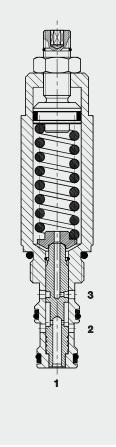


FUNCTION



The DR08 is a direct-acting, springloaded, spool type pressure reducing valve. Its function is to maintain a constant pressure at the consumer. In the normal position, the pressure port 2 is connected to the consumer port 1. The pressure building at the consumer acts on the face of the control spool and moves it upwards against the set spring force. Therefore the flow at port 2 is restricted enough to satisfy the consumer's demand without increasing the pressure.

In addition the valve has a pressure relieving function: If the pressure across consumer port 1 rises above the control pressure due to external force, the control piston is pushed further against the spring and relieves the consumer to tank port 3. **Pressure Reducing Valve Spool Type, Direct Acting SAE-8 Cartridge – 420 bar** DR08-01

# FEATURES

- External surfaces zinc-plated and corrosion-proof with integral maximum stroke limitation
- Adjustable throughout flow range
- Hydrodynamic damping
- Optional spring ranges up to 207 bar
- Quick response
- Compact design
- Hardened and ground internal valve components to ensure minimal wear and extended service life

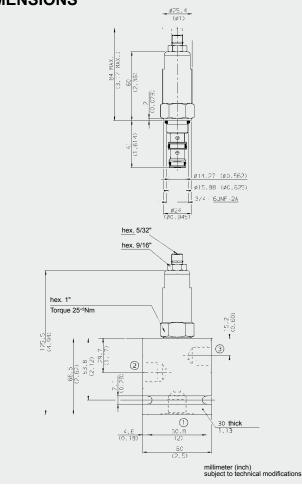
# **SPECIFICATIONS**

SPECIFICATIONS			
Operating pressure:	max. 420 bar		
Nominal flow:	max. 15 l/min		
Operating pressure ranges:	to 35 bar		
	to 83 bar		
	to 152 bar		
	to 207 bar		
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 <sup>2</sup> /s to max. 420 mm <sup>2</sup> /s		
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner		
MTTF <sub>d</sub> :	150 years (see "Conditions and instructions for valves" in brochure 5.300)		
Installation:	No orientation restrictions		
Material	Valve body:	free-cutting steel	
	Spool:	hardened and ground steel	
	Seals:	NBR (standard) FKM (optional, media temperature range -20 °C to 120 °C)	
Cavity:	FC08-3		
Weight:	0.24 kg		

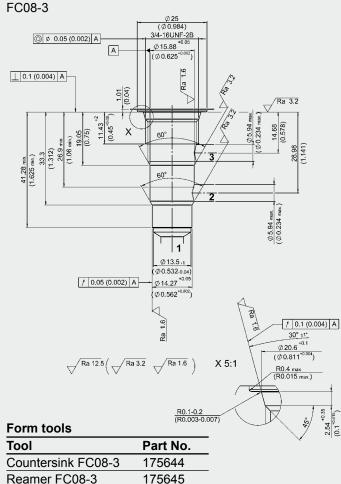
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# DIMENSIONS



# CAVITY



millimeter (inch) subject to technical modifications

## **MODEL CODE**

<u>DR08-01</u> – C – N – <u>220</u> V <u>180</u>
Basic model Pressure reducing valve UNF
Body and ports*   C = cartridge only   SB3 = G3/8 ports, steel body   AB3 = G3/8 ports, aluminium body
Seals
N = NBR
V = FKM
Setting pressure range
027 = 2 to 19 bar
050 = 3 to 35 bar
120 = 11 to 83 bar
220 = 15 to 152 bar
300 = 20 to 207 bar
Other pressure ranges on request
Adjustment option
V = Allen head (HEX 5/32")
H = knob adjustment
F = factory preset, non adjustable
K = with protective cap
Pressure setting

No details = no setting, spring relaxed

Pressure value = setting specified by customer

### Standard models

Model code	Part No.
DR08-01-C-N-027V	3107709
DR08-01-C-N-050V	560752
DR08-01-C-N-120V	560456
DR08-01-C-N-220V	560454
DR08-01-C-N-300V	3022444

#### \*Standard in-line bodies

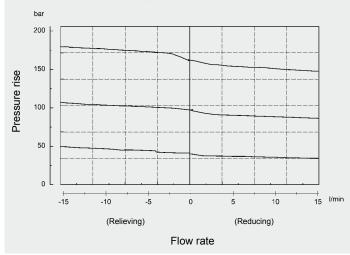
Code	Part No.	Material	Ports	Pressure
FH083-SB3	560922	Steel, zinc-plated	G3/8	420 bar
FH083-AB3	3011427	Aluminium, clear anodized	G3/8	210 bar

### Seal kits

Code	Material	Part No.
FS083-N SEAL KIT	NBR	3054795
FS083-V SEAL KIT	FKM	2591059

# PERFORMANCE

Measured at v = 34 mm<sup>2</sup>/s, T<sub>oil</sub> = 46 °C



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

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