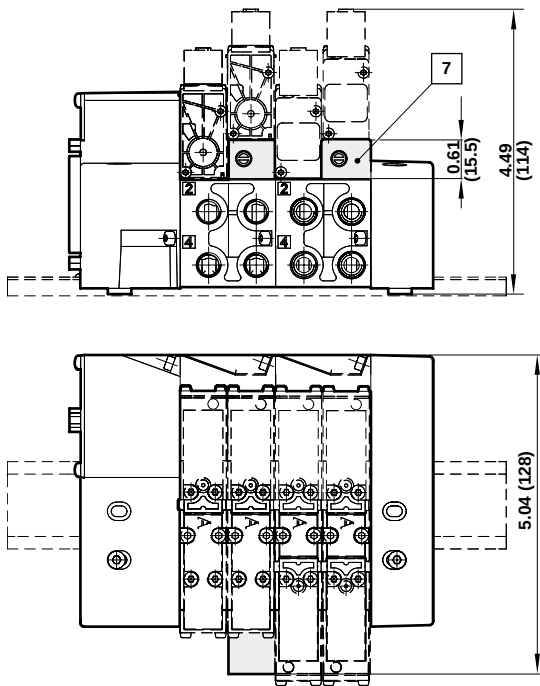
Spare part number for gauge = V70534-500

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

Sandwich plates

Flow regulator sandwich plate

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



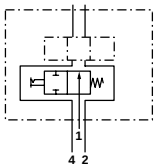
7 Flow regulator plate

Valve Islands VS18 Series Plug-in Mini ISO Valves

2x3/2, 5/2 and 5/3 valves, ISO 15407-2, Size 18 mm

Sandwich plates

Single valve shut-off plate

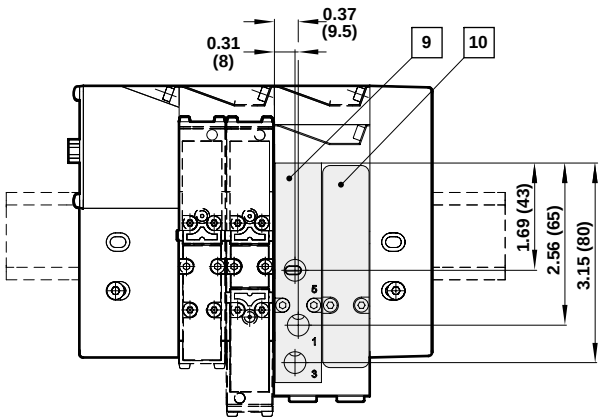
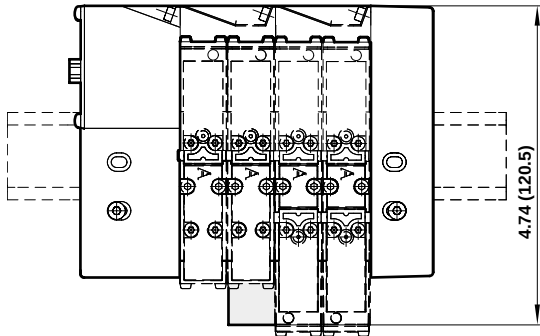
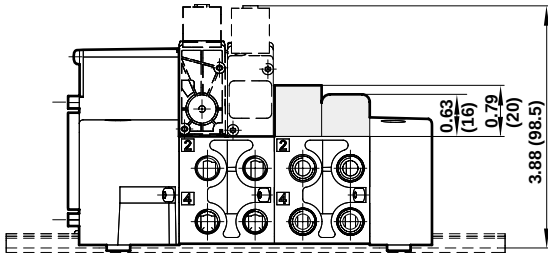
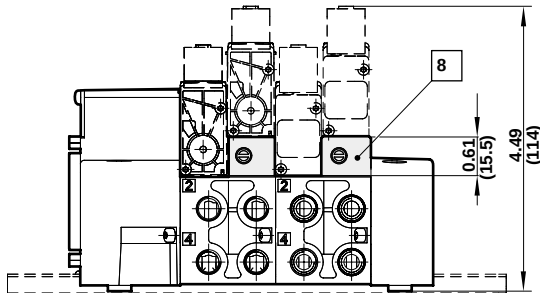
Symbol	Model	Description
	VS1872403-KF00	Single valve shut-off plate supplied with gasket

Base accessories

Model	Description
VS1872404-KF00	Blanking plate for blocking of unused stations (supplied with gasket)
VS1872403-PF00	Intermediate supply/exhaust module, port size NPTF1/8
VS1872402-AF00	Intermediate supply/exhaust module, port size G1/8

Allows individual exchange of valve while valve island is pressurised by port 1.

Flow restricted to max. 240 L/min.

