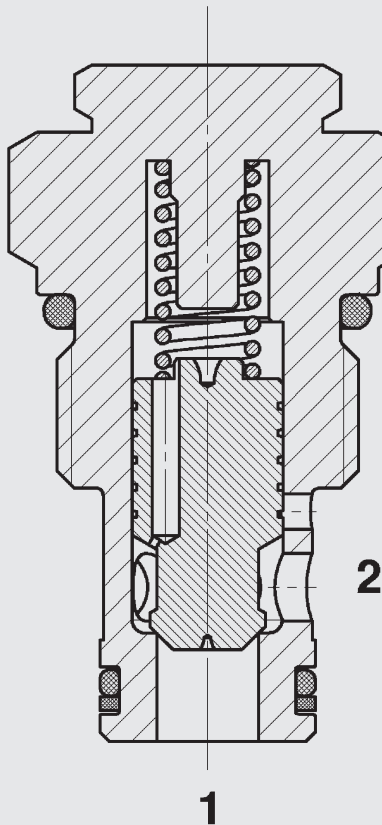




up to 80 l/min
up to 350 bar

FUNCTION



The check valve is a direct acting, spring-loaded, poppet type valve. When there is no flow through the valve, the spring holds the cone poppet 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 Poppet Type UNF Cartridge – 350 bar RV10A-51

FEATURES

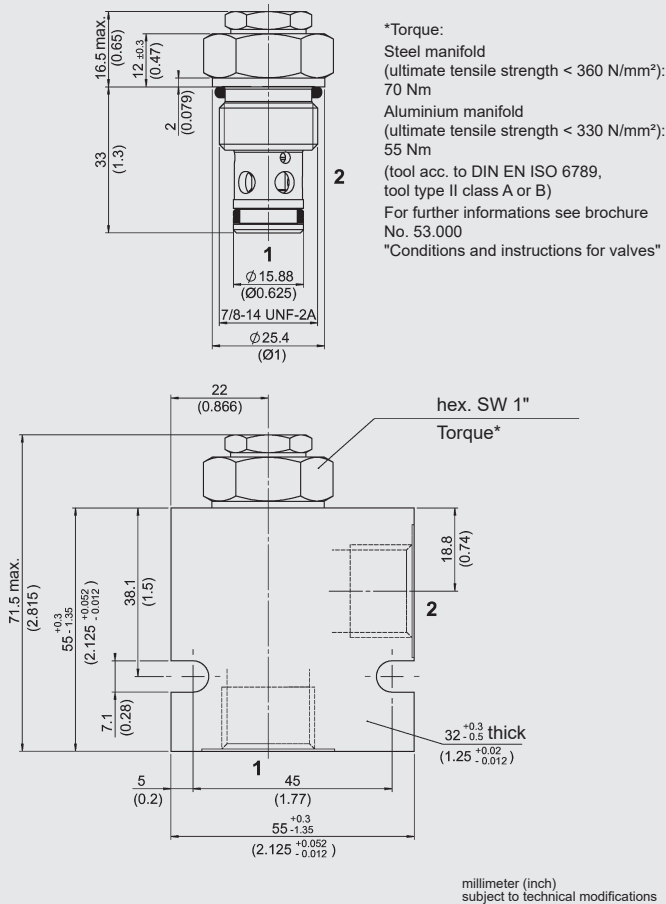
- Main application is to prevent uncontrolled movement or creeping of loaded cylinders and also to shut off sections of the system
- High performance version for high cycle rate
- Excellent stability throughout the entire flow range
- Exposed surfaces zinc-nickel plated for increased corrosion protection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

SPECIFICATIONS*

Operating pressure:	max. 350 bar
Nominal flow:	max. 80 l/min
Internal leakage:	max. 5 drops/min (0,25 cm ³ /min) at 350 bar
Cracking pressure:	0.5 bar (others on request)
Media operating temperature range:	min. -30 °C to max. +100 °C
Ambient temperature range:	min. -30 °C to max. +100 °C
Operating fluid:	Hydraulic oil to DIN 51524 Part 1, 2 and 3
Viscosity range:	min. 2.8 mm ² /s to max. 800 mm ² /s
Filtration operating fluid: (according to ISO 4406)	≤ 210 bar: min. class 21/19/16 > 210 bar: min. class 20/18/15
Installation:	No orientation restrictions
Materials:	Valve body: steel Poppet: hardened and ground steel Seals: NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C) Back-up rings: PTFE
Cavity:	FC10-2
Weight:	0.11 kg

* see "Conditions and instructions for valves" in brochure 53.000

DIMENSIONS



MODEL CODE

RV10A - 51 - C - N - 05

Basic model
Check valve, UNF

Type
51 = poppet type

Body and ports*
C = cartridge only

Seals
N = NBR (standard)
V = FKM

Cracking pressure
05 = 0.35 bar
(others on request)

Standard models

Model code	Part No.
RV10A-51-C-N-05	3357644

Standard in-line bodies

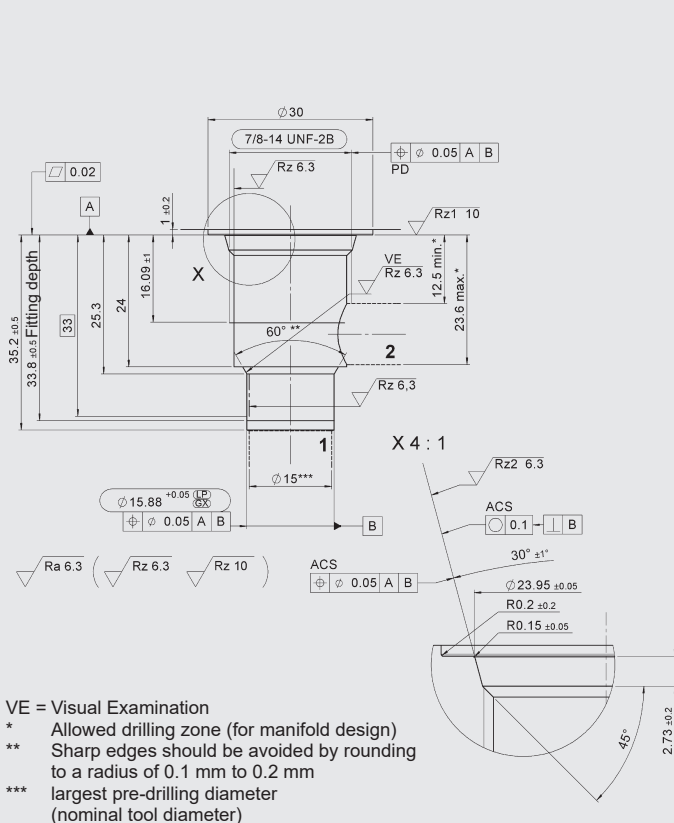
Code	Part No.	Material	Ports	Pressure
FH102-SB4	3037594	Steel, zinc-plated	G1/2"	350 bar
FH102-AB4	3037777	Aluminium, anodized	G1/2"	210 bar

Seal kits

Code	Material	Part No.
FS UNF 10/N	NBR	3651557
FS UNF 10/V	FKM	3651559

CAVITY

FC10-2



TYPICAL PERFORMANCE

measured at $v = 46 \text{ mm}^2/\text{s}$, $T_{\text{oil}} = 40 \text{ }^\circ\text{C}$



Form tools

Tool	Part No.
Countersink	176379
Reamer	165706

millimeter (inch)
subject to technical modifications

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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