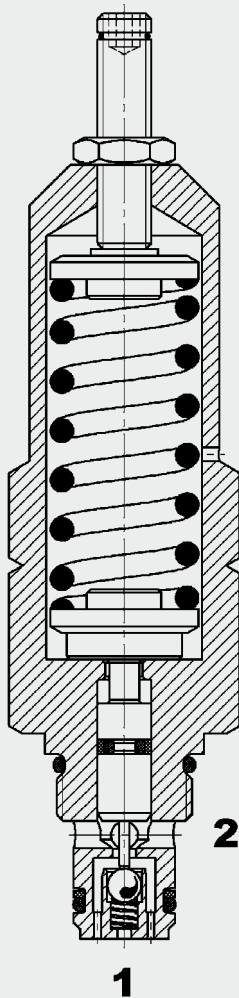


Up to 15 l/min
Up to 500 bar

FUNCTION



The overpressure protection valve DSR5E is a direct-acting, spring-loaded poppet valve. When the pressure rises above the pre-set spring tension, the valve closes and the oil flow to the consumer port 2 is blocked.

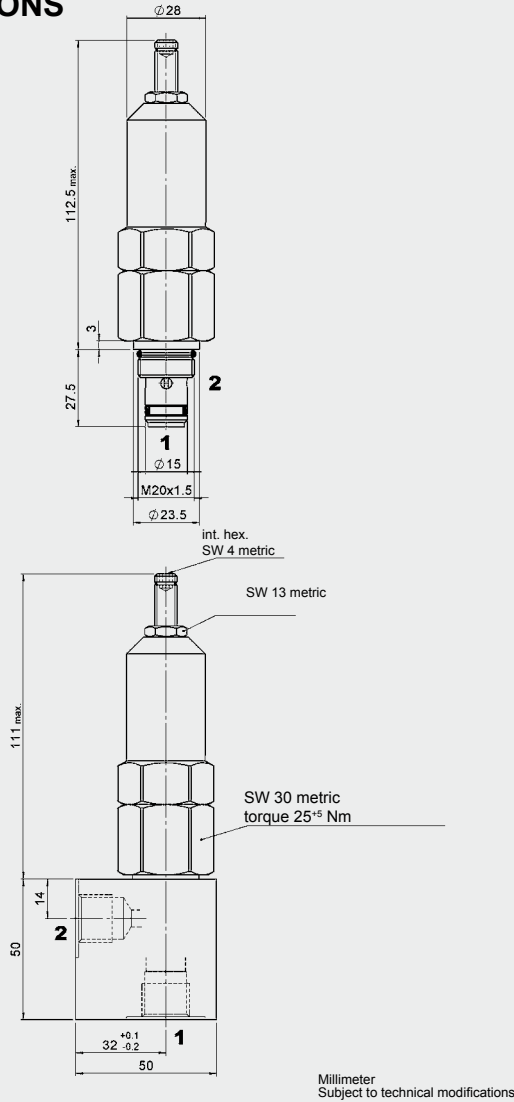
FEATURES

- To shut off consumers when certain pressures are reached
- Excellent dynamic performance
- Excellent stability throughout the entire flow range
- Hardened and ground valve components to ensure minimal wear and extended service life
- Adjustable up to 350 bar
- Various pressure ranges up to 350 bar

SPECIFICATIONS

Operating pressure:	max. 500 bar, can be set up to 350 bar
Nominal flow:	max. 15 l/min
Pressure setting ranges:	100 / 250 / 350 bar
Cut-out pressure tolerance:	+/- 5 bar
Internal leakage:	Leakage-free (max. 5 drops $\hat{=}$ 0,25 cm ³ /min at 350 bar)
Media operating temperature range:	min. -20 °C to max. +120 °C
Ambient temperature range:	min. -20 °C to max. +120 °C
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2
Viscosity range:	min. 2.8 mm ² /s to max. 800 mm ² /s
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner
MTTF _a :	150 years (see "Conditions and instructions for valves" in brochure 5.300)
Installation:	No orientation restrictions, preferably horizontal
Materials:	Valve body: steel Piston: hardened and ground steel Seals: FKM (standard) NBR (optional, media temperature range -30 °C to +100 °C) Back-up rings: PTFE
Cavity:	06020
Weight:	0.38 kg

