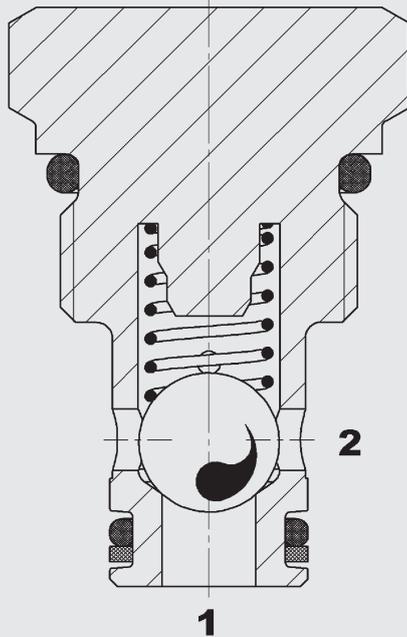




up to 38 l/min
up to 350 bar

FUNCTION



The check valve is a direct-acting, spring-loaded ball poppet valve. When there is no flow through the valve, the spring holds the ball in the closed position and therefore shuts off port 2 from port 1. The valve opens when the pressure at port 1 is higher than the pressure at port 2, including the pressure created by the spring force.

Check Valve Ball Type, direct-acting UNF Cartridge – 350 bar RV08A-01

FEATURES

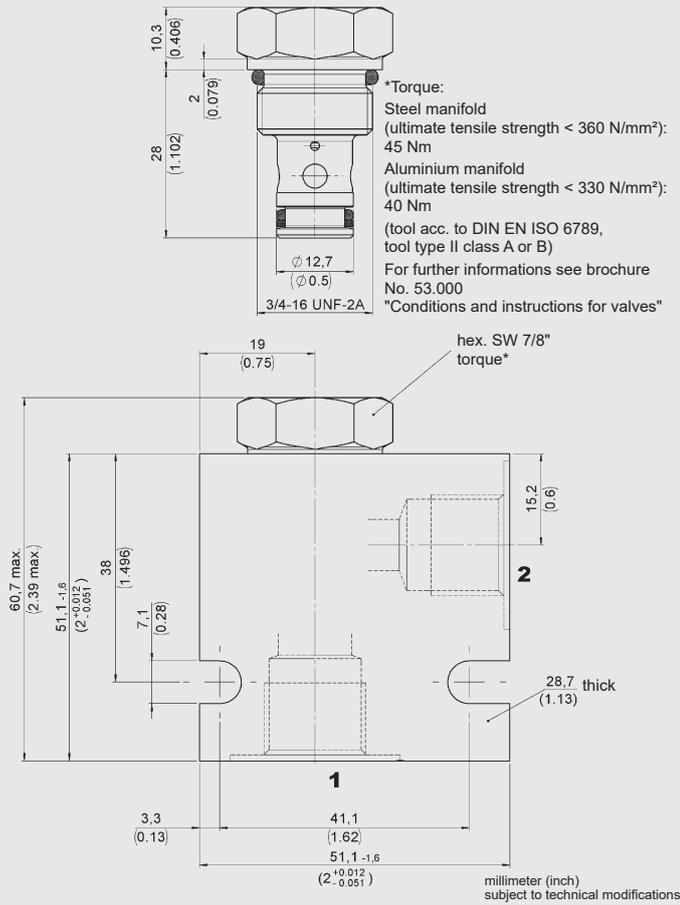
- Main application is to prevent uncontrolled movement or creeping of loaded cylinders and also to shut-off sections of the system
- Excellent stability throughout the entire flow range
- Exposed surfaces zinc-nickel plated for increased corrosion protection (1.000 h Salt spray test)

SPECIFICATIONS*

Operating pressure:	max. 350 bar
Nominal flow:	max. 38 l/min
Internal leakage:	leak-free max. 5 drops/min (0,25 cm ³ /min) at 350 bar
Cracking pressure:	0.35 bar 1.00 bar 2.00 bar 5.00 bar
Ambient temperature range:	min. -30 °C to max. +100 °C
Media operating temperature range:	min. -30 °C to max. +100 °C
Operating fluid:	Hydraulic oil to DIN 51524 Part 1, 2 and 3
Viscosity range:	min. 7.4 mm ² /s to max. 420 mm ² /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
Materials:	Valve body: steel Ball: roller bearing steel Seals: NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C) Back-up rings: PTFE
Cavity:	FC08-2
Weight:	0.06 kg

*see "hints and conditions for valves" in brochure 53.000

DIMENSIONS



MODEL CODE

RV08A-01 - C - N - 05

Basic model

Check valve, UNF

Body and ports*

C = cartridge only
 SB3 = G3/8 ports, steel body
 AB3 = G3/8 ports, aluminium body

Seals

N = NBR (standard)
 V = FKM

Cracking pressure

05 = 0.35 bar (5 PSI)
 15 = 1.00 bar (15 PSI)
 30 = 2.00 bar (30 PSI)
 70 = 5.00 bar (70 PSI)

Standard models

Model code	Part No.
RV08A-01-C-N-05	560084
RV08A-01-C-N-15	560085
RV08A-01-C-N-30	560086
RV08A-01-C-N-70	560087

* Standard in-line bodies

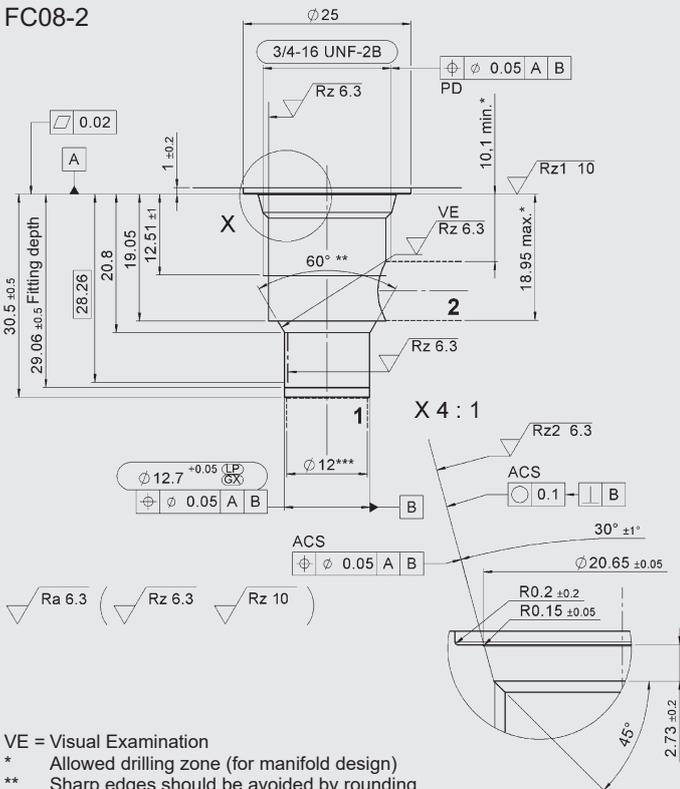
Code	Part No.	Material	Ports	Pressure
FH082-SB3	560919	Steel, zinc-plated	G3/8"	350 bar
FH082-AB3	3011423	Aluminium, anodized	G3/8"	210 bar

Seal kits

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

CAVITY

FC08-2



Form tools

Tool	Part No.
Countersink	175473
Reamer	175474

millimeter (inch) subject to technical modifications

TYPICAL PERFORMANCE

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

