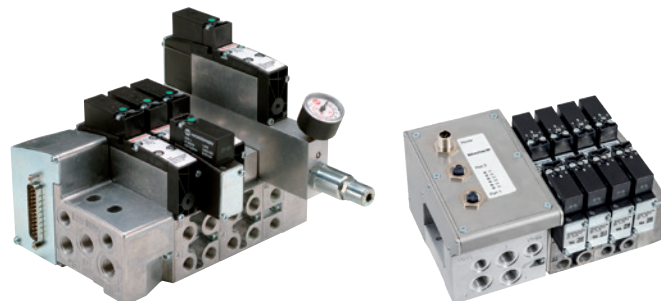


VS18 series, 2 x 2/2, 2 x 3/2, 5/2 or 5/3 ISO valve island

- > **Modular system** offering a wide range of configuration options conforming to ISO 15407-2, 18 mm wide valves
- > **24 V d.c. or 115 V a.c.** Multipole and single station sub-base
- > **Integrated Fieldbus, Industrial Ethernet and IO-Link**
- > **Fieldbus expandable with single add-on stations, Industrial Ethernet and IO-Link expandable with double add-on stations.**
- > **Wide range of accessories** including shut off valves enabling non-stop operation
- > **Dual spool technology**
 - Glandless spool and sleeve for long life
 - Softseal spool for high flow
- > **Up to 40 solenoids, operating at 16 bar pressure**
- > **UL and ATEX**



DeviceNet
EtherNet/IP

IO-Link
CANopen



To configure and order a Valve Island visit:
https://www.norgren.com/uk/en/vic_landing.aspx

Technical features

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

Flow:

Softseal

Function	l/min	Cv	Kv
2 x 2/2	550	0,56	0,46
2 x 3/2	600	0,61	0,52
5/2; 5/3	650	0,66	0,57
Glandless			
5/2; 5/3	550	0,56	0,48

Mounting:

Sub-base

Ports 2+4:

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

Operating pressure:

Maximum pressure

10 bar (145 psi) VS18S models and VS18G solenoid pilot actuated

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

Media/Ambient temperature:

-15 ... +50°C (+5 ... 122°F)

(Ambient)

-5 ... +50°C (+23 ... 122°F)

(Media)

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

Materials:

Body/sub-base:

Die-cast aluminium

Glandless spool & sleeve

(VS18G): Aluminium,

hard anodised, PTFE coated

Softseal spool (VS18S):

Aluminium with HNBR seals

Plastic parts: POM, PA, PPA

Mounting sheets/screws: Steel, zinc coated

Springs: Stainless steel

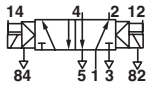
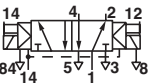
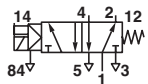
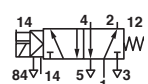
Sandwich plates: Aluminium

bar material, PA

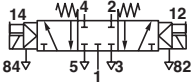
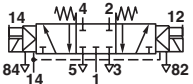
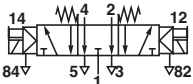
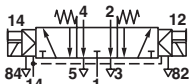
Electrical contacts: Brass, tin coated

PCB: Glass epoxy

5/2 Single and double solenoid actuated softseal valves (flow 650 l/min)

