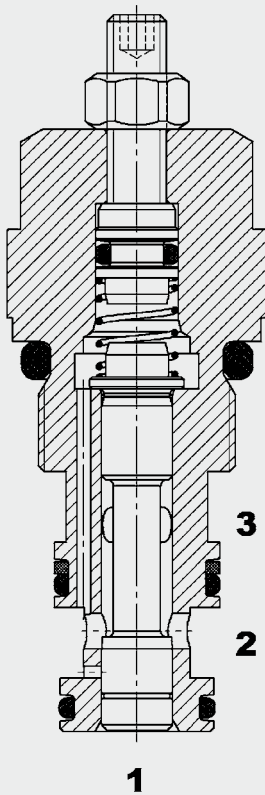


Up to 20 l/min
Up to 250 bar

FUNCTION



The SDH05330 is a hydraulically operated, spring-loaded, adjustable spool valve. In the normal position, the valve is open and there is flow from port 3 to port 2. When control pressure is applied to port 1, the valve switches into the flow control position and the flow is reduced.

The flow setting can be adjusted using the set screw (clockwise to increase flow, counter-clockwise to decrease flow)

Caution: the control pressure must generally be greater than the pressure at port 2, otherwise the valve will not function.

In order that the valve switches back from the flow control position to the fully open position, port 1 must be vented and (at this moment) there must be no flow through the valve.

Needle Valve Spool Type, Hydraulically Operated Metric Cartridge – 250 bar SDH05330

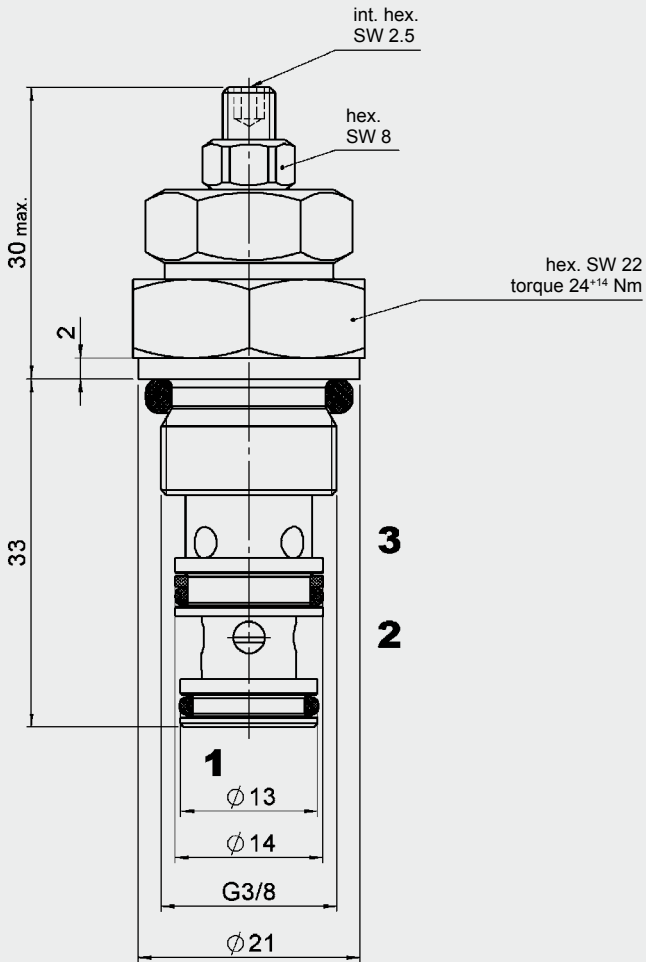
FEATURES

- Flow control is dependent on the viscosity of the oil and the system pressure
- A lock-nut locks the setting
- External surfaces zinc-plated
- Hardened and ground control piston to ensure minimal wear and extended service life
- Compact design

