

# **VL-VR**

#### **IN-LINE VALVES - REGULATING VALVES**

## 700 - 1000 - 2000 - 3000 BAR



Pressure

\_\_\_\_\_700 - 3000 bar

#### **FEATURES**

These valves provide the means to control cylinders and actuators operating at pressures of 700, 1000, 2000 and 3000 Bar.

#### Specifications

- VL Manual and electric control valves to operate single acting (3-way) and double acting (4 way) systems
- VR Regulating, shut-off and check valves to isolate and monitor hydraulic systems

Control voltage for solenoids is 230 VAC Different voltages are available on request.



When using **closed centre** valves the pump must be **switched off** when the valve lever is in the central position to prevent overheating of the oil.



For installation of the valves in modular units, refer to the relevant section.

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#### **HOW TO SELECT A VALVE**

Please consider the following information when choosing a valve.

- Single acting cylinders: these require a 3-way valve (three outlets: pressure P, tank T, cylinder A)
- Double acting cylinders: these require a 4-way valve (4 outlets, pressure P, tank T, extension A, return B)
- Positions: these are the valve lever position points: extension and retraction of the cylinder (2 position valve) extension, holding and return (3 position valve)
- Centre: Intermediate position. The centre may be open and in this case the valve connects the pump (P) and users (A,B) to the discharge outlet (T), or closed and then all outlets are closed (if you want to isolate the cylinder but use the pump to feed other users)

Follow our safety instructions see useful pages

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For installation of the valves on hand pumps PL, refer to the relevant section.

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# **VL**



# **VLM - IN-LINE MANUAL VALVES**

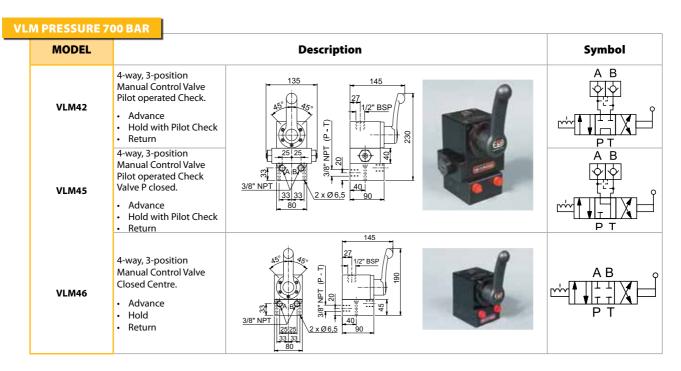
MODEL		Description	Symbol
VLM31	3-way, 3-position Manual Control Valve.  • Advance  • Hold  • Return	145 27 1/2" BSP 06 145 07 145 27 1/2" BSP 06 17 18 19 19 19 19 19 19 19 19 19 19	
VLM32	3-way, 3-position Manual Control Valve Pilot operated Check Valve.  Advance Hold with Pilot Check Return	135 145 27 1/2" BSP 08 28 3/8" NPT 33 33 33 2 x Ø 6.5 40 90	
VLM35	3-way, 3-position Manual Control Valve Pilot operated Check Valve P closed.  Advance Hold with Pilot Check Return		
VLM36	3-way, 3-position Manual Control Valve Closed Centre.  Advance Hold Return	145 27 1/2" BSP 28 1/2" BSP 20 21 21 22 27 27 27 27 27 27 27 27 27	A M TT T T P T
VLM41	<ul><li>4-way, 3-position</li><li>Manual Control Valve.</li><li>Advance</li><li>Hold</li><li>Return</li></ul>	145 27 112" BSP 80 3/8" NPT 2525 2 x Ø 6.5 90	MILITARIA PT

