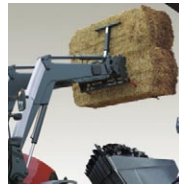


NEW

new range

1516

Overcenter valves



**The ideal solution for load  
motion control**



# New range **1516** Overcenter valves



- Zinc-plated steel manifolds
- Compact dimensions
- High working pressure (400 bar)
- Pilot pressure control system
- Optional anti-tampering devices

The 1516 series is a full range of overcenter valves specifically designed to provide a reliable and efficient control of every load handling system.

Built with zinc-plated steel bodies to ensure top level strength and durability, these valves can reach a work pressure of 400 bar with a rated flow of 150 l/min.

The range includes the N1516 load sensitive type, specially suitable for open centre systems, and the V1516 vented type, providing full compensation of backpressure in the return line, which makes it ideal for closed centre systems. Single and double effect valves are available, together with several porting and flanging patterns to suit every installing condition. All valves in the range are equipped with a piloting pressure control system to ensure smooth and safe operation in every load handling application.

### Working conditions

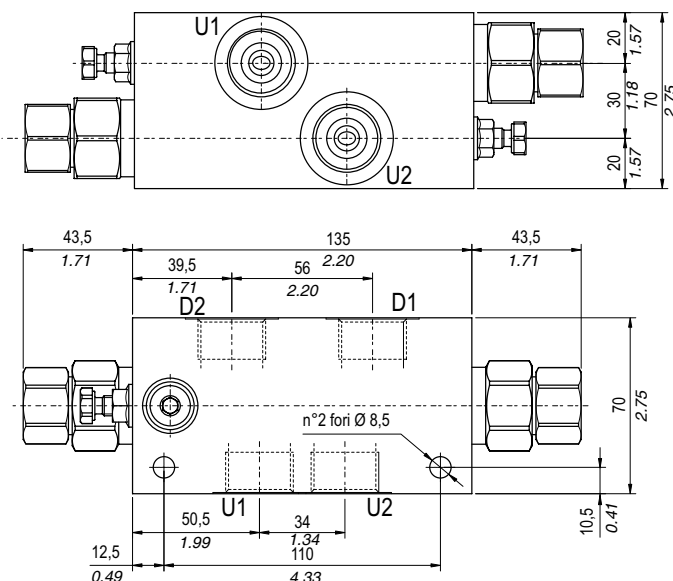
This catalogue shows technical specifications and diagrams measured with mineral oil of 46 cSt viscosity at 40° (104°F) temperature.

Nominal flow rating	150 l/min (40 US gpm)
Operating pressure (max.)	400 bar (5800 psi)
Fluid	Mineral oil
Leakage from U1 to D1 at 80% of the setting pressure	with oil viscosity 46 cSt 0,25 cm <sup>3</sup> /min (0.015 in <sup>3</sup> /min) 5 drops
Fluid temperature range	with NBR o-rings from -20° C (-4°F) to 90° C (194°F)
Viscosity	min. 10 cSt max. 200 cSt
Environmental temperature for working conditions	from -20° C (-4°F) to 50° C (122°F)

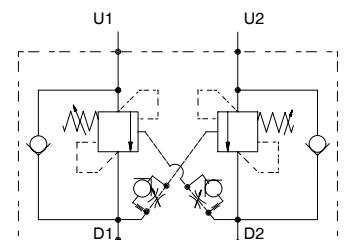
### Thread reference standard

		BSP	UN-UNF
Thread according to		ISO 228/1	ISO 263
		BS 2779	ANSI B1.1 unified
Cavity dimension according to	ISO	1179	11926
	SAE		J2244
	DIN	3852-2 shape x or y	

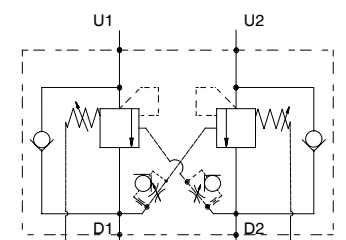
### VODL/N 1516 and VODL/V 1516 dimensions



### Hydraulic Circuit



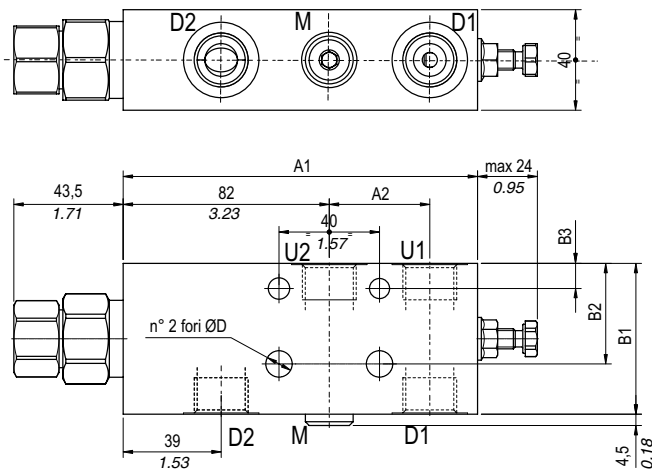
VODL/N1516



VODL/V1516

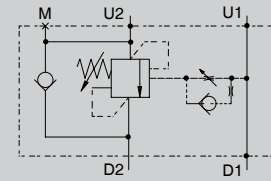
TYPE	THREAD	
	D1-U1	D2-U2
12-S10	BSP	G1/2
	UN-UNF	7/8-14 (SAE 10)
34-S12	BSP	G3/4
	UN-UNF	1"1/16-12 (SAE 12)

