

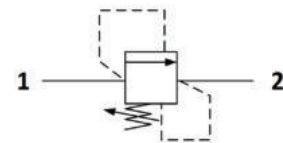
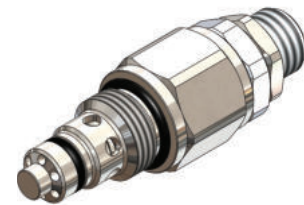


DB.CO.S09 Valve Series

SAE08 Cartridge – 350 Bar
Direct acting – Poppet type

Description & Operation

A screw-in, cartridge style, direct acting, poppet type, normally closed hydraulic relief valve. It's typically used to protect hydraulic components from pressure transients. When the pressure at the Inlet (1) reaches the valve setting, the valve starts to open to tank (2) throttling flow to minimize the pressure rise. The innovative geometry of the deflector provides in fact a very low rise rate, and the poppet design guarantees great stability. The cartridge offers quick response to load changes in hydraulic circuits requiring low internal leakage as well as limited hysteresis. NOTE : the DBCO in the standard configuration can be used in crossover relief applications.



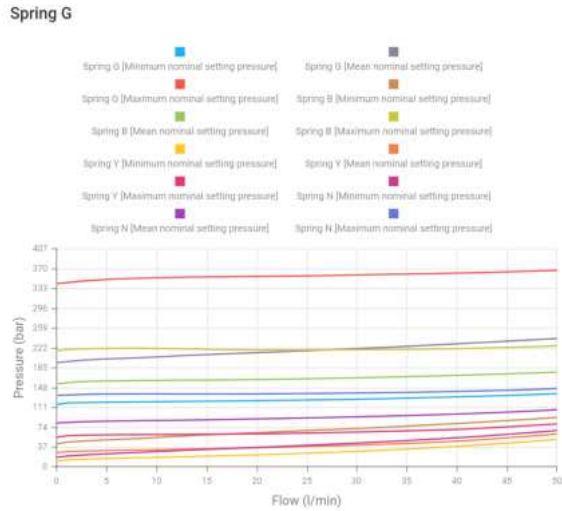
Hydraulic Symbol

Technical Data

Maximum operating pressure	350 Bar
Maximum flow	40 LPM
Setting Pressure	See table below
Maximum internal leakage	0.25 cm ³ /min to 80% of nominal set point
External component treatment	Zn/Fe - standard (96h) Zn/Ni (720h) upon customer request
O-ring Temperature	-30° C to 110° C (standard sealing NBR - BUNA-N)
Oil Temperature Range	-30° C to 110° C
Pressure settings established	@ 5.00 LPM
Reseat pressure	90% of cracking pressure
Fluids	Mineral - based or synthetics with lubricating properties
Viscosities	7.4 to 420 cSt
Filtration	20/18/15 ISO 4406 (maximum filtration admitted)
Orientation	No restrictions
Installation torque	40-45 Nm Hex. 24
Tightening torque nut	25-30 Nm Hex. 19
Oil testing condition	ISO VG 46 cSt
Seal kit code	SLKT.003
Plastic tamper proof cap	CTP.001
Weight	0.145 kg

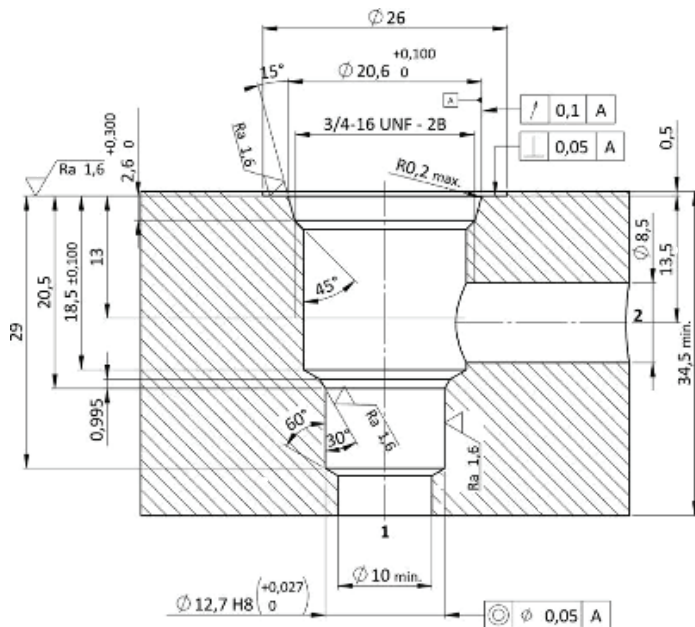
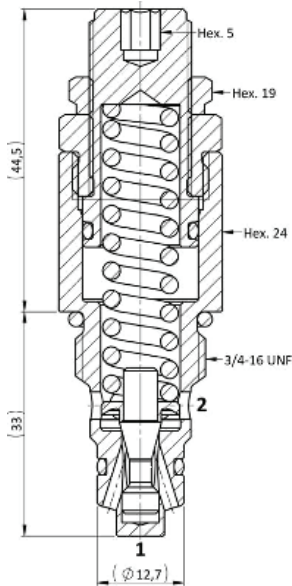
Performance Curve

Note:
The performance chart illustrates flow handling capacity for significant spring bias options. p/Q curves are recorded at TOil = 40°C and 46 cSt.



