



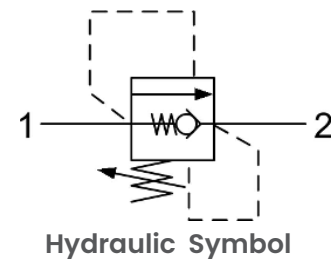
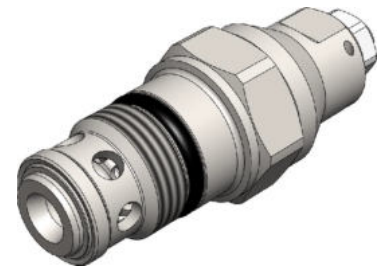
DB.A0.M18 Valve Series

METRIC 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) providing a limited pressure rise. The reduced dimensions and the excellent response time make this valve ideally suited for pilot circuits. Hysteresis is also extremely low.

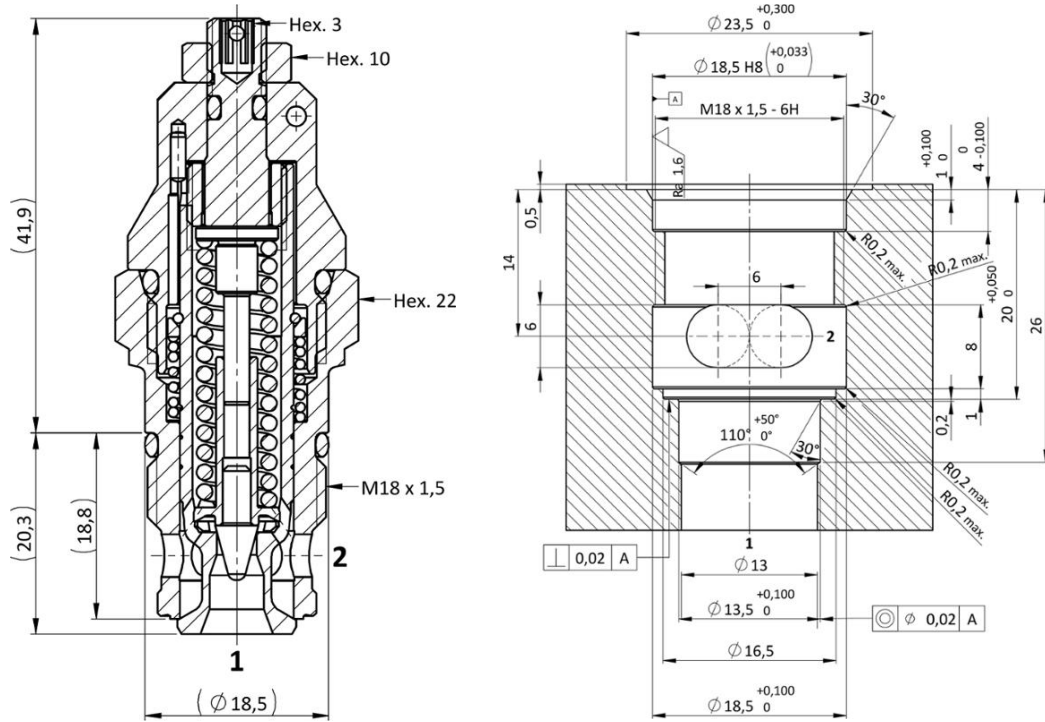


Technical Data

Maximum operating pressure	350 Bar
Maximum flow	60 LPM
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	50 - 55 Nm Hex 22
Tightening torque nut	5- 10 Nm Hex. 10
Oil testing condition	ISO VG 46 cSt
Seal kit code	SLKT.102
Weight	0.117 kg

 Performance Curve

Cross Section and Cavity Details



 Ordering Code

D B • A 0 • M 1 8 • 0 * • * * *

valve basic code

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

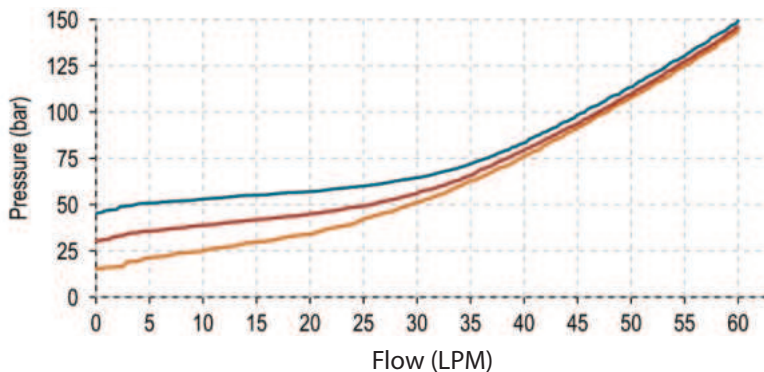
Cavity
M18 =METRIC M18 X 1.5
No other cavity option available

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

Spring range

Spring model code	Pressure setting range (bar)	Pressure increment per turn (bar/turn)
Y	1-30	10
N	10-100	56
B	10-250	136
G	10-450	258