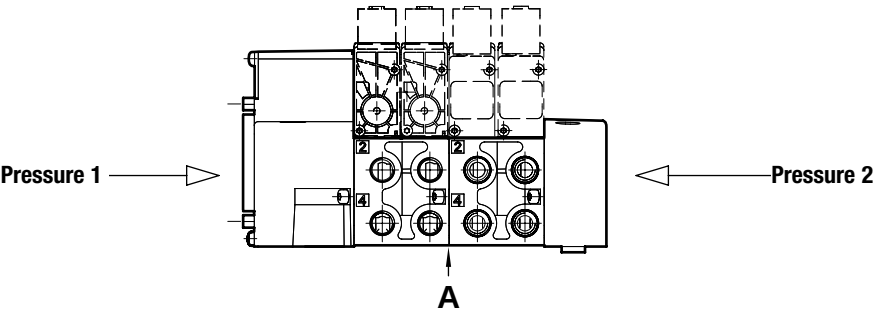


8	Single valve shut-off plate
9	Intermediate supply/exhaust module
10	Blanking plate

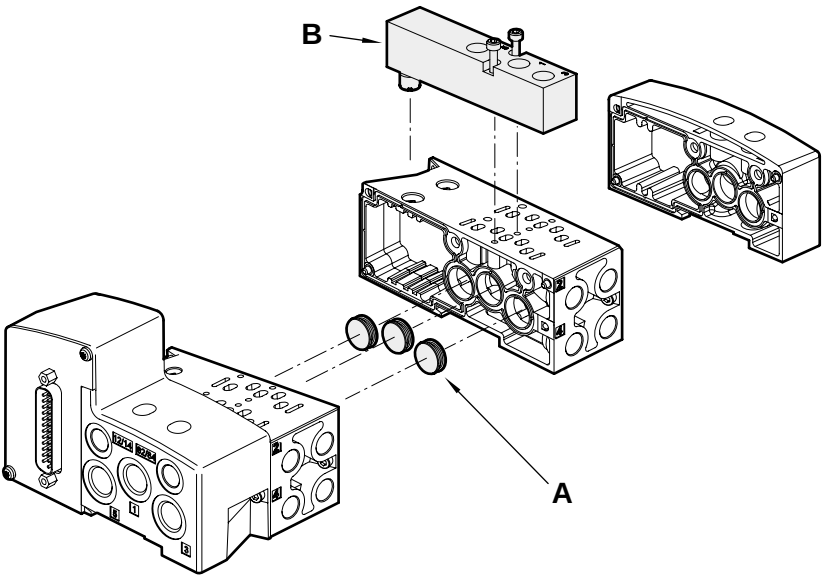
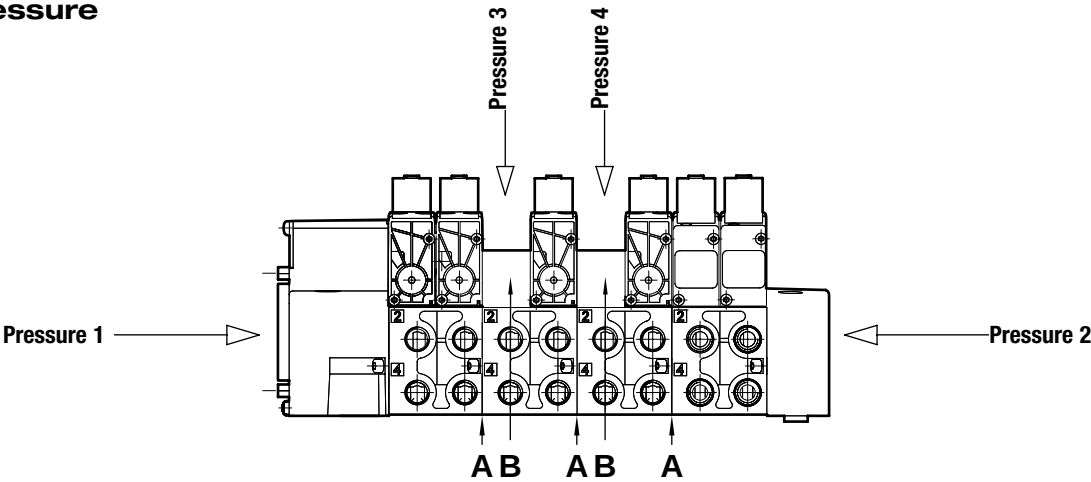
Multi pressure configurations

A		B	
Blanking disc	Type	Intermediate supply/exhaust module	Type
VS1872405-KF00	Suitable for ports 1, 3 or 5	VS1872402-PF00	NPTF1/8
		VS1872402-AF00	G1/8

Dual pressure



Multi pressure



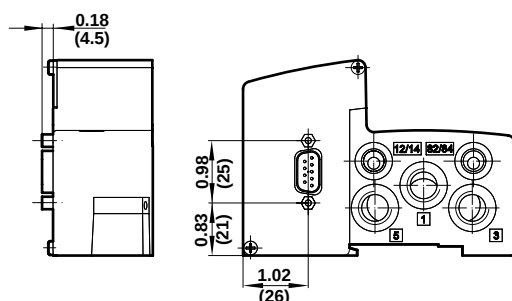
Valve Islands VS18 Series Plug-in Mini ISO Valves

2x3/2, 5/2 and 5/3 valves, ISO 15407-2, Size 18 mm

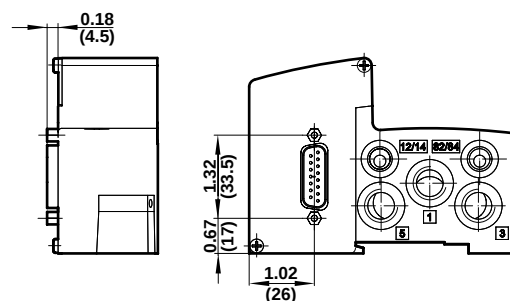
Multipole options

Connector type	Voltage	No. of stations	Max. no. coils
D-Sub 9-pin	24V DC	02/03/04	8
D-Sub 15-pin	24V DC	02/03/04/05/06/07	14
D-Sub 25-pin	24V DC	02/03/04/05/06/07/08/09/10/11/12	24
D-Sub 44-pin	24V DC	08/09/10/11/12/13/14/15/16	32
NPTF1 Conduit entry with terminals	115V AC, 24V DC	02/03/04/05/06/07/08/09/10/11/12	24