## VOSL/N 1516 and VOSL/V 1516 dimensions

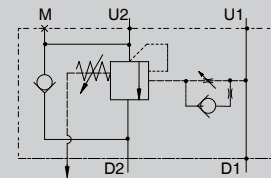


TYPE	THREAD			DIMENSIONS (mm/in)					
	D1-U1	D2-U2	M	A1	A2	B1	B2	B3	D
12-S10	BSP	G1/2	G1/4	141	40	60	-	10	8.5
	UN-UNF	7/8-14 (SAE 10)	9/16-18 (SAE6)	5.55	1.57	2.36	-	0.39	0.33
34-S12	BSP	G3/4	G1/4	147	43	80	60	-	10.5
	UN-UNF	1"1/16-12 (SAE 12)	9/16-18 (SAE6)	5.79	1.69	3.15	2.36	-	0.41

## Hydraulic Circuit

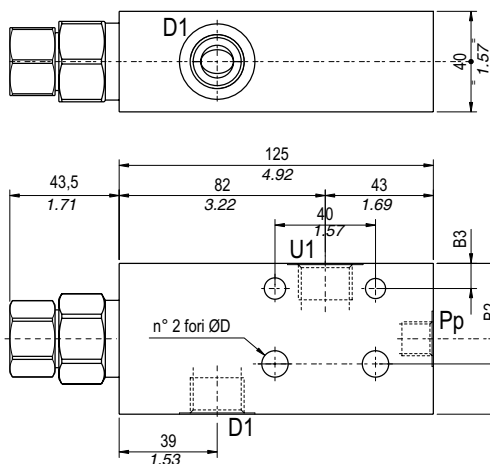


VOSL/N1516



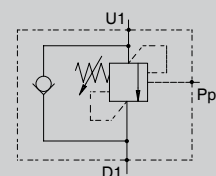
VOSL/V1516

## VOSLP/N 1516 and VOSLP/V 1516 dimensions

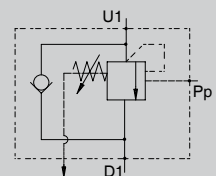


TYPE	THREAD		DIMENSIONS (mm/in)				
	D1-U1	Pp	B1	B2	B3	D	
12-S10	BSP	G1/2	G1/4	60	-	10	8.5
	UN-UNF	7/8-14 (SAE 10)	9/16-18 (SAE6)	2.36	-	0.39	0.33
34-S12	BSP	G3/4	G1/4	80	60	-	10.5
	UN-UNF	1"1/16-12 (SAE 12)	9/16-18 (SAE6)	3.15	2.36	-	0.41

## Hydraulic Circuit



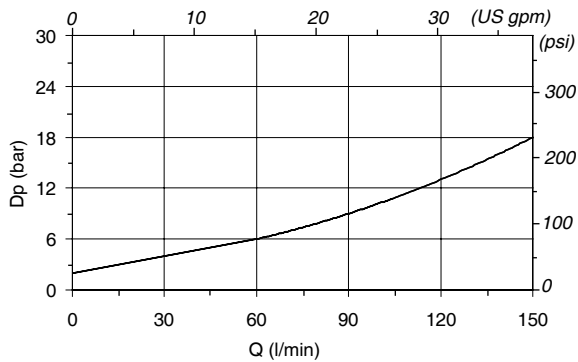
VOSLP/N1516



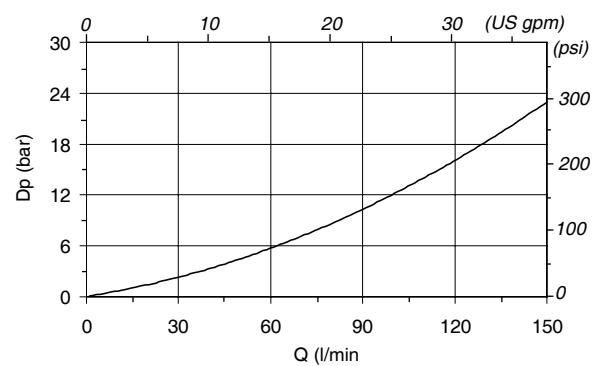
VOSLP/V1516

## Performance Data range 1516

Pressure drop from D1 to U1 (VOSLP)  
from D2 to U2 (VOSL)



Pressure drop from U1 to D1 (VOSLP)  
from U2 to D2 (VOSL)



## Features

- Zinc-plated steel manifolds
- Compact dimensions due to in-line check valve building
- The range includes pipe mounting and flangeable valves
- All valves including a pilot pressure control system; customized solutions available on demand
- Optional anti-tampering devices.

## Application

Load handling machinery, eg. truck mounted cranes, all terrain cranes, telescopic handlers, aerial platforms, basket cranes, etc.

## Configuration and options

Available with pilot ratios 1:4, 1:8 and zero differential, customized pilot ratios available on demand.

Three available setting ranges 5÷210 bar (72.5÷3050 psi); 50÷350 bar (725÷5100 psi); 300÷700 bar (4350÷10150 psi).

