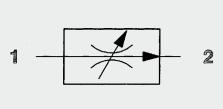
YDAO INTERNATIONAL



38 I/min 350 bar

FUNCTION

The SR10 is a pressure compensated flow control valve which maintains a constant outlet flow by means of a control function. The flow rate is largely independent of the pressure and 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

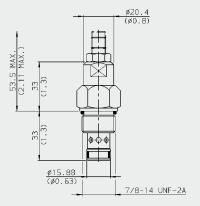
FEATURES

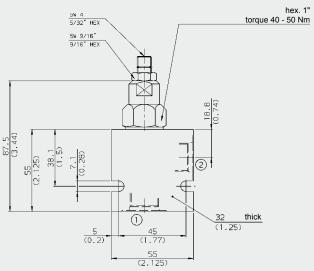
- Excellent stability throughout the entire flow range
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Low pressure drop due to CFD optimized flow path
- Optional flow ranges up to 38 l/min
- The flow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

SPECIFICATIONS

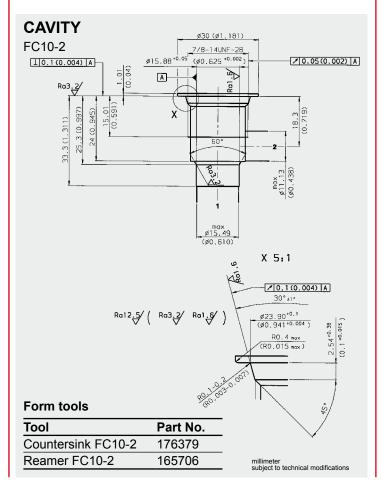
Operating pressure:	max. 350 bar		
	(210 bar from port 2 to 1)		
Nominal flow:	max. 38 I/min		
Flow ranges and accuracy:	4.0 – 13.0 l/min ±10% 13.0 – 38.0 l/min ±10%		
Media operating temperature range:	min30 °C to max. +120 °C		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity:	min. 7.4 mm²/s to max. 420 mm²/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)		
Material	Valve body:	free-cutting steel	
Material			
Material	Valve body:	free-cutting steel	
Material	Valve body: Spool:	free-cutting steel hardened and ground steel NBR (standard) FKM (optional, media	
Material	Valve body: Spool:	free-cutting steel hardened and ground steel NBR (standard) FKM (optional, media temperature range	
Material	Valve body: Spool:	free-cutting steel hardened and ground steel NBR (standard) FKM (optional, media	
Material Cavity:	Valve body: Spool:	free-cutting steel hardened and ground steel NBR (standard) FKM (optional, media temperature range	
	Valve body: Spool: Seals:	free-cutting steel hardened and ground steel NBR (standard) FKM (optional, media temperature range	

DIMENSIONS

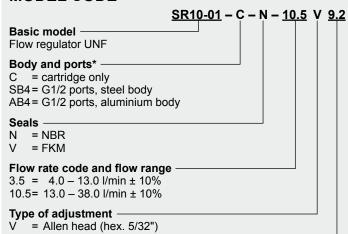




millimeter subject to technical modifications



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

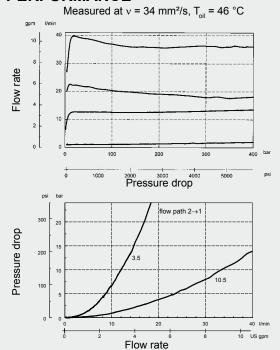
Standard models

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



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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