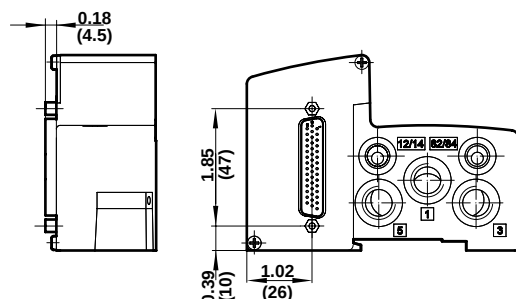
D-Sub 9-pin



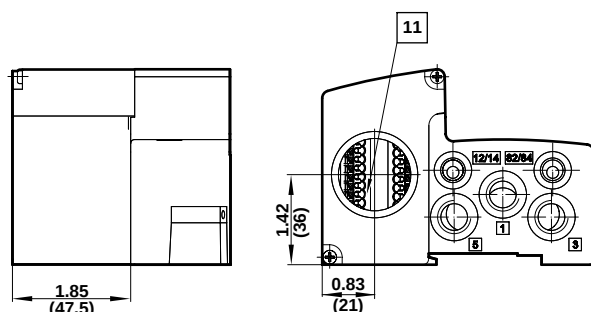
D-Sub 15-pin



D-Sub 25-pin / 44-pin



NPTF1 Conduit entry with terminals



11

Max. wire size AWG18

Multipole accessories

D-Sub connector 9-pin IP65 ¹⁾		D-Sub connector 15-pin IP65 ¹⁾		D-Sub connector 25-pin IP65 ¹⁾		D-Sub connector 44-pin IP65 ¹⁾	
							
VS2672910-KG00	1m	VS2672915-KG00	1m	V11569-E01	1m	V11570-E01	1m
VS2672911-KG00	3m	VS2672916-KG00	3m	V11569-E03	3m	V11570-E03	3m
VS2672912-KG00	5m	VS2672917-KG00	5m	V11569-E05	5m	V11570-E05	5m

¹⁾ Required for ATEX

D-Sub connector 9-pin ¹⁾

Pin no.	Wire colour	Socket	Pilot	Station
1	White	Solenoid 1-a	14	1
2	Brown	Solenoid 2-a	14	2
3	Green	Solenoid 3-a	14	3
4	Yellow	Solenoid 4-a	14	4
5	Grey	Solenoid 1-b	12	1
6	Pink	Solenoid 2-b	12	2
7	Blue	Solenoid 3-b	12	3
8	Red	Solenoid 4-b	12	4
9	Black	Common	-	-

D-Sub connector 25-pin ¹⁾

Pin no.	Wire colour	Socket	Pilot	Station
1	White	Solenoid 1-a	14	1
2	Brown	Solenoid 2-a	14	2
3	Green	Solenoid 3-a	14	3
4	Yellow	Solenoid 4-a	14	4
5	Grey	Solenoid 5-a	14	5
6	Pink	Solenoid 6-a	14	6
7	Blue	Solenoid 7-a	14	7
8	Red	Solenoid 8-a	14	8
9	Black	Solenoid 9-a	14	9
10	Violet	Solenoid 10-a	14	10
11	Grey/Pink	Solenoid 11-a	14	11
12	Red/Blue	Solenoid 12-a	14	12
13	White/Green	Common	-	-
14	Brown/Green	Solenoid 1-b	12	1
15	White/Yellow	Solenoid 2-b	12	2
16	Yellow/Brown	Solenoid 3-b	12	3
17	White/Grey	Solenoid 4-b	12	4
18	Grey/Brown	Solenoid 5-b	12	5
19	White/Pink	Solenoid 6-b	12	6
20	Pink/Brown	Solenoid 7-b	12	7
21	White/Blue	Solenoid 8-b	12	8
22	Brown/Blue	Solenoid 9-b	12	9
23	White/Red	Solenoid 10-b	12	10
24	Brown/Red	Solenoid 11-b	12	11
25	White/Black	Solenoid 12-b	12	12

D-Sub connector 15-pin ¹⁾

Pin no.	Wire colour	Socket	Pilot	Station
1	White	Solenoid 1-a	14	1
2	Brown	Solenoid 2-a	14	2
3	Green	Solenoid 3-a	14	3
4	Yellow	Solenoid 4-a	14	4
5	Grey	Solenoid 5-a	14	5
6	Pink	Solenoid 6-a	14	6
7	Blue	Solenoid 7-a	14	7
8	Red	Solenoid 1-b	12	1
9	Black	Solenoid 2-b	12	2
10	Violet	Solenoid 3-b	12	3
11	Grey/Pink	Solenoid 4-b	12	4
12	Red/Blue	Solenoid 5-b	12	5
13	White/Green	Solenoid 6-b	12	6
14	Brown/Green	Solenoid 7-b	12	7
15	White/Yellow	Common	-	-

¹⁾ According to DIN 47100

Valve Islands VS18 Series Plug-in Mini ISO Valves

2x3/2, 5/2 and 5/3 valves, ISO 15407-2, Size 18 mm

D-Sub connector 44-pin ¹⁾

Pin no.	Wire colour	Socket	Pilot	Station
1	White	Solenoid 1-a	14	1
2	Brown	Solenoid 2-a	14	2
3	Green	Solenoid 3-a	14	3
4	Yellow	Solenoid 4-a	14	4
5	Grey	Solenoid 5-a	14	5
6	Pink	Solenoid 6-a	14	6
7	Blue	Solenoid 7-a	14	7
8	Red	Solenoid 8-a	14	8
9	Black	Solenoid 9-a	14	9
10	Violet	Solenoid 10-a	14	10
11	Grey/Pink	Solenoid 11-a	14	11
12	Red/Blue	Solenoid 12-a	14	12
13	White/Green	Solenoid 13-a	14	13
14	Brown/Green	Solenoid 14-a	14	14
15	White/Yellow	Solenoid 15-a	14	15
16	Yellow/Brown	Solenoid 1-b	12	1
17	White/Grey	Solenoid 2-b	12	2
18	Grey/Brown	Solenoid 3-b	12	3
19	White/Pink	Solenoid 4-b	12	4
20	Pink/Brown	Solenoid 5-b	12	5
21	White/Blue	Solenoid 6-b	12	6
22	Brown/Blue	Solenoid 7-b	12	7
23	White/Red	Solenoid 8-b	12	8
24	Brown/Red	Solenoid 9-b	12	9
25	White/Black	Solenoid 10-b	12	10
26	Brown/Black	Solenoid 11-b	12	11
27	Grey/Green	Solenoid 12-b	12	12
28	Yellow/Grey	Solenoid 13-b	12	13
29	Pink/Green	Solenoid 14-b	12	14
30	Yellow/Pink	Solenoid 15-b	12	15
31	Green/Blue	Solenoid 16-a	14	16
32	Yellow/Blue	Solenoid 16-b	12	16
33	Green/Red	NOT USED	-	-
34	Yellow/Red	NOT USED	-	-
35	Green/Black	NOT USED	-	-
36	Yellow/Black	NOT USED	-	-
37	Grey/Blue	NOT USED	-	-
38	Pink/Blue	NOT USED	-	-
39	Grey/Red	NOT USED	-	-
40	Pink/Red	NOT USED	-	-
41	Grey/Black	NOT USED	-	-
42	Pink/Black	NOT USED	-	-
43	Blue/Black	Common	-	-
44	Red/Black	Common	-	-