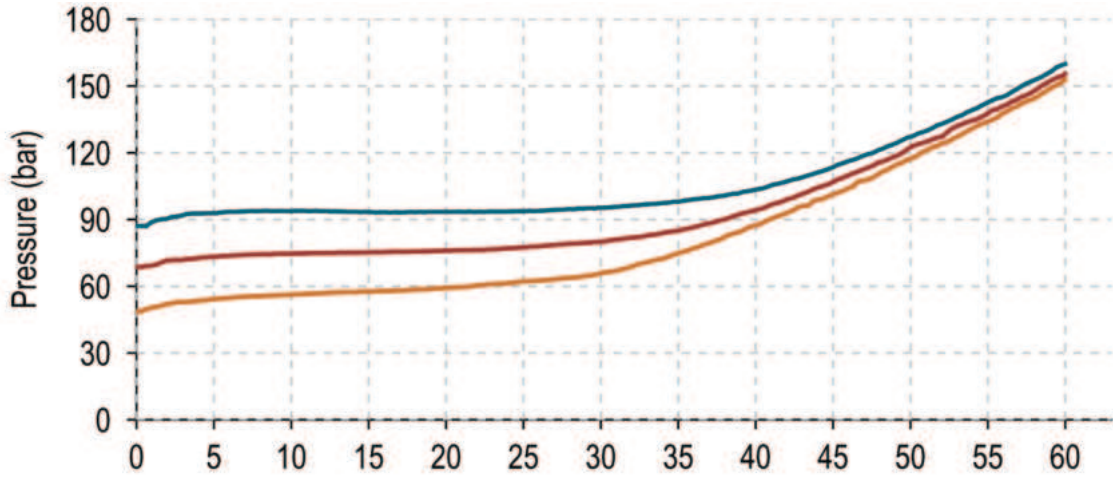
● Spring = Y



RELIEF VALVES

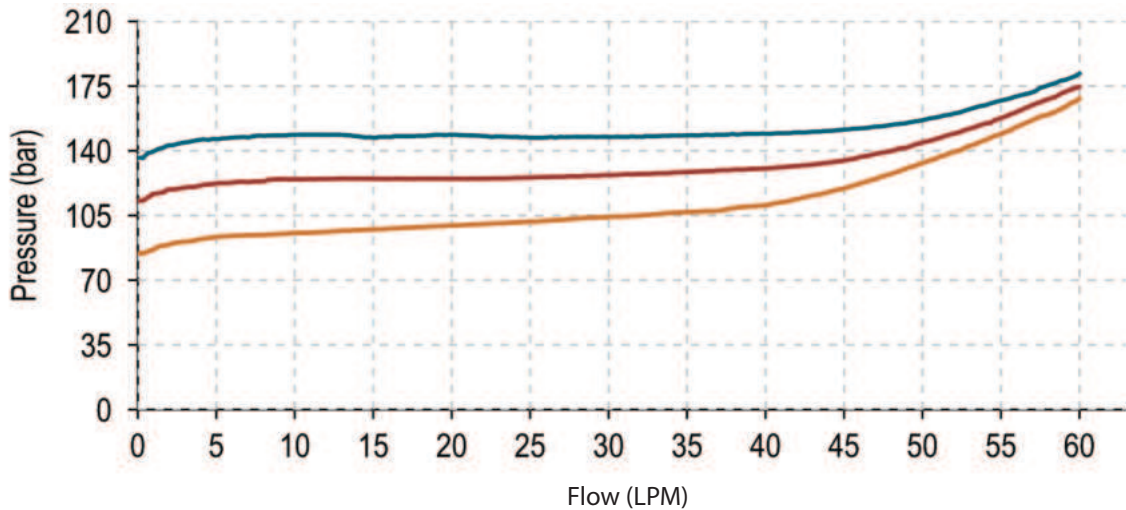
 Spring Graph

● Spring = N

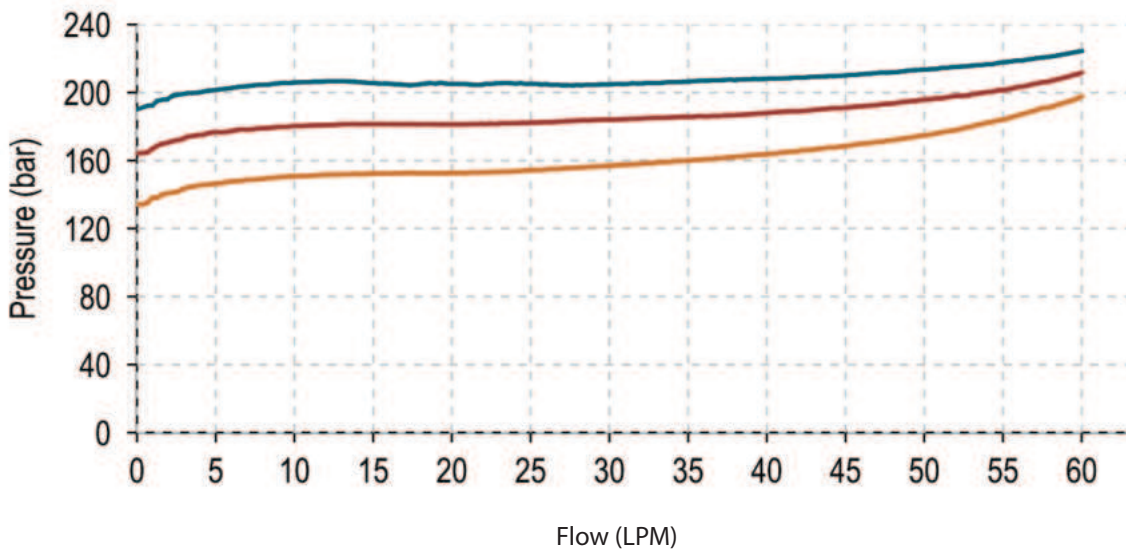


