Solenoid modular valves *Application & selection*

Shown: VEC-15600D, VEC-15000B, VEK-15000B

VE-series

Solenoid modular valves are especially well suited for workholding and production applications.

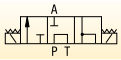
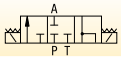
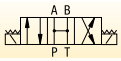
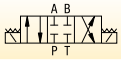
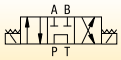
With 11 possible flowpaths and 2 manifolds, for either Enerpac's submerged pump or a remote NPT mount, you can "custom build" a valve for almost any application.

Application
Ideal when mounted on remote manifold for applications where independent control of multiple cylinders is required.

Unmatched combination of possibilities

- Relief valve and pilot-operated check accessory valves are stackable eliminating external plumbing
- Remote and pump mounting
- Mounting bolts included with each modular valve.

Select the required valve flow path

Valve flow path	For cylinder	Valve code	Hydraulic symbol
▼ 2-way, 2-position (2/2)			
Normally closed	Unloading *	**VEH**	
Normally open	Unloading *	**VEK**	
▼ 3-way, 2-position (3/2)			
Normally open	Single-acting	**VEP**	
▼ 3-way, 3-position (3/3)			
Tandem center	Single-acting	**VEF**	
Closed center	Single-acting	**VEG**	
▼ 4-way, 2-position (4/2)			
Crossover offset	Double-acting	**VEE**	
Float offset	Double-acting	**VEM**	
▼ 4-way, 3-position (4/3)			
Open center	Double-acting	**VEA**	
Closed center	Double-acting	**VEB**	
Tandem center	Double-acting	**VEC**	
Float center	Double-acting	**VED**	

* VEH and VEK valve models require the use of tank port for dump or unloading.

Product spefications

Pressure range	Maximum oil flow	Voltage @ Hz	Amperage draw	
			Amps	
bar	l/min		inrush	holding
0 - 700	15	24 VDC @ 50/60 Hz	–	2,5 A
0 - 700	15	115 VAC @ 60 Hz	3,6 A	1,0 A
0 - 700	15	220/240 VAC @ 50 Hz	1,3/1,4	0,45/0,53
0 - 700	15	230 VCA @ 60 Hz	1,8 A	0,50 A

Note: Seal material: Buna-N, Polyurethane.
DIN43650 Valve plug included on remote mounted valves.

Custom build your modular valves

▼ This is how a Solenoid Modular Valve Model Number is built up:

VEA	-	1	1	600	-	D
1 Valve Flow Path		2 Flow Capacity	3 Voltage	4 Accessory Valves		5 Manifold

1 Modular valve code

A = 4/3 Open center
B = 4/3 Closed center
C = 4/3 Tandem center
D = 4/3 Float center
E = 4/2 Crossover offset
F = 3/3 Tandem center
G = 3/3 Closed center
H = 2/2 Normally closed
K = 2/2 Normally open
M = 4/2 Float offset
P = 3/2 Normally open

2 Oil flow capacity

1 = 15 l/min

3 Solenoid voltage

1 = 24 VDC, 50 / 60 Hz
2 = 230 V, 1 ph, 50 Hz
5 = 115 V, 1 ph, 60 Hz
6 = 230 V, 1 ph, 60 Hz

4 Accessory valves

000 = No accessory valves
100 = **VS-11** Relief valve only
150 = **VS-11** Relief valve and **VS-51** 3-way pilot operated *check valve VEF/VEG only*
160 = **VS-11** Relief valve and **VS-61** 4-way pilot operated check valve *VEA/VEB/VEC/VED only*
500 = **VS-51** 3-way pilot operated *check valve VEF/VEG only*
600 = **VS-61** 4-way pilot operated check valve *VEA/VEB/VEC/VED only*

5 Manifold

A = No manifold
B = Remote mounted manifold
D = Pump mounted manifold *VEA/VEC/VEF only*

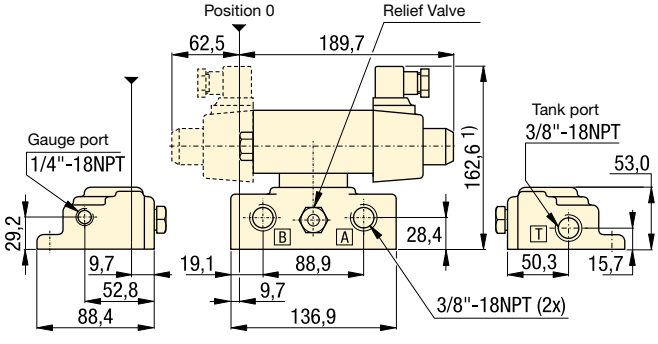
Example

The **VEA-11600-D** is a modular valve with a 4-way, 3-position open center flowpath, 24 VDC, and an integrated pilot-operated check valve, for mounting on an Enerpac pump.

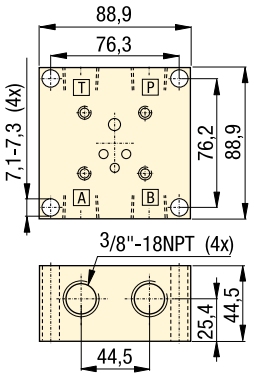
Bolt Kit **BK-2** is included.

VE series

Modular Valve Pump Mounted



Modular Valve Remote Mounted



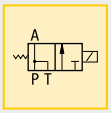
1) add 47 mm for each Accessory Valve.
Note: BK-1 Bolt Kit is included with each modular valve.

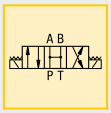
Pressure: 0 - 700 bar

Flow: 15 l/min max.

Voltage: 24, 115, 230 V

(E) Válvulas de control
(F) Electrodistributeurs
(D) Wegesitzventile





Options

Gauges and accessories
190 ▶

Fittings
194 ▶

Accessory Valves and Bolt Kits

Use **VS-11** relief valve to add system pressure control to VE-series valves.

Use **VS-51** 3-way pilot operated check valve to convert 3-way VE-valve into load-holding valve.

Use **VS-61** 4-way pilot operated check valve to convert 4-way VE-valve into load-holding valve.

To install accessory valves to stack build modular valves use bolt kits:
BK-2 for 1 VS valve;
BK-3 for 2 VS valves.

Pressure drop *vs* oil flow