¹⁾ According to DIN 47100

NPTF1 Conduit entry with terminals ²⁾

Clamp no.	Socket	Pilot	Station
C1	Solenoid 1-a	14	1
C2	Solenoid 2-a	14	2
C3	Solenoid 3-a	14	3
C4	Solenoid 4-a	14	4
C5	Solenoid 5-a	14	5
C6	Solenoid 6-a	14	6
C7	Solenoid 7-a	14	7
C8	Solenoid 8-a	14	8
C9	Solenoid 9-a	14	9
C10	Solenoid 10-a	14	10
C11	Solenoid 11-a	14	11
C12	Solenoid 12-a	14	12
C13	Solenoid 1-b	12	1
C14	Solenoid 2-b	12	2
C15	Solenoid 3-b	12	3
C16	Solenoid 4-b	12	4
C17	Solenoid 5-b	12	5
C18	Solenoid 6-b	12	6
C19	Solenoid 7-b	12	7
C20	Solenoid 8-b	12	8
C21	Solenoid 9-b	12	9
C22	Solenoid 10-b	12	10
C23	Solenoid 11-b	12	11
C24	Solenoid 12-b	12	12
C25	Common	-	-
C26	Common	-	-
C27	Earth	-	-
C28	Earth	-	-

²⁾ Max. wire size AWG18



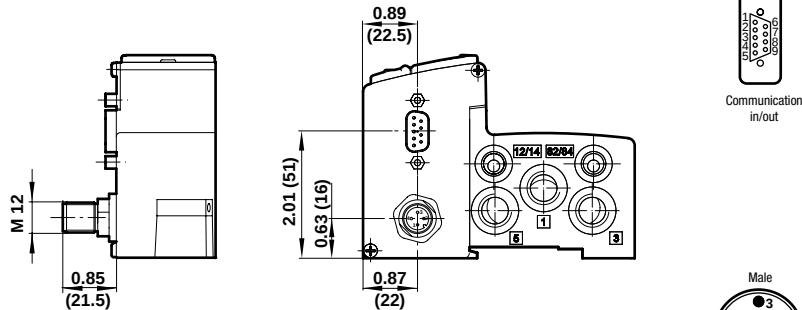
Fieldbus options: Overview

Fieldbus protocol	Fieldbus interface/connector	Supply voltage connector (Fieldbus and valves)	No. of stations	Max. no. coils
Profibus DP	1 x D-Sub 9-pin	M12 4-pin	04/05/06/07/08/09/10/11/12/13/14/15/16	32
	2 x M12 5-pin	M12 4-pin	04/05/06/07/08/09/10/11/12/13/14/15/16	32
	2 x M12 5-pin	7/8 5-pin	04/05/06/07/08/09/10/11/12/13/14/15/16	32
Interbus-S	2 x D-Sub 9-pin	M12 4-pin	04/05/06/07/08/09/10/11/12/13/14/15/16	32
AS-Interface - Single slave	1 x M12 4-pin	M12 4-pin	02/03/04	4
AS-Interface - Double slave	1 x M12 4-pin	M12 4-pin	04/05/06/07/08	8
DeviceNet	1 x M12 5-pin	M12 4-pin	04/05/06/07/08/09/10/11/12/13/14/15/16	32
CANopen	1 x M12 5-pin	M12 4-pin	04/05/06/07/08/09/10/11/12/13/14/15/16	32
AB RIO	2 x M12 5-pin	M12 4-pin	04/05/06/07/08/09/10/11/12/13/14/15/16	32

For parts and assembly instructions of Fieldbus components, consult our technical service.

Fieldbus protocol: Profibus DP

Connector: 1 x D-Sub 9-pin / M12 4-pin



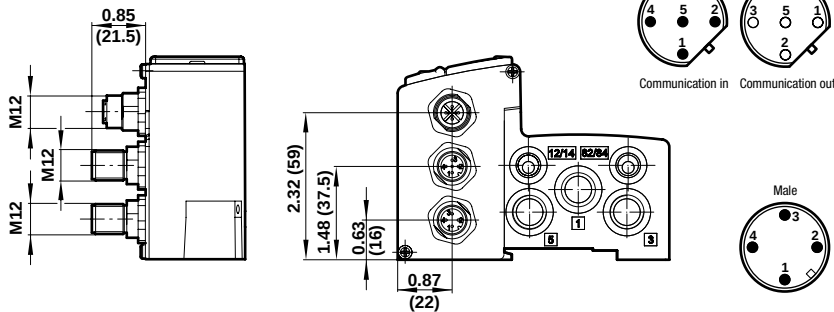
Bus connector: D-Sub 9-pin

Pin no.	Function
1	Shield
2	N/C
3	B-line (red) Rx/D / Tx-D-P
4	N/C
5	DGND (0V) isolated
6	VP (5V) isolated
7	N/C
8	A-line (green) Rx/D / Tx-D-N
9	N/C

Power connector: M12 4-pin

Pin no.	Function	Tolerance	Max. current
1	24 VB logic circuit supply +/-25%		300 mA
2	24 VA valves +/-10%		1)
3	0 volts -		2)
4	Earth -		-

