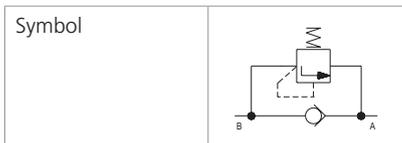


Technical Features

- › 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. 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.



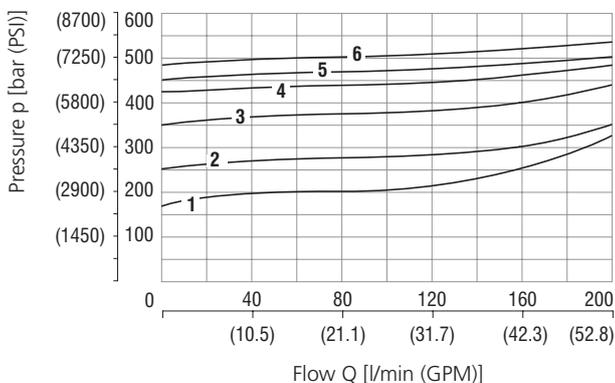
Technical Data

| | | |
|-------------------------------|-------------|-----------------------------------|
| Valve size / Cartridge cavity | | M24 x 1,5 / QH2 |
| Max. flow | l/min (GPM) | 200 (52.8) |
| Max. operating pressure | bar (PSI) | 480 (7000) |
| 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 | Type |
| General information | HA 0060 | Products and operating conditions |
| Cavity details | HA 0019 | SMT-QH2* |
| Spare parts | HA 8010 | |

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

Relief pressure related to flow rate

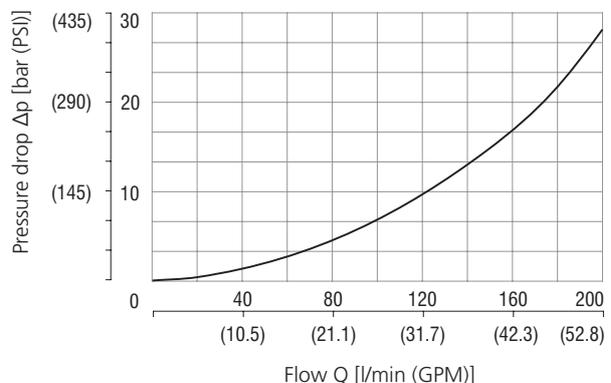
Pressure relief function, flow direction 2 - 1



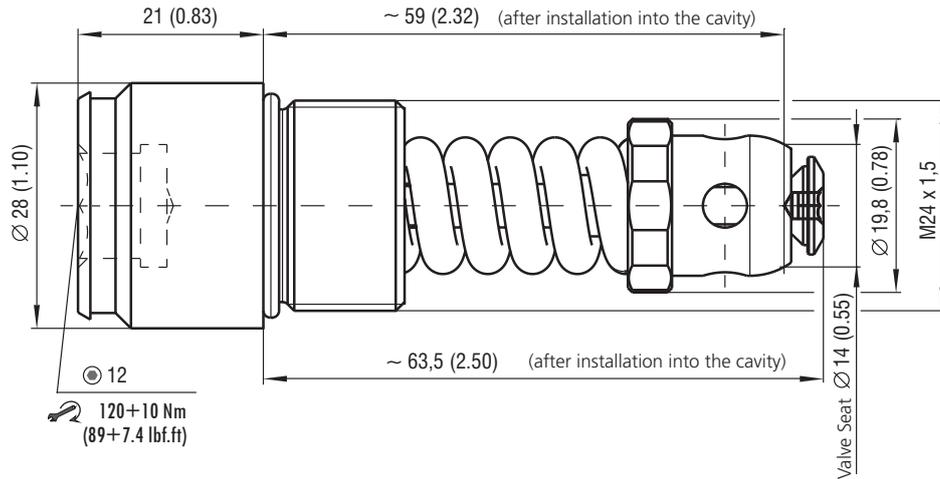
| Pressure range | | | | | |
|----------------|-----|-----|-----|-----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 |
| 160 | 250 | 350 | 420 | 450 | 480 |

Pressure drop related to flow rate

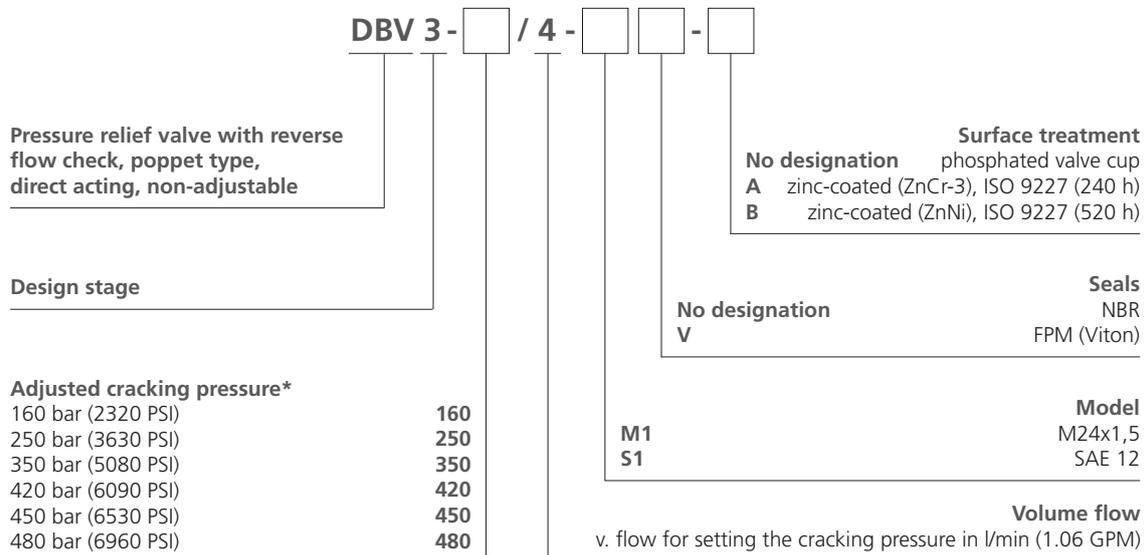
Check valve function, flow direction 1 - 2



Dimensions in millimeters (inches)



Ordering Code



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