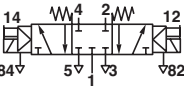
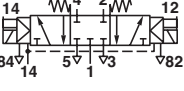
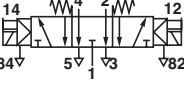
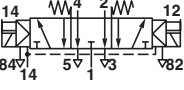
Symbol	Actuation/ return	Pilot supply	Pilot pressure (bar)	Operating pressure (bar)	Manual override	Voltage	Model
	Sol/Sol	Internal	–	2 ... 10	Push only	24 V d.c. 1,2 W	VS18S511DF313A
	Sol/Sol	Internal	–	2 ... 10	Push only	115 V a.c. 1,5 VA	VS18S511DF318A
	Sol/Sol	Internal	–	2 ... 10	Push & turn	24 V d.c. 1,2 W	VS18S511DF213A
	Sol/Sol	Internal	–	2 ... 10	Push & turn	115 V a.c. 1,5 VA	VS18S511DF218A
	Sol/Sol	Internal	–	2 ... 10	Extended, Push only	24 V d.c. 1,2 W	VS18S511DF513A
	Sol/Sol	Internal	–	2 ... 10	Extended, Push only	115 V a.c. 1,5 VA	VS18S511DF518A
	Sol/Sol	External	2 ... 10	-0,9 ... 10	Push only	24 V d.c. 1,2 W	VS18S522DF313A
	Sol/Sol	External	2 ... 10	-0,9 ... 10	Push only	115 V a.c. 1,5 VA	VS18S522DF318A
	Sol/Sol	External	2 ... 10	-0,9 ... 10	Push & turn	24 V d.c. 1,2 W	VS18S522DF213A
	Sol/Sol	External	2 ... 10	-0,9 ... 10	Push & turn	115 V a.c. 1,5 VA	VS18S522DF218A
	Sol/Sol	External	2 ... 10	-0,9 ... 10	Extended, Push only	24 V d.c. 1,2 W	VS18S522DF513A
	Sol/Sol	External	2 ... 10	-0,9 ... 10	Extended, Push only	115 V a.c. 1,5 VA	VS18S522DF518A
	Sol/Spring	Internal	–	2 ... 10	Push only	24 V d.c. 1,2 W	VS18S517DF313A
	Sol/Spring	Internal	–	2 ... 10	Push only	115 V a.c. 1,5 VA	VS18S517DF318A
	Sol/Spring	Internal	–	2 ... 10	Push & turn	24 V d.c. 1,2 W	VS18S517DF213A
	Sol/Spring	Internal	–	2 ... 10	Push & turn	115 V a.c. 1,5 VA	VS18S517DF218A
	Sol/Spring	Internal	–	2 ... 10	Extended, Push only	24 V d.c. 1,2 W	VS18S517DF513A
	Sol/Spring	Internal	–	2 ... 10	Extended, Push only	115 V a.c. 1,5 VA	VS18S517DF518A
	Sol/Spring	External	2 ... 10	-0,9 ... 10	Push only	24 V d.c. 1,2 W	VS18S527DF313A
	Sol/Spring	External	2 ... 10	-0,9 ... 10	Push only	115 V a.c. 1,5 VA	VS18S527DF318A
	Sol/Spring	External	2 ... 10	-0,9 ... 10	Push & turn	24 V d.c. 1,2 W	VS18S527DF213A
	Sol/Spring	External	2 ... 10	-0,9 ... 10	Push & turn	115 V a.c. 1,5 VA	VS18S527DF218A
	Sol/Spring	External	2 ... 10	-0,9 ... 10	Extended, Push only	24 V d.c. 1,2 W	VS18S527DF513A
	Sol/Spring	External	2 ... 10	-0,9 ... 10	Extended, Push only	115 V a.c. 1,5 VA	VS18S527DF518A