Connector: 2 x M12 5-pin / M12 4-pin



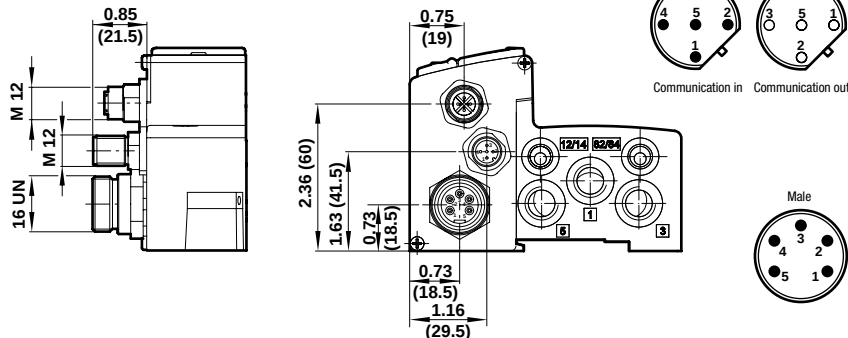
Bus connector: M12 5-pin (B-coded)

Pin no.	Function
1	5V I/O isolated
2	A-line (green)
3	OVI isolated
4	B-line (red)
5	Shield
Threaded joint	Shield

Power connector: M12 4-pin

Pin no.	Function	Tolerance	Max. current
1	24 VB logic circuit supply +/-25%		300 mA
2	24 VA valves +/-10%		1)
3	0 volts -		2)
4	Earth -		-

Connector: 2 x M12 5-pin / 7/8 5-pin



Bus connector: M12 5-pin (B-coded)

Pin no.	Function
1	5V isolated
2	A-line (green)
3	OVI isolated
4	B-line (red)
5	Shield
Threaded joint	Shield

Power connector: 7/8 5-pin

Pin no.	Function	Tolerance	Max. current
1	-	-	-
2	0 volts	-	2)
3	Earth	-	-
4	24 VA valves +/-10%		1)
5	24 VB logic circuit supply +/-25%		300 mA

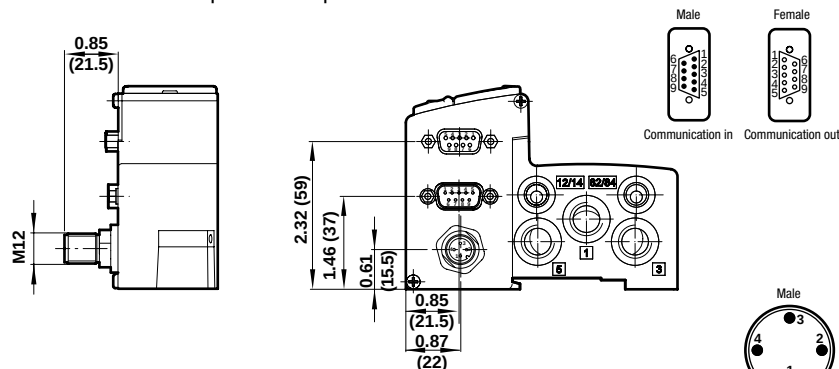
- 1) $I_{\max} = 10 \text{ mA} + n \cdot 60 \text{ mA}$
 n = number of energized solenoids
 2) $I_{\max} = I_{VA} + I_{VB}$

Valve Islands VS18 Series Plug-in Mini ISO Valves

2x3/2, 5/2 and 5/3 valves, ISO 15407-2, Size 18 mm

Fieldbus protocol: Interbus-S

Connector: 2 x D-Sub 9-pin / M12 4-pin



Bus connector: D-Sub 9-pin

Pin no.	Function Male	Function Female
1	DO	DO
2	DI	DI
3	OVI	OVI
4	—	—
5	—	+5Vl
6	/DO	/DO
7	/DI	/DI
8	—	—
9	—	RBST

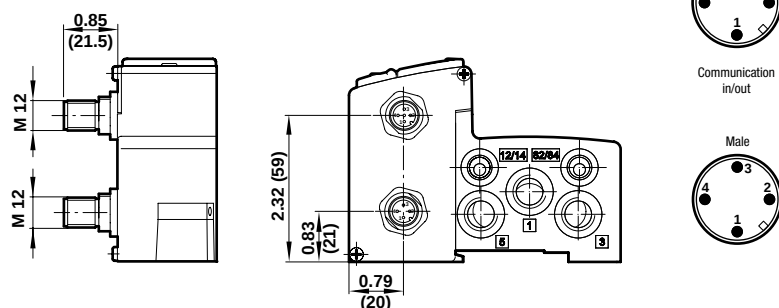
Power connector: M12 4-pin

Pin no.	Function	Tolerance	Max. current
1	24 VB logic circuit supply	+/-25%	300 mA
2	24 VA valves	+/-10%	1)
3	0 volts	—	2)
4	Earth	—	—



Fieldbus protocol: AS-Interface

Connector: 1 x M12 / M12 4-pin



Bus connector: M12 4-pin

Pin no.	Function	Max. current
1	AS-I	3)
2	—	—
3	AS-I	—
4	—	—

Power connector: M12 4-pin

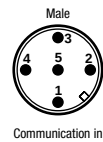
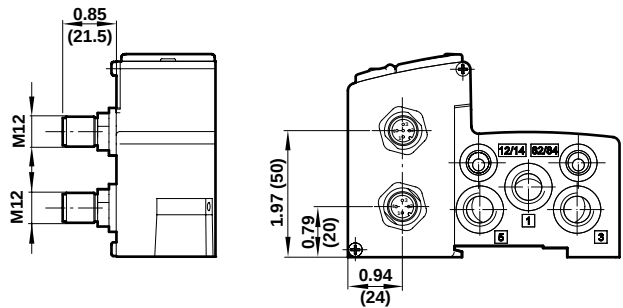
Pin no.	Function	Tolerance	Max. current
1	+24 V DC	+/-10%	4)
2	—	—	—
3	0 volts	—	—
4	—	—	—

