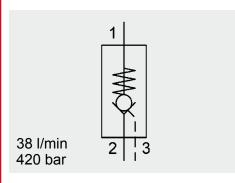


DACINTERNATIONAL

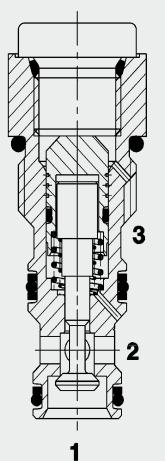


Check Valve Pilot-to-Open Poppet Type, Direct-Acting SAE-08 Cartridge – 420 bar

UNF

RP08A-01

FUNCTION



FEATURES

- Corrosion protection of external surfaces through blue zinc-plating or thermochemical Nitrotec coating (black)
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Low pressure drop due to CFD optimized flow path
- Spring return in the pilot stage for safe valve operation
- Quick response
- Low leakage design
- Optional pilot piston seal

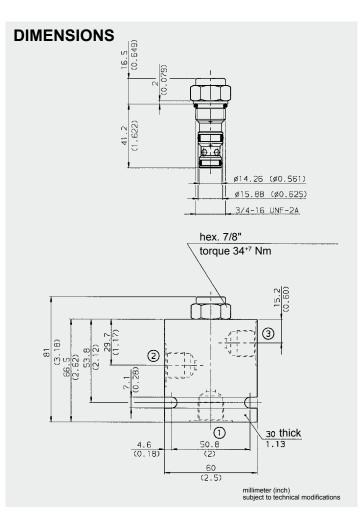
SPECIFICATIONS

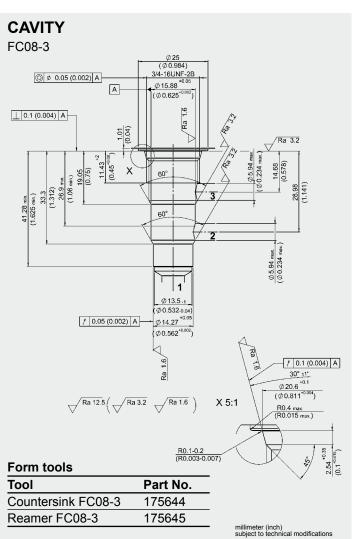
Operating pressure:	max. 420 bar		
Nominal flow:	max. 38 l/min		
Leakage:	leakage-free (max. 5 drops ≘ 0,25 cm³/min at 350 bar)		
Leakage 2→3:	< 5 l/min at 420 bar (40 °C HLP 46) For versions without O-ring on pilot piston		
Cracking pressure	1.00 bar		
Pilot ratio:	3:1 ; 4:1		
Media operating temperature range:	-30 °C to +100 °C		
Ambient temperature range:	-30 °C to +100 °C		
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity range:	7.4 to 420 mm²/s		
Filtration:	Class 21/19/1 cleaner	6 according to ISO 4406 or	
MTTF _d :	150 years (see "Conditions and instructions for valves" in brochure 5.300)		
Installation:	No orientation	No orientation restrictions	
Material:	Valve body:	steel	
	Pilot:	steel	
	Poppet:	hardened and ground steel	
	Seals:	NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C)	
Cavity:	FC08-3		
Weight:	0.088 kg		

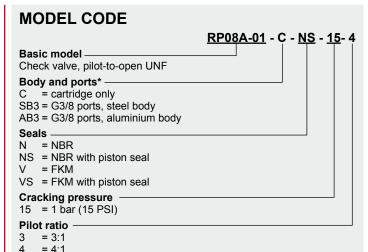
The pilot-to-open check valve RP08A is a direct-acting, spring-loaded poppet valve.

The valve allows flow from port 2 to 1. In the opposite direction, the poppet is pressed onto the seat and blocks flow. If a sufficiently high control pressure is applied at port 3, the poppet is lifted from the valve seat and oil flows from 1 to 2. The necessary pilot pressure at port 3 is dependent on the pressures across port 1 and 2.

applies: $p_{control} = \frac{p_{port,1} - p_{port,2}}{\phi} + p_{port,2}$







Standard models

Model code	Part No.
RP08A-01-C-N-15-3	561916
RP08A-01-C-N-15-4	561918
RP08A-01-C-NS-15-3	561917
RP08A-01-C-NS-15-4	561919
Other models on request	

*Standard in-line bodies

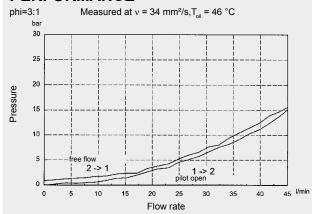
Code	Part No.	Material	Ports	Pressure
FH083-SB3	560922	Steel, zinc-plated	G3/8	420 bar
FH083-AB3	3011427	Aluminium, anodized	G3/8	210 bar

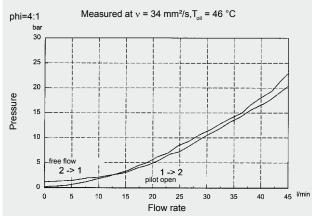
Other models on request

Seal kits

Code	Part No.
Seal kit FS083-N	3054795
Seal kit FS083-V	2591059

PERFORMANCE





NOTEThe 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.

HYDAC Fluidtechnik GmbH Justus-von-Liebig-Str. D-66280 Sulzbach/Saar Tel: 0 68 97 /509-01 Fax: 0 68 97 /509-598 E-Mail: flutec@hydac.com