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

Symbol	Function	Actuation/ return	Pilot supply	Pilot pressure (bar)	Operating pressure (bar)	Manual override	Voltage	Model
	APB	Sol/Sol	Internal	–	2 ... 10	Push only	24 V d.c. 1,2 W	VS18G611DF313A
	APB	Sol/Sol	Internal	–	2 ... 10	Push only	115 V a.c. 1,5 VA	VS18G611DF318A
	APB	Sol/Sol	Internal	–	2 ... 10	Push & turn	24 V d.c. 1,2 W	VS18G611DF213A
	APB	Sol/Sol	Internal	–	2 ... 10	Push & turn	115 V a.c. 1,5 VA	VS18G611DF218A
	APB	Sol/Sol	Internal	–	2 ... 10	Extended, Push only	24 V d.c. 1,2 W	VS18G611DF513A
	APB	Sol/Sol	Internal	–	2 ... 10	Extended, Push only	115 V a.c. 1,5 VA	VS18G611DF518A
	APB	Sol/Sol	External	2 ... 10	-0,9 ... 16	Push only	24 V d.c. 1,2 W	VS18G622DF313A
	APB	Sol/Sol	External	2 ... 10	-0,9 ... 16	Push only	115 V a.c. 1,5 VA	VS18G622DF318A
	APB	Sol/Sol	External	2 ... 10	-0,9 ... 16	Push & turn	24 V d.c. 1,2 W	VS18G622DF213A
	APB	Sol/Sol	External	2 ... 10	-0,9 ... 16	Push & turn	115 V a.c. 1,5 VA	VS18G622DF218A
	APB	Sol/Sol	External	2 ... 10	-0,9 ... 16	Extended, Push only	24 V d.c. 1,2 W	VS18G622DF513A
	APB	Sol/Sol	External	2 ... 10	-0,9 ... 16	Extended, Push only	115 V a.c. 1,5 VA	VS18G622DF518A
	COE	Sol/Sol	Internal	–	2 ... 10	Push only	24 V d.c. 1,2 W	VS18G711DF313A
	COE	Sol/Sol	Internal	–	2 ... 10	Push only	115 V a.c. 1,5 VA	VS18G711DF318A
	COE	Sol/Sol	Internal	–	2 ... 10	Push & turn	24 V d.c. 1,2 W	VS18G711DF213A
	COE	Sol/Sol	Internal	–	2 ... 10	Push & turn	115 V a.c. 1,5 VA	VS18G711DF218A
	COE	Sol/Sol	Internal	–	2 ... 10	Extended, Push only	24 V d.c. 1,2 W	VS18G711DF513A
	COE	Sol/Sol	Internal	–	2 ... 10	Extended, Push only	115 V a.c. 1,5 VA	VS18G711DF518A
	COE	Sol/Sol	External	2 ... 10	-0,9 ... 16	Push only	24 V d.c. 1,2 W	VS18G722DF313A
	COE	Sol/Sol	External	2 ... 10	-0,9 ... 16	Push only	115 V a.c. 1,5 VA	VS18G722DF318A
	COE	Sol/Sol	External	2 ... 10	-0,9 ... 16	Push & turn	24 V d.c. 1,2 W	VS18G722DF213A
	COE	Sol/Sol	External	2 ... 10	-0,9 ... 16	Push & turn	115 V a.c. 1,5 VA	VS18G722DF218A
	COE	Sol/Sol	External	2 ... 10	-0,9 ... 16	Extended, Push only	24 V d.c. 1,2 W	VS18G722DF513A
	COE	Sol/Sol	External	2 ... 10	-0,9 ... 16	Extended, Push only	115 V a.c. 1,5 VA	VS18G722DF518A