- 1) $I_{\max} = 10 \text{ mA} + n \cdot 60 \text{ mA}$
n = number of energized solenoids
- 2) $I_{\max} = I_{VA} + I_{VB}$
- 3) Single slave: 40 mA
Double slave: 75 mA
- 4) Single slave:
 $I_{\max} = 20 \text{ mA} + n \cdot 60 \text{ mA}$
Double slave:
 $I_{\max} = 35 \text{ mA} + n \cdot 60 \text{ mA}$
n = number of energized solenoids

Valves

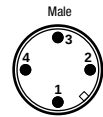
Fieldbus protocol: DeviceNet

Connector: 1 x M12 5-pin / M12 4-pin



Bus connector: M12 5-pin (A-coded)

Pin no.	Function
1	Drain
2	V+
3	V-
4	CAN_H
5	CAN_L

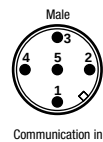
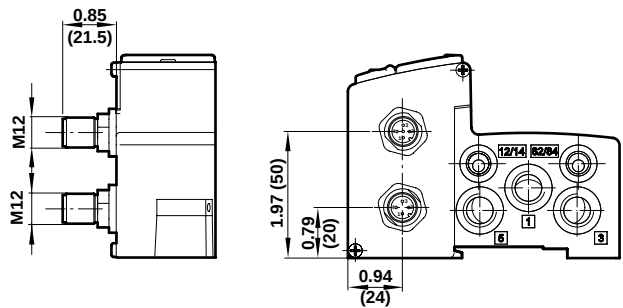


Power connector: M12 4-pin

Pin no.	Function	Tolerance	Max. current
1	24 VB logic circuit supply	+/-25%	300 mA
2	24 VA valves	+/-10%	1)
3	0 volts	-	2)
4	Earth	-	-

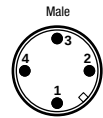
Fieldbus protocol: CANopen

Connector: 1 x M12 5-pin / M12 4-pin



Bus connector: M12 5-pin (A-coded)

Pin no.	Function
1	Drain
2	V+
3	V-
4	CAN_H
5	CAN_L

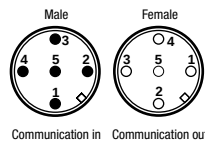
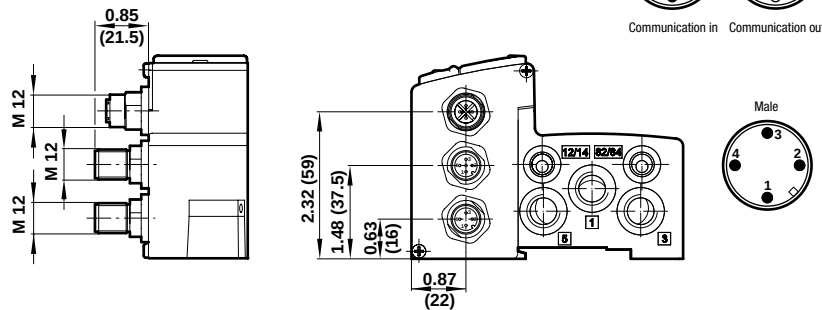


Power connector: M12 4-pin

Pin no.	Function	Tolerance	Max. current
1	24 VB logic circuit supply	+/-25%	300 mA
2	24 VA valves	+/-10%	1)
3	0 volts	-	2)
4	Earth	-	-

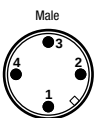
Fieldbus protocol: AB RIO

Connector: 2 x M12 5-pin / M12 5-pin



Bus connector: M12 5-pin (A-coded)

Pin no.	Function
1	RIO 1
2	-
3	RIO 2
4	-
5	RIO SH



Power connector: M12 4-pin

Pin no.	Function	Tolerance	Max. current
1	24 VB logic circuit supply	+/-25%	300 mA
2	24 VA valves	+/-10%	1)
3	0 volts	-	2)
4	Earth	-	-

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

Fieldbus accessories

Symbol	Model	Description	Connection	Cable length	Protection class
Fieldbus power connector					
 	V11588-E01	Profibus DP (4-pin, female) Interbus-S (4-pin, female) DeviceNet (4-pin, female) CANopen (4-pin, female) AB RIO (4-pin, female)	M12	Wireable	IP65 Required for ATEX
	VS2672907-KG00	Profibus DP (5-pin, female)	7/8	Wireable	IP65 Required for ATEX
Communication cable and connector					
           	V11589-E01	DeviceNet (5-pin, female) CANopen (5-pin, female) AB RIO (5-pin, female)	M12	Wireable	IP65 Required for ATEX
	VE1FBCRS-M125P	AB RIO (5-pin, male)	M12	Wireable	IP65 Required for ATEX
	V11590-E01	Profibus DP, reverse keyway (5-pin, male)	M12	Wireable	IP65 Required for ATEX
	V11591-E01	Profibus DP, reverse keyway (5-pin, female)	M12	Wireable	IP65 Required for ATEX
	V11654-E01	Profibus DP connector (9-pin, male) with terminating resistor	D-Sub	Wireable	IP40
	V11592-E01	Profibus DP terminating resistor (male)	M12	—	IP65 Required for ATEX
	VE1ASCN1-M1200	AS-Interface power or communications (4-pin, female)	M12	Wireable	IP65 Required for ATEX
	VE2FBC9P-9S010 VE2FBC9P-9S030 VE2FBC9P-9S050	Interbus-S (9-pin)	D-Sub	1m 3m 5m	IP65 Required for ATEX
	VE2FBC9P-00000	Interbus-S (9-pin, male)	D-Sub	Wireable	IP65 Required for ATEX
	VE2FBC9S-00000	Interbus-S (9-pin, female)	D-Sub	Wireable	IP65 Required for ATEX
	V11340-E03	Interbus-S terminating connector (9-pin, male)	D-Sub	—	IP65 Required for ATEX

