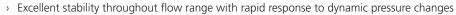
DBV3

M24x1.5 • Q_{max} 200 l/min (53 GPM) • p_{max} 480 bar (7000 PSI)

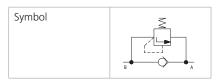




- > Low hysteresis, accurate pressure control and low pressure drop through CFD optimized flow paths
- > Adjustable pressure range 160-480 bar
- > Factory pre-set, non adjustable version only
- > Hardened precision parts
- > Sharp-edged steel seats for dirt-tolerant performance
- > Leak-free closing, suitable for fast cycling with long life
- > One-way bypass valve with suction function
- In the standard version, the valve is zinc-coated for 240 h protection acc. to ISO 9227. Enhanced surface protection for mobile sector available for the steel parts (ISO 9227, 520 h salt spray)

Functional Description

A direct acting, poppet type hydraulic relief valve in the form of a screw-in cartridge with reverse flow check intended for use as a pressure limiting and anti-cavitation device for common hydraulic circuit protection. The spring acts on the poppet and presses it on the valve seat. If the hydraulic pressure is below the pre-set value, the valve is closed. If the hydraulic force exceeds the pre-set value, the valve opens and flow passes to the tank port until the system pressure drops below the spring pre-set value and the valve closes again.



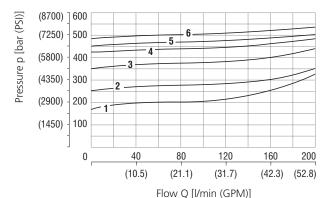
Technical Data

Valve size / Cartridge cavity		M24x1.5 / QH2		
Max. flow	l/min (GPM)	200 (52.8)		
Max. operating pressure	bar (PSI)	480 (6960)		
Fluid temperature range (NBR)	°C (°F)	-30 + 100 (-22 +212)		
Fluid temperature range (FPM)	°C (°F)	-20 +120 (-4 +248)		
Weight	kg (lbs)	0.16 (0.36)		
	Datasheet	Туре		
General information	GI_0060	Products and operating conditions		
Cavity details	SMT_0019	SMT-QH2*		
Spare parts	SP_8010			

Characteristics measured at $v = 32 \text{ mm}^2/\text{s}$ (156 SUS)

Relief pressure related to flow rate

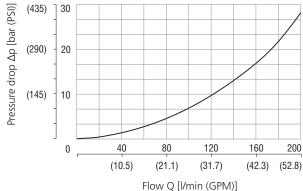
Pressure relief function, flow direction 2 - 1



Pressure range							
1	2	3	4	5	6		
160	250	350	420	450	480		

Pressure drop related to flow rate

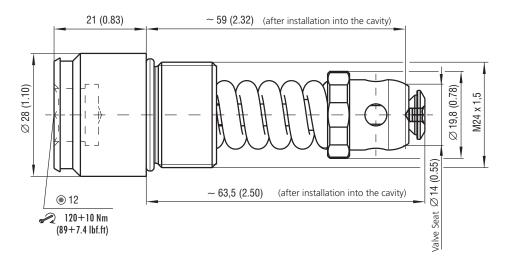
Check valve function, flow direction 1 - 2



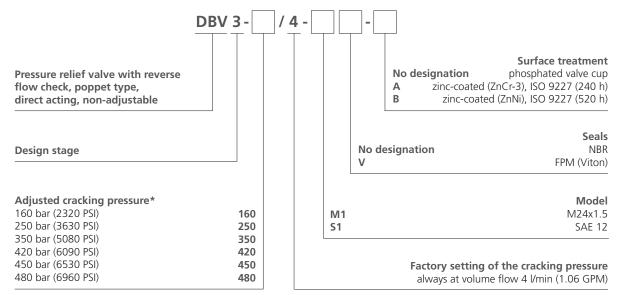
HOW Q [MIIIII (GEIVI)]

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Ordering Code



^{*}Other options for setting the cracking pressure on request.

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