

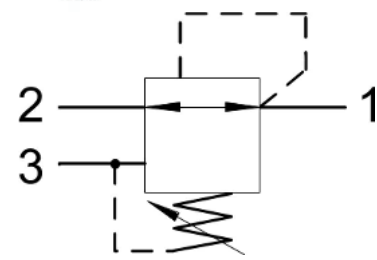
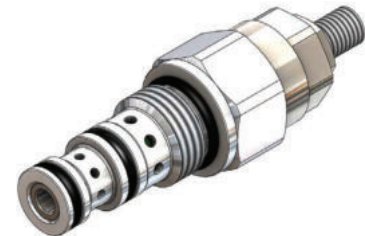


DR.A0.S08 Valve Series

SAE Cartridge – 350 Bar
Direct acting – Spool Type

Description & Operation

A screw-in, cartridge style, direct acting, poppet type, hydraulic pressure reducing and relieving valve with internal spring chamber drain. When the pressure at port (1) is below the valve setting, the valve allows the flow to pass bidirectionally from (1) to (2). When the pressure at port (1) exceeds the valve setting, the spool shifts to restrict the flow at port (2), relieving or reducing the pressure at port (1) depending on the flow direction. A further pressure increase in port (1) causes the spool to shift against the spring so that the flow is relieved to tank (3). The system is self-regulated and stable thanks to an appropriate negative feedback. The spring chamber is constantly drained to tank.

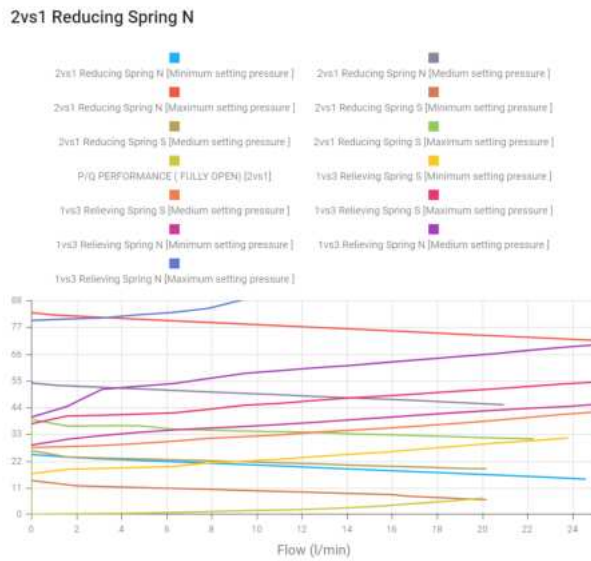


Hydraulic Symbol

Technical Data

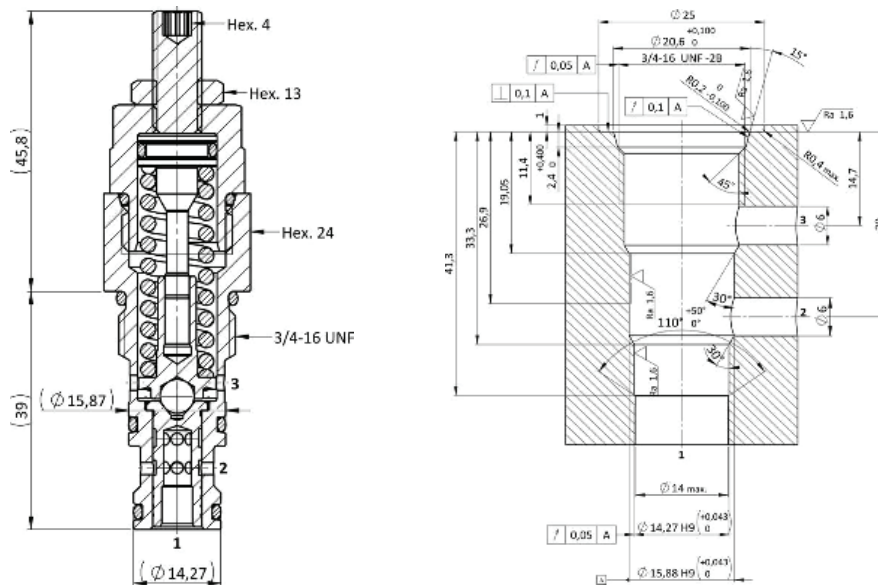
Maximum operating pressure	350 Bar (see table below for setting pressure)
Maximum flow	20 LPM
Maximum internal leakage	100 cm ³ / min to 80% of nominal set point
External component treatment	Zn/Fe - standard (96h) Zn/Ni (720h)
O-ring Temperature Range	-30° C to 110° C (standard sealing NBR - BUNA-N)
Oil Temperature Range	-30° C to 110° C
Pressure settings established	@ 1.00 LPM
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	45-50 Nm Hex. 24
Tightening torque nut	10-15 Nm Hex. 17
Oil testing condition	ISO VG 46 cSt
Seal kit code	SLKT.035
Weight	0.141 Kg

Performance Curve



Dimensional Drawing

Cross Section and Cavity Details



Ordering Code

P R • A 0 • S 0 8 • 0 * • * * *

valve basic code

Cavity
S08 = 3/4- 16 UNF with
ø15.87 and ø14.27
nose sizes

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

Spring range

Spring model Code	Pressure setting range (Bar)
S	15-40
N	20-80

Setting Pressure in (bar)
Note=standard setting
are multiple of 5 bars

PRESSURE REDUCING VALVES