

# Valve Manifolds VS18 Series

## Plug-in Mini ISO Valves

2x2/2, 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

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

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

#### 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	2x2/2	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

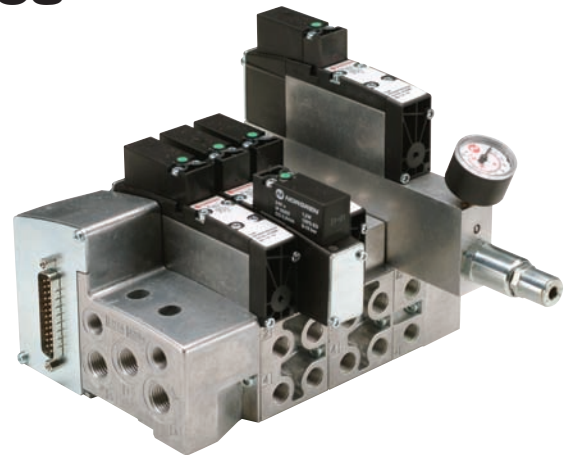
Mounting sheets / screws: steel, zinc coated

Springs: stainless steel

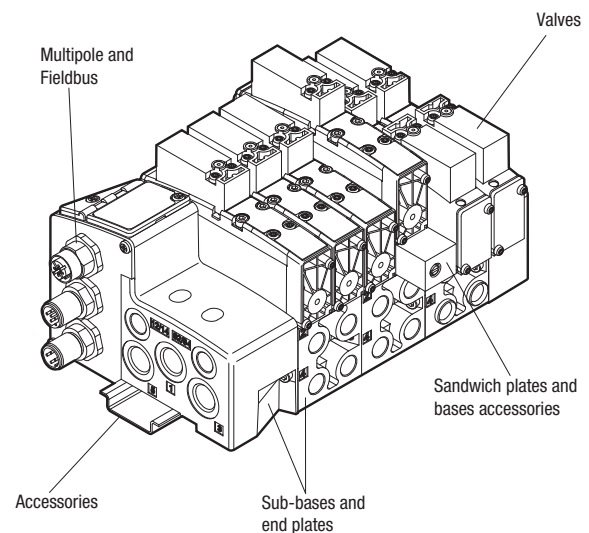
Sandwich plates: aluminum bar material

Electrical contacts: brass, tin/gold coated

PCB: glasepoxy



To order please use valve island configurator available at [www.norgren.com](http://www.norgren.com)  
 Alternatively contact Norgren for a configurator on CD or use our worksheet.

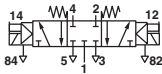
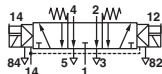
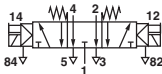
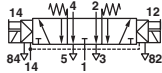


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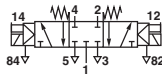
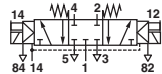
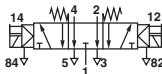
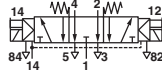
## Plug-in Mini ISO Valves

2x2/2, 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 psi (bar)	Operating pressure psi (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
	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
	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 psi (bar)	Operating pressure psi (bar)	Manual override	Volatage
	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	-	36 to 145 (2.5 to 10)	Push only	24V DC 1.2W
	VS18S711DF318A	COE	Sol/sol	Internal	-	36 to 145 (2.5 to 10)	Push only	115V AC 1.5VA
	VS18S711DF213A	COE	Sol/sol	Internal	-	36 to 145 (2.5 to 10)	Push & turn	24V DC 1.2W
	VS18S711DF218A	COE	Sol/sol	Internal	-	36 to 145 (2.5 to 10)	Push & turn	115V AC 1.5VA
	VS18S711DF513A	COE	Sol/sol	Internal	-	36 to 145 (2.5 to 10)	Extended, push only	24V DC 1.2W
	VS18S711DF518A	COE	Sol/sol	Internal	-	36 to 145 (2.5 to 10)	Extended, push only	115V AC 1.5VA
	VS18S722DF313A	COE	Sol/sol	External	36 to 145 (2.5 to 10)	26" Hg to 145 (-0.9 to 10)	Push only	24V DC 1.2W
	VS18S722DF318A	COE	Sol/sol	External	36 to 145 (2.5 to 10)	26" Hg to 145 (-0.9 to 10)	Push only	115V AC 1.5VA
	VS18S722DF213A	COE	Sol/sol	External	36 to 145 (2.5 to 10)	26" Hg to 145 (-0.9 to 10)	Push & turn	24V DC 1.2W
	VS18S722DF218A	COE	Sol/sol	External	36 to 145 (2.5 to 10)	26" Hg to 145 (-0.9 to 10)	Push & turn	115V AC 1.5VA
	VS18S722DF513A	COE	Sol/sol	External	36 to 145 (2.5 to 10)	26" Hg to 145 (-0.9 to 10)	Extended, push only	24V DC 1.2W
	VS18S722DF518A	COE	Sol/sol	External	36 to 145 (2.5 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