Worksheet VS18 Series (Please mark the corresponding boxes and fax the sheet to Norgren customer service)

Valves



		Station																	
		G	S	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Valves	2 x 3/2 Sol/Spring NC		X																
	2 x 3/2 Sol/Spring NO (5/3 COP)		X																
	2 x 3/2 Sol/Spring NO/NC		X																
	5/2 Sol/Spring																		
	5/2 Sol/Sol																		
	5/2 Sol priority side 14/Sol		X																
	5/3 APB Sol/Sol																		
	5/3 COE Sol/Sol																		
	Intermediate supply/exhaust module G1/4																		
	Intermediate supply/exhaust module NPTF1/4																		
Base accessories (optional)	Blanking plate																		
	Pressure regulator, port 1																		
	Pressure regulator, port 2																		
	Pressure regulator, port 4																		
	Pressure regulator, port 2+4																		
Sandwich plates (optional)	Flow regulator, port 3 + 5																		
	Single valve shut-off plate, port 1																		
	G1/8																		
	NPTF1/8																		
	PIF 8 mm																		
Outlet port size in sub-base	PIF 6 mm																		
	PIF 1/4																		
	Port 1																		
	Port 3 + 5																		
	Port 1 + 3 + 5																		

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

Part no of configured valve island:
V S 18 ____ _
(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)

ATEX approval (24V DC)

☐ Yes (requires use of approved VS18 connectors)

Manual override (all valves)

☐ Push only

☐ Push & turn

☐ Extended, push only

☐ Mixed (please specify in notes)

End plate kit

☐ G1/4

☐ NPTF1/4

Multipole connectors (voltage)

☐ 9-pin D-Sub (24V DC)

☐ 15-pin D-Sub (24V DC)

☐ 25-pin D-Sub (24V DC)

☐ 44-pin D-Sub (24V DC)

☐ NPTF1 Conduit entry (24V DC and 115V AC)

Multipole accessories

☐ Connector with cable 1m

☐ Connector with cable 3m

☐ Connector with cable 5m

Fieldbus options (24V DC)

☐ Profibus DP: 1 x D-Sub 9-pin / M12 4-pin

☐ Profibus DP: 2 x M12 5-pin / M12 4-pin

☐ Profibus DP: 2 x M12 5-pin / 7/8 5-pin

☐ Interbus-S: 2 x D-Sub 9-pin / M12 4-pin

☐ AS-Interface: 1 x M12 4-pin / M12 4-pin

☐ DeviceNet: 1 x M12 5-pin / M12 4-pin

☐ CANopen: 1 x M12 5-pin / M12 4-pin

☐ AB RIO: 2 x M12 5-pin / M12 4-pin

Accessories

☐ DIN-rail 1m (35 x 7.5mm)

☐ DIN-rail 1m (35 x 15mm)

☐ DIN-rail mounting kit (1 per valve island)

☐ Manual override set-up kit: quantity _____

Valve Islands VS18 Series Plug-in Mini ISO Valves

2x3/2, 5/2 and 5/3 valves, ISO 15407-2, Size 18 mm

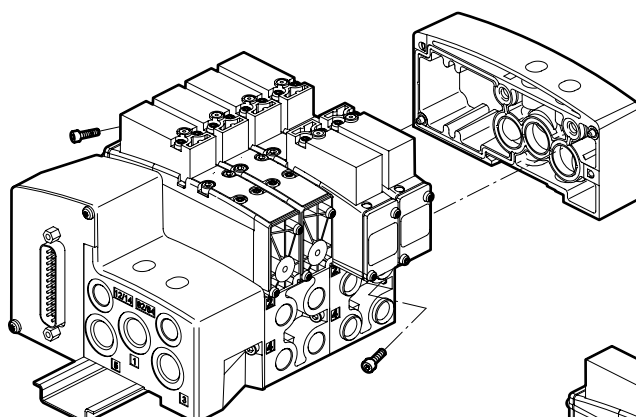
A - Single add-on stations

including PCB, sub-base, gasket and screws

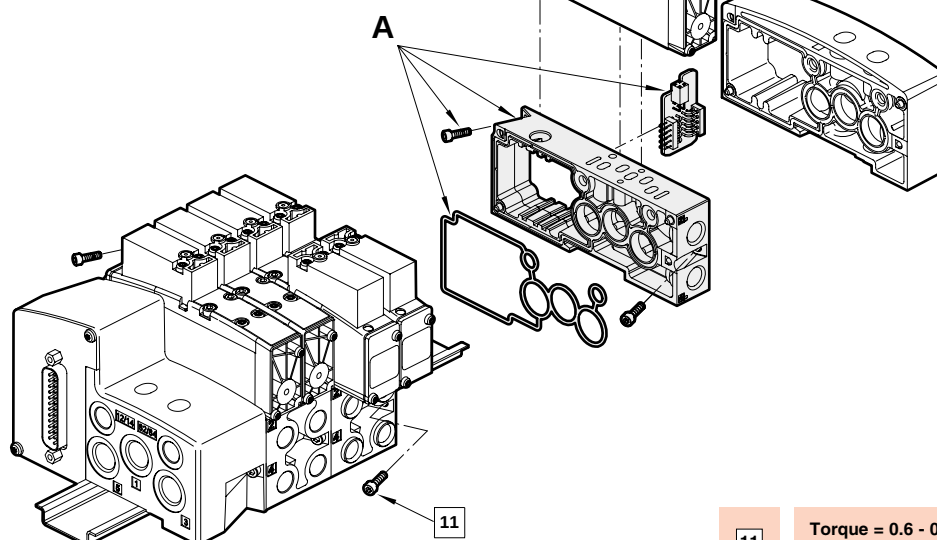
Model	Description	Ports 2 & 4
VS1872004-AFF0	Add-on station for D-Sub connectors and Fieldbus	G1/8
VS1872004-PFF0	Add-on station for D-Sub connectors and Fieldbus	NPTF1/8
VS1872004-8FF0	Add-on station for D-Sub connectors and Fieldbus	PIF8 mm
VS1872004-6FF0	Add-on station for D-Sub connectors and Fieldbus	PIF6 mm
VS1872004-1FF0	Add-on station for D-Sub connectors and Fieldbus	PIF1/4
VS1872005-AFF0	Add-on station for Conduit entry	G1/8
VS1872005-PFF0	Add-on station for Conduit entry	NPTF1/8
VS1872005-8FF0	Add-on station for Conduit entry	PIF8 mm
VS1872005-6FF0	Add-on station for Conduit entry	PIF6 mm
VS1872005-1FF0	Add-on station for Conduit entry	PIF1/4

