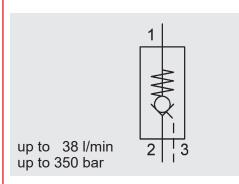


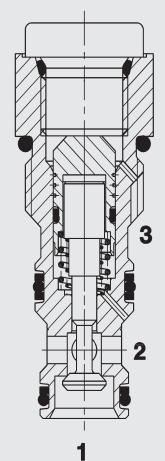
DAG INTERNATIONAL



Check Valve pilot-to-open poppet type, direct-acting UNF Cartridge – 350 bar

RP08A-01

FUNCTION



FEATURES

- Spring return in the pilot stage for safe valve operation
- Quick response
- Low leakage design
- Optional pilot piston seal
- Corrosion protection of external surfaces through blue zinc-plating or thermochemical Nitrotec coating (black)

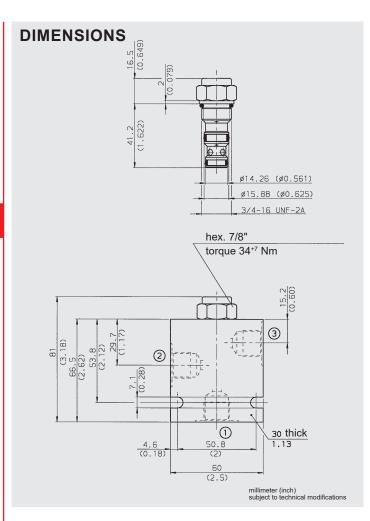
SPECIFICATIONS*

Operating pressure:	max. 350 bar		
Nominal flow:	max. 38 l/min		
Leakage:	leakage-free max. 5 drops/min (0,25 cm³/min) at nominal pressure		
Leakage 2 to 3:	< 5 l/min at 350 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, 2 and 3		
Viscosity range:	7.4 to 420 mm²/s		
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner		
MTTF _d :	150 - 1200 years, according to DIN EN ISO 13849-1		
Installation:	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 is a directacting, 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.

The following p_{port 1} - p_{port 2} + p_{port 2} applies: p_{control} =

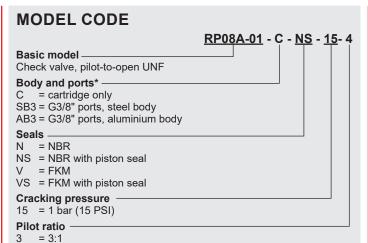
EN 5.923.3/03.27



CAVITY FC08-3 3/4-16 UNF-2B ⊕ Ø 0.05 A B PD ф Ø 0.05 A В □ 0.02 Rz1 10 Χ VE Rz 6.3 27.4 ±0.5 fitting depth 41.78 ±0.5 fitting depth 33.4 ±0.2 40.98 Rz 6.3 60° 2 /Rz 6.3 Rz2 6.3 Ø 14.27 +0.05 (EP) Ø 13 *** X4:1 ⊕ Ø 0.05 A B 0.1 - I B В ACS ⊕ Ø 0.05 A B Ra 6.3 (Rz 6.3 Rz 10) Ø 20.65 ±0.05 R0.2 ±0.2 R0.15 ±0.05 VE = Visual Examination Allowed drilling zone (for manifold design) Sharp edges should be avoided by rounding to a radius of 0.1 mm to 0.2 mm largest pre-drilling diameter (nominal tool diameter)

Part No. 175644 175645

millimeter (inch) subject to technical modifications



Standard models

= 4:1

4

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	

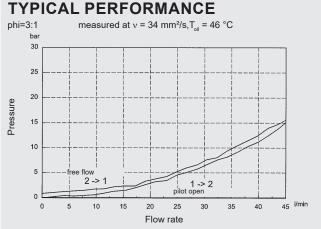
*Standard in-line bodies

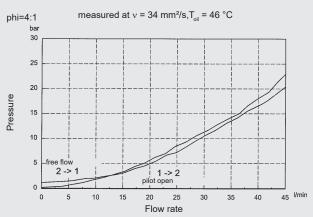
Code	Part No.	Material	Ports	Pressure
FH083-SB3	560922	Steel, zinc-plated	G3/8"	350 bar
FH083-AB3	3011427	Aluminium, anodized	G3/8"	210 bar

Other models on request

Seal kits

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





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: valves@hydac.com

Reamer

Form tools

Countersink

Tool