● Spring = B

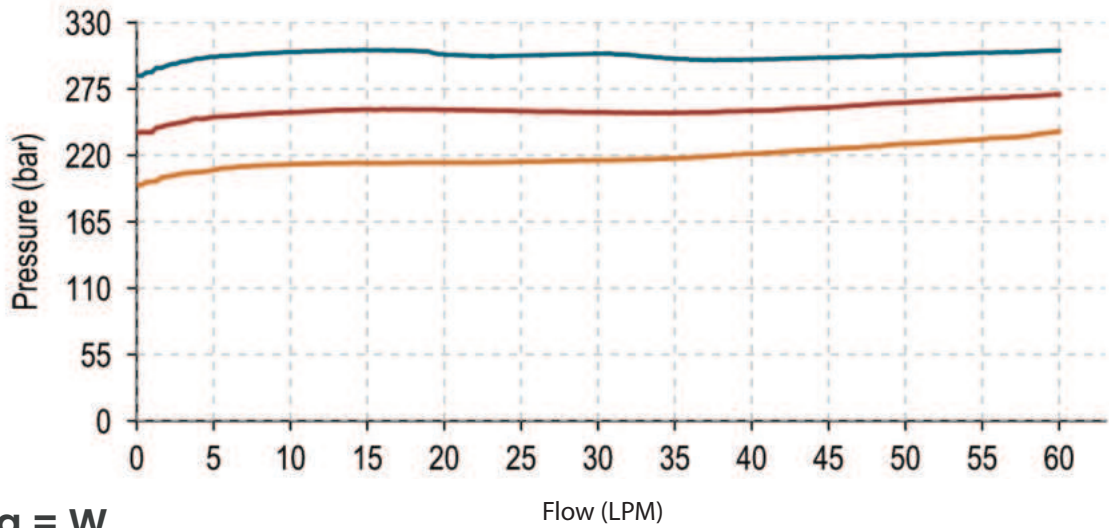
Flow (LPM)



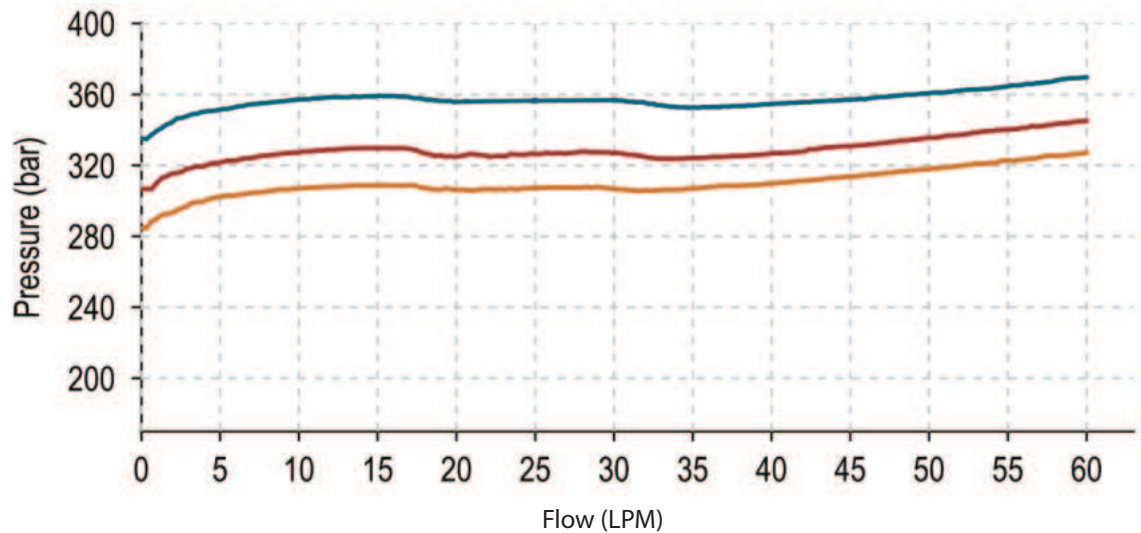
● Spring = G



● Spring = V



● Spring = W



ANTI-CAVITATION FUNCTION

