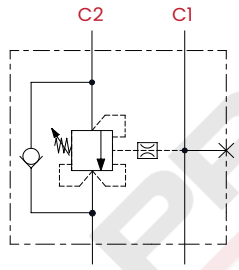
BSC COUNTERBALANCE NPTF

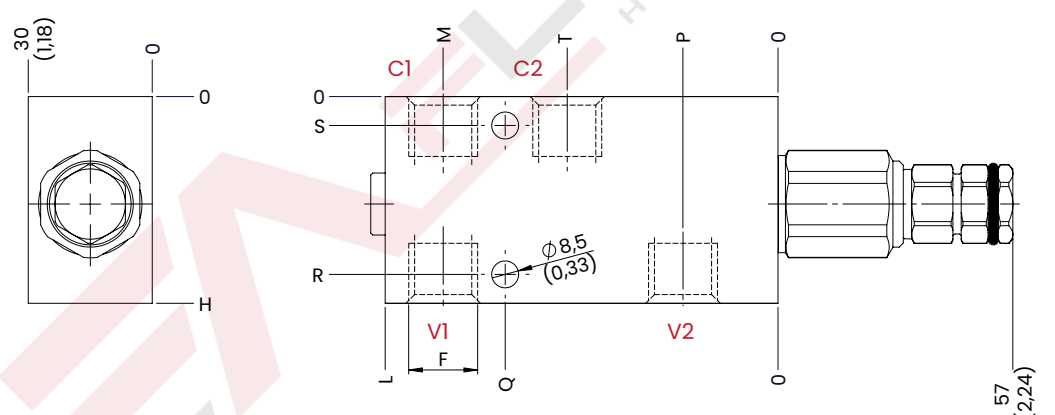
SINGLE COUNTERBALANCE VALVES FOR CLOSED CENTER

BSC counterbalance valves (NPTF thread) are used to keep a load locked, the built-in relief valve protects the system from overpressure in the cylinder by draining the oil.



HYDRAULIC CIRCUIT





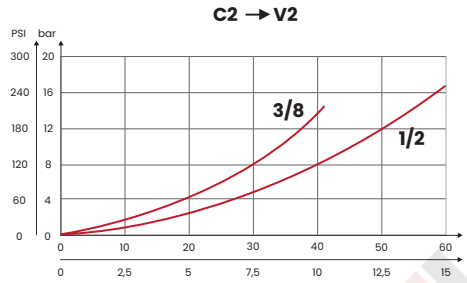
mm [Inches]

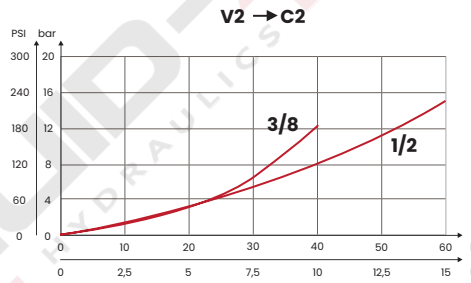
TECHNICAL CHARACTERISTICS

mm [Inches]

F	H	L	M	P	Q	R	S	T
3/8 NPTF	50 [1,97]	95 [3,74]	82 [3,22]	23 [0,91]	66 [2,60]	43 [1,70]	7 [0,28]	50 [1,97]
1/2 NPTF	60 [2,36]	100 [3,94]	85 [3,34]	21 [0,83]	67,5 [2,66]	50 [1,97]	10 [0,39]	49 [1,93]
Steel body (on request aluminium body - stainless steel AISI 316L body)								

PERFORMANCES





ORDERING CODE

CODE	TYPE	F ports	MAX FLOW l/min [USgpm]	MAX PRESSURE bar [PSI]	STANDARD SETTING bar [PSI]	RANGE SPRING bar [PSI]	INCREASE TO TURN bar [PSI]	PILOT RATIO	WEIGHT kg [lb]
FA1138	BSC2N21	3/8 NPTF	40 [10,6]	350 [5075]	210 [3045]	30/210 [435/3045]	80 [1160]	1:4,25	1,10 [2,42]
FA1139	BSC2N35				350 [5075]	60/350 [870/5075]	135 [1960]		
FA1140	BSC3N21	1/2 NPTF	60 [15,9]		210 [3045]	30/210 [435/3045]	80 [1160]	On request 1:8,1	1,28 [2,84]
FA1141	BSC3N35				350 [5075]	60/350 [870/5075]	135 [1960]		
Standard setting 350 bar [5075 PSI] **to 5 l/m** [1,32 USgpm]					**Standard setting 210 bar** [3045 PSI] **to 5 l/m** [1,32 USgpm]				

Mineral oil: DIN 51524 ISO 6743/4 | **Oil viscosity**: 15 to 250 cSt 15-250 mm2/s | **Oil temperature**: -4°F + 176°F -20°C +80°C | **Ambient temperature**: -4°F + 122°F -20°C +50°C | **Max contamination index with filter**: 5 to 250 cSt 15-250 mm2/s | It is necessary a filter use to protect the valve (advised filtration 15 µm) | **Max leakage**: 0,25 cm3/min - 5 drops/min at 80% of the calibration pressure

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