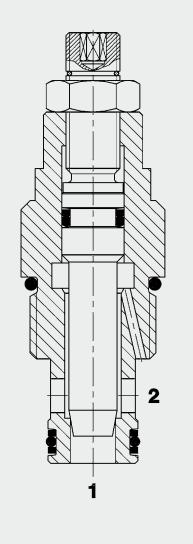


2

160 l/min 420 bar

FUNCTION



The SD10 is a flow control valve which controls the flow rate by adjusting the cross section. The flow rate is therefore dependent on the pressure differential and viscosity. Starting with the throttle spindle in the fully closed position, the flow rate increases in accordance with the appropriate curve as the control knob is turned. The flow is controlled in

 knob is turned. The flow
both directions.
Control knob option: The
on the top of the control
accurate repeat setting. Control knob option: The coloured rings on the top of the control knob enable

Needle Valve SAE-10 Cartridge - 420 bar SD10-01

UNF

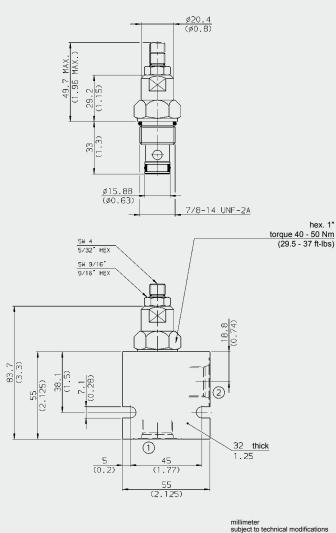
FEATURES

- For regulating the speed of loads
- External surfaces zinc-plated and corrosion-proof
- Flow adjustable from full flow to complete shut-off
- Compact design

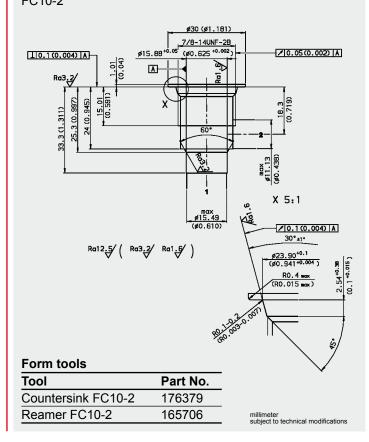
SPECIFICATIONS

Operating pressure:	max. 420 bar		
Nominal flow:	max. 160 l/min		
Media operating temperature range:	min30 °C to max. +100 °C		
Ambient temperature range:	min30 °C to max. +100 °C		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity range:	min. 7.4 mm ² /s to max. 420 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:	free-cutting steel	
	Control spindle:	hardened and ground steel	
	Seals:	NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C)	
Cavity:	FC10-2		
Weight:	0.15 kg		





CAVITY FC10-2



MODEL CODE

<u>SD10-01</u> C - N - V

Basic model — Needle valve UNF

Body and ports*

 $C = cartridge only \\ SB4 = G1/2 \text{ ports, steel body} \\ AB4 = G1/2 \text{ ports, aluminium body}$

Seals

- N = NBR (standard)
- V = FKM

Type of adjustment

- V = Allen head (int. hex. 5/32")
- H = knob adjustment

Other adjustment types on request

Standard models

Model code	Part No.
SD10-01-C-N-V	3017145
SD10-01-C-N-H	3054472

*Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
FH102-SB4	3037594	Steel, zinc-plated	G1/2	420 bar
FH102-AB4	3037777	Aluminium, clear anodized	G1/2	210 bar

Seal kits

Code	Material	Part No.
FS102-N SEAL KIT	NBR	3033872
FS102-V SEAL KIT	FKM	3051757

PERFORMANCE

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

