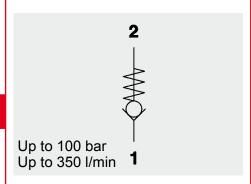
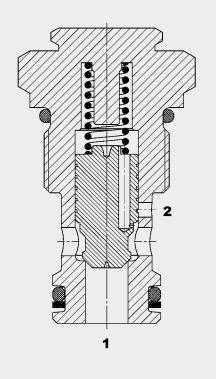
(DAC) INTERNATIONAL



Check Valve Poppet Type Metric Cartridge - 350 bar

RVM10120-51

FUNCTION



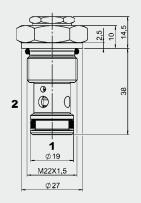
FEATURES

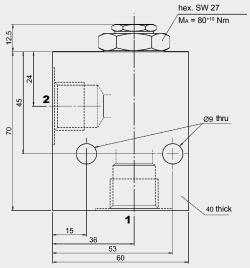
- High performance version for high cycle rate
- Main application is to prevent uncontrolled movement or creeping of loaded cylinders and also to shut-off sections of the system
- External surfaces zinc-plated
- Hardened and ground valve components to ensure minimal wear and extended service life
- Improved wear resistance, achieved by a guided and dampened piston

SPECIFICATIONS

Nominal flow: max. 100 l/min Internal leakage: leakage-free (max. 5 drops ≘ 0,25 cm³/min at 350 bar) Cracking pressure: 0.5 bar (others on request) 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. 2.8 mm²/s to max. 800 mm²/s Filtration: Class 21/19/16 according to ISO 4406 or cleaner MTTFd: 150 years (see "Conditions and instructions for valves" in brochure 5.300) Installation: No orientation restrictions Material: Valve body: free-cutting steel Poppet: hardened and ground steel Seals: NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C) Back-up rings: PTFE Cavity: 10120 Weight: 0.12 kg	Operating pressure:	max. 350 bar		
(max. 5 drops = 0,25 cm³/min at 350 bar) Cracking pressure: 0.5 bar (others on request) 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. 2.8 mm²/s to max. 800 mm²/s Filtration: Class 21/19/16 according to ISO 4406 or cleaner MTTF₀: 150 years (see "Conditions and instructions for valves" in brochure 5.300) Installation: No orientation restrictions Material: Valve body: free-cutting steel Poppet: hardened and ground steel Seals: NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C) Back-up rings: PTFE Cavity: 10120	Nominal flow:	max. 100 l/min		
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Media operating temperature range: Ambient temperature range: Operating fluid: Wiscosity range: Filtration: Class 21/19/16 according to ISO 4406 or cleaner MTTF _d : 150 years (see "Conditions and instructions for valves" in brochure 5.300) Installation: No orientation restrictions Material: Valve body: Poppet: hardened and ground steel Seals: NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C) Back-up rings: PTFE Cavity:		_·	·	
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Operating fluid: Hydraulic oil to DIN 51524 Part 1 and 2 Viscosity range: min. 2.8 mm²/s to max. 800 mm²/s Filtration: Class 21/19/16 according to ISO 4406 or cleaner MTTF _d : 150 years (see "Conditions and instructions for valves" in brochure 5.300) Installation: No orientation restrictions Material: Valve body: Free-cutting steel Poppet: hardened and ground steel Seals: NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C) Back-up rings: PTFE Cavity:	Media operating temperature range:	min30 °C to max. +100 °C		
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Material: Valve body: Poppet: hardened and ground steel Seals: NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C) Back-up rings: PTFE Cavity: 10120	MTTF _d :			
Poppet: hardened and ground steel Seals: NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C) Back-up rings: PTFE Cavity: 10120	Installation:	No orientation restrictions		
ground steel Seals: NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C) Back-up rings: PTFE Cavity: 10120	Material:	Valve body:	free-cutting steel	
FKM (optional, media temperature range -20 °C to +120 °C) Back-up rings: PTFE Cavity: 10120		Poppet:		
Cavity: 10120		Seals:	FKM (optional, media temperature range	
		Back-up rings:	PTFE	
Weight: 0.12 kg	Cavity:	10120		
	Weight:	0.12 kg		

The RVM06020-51 is a direct-acting, spring-loaded, poppet check 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.

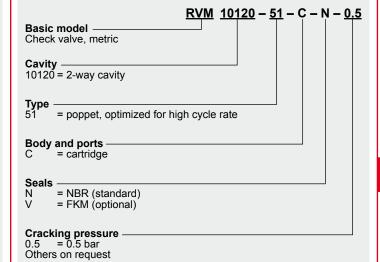




millimeter subject to technical modifications

CAVITY 10120 M22×1.5 ✓0.05 A Α 10.1A 8 Χ . 5 fitting depth 40.2 40 min 60°-2 80 X 5:1 **≠**0.1 A ø18.5 max 30° ±1° ø23.8 +0.1 Ra12.5/(Ra3.2/Ra1.6/) R 0.4 max Form tools Part No. Tool Countersink 170418 1014206 Reamer Tap 1002627 millimeter subject to technical modifications Plug gauge 169394

MODEL CODE



Standard models

Model code	Part No.
RVM10120-51-C-N-0.5	3420466

Standard in-line bodies

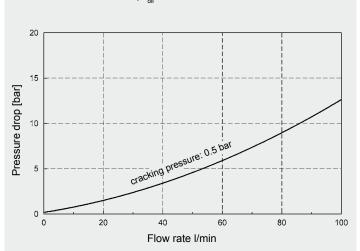
Code	Part No.	Material	Ports	Pressure
R10120-01X-01	395234	Steel, zinc-plated	G 1/2	420 bar
R10120-01X-02	395235	Steel, zinc-plated	M22x1.5	420 bar

Seal kits

Code	Material	Part No.
SEAL KIT 10120-NBR	NBR	3382346
SEAL KIT 10120-FKM	FKM	3178281

PERFORMANCE

Measured at v = 34 mm²/s, $T_{oil} = 46$ °C



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.

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