Valves and accessories to be ordered separately

Step 1



Step 2



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Torque = 0.6 - 0.7 ft lbs. (0.8 - 0.9 Nm)
Screw driver speed = max. 1100 r.p.m.

For detailed assembly instructions, please see maintenance & instruction booklet!

Multipole components

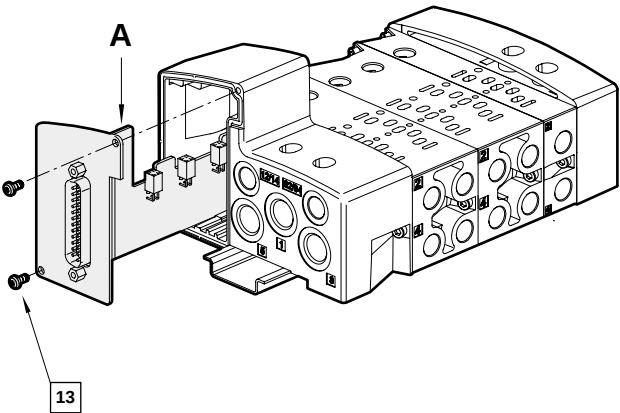
A – Output boards with D-Sub connectors

Model	Connector type	Description	Expandable to max. x no. of stations 1)	Voltage
VS1872217-KF00	D-Sub 9-pin	Multipole PCB 2 stations	4	24V DC
VS1872218-KF00	D-Sub 15-pin	Multipole PCB 2 stations	6	24V DC
VS1872205-KF00	D-Sub 15-pin	Multipole PCB 4 stations	7	24V DC
VS1872219-KF00	D-Sub 25-pin	Multipole PCB 2 stations	6	24V DC
VS1872200-KF00	D-Sub 25-pin	Multipole PCB 4 stations	8	24V DC
VS1872201-KF00	D-Sub 25-pin	Multipole PCB 6 stations	10	24V DC
VS1872202-KF00	D-Sub 25-pin	Multipole PCB 8 stations	12	24V DC
VS1872203-KF00	D-Sub 44-pin	Multipole PCB 8 stations	12	24V DC
VS1872206-KF00	D-Sub 44-pin	Multipole PCB 10 stations	14	24V DC
VS1872204-KF00	D-Sub 44-pin	Multipole PCB 12 stations	16	24V DC

1) By using below expansion output boards.

Expansion output boards for D-Sub connectors

Model	Description	Voltage
VS1872255-KF00	Multipole PCB 1 station	24V DC
VS1872213-KF00	Multipole PCB 2 stations	24V DC



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Torque = 0.6 - 0.7 ft lbs. (0.8 - 0.9 Nm)
Screw driver speed = max. 1100 r.p.m

Valve Islands VS18 Series Plug-in Mini ISO Valves

2x3/2, 5/2 and 5/3 valves, ISO 15407-2, Size 18 mm

Multipole components

A – Connector-kit for conduit entry

Model	Description	Voltage
VS2672742-KG00	E-Connector-kit NPTF1 Conduit entry	115V AC, 24V DC

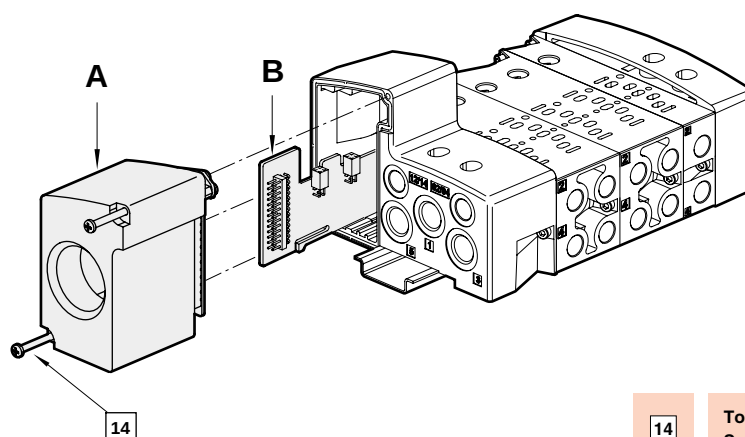
B – Output boards for conduit entry

Model	Description	Expandable to max. x no. of stations ¹⁾	Voltage
VS1872208-KF00	Multipole PCB 2 stations	6	115V AC, 24V DC
VS1872209-KF00	Multipole PCB 4 stations	8	115V AC, 24V DC
VS1872210-KF00	Multipole PCB 6 stations	10	115V AC, 24V DC
VS1872211-KF00	Multipole PCB 8 stations	12	115V AC, 24V DC

¹⁾ By using below expansion output boards.

Expansion output boards for conduit entry

Model	Description	Voltage
VS1872256-KF00	Multipole PCB 1 station	115V AC, 24V DC
VS1872215-KF00	Multipole PCB 2 stations	115V AC, 24V DC



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Torque = 0.6 - 0.7 ft lbs. (0.8 - 0.9 Nm)
Screw driver speed = max. 1100 r.p.m

For detailed assembly instructions, please see maintenance & instruction booklet!