Valve dimensions see page 8
 APB = All Ports Blocked
 COE = Centre Open Exhaust

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

Symbol	Function	Actuation/ return	Pilot supply	Pilot pressure (bar)	Operating pressure (bar)	Manual override	Voltage	Model
	APB	Sol/Sol	Internal	–	2 ... 10	Push only	24 V d.c. 1,2 W	VS18S611DF313A
	APB	Sol/Sol	Internal	–	2 ... 10	Push only	115 V a.c. 1,5 VA	VS18S611DF318A
	APB	Sol/Sol	Internal	–	2 ... 10	Push & turn	24 V d.c. 1,2 W	VS18S611DF213A
	APB	Sol/Sol	Internal	–	2 ... 10	Push & turn	115 V a.c. 1,5 VA	VS18S611DF218A
	APB	Sol/Sol	Internal	–	2 ... 10	Extended, Push only	24 V d.c. 1,2 W	VS18S611DF513A
	APB	Sol/Sol	Internal	–	2 ... 10	Extended, Push only	115 V a.c. 1,5 VA	VS18S611DF518A
	APB	Sol/Sol	External	2 ... 10	-0,9 ... 10	Push only	24 V d.c. 1,2 W	VS18S622DF313A
	APB	Sol/Sol	External	2 ... 10	-0,9 ... 10	Push only	115 V a.c. 1,5 VA	VS18S622DF318A
	APB	Sol/Sol	External	2 ... 10	-0,9 ... 10	Push & turn	24 V d.c. 1,2 W	VS18S622DF213A
	APB	Sol/Sol	External	2 ... 10	-0,9 ... 10	Push & turn	115 V a.c. 1,5 VA	VS18S622DF218A
	APB	Sol/Sol	External	2 ... 10	-0,9 ... 10	Extended, Push only	24 V d.c. 1,2 W	VS18S622DF513A
	APB	Sol/Sol	External	2 ... 10	-0,9 ... 10	Extended, Push only	115 V a.c. 1,5 VA	VS18S622DF518A
	COE	Sol/Sol	Internal	–	2,5 ... 10	Push only	24 V d.c. 1,2 W	VS18S711DF313A
	COE	Sol/Sol	Internal	–	2,5 ... 10	Push only	115 V a.c. 1,5 VA	VS18S711DF318A
	COE	Sol/Sol	Internal	–	2,5 ... 10	Push & turn	24 V d.c. 1,2 W	VS18S711DF213A
	COE	Sol/Sol	Internal	–	2,5 ... 10	Push & turn	115 V a.c. 1,5 VA	VS18S711DF218A
	COE	Sol/Sol	Internal	–	2,5 ... 10	Extended, Push only	24 V d.c. 1,2 W	VS18S711DF513A
	COE	Sol/Sol	Internal	–	2,5 ... 10	Extended, Push only	115 V a.c. 1,5 VA	VS18S711DF518A
	COE	Sol/Sol	External	2,5 ... 10	-0,9 ... 10	Push only	24 V d.c. 1,2 W	VS18S722DF313A
	COE	Sol/Sol	External	2,5 ... 10	-0,9 ... 10	Push only	115 V a.c. 1,5 VA	VS18S722DF318A
	COE	Sol/Sol	External	2,5 ... 10	-0,9 ... 10	Push & turn	24 V d.c. 1,2 W	VS18S722DF213A
	COE	Sol/Sol	External	2,5 ... 10	-0,9 ... 10	Push & turn	115 V a.c. 1,5 VA	VS18S722DF218A
	COE	Sol/Sol	External	2,5 ... 10	-0,9 ... 10	Extended, Push only	24 V d.c. 1,2 W	VS18S722DF513A
	COE	Sol/Sol	External	2,5 ... 10	-0,9 ... 10	Extended, Push only	115 V a.c. 1,5 VA	VS18S722DF518A

Valve dimensions see page 8

APB = All Ports Blocked

COE = Centre Open Exhaust

Options selector for valve slices

Spool technology	Substitute
Glandless spool & sleeve	G
Softseal spool	S
Guiding systems	Substitute
2 x 3/2 NC *3)	A
2 x 3/2 NO *3)	B
2 x 3/2 NO/NC *3)	C
2 x 2/2 NC *3)	E
2 x 2/2 NO *3)	F
2 x 2/2 NO/NC *3)	G
5/2	5
5/3 APB	6
5/3 COE	7

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

VS18★★★★DF★★★★

Application	Substitute
Standard environment	A
ATEX approval *6)	E
Voltage	Substitute
24 V d.c. 1,2 W (±10%)	13
115 V a.c. 1,5 VA (-10/+15%)	18
12 V d.c. 1,2 W (±10%)	on request
12 V d.c. 1,5 W (-17/+20%)	on request
24 V d.c. 1,5 W (-17/+20%)	on request
Manual override *5)	Substitute
Push & turn	2
Push only	3
Extended, Push only	5
Actuation/Pilot supply	Substitute
Solenoid/Spring Internal pilot supply	17
Solenoid/Spring External pilot supply	27
Solenoid/Solenoid Internal pilot supply	11
Solenoid/Solenoid External pilot supply	22
Solenoid priority side 14/Solenoid (5/2 only) Internal pilot supply *4)	91
Solenoid priority side 14/Solenoid (5/2 only) External pilot supply *4)	92

*4) Available with glandless spool & sleeve only (VS18G)

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

*6) Available with 24 V d.c. 1,2 W (±10%) only