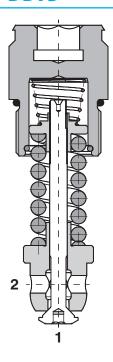


# DBV3

M24 x 1.5 • Q<sub>max</sub> 200 l/min (53 GPM) • p<sub>max</sub> 480 bar (7000 PSI)

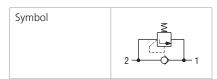


## **Technical Features**

- > Excellent stability throughout flow range with rapid response to dynamic pressure changes
- > 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

#### **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**

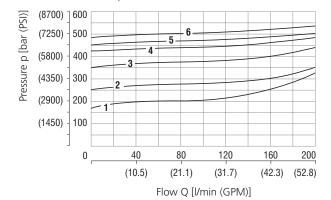
Valve size / Cartridge cavity		M24 x 1.5 / QH2
Max. flow	l/min (GPM)	200 (52.8)
Max. operating pressure	bar (PSI)	480 (6960)
Fluid temperature range (NBR)	°C (°F)	-30 + 100 (-22 +212)
Fluid temperature range (FPM)	°C (°F)	-20 +120 (-4 +248)
Weight	kg (lbs)	0.16 (0.36)
- 5	J ( /	(-17)

	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

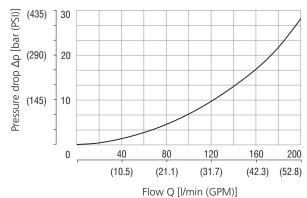
Pressure relief function, flow direction 2 - 1



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

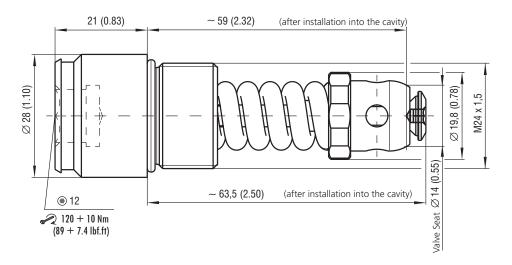
#### Pressure drop related to flow rate

Check valve function, flow direction 1 - 2

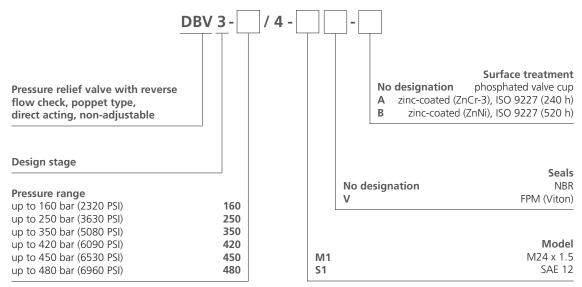


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## **Ordering Code**



<sup>\*</sup>All standard valves settings are at flow 4 l/min (1.06 GPM)

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