

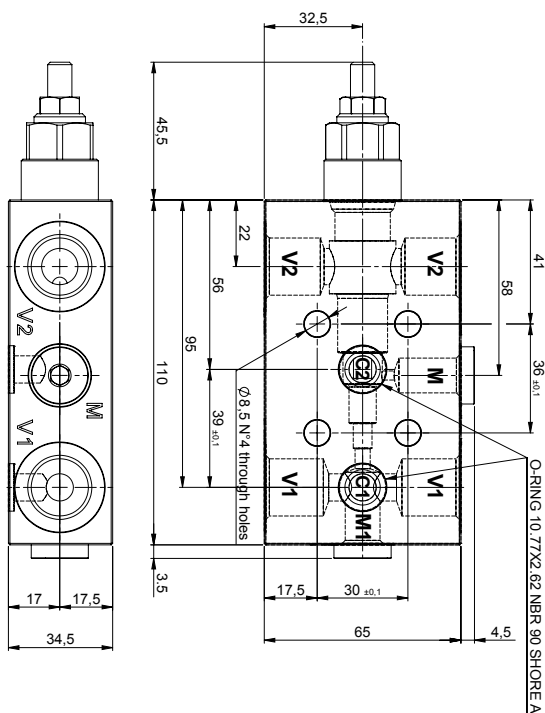
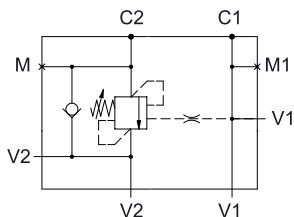
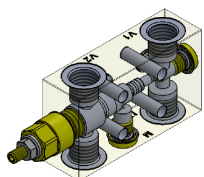


# Load holding valves

## Normale 31NPS S FC2 1/2



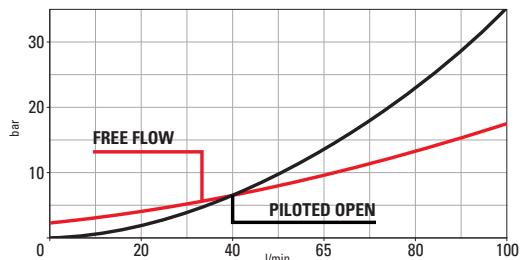
MANIFATTURA ITALIANA DI VALVOLE OLEODINAMICHE



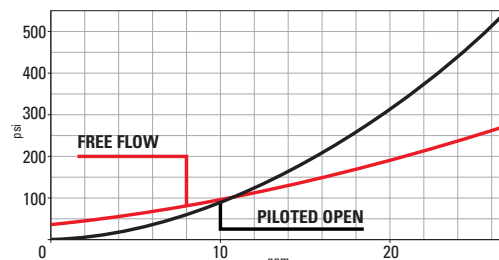
### Technical Details

body material	zinc plated steel
capacity	90 lpm (24 gpm)
ports size	V1, V2: G 1/2 - M, M1: G 1/4 - C1, C2: $\phi$ 9
max operating pressure	350 bar (5000 psi)
pilot ratio	2:1 - 4:1 - 7:1 - 11:1
maximum setting	420 bar (6100 psi)
minimum setting	60 bar (870 psi) : 2:1 - 4:1 100 bar (1450 psi): 7:1 - 11:1
pressure increase per turn	2:1 - 4:1 Spring M: 61.5 bar/turn Spring D: 137 bar/turn 7:1 Spring M: 105 bar/turn Spring D: 234 bar/turn 11:1 Spring M: 159 bar/turn Spring D: 355 bar/turn
pressure setting established @	cracking pressure (1in3/min)
maximum valve leakage at reseal	5 drops / minute
operating characteristic	standard
reseal	>80%
maximum recommended load pressure at maximum setting	330 bar (4800 psi)
adjustment screw internal hex size	4
seal-lock hex size	13
seal-lock torque	12-15 Nm (9-11 lbf ft)
valve weight	1,77 Kg (3,9 lbs)
external component surface treatment	zinc plating + sealing
seal kit (nbr)	SK290SH1077x262
temperature range	-30 to 100°C (-22 to 212°F) with BunaN seals
fluids	Mineral-based or synthetics with lubricating properties at viscosities of 10 to 500 mm <sup>2</sup> /s (cSt)
filtration	Nominal value max. 10µm (NAS 8) / ISO 4406 19/17/14

- Backpressure at port 2 adds to the effective relief setting at a ratio of 1 plus the pilot ratio times the backpressure
- Set your counterbalance valve at least 1.3 times the maximum load induced pressure
- Indicated Reseat value is obtained with valve set @ maximum setting
- For customized settings and for settings from 360 bar to 420 bar please consult factory
- For special ports please consult factory



### Performance curves



Spring M = 60-210 bar  
**(Standard Setting 200 bar)**  
 Spring D = 210-360 bar  
**(Standard Setting 350 bar)**

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S | N | S | 3 | 1 | 2 | | G | 1 | 2 | | 0 | 0 | 0

02 = 2:1  
 04 = 4:1  
 07 = 7:1  
 11 = 11:1

