

▼ Shown from left to right: **VM32, VE33, VM33, VM43L, VE43-115**



- **Advance/Retract and Advance/Hold/Retract operation of single-acting and double-acting cylinders**
- **Manual or solenoid operation**
- **Pump mounting will retrofit on most Enerpac pumps**
- **Available “locking” option on VM Series valves for load-holding applications**
- **Standard “locking” feature on VE Series 3-position valves**
- **User adjustable relief valves allow the operator to easily set the working pressure**

▼ **ZE4420SB-FH Z-Class pump is mounted next to an Enerpac H-frame press, includes VE43 electric valve to control cylinder operation.**



For Reliable Control of Single and Double-Acting Cylinders

Valve Operation	Used with Cylinder	Valve Type	
Manual	Single-acting	3-Way 2 Position	
Manual	Single-acting	3-Way 2 Position	
Manual	Single-acting	3-Way 3 Position, Tandem Center	
Manual	Double-acting	4-Way 3 Position, Tandem Center	
Manual	Single-acting	3-Way 3 Position, Tandem Center, Locking	
Manual	Double-acting	4-Way 3 Position, Tandem Center, Locking	
Solenoid 24 VDC	Single-acting	3-Way 2 Position	
Solenoid 24 VDC	Single-acting	3-Way 2 Position, Dump	
Solenoid 24 VDC	Single-acting	3-Way, 3 Position, Tandem Center	
Solenoid 115 VAC	Single-acting	3-Way, 3 Position, Tandem Center	
Solenoid 24 VDC	Double-acting	4-Way, 3 Position, Tandem Center	
Solenoid 115 VAC	Double-acting	4-Way, 3 Position, Tandem Center	

For remote valve applications, see page 108.

Pump Mounted Directional Control Valves



All valves feature several gauge ports for “system”, A port and B port pressure monitoring. User-adjustable relief valves are included on all models to allow the operator to easily set the optimum working pressure for each application. VM33 and VE43 valves include “System Check” feature, for more precise pressure holding and improved system control. The VM33 has improved porting which provides faster cylinder retraction while motor is running.

VM, VE Series



Flow Capacity:

4.5 gal/min.

Maximum Operating Pressure:

10,000 psi



High-Pressure Hoses

VE33-115 and VE43-115 electric valves are supplied with IC400 control station. These valves include an 8 ft. power cord, and can be used on any Enerpac pump. They require a separate 115 volt power supply to operate.



Locking Valves

For applications that require positive load holding, VM Series valves (except the VM22 and VM32 valve) are available with a pilot-operated check valve. This option provides hydraulic locking of the load until the valve is shifted into the retract position.

To order this feature, place an “L” at the end of the model number.



Pendants for VE-Series Solenoid Valves

When ordering Enerpac VE-Series solenoid valves, the pendant must be ordered separately for Z-Class pumps. Pendant connection to be plugged into electric box of pump.

To be used with solenoid valves:	Pendant
VE32D	ZCP-1
VE32, VE33, VE43	ZCP-3

Model Number	Hydraulic Symbol	Schematic Flowpath			Weight (lbs)
		Advance	Hold	Retract	
VM22					5.6
VM32					5.6
VM33					6.7
VM43					6.8
VM33L					10.7
VM43L					10.8
VE32					8.7
VE32D					8.7
VE33					20.3
VE33-115					20.3
VE43					20.3
VE43-115					20.3

See page 109 for product dimensions.

▼ Shown from left to right: **VC-20, VC-4L**



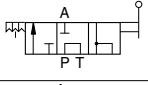
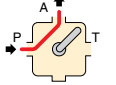
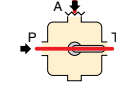
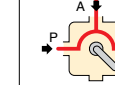
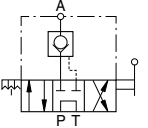

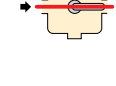
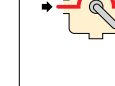
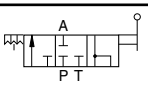
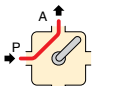
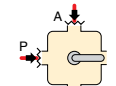
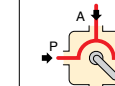
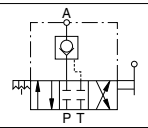

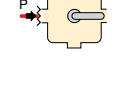
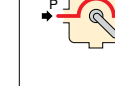
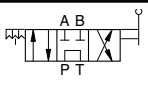
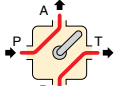
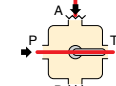
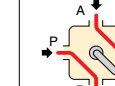
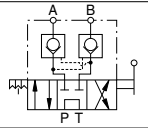
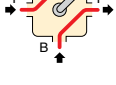
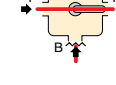
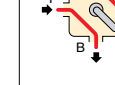
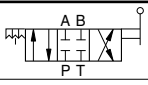
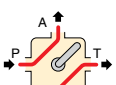
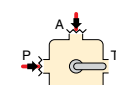
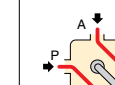
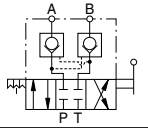
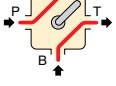
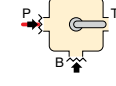
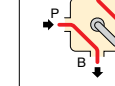
Reliable Remote Control



Locking Valves

For applications that require positive load holding, VC and VM Series valves are available with a pilot-operated check valve. This option provides hydraulic locking of the load until the valve is shifted into the retract position.

