



# VR Series Valve Islands

Flexibility and modularity have reached new levels with the Norgren VR Valve Island range.

A simple plug-in, sub-base style design allows for valves to be easily exchanged for easy installation and maintenance. Expanding the size and functionality of your Valve Island to match the changing demands of your application is a simple “plug-and-play” experience.

Available in two body sizes – 10mm and 15mm, the VR10/15 series can be used across a broad range of Industrial Automation markets, from food & beverage, packaging, labelling, textiles, glass production, metal production and paper and print.

## Product Highlights:

- > **Modular** – A modular system offering a wide range of configuration options
- > **Flexible** – Available in 10mm and 15mm with up to 24 solenoids with a wide range of valve functions
- > **Reliable** – Using proven technology for long life over 30 million cycles
- > **Connected** – Multipole, EtherNet/IP\*, PROFINET, EtherCAT\*, IO-Link Slave\* (\*Available June 2020)
- > **Easy Installation** – No restrictions in installation as connectors can be horizontal or vertical. Valve island can be direct mounted or mounted on a DIN rail.
- > **Maintenance Friendly** – Simple plug-in sub base valve exchange allows easy exchange of system components and interruption-free valve replacement option; and integrated silencers offer simple replacement
- > **Energy Saving** – Low power solenoids (0.4w power consumption) with LED indicators
- > **Easy to Configure** – BEST IN CLASS online configurator

# Technical Specifications

## Medium:

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

## Operation:

Dynamic Soft-seal spool valve, solenoid pilot operated

## Flow:

### VR10 ø6

Function	l/min	Cv	Kv
5/2	220	0.22	0.20
5/3	270	0.27	0.24
2 x 3/2	220	0.22	0.20

### VR15 ø8

Function	l/min	Cv	Kv
5/2	520	0.53	0.47
5/3	590	0.60	0.54
2 x 3/2	460	0.47	0.42

## Mounting:

Sub-base

### Ports 1, 3 & 5 (P,E):

VR10- PIF 8 mm, 5/16"  
VR15- PIF 10 mm, 3/8"

### Ports 2 & 4 (A,B):

VR10 3 mm, 4 mm, 6 mm, 5/32", 1/4"  
VR15 4 mm, 6 mm, 8 mm, 5/32", 1/4", 5/16"

## Operating pressure:

Maximum pressure 7 bar (101 psi)  
Details of minimum and maximum pilot pressure see overleaf

## Media/Ambient temperature:

-5°C ... +50°C (+23°F ... 122°F)  
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F)

## Materials:

Body: ZnDC (10 mm) / ADC12 (15 mm)  
Spool: Aluminium  
Seal: NBR  
Sub-base: Resin

## Electrical details for solenoid operators

Supply voltage:	24 V d.c.
Voltage tolerance:	+/- 10%
Power consumption:	24 V d.c. 0.45W (Energy saving type)
Electrical connection:	D-Sub Connector: Multipole 25 Pins
Manual override:	Push Only
Rating:	100% E.D.
Indication:	LED red/green
Surge suppression:	Surge protecting circuit is equipped
Protection class:	IP40



Multipole connectivity



Interruption-free valve replacement



10 mm and 15 mm widths with up to 24 solenoids



Modular System

For more details you can email [apac.iaenquiry@norgren.com](mailto:apac.iaenquiry@norgren.com)  
Visit [www.norgren.com](http://www.norgren.com)



**IMI NORGREN**

**IMI**  
Precision Engineering