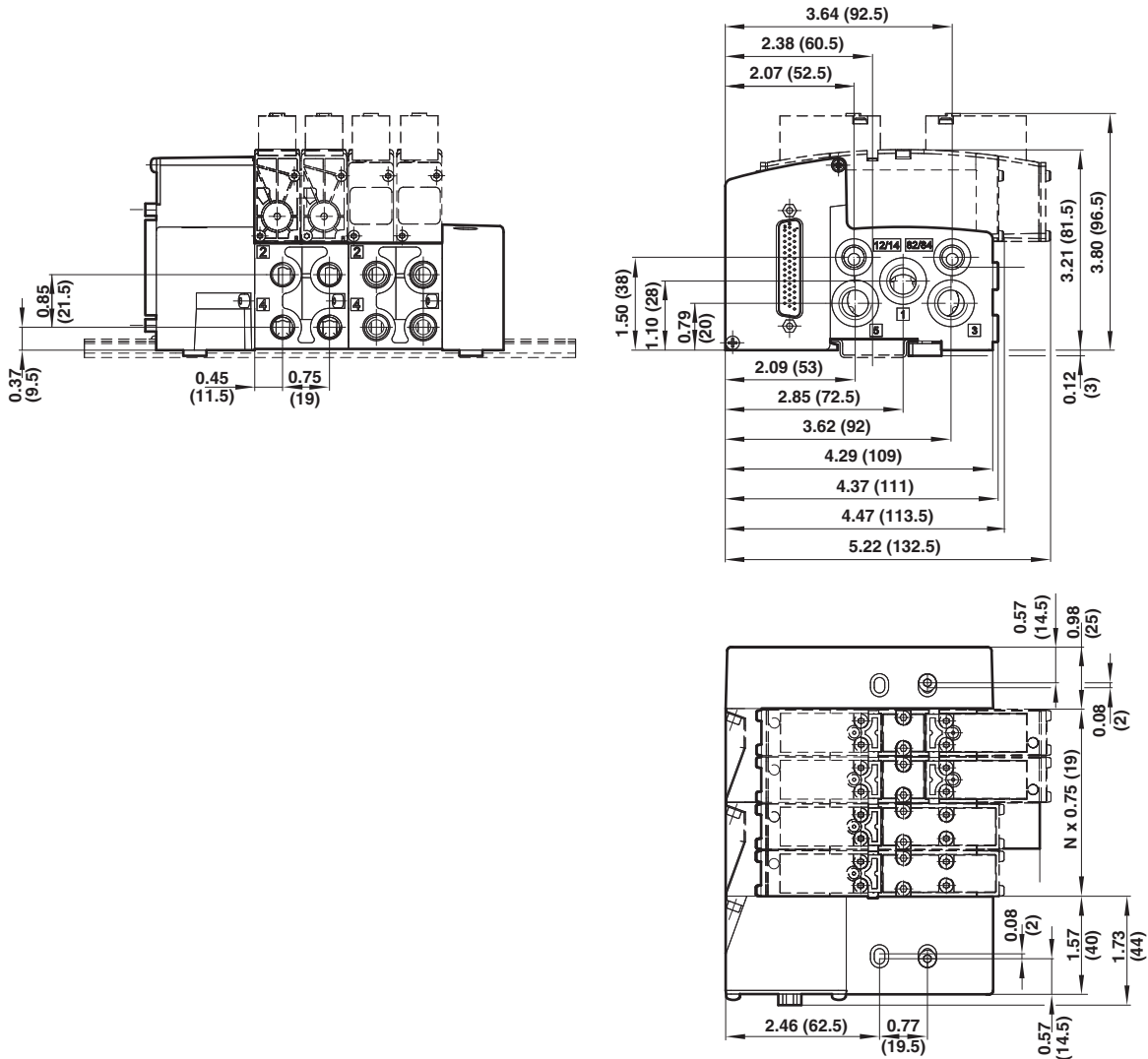
# Valve Manifolds VS18 Series

Plug-in Mini ISO Valves

2x2/2, 2x3/2, 5/2 and 5/3 valves, ISO 15407-2,

Size 18 mm

## Valve manifolds 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

VALVES