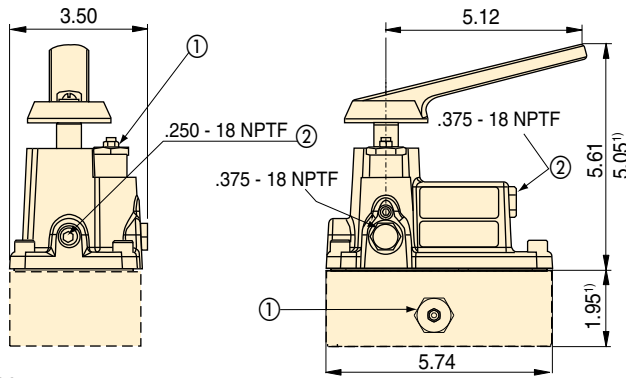
- **Advance/Hold/Retract operation for use with single-acting or double-acting cylinders**

Valve Operation	Used with Cylinder	Valve Type	Model Number	Hydraulic Symbol	Schematic Flowpath			Weight (lbs)
					Advance	Hold	Retract	
Manual	Single Acting	3-Way, 3 Position, Tandem Center	VC-3					6.4
Manual	Single Acting	3-Way, 3 Position, Tandem Center, Locking	VC-3L					10.3
Manual	Single Acting	3-Way, 3 Position, Closed Center	VC-15					6.4
Manual	Single Acting	3-Way, 3 Position, Closed Center, Locking	VC-15L					10.3
Manual	Double Acting	4-Way, 3 Position, Tandem Center	VC-4					6.4
Manual	Double Acting	4-Way, 3 Position, Tandem Center, Locking	VC-4L					10.3
Manual	Double Acting	4-Way, 3 Position, Closed Center	VC-20					6.4
Manual	Double Acting	4-Way, 3 Position, Closed Center, Locking	VC-20L					10.3

Return line kit included with remote valves

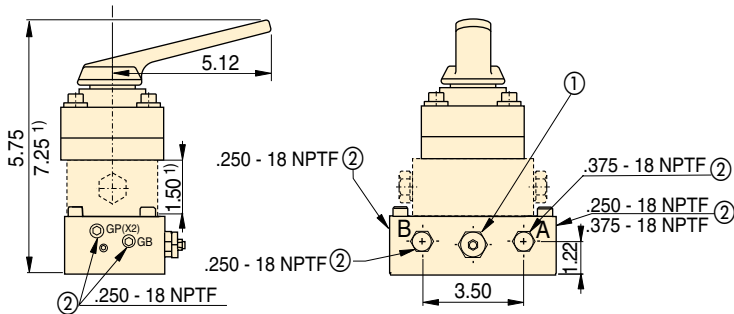
Directional Control Valves Dimensions

Valve dimensions in inches.



VM22, VM32

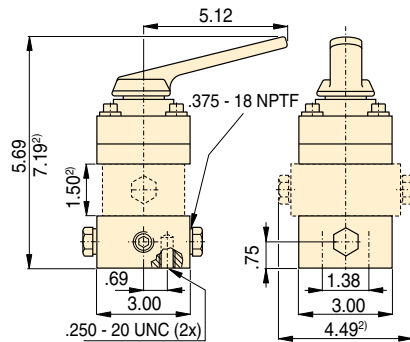
¹⁾ VM22 only



VM33, VM33L

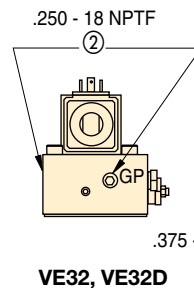
VM43, VM43L

¹⁾ VM33L and VM43L only

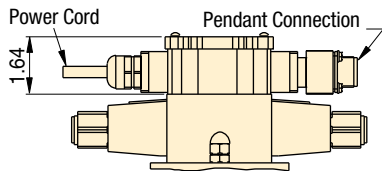
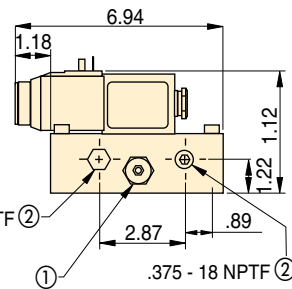


VC3, VC3L, VC-15, VC15L, VC-4, VC4L, VC20, VC20L

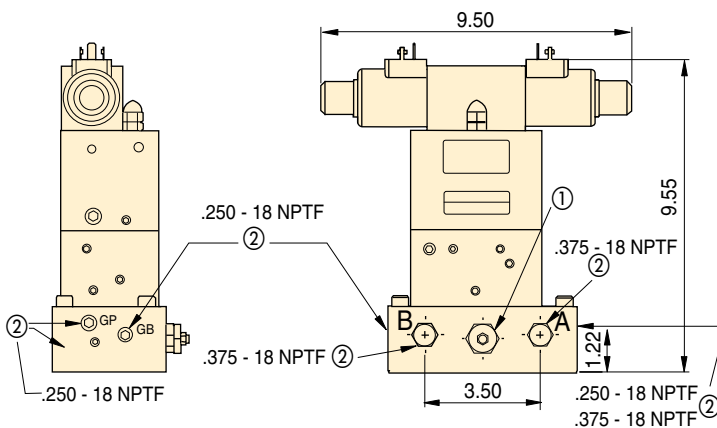
²⁾ VC3L, VC15L, VC4L and VC20L only



VE32, VE32D



VE33-115 VE43-115



VE33, VE43

- ① User Adjustable Relief Valve
- ② Auxiliary Port

VC, VM, VE Series



Flow Capacity:

4.5 gal/min.

Maximum Operating Pressure:

10,000 psi



User Adjustable Relief Valve

All VM- and VE-Series have a user adjustable relief valve to allow the operator to easily set the optimum working pressure.