DIMENSIONS



MODEL CODE

DSR5 E - 01X / 250 V 110

Basic model _____
Overpressure protection valve, metric

Body and ports _____
E = cartridge

Type _____
01 = standard

Pressure setting range _____
100 = 0 to 100 bar
250 = 0 to 250 bar
350 = 0 to 350 bar

Type of adjustment _____
V = adjustable

Pre-set cut-out pressure _____
110 = 110 bar
Other settings on request

Standard models

Model code	Part No.
DSR5E-010/100V	710280
DSR5E-010/250V	710281
DSR5E-010/350V	710282

Other models on request

Standard in-line bodies

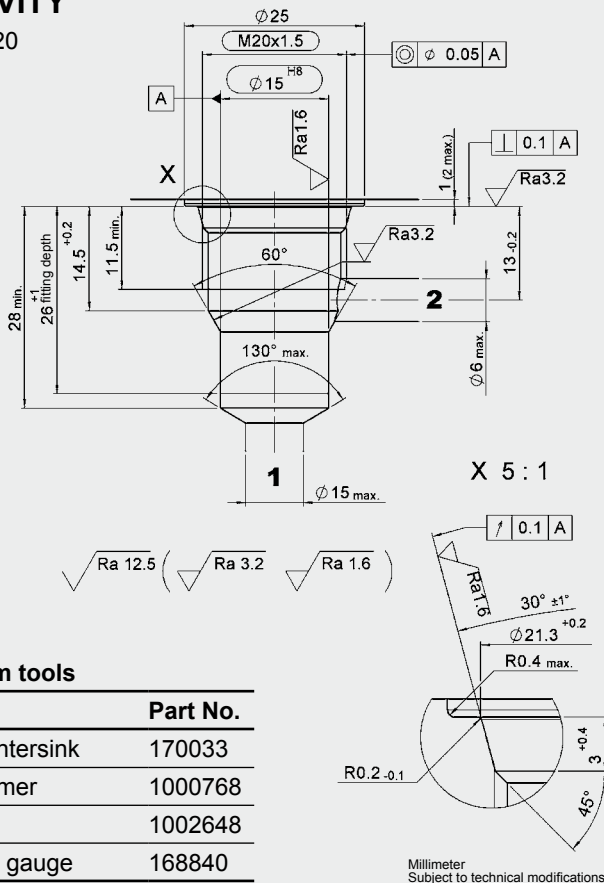
Code	Part No.	Material	Ports	Pressure
R06020-01X-01	275266	Steel, zinc-plated	G3/8	350 bar
R06020-10X-01	276842	Steel, zinc-plated	G3/8	350 bar

Seal kits

Code	Part No.
SEAL KIT 06020-NBR	3119017
SEAL KIT 06020-FKM	3262477

CAVITY

06020

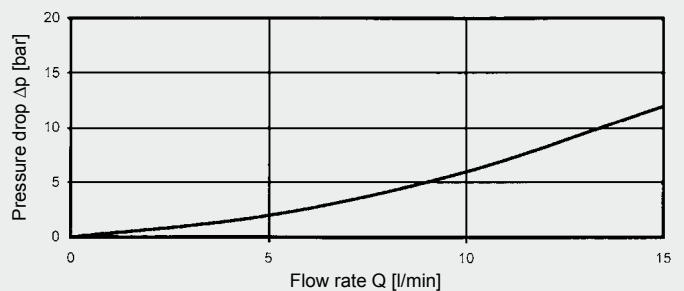


Form tools

Tool	Part No.
Countersink	170033
Reamer	1000768
Tap	1002648
Plug gauge	168840

Δp -Q GRAPH

Measured at $v = 38 \text{ mm}^2/\text{s}$, $T_{\text{oil}} = 43 \text{ }^\circ\text{C}$



NOTE

The information in this brochure relates to the operating conditions and applications described. For applications or operating conditions not described, please contact the relevant technical department.
Subject to technical modifications.

HYDAC Fluidtechnik GmbH
Justus-von-Liebig-Str.
D-66280 Sulzbach/Saar
Tel: 0 68 97 /509-01
Fax: 0 68 97 /509-598
E-Mail: flutec@hydac.com