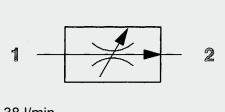
YDAO INTERNATIONAL



38 I/min 350 bar

FUNCTION

The SR10 is a pressure compensated flow control valve which maintains a

control function. The flow rate is largely independent of the pressure and

constant outlet flow by means of a

viscosity.

The valve has a fixed orifice with pressure compensator spool. The metering orifice determines the setting range for the flow rate and can be adjusted within a limited range. If oil is flowing from 1 to 2, a pressure drop occurs at the metering orifice. The pressure compensator moves into the control position which corresponds to the force equilibrium. This is created by the pressure drop acting on the control piston area overcoming the spring force. As the flow rate increases (increasing pressure drop), the diameter of the control orifice is reduced until the forces are equal again. A constant flow rate is therefore achieved. In the reverse direction there is free flow through the valve. Important: if the required control pressure differential is not reached, the valve operates as a throttle valve.

2-Way Flow Regulator **Pressure Compensated Restrictive Style,** SAE-10 Cartridge - 350 bar

SR10-01

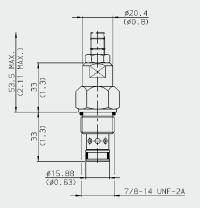
FEATURES

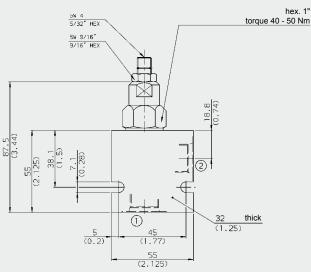
- Excellent stability throughout the entire flow range
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Low pressure drop due to CFD optimized flow path
- Optional flow ranges up to 38 l/min
- The flow rate can still be adjusted within a limited range.

SPECIFICATIONS

max. 350 bar		
(210 bar from port 2 to 1)		
max. 38 l/min		
4.0 – 13.0 l/min ±10%		
13.0 – 38.0 l/min ±10%		
min30 °C to max. +120 °C		
Hydraulic oil to DIN 51524 Part 1 and 2		
min. 7.4 mm²/s to max. 420 mm²/s		
Class 21/19/16 to ISO 4406		
or cleaner		
150 years (see "Conditions and instructions for valves" in brochure 5.300)		
Valve body:	free-cutting steel	
Spool:	hardened and ground steel	
Seals:	NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C)	
FC10-2		
0.16 kg		
	(210 bar from max. 38 l/min 4.0 – 13.0 l/m 13.0 – 38.0 l/m min30 °C to Hydraulic oil to min. 7.4 mm²/s Class 21/19/16 or cleaner 150 years (see instructions for Valve body: Spool: Seals:	

DIMENSIONS

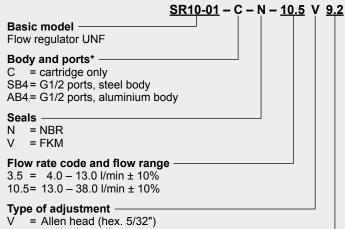




millimeter subject to technical modifications

CAVITY FC10-2 7/8-14UNF-2B ø15.88 (Ø0.625 +0.002 / 0.05(0.002) A 10.1(0.004) A A Ra3.2/ 25.3 (0.997) 18.3 24 (0.945) 33.3 (1.311) Ø11.1 max ø15,49 (ø0.610) X 5:1 / 0.1(0.004) A 30°±1° ø23.90^{+0.1} (ø0.941^{+0.004}) Ra12.5/ (Ra3.2/ Ro1.6/ R0.4 max (R0.015 max) 6. Form tools Tool Part No. Countersink FC10-2 176379 Reamer FC10-2 165706 millimeter subject to technical modifications

MODEL CODE



= Knob adjustment

= Factory preset, non adjustable

Opening flow rate setting

No details = no setting

9.2 = 9.2 l/min customer-specific flow setting on request

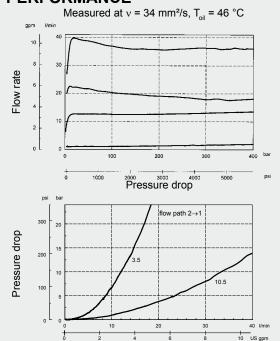
Standard models

Model code	Part No.
SR10-01-C-N-3.5V	3053635
SR10-01-C-N-10.5V	3053636

*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

PERFORMANCE



Flow rate

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

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