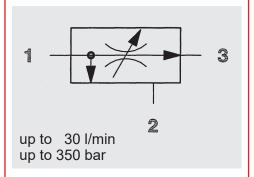
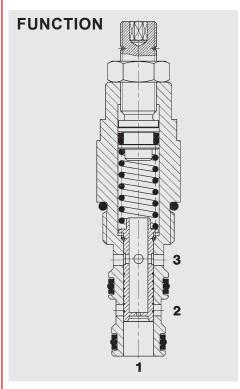
# YDAO INTERNATIONAL





The flow regulatoris in priority style is a direct-acting 3-way spool type valve. A pressure compensator is connected downstream of a measuring orifice with a constant diameter. This keeps the pressure drop at the orifice plate and thus the output volume flow at 3 constant. The volume flow at 3 is largely independent of pressure fluctuations at the connections. The control pressure difference of the pressure compensator - and thus the controlled volume flow at 3 - can be adjusted within a defined range.

Priority flow controller: The difference between the incoming input volume flow at 1 and the outgoing controlled consumer volume flow at 3 (also called priority volume flow) is diverted as residual volume flow to port 2. Port 2 is pressure resistant. If port 3 is blocked, the valve closes port 1 and the flow rate is not diverted via the valve. If port 2 is blocked, the valve operates as a 2-way flow regulator from 1 to 3. If the required control pressure difference of the pressure compensator is not reached, the valve operates as a throttle with fixed orifice from port 1 to 3.

3-Way Flow Regulator pressure compensated priority style, direct-acting UNF Cartridge – 350 bar SRP08-01

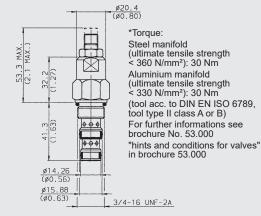
# **FEATURES**

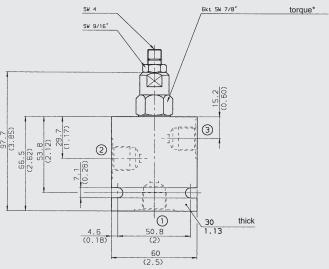
- For regulating the speed of loads independently of the pressure
- For limiting the max. speed of lifting gears (in compliance with accident prevention regulations)
- For limiting the flow rate for control oil circuits in the main circuit and offline
- For prioritized supply of actuators, such as steering and braking the excess flow is diverted to port 2
- Exposed surfaces zinc-nickel plated for increased corrosion protection (1.000 h Salt spray test)

# SPECIFICATIONS\*

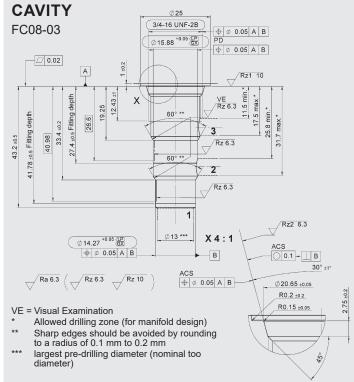
Operating pressure:	max. 350 bar		
Inlet flow (port 1):	max. 50 l/min		
Flow rate (port 3):	max. 30 l/min		
Flow ranges and accuracy:	1.3 – 1.8 l/min		
(port 3)	1.6 – 2.5 l/min		
	2.0 – 3.7 l/m	** *	
	3.5 – 6.5 l/min		
	6.0 - 12.5 l/m 8.8 - 20.8 l/m		
	13.5 – 30.0 l/m		
Media operating temperature range:	min30 °C to max. +100 °C		
Ambient temperature range:	min30 °C to max. +100 °C		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1, 2 and 3		
Viscosity range:	min. 10 mm²/s to max. 420 mm²/s		
Filtration:	Class 21/19/16 according to ISO 4406 or		
	cleaner		
MTTF <sub>d</sub> :	150 - 1200 Jahre,		
	according to DIN EN ISO 13849-1		
Installation:	No orientation restrictions		
Materials:	Valve body:	steel	
	Piston:	hardened and ground steel	
	Seals:	NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C)	
	Pook up ringo:	,	
Covity	Back-up rings:	FIFE	
Cavity:	FC08-3		
Weight:	0.126 kg	50.000	
*see "Conditions and instructions for valves" in brochure 53.000			

EN 5.929.5/07.19





millimeter (inch) subject to technical modifications



### Form tools

Tool	Part No.
Countersink	175644
Reamer	175645

millimeter (inch) subject to technical modifications

# **MODEL CODE**

SRP08-01 - C - N - 0.9 V 0.9Basic model Flow regulator, UNF Body and ports\* = cartridge only **Seals** = NBR (standard) Ν = FKM

## Flow rate code and flow range

0.4 = 1.3 - 1.8 l/min0.5 = 1.6 - 2.5 l/min 0.9 = 2.0 - 3.7 l/min 1.6 = 3.5 - 6.5 l/min

3.0 = 6.0 - 12.5 l/min

5.5 = 8.8 – 20.8 l/min

7.9 = 13.5 - 30.0 l/min

# Type of adjustment

= Allen head H = knob adjustment

Other adjustment types on request

0.9 = 0,9 Gpm (approx. 3,4 l/min)

No details = set to lowest value of flow range

# Standard models

Model code	Part No.
SRP08-01-C-N-0.5V	3020780
SRP08-01-C-N-0.9V	3020781
SRP08-01-C-N-3.0V	3020823
SRP08-01-C-N-5.5V	3020824

Other models on request

#### Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
FH083-SB3	560922	Steel, zinc-plated	G3/8"	350 bar
FH083-AB3	3011427	Aluminium, clear anodized	G3/8"	210 bar

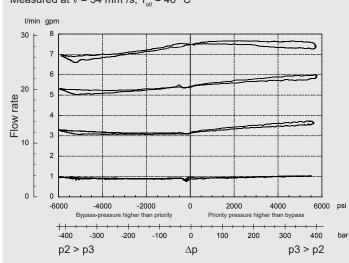
Other housings on request

## Seal kits

Code	Material	Part No.
FS UNF 08/N	NBR	3651385
FS UNF 08/V	FKM	3651356

# TYPICAL PERFORMANCE

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



# 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.

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