SPECIFICATIONS

Operating pressure:	max. 250 bar
Nominal flow:	max. 20 l/min
Control pressure:	min = P at Port 2 + 5 bar, max. 250 bar
Media operating temperature range:	min. -20 °C to max. +100 °C
Ambient temperature range:	min. -20 °C to max. +100 °C
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2
Viscosity range:	min. 10 mm ² /s to max. 380 mm ² /s
Filtration:	Class 21/19/16 to ISO 4406 or cleaner
MTTF _d :	150 years (see "Conditions and instructions for valves" in brochure 5.300)
Installation:	No orientation restrictions
Materials:	Valve body: high tensile steel Piston: Hardened and ground steel Seals: FKM (standard) NBR (optional, media temperature range -30 °C to +120 °C)
	Back-up rings: PTFE
Cavity:	05330
Weight:	0.075 kg

DIMENSIONS



Millimeter
Subject to technical modifications

MODEL CODE

SDH 05330 - 01 X

Basic model _____
Flow control valve, hydraulically operated

Cavity _____
05330 = 2-way cavity

Type _____
01 = standard

Series _____
(determined by manufacturer)

Standard models

Code	Part No.
SDH05330-01X	394746

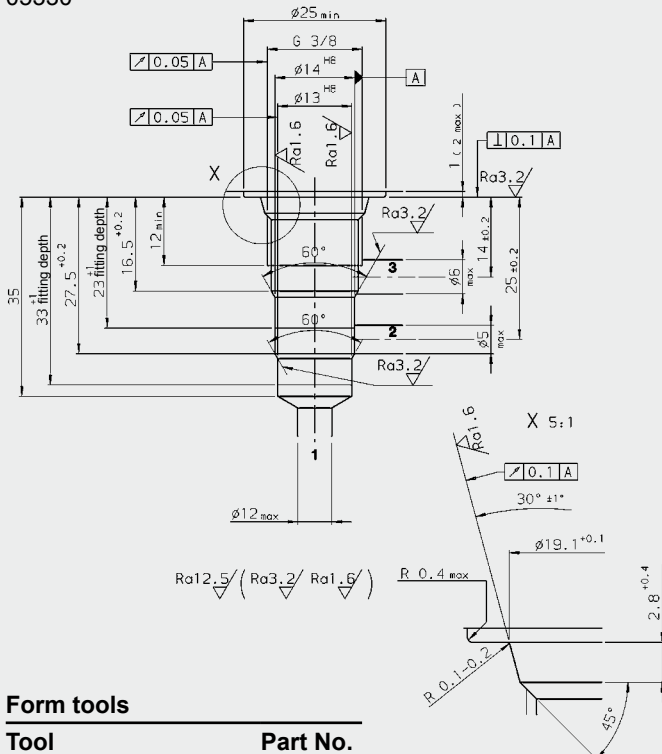
Other models on request

Seal kits

Code	Part No.
SEAL KIT WKH05330-XXX FKM	3006592

CAVITY

05330



Form tools

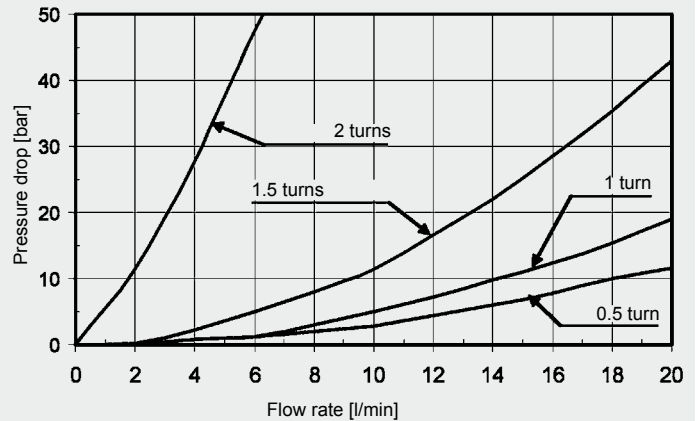
Tool	Part No.
Countersink MK3	168309
Reamer MK1	161079

Millimeter
Subject to technical modifications

PERFORMANCE

Measured at $v = 34 \text{ mm}^2/\text{s}$
 $T_{oil} = 46 \text{ °C}$

Set screw turned clockwise as far as stop.
Number of turns indicated, counter-clockwise,
starting from this setting



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.

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