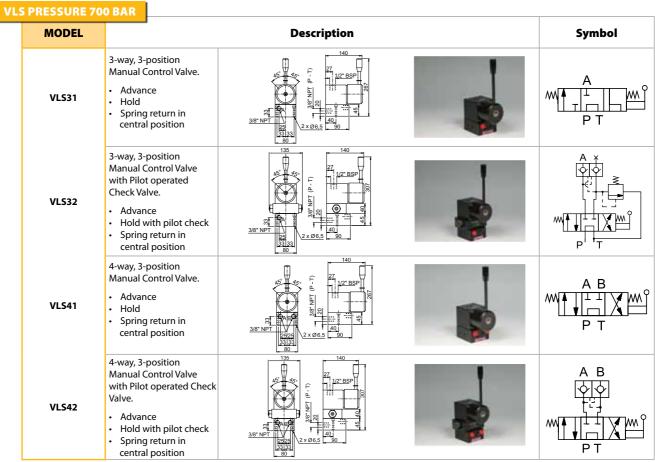


# **VL-VLS**

#### **VLM - IN-LINE MANUAL VALVES**

## VLS - IN-LINE MANUAL VALVES SPRING RETURN IN CENTRAL POSITION





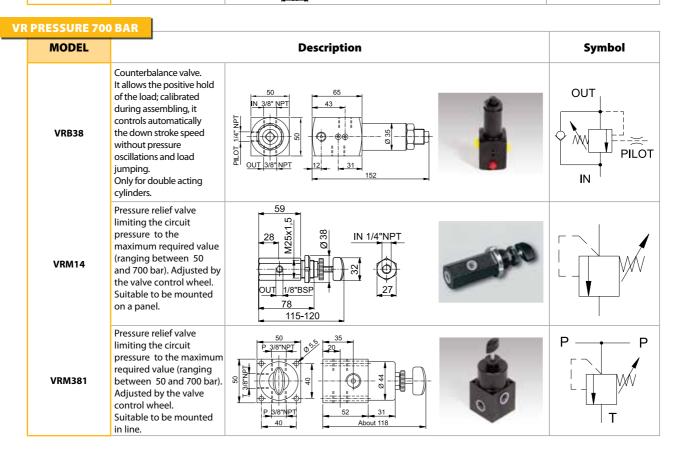
# **VLE-VR**



## **VLE - IN-LINE ELECTRIC VALVES**

## **VR - IN-LINE REGULATING VALVES**

VLE PRESSURE 700 BAR						
	MODEL	Description			Symbol	
	VLE31	3-way, 3-position Electric Control Valve. • Advance • Hold • Return	122.5 60,40 72.5 123,33 2×06.5 40,90		A M T T M P T	
	VLE41	4-way, 3-position Electric Control Valve.  • Advance  • Hold  • Return	170 60 60 60 60 60 60 60 60 60 6		A B M 1 1 1 M P T	
	VLE42	4-way, 3-position Electric Control Valve with Pilot operated Check.  Advance Hold with pilot check Return	170 60 60 60 60 72.5 72.		A B	







## **VR - IN-LINE REGULATING VALVES**

#### **MODEL** Description Symbol PILOT\_3/8"\_NPT Pilot operated check valve. To permit free flow in one way and shut off the flow in the 3/8"NPT N 3/8" NPT 56 67 VRP38 85 9 opposite direction. 30 Pilot ratio 1.4 60 3/8" NPT One-way check valve. To shut off the oil flow VRR38 in one direction ΔP= 1 bar

#### VR PRESSURE 1000 BAR

MODEL		Description	Symbol
VRF38	Needle valve. To shut off the flow.	Ø 6.5 O2	
VRU38	One-way flow control valve. It permits controlled load lowering.	35 38"NPT 25	
VRH38	One-way flow control valve with fine regulation. It permits controlled load lowering.	76 06 05 45 100 100 100 100 100 100 100 10	
VRF382	Double outlet needle valve. To split the flow in two separate ways.  A= 90	02 04 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	XX
VRF384	Needle valve with four outlets to split the flow in four separate ways.  A= 210	IN 3/8"NPT Ø 6.5	

# VR - ZOH



## **VR - IN-LINE REGULATING VALVES**

## **ZOH - IN-LINE REGULATING VALVES**

VR PRESSURE 2000 BAR						
	MODEL		Description		Symbol	
	VRF15	Needle valve. To shut off the flow.	Ø6.5 0 30 11/4*BSP			
	VRF152	Double outlet needle valve. To split the flow in two separate ways. A= 115	034 089,999 080,990 080,90 080,90 080,90 080,90 080,90 080,90 080,90 080,90 080,90 080,90 080,90 080,90 080,90		XX	
	VRF153	Needle valve with three outlets to split the flow in three separate ways. A= 180	65x(N-1) A 1/4"BSP Ø 6.5		***	
	VRF154	Needle valve with four outlets to split the flow in four separate ways.  A= 245	\$ 3	0000	* * * * *	

# WRF34 Needle valve. To exclude circuit branches. Needle valve. To exclude circuit branches. None-way check valve. To shut off the oil flow in one direction.





Always use EUROPRESS hydraulic oil or oil having the same technical characteristics. Different oil types might damage the seals or gaskets and equipment and would make the guarantee null and void.

#### **FEATURES**

EUROPRESS high pressure hydraulic oil is a mineral based oil to ISO VG 32 with excellent viscosity and lubrication properties. The use of EUROPRESS oil will ensure maximum efficiency and long service life of the equipment . EUROPRESS hydraulic oil is non foaming, will not leave gummy deposits, nor corrode valve seats, seals or gaskets, or the cylinder walls.

Container size

Supplied in 1, 5 and 10 lt. containers.

#### Code:

- **ZOH1** 1 litre Container
- ZOH5 5 litres Container.
- ZOH10 10 litres Container.

1 - 10 lt