Dimensional Drawing

Cross Section and Cavity Details



Ordering Code

D B • C 0 • S 0 9 • 0 * • * * *

valve basic code

Cavity
S10 = 3/4-16 UNF with $\varnothing 12,7$ nose sizes

Marking
0 = standard factory marking. customized marking can be done upon request

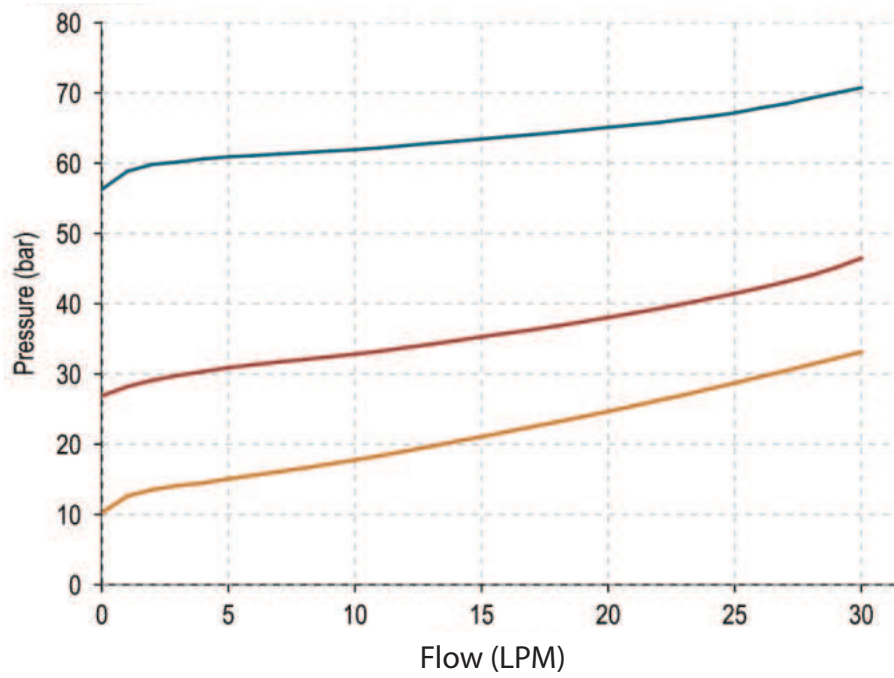
pressure setting in (bar)
000 = No specific setting required

Spring range

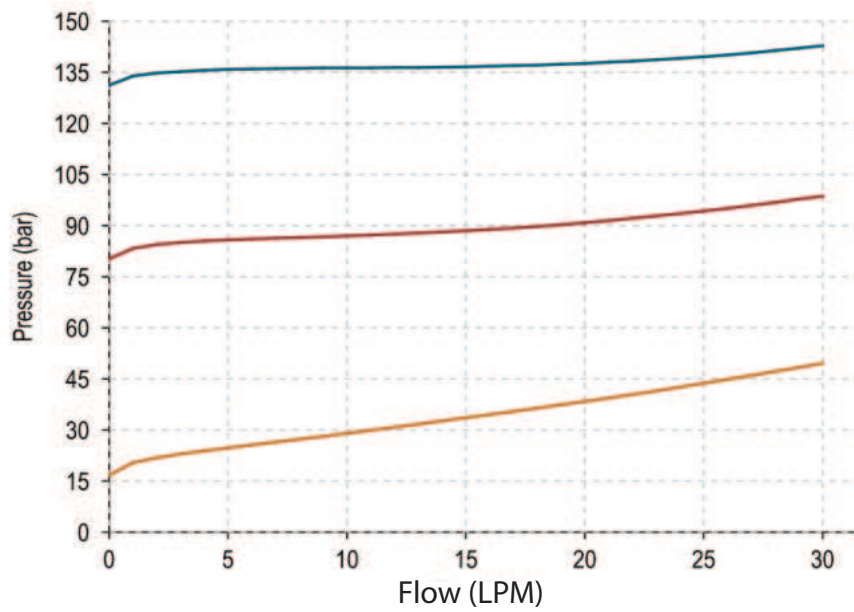
Spring model Code	Pressure setting range (Bar)	Pressure Increment per turn (Bar)
Y	15-60	8
N	25-135	20
B	50-220	34
G	120-350	59

 Spring Graph

● Spring = Y



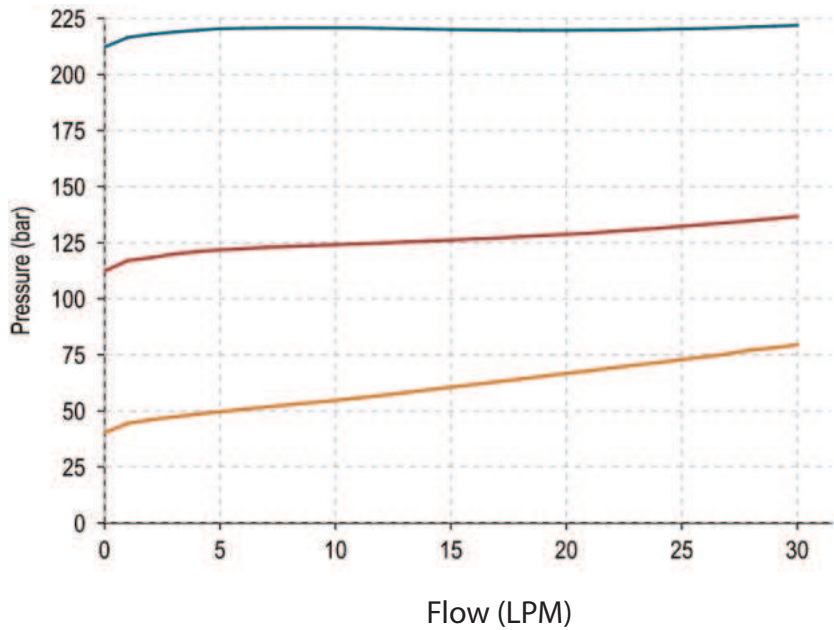
● Spring = N



RELIEF VALVES

 Spring Graph

● Spring = B



● Spring = G

