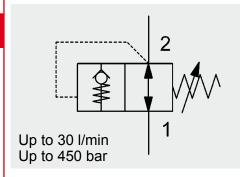


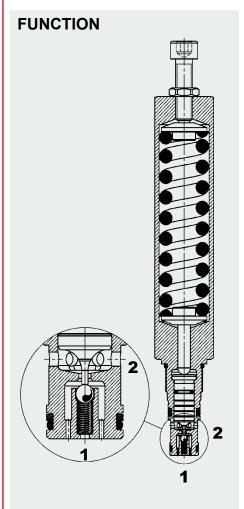
AC INTERNATIONAL



Pressure Reducing Valve Poppet Type, Direct-Acting, Normally Open, with Spring Chamber Relief Metric Cartridge – 450 bar DMM10121

FEATURES

- Automatic readjustment if there is a pressure drop in the cylinder
- External surfaces zinc-plated
- Hardened and ground valve components to ensure minimal wear and extended service life
- Adjustable throughout flow range
- Various pressure ranges up to 450 bar



SPECIFICATIONS

Operating pressure:	min. 0 to max. 4	min. 0 to max. 450 bar			
Nominal flow:	max. 30 l/min	max. 30 l/min			
Pressure setting ranges:	Up to 110, 250,	Up to 110, 250, 50 - 410 bar, 50 - 450 bar			
Leakage:	Leakage-free (max. 5 drops =	Leakage-free (max. 5 drops = 0,25 cm³/min at 350 bar)			
Media operating temperature range:	min20 °C to m	min20 °C to max. +120 °C			
Ambient temperature range:	min20 °C to m	min20 °C to max. +120 °C			
Operating fluid:	Hydraulic oil to	Hydraulic oil to DIN 51524 Part 1 and 2			
Viscosity range:	min. 10 mm²/s t	min. 10 mm²/s to max. 420 mm²/s			
Filtration:	Class 21/19/16 cleaner	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 r	No orientation restrictions			
Materials:	Valve body:	high tensile steel			
	Piston:	hardened and ground steel			
	Seals:	FKM (standard) NBR (optional, media temperature range -30 °C to +100 °C)			
	Back-up rings:	PTFE			
Cavity:	10121 (port 3 no	10121 (port 3 not used)			
Weight:	0.9 kg	0.9 kg			

The pressure reducing valve DMM10121 is a direct-acting, spring-loaded poppet valve which is leakage-free. Its function is to control the pressure at port 2. In the normal position, the main piston pushes the ball off the seat and there is free flow from port 1 to port 2. When the pre-set pressure is achieved at port 2, the pressure increase forces the main piston up, the ball moves with it and seals leakage-free. When the pressure at port 1 falls below the pressure at port 2, the poppet valve opens and oil can flow from port 2 to port 1.

DIMENSIONS 110 bar Pressure range 410 bar Pressure range 250 bar Pressure range 450 bar Pressure range int. hex. Ø35 ±0.5 SW8 ₩. int. hex. SW 16 SW 8 Ø35 ±0.5 SW 16 185.5 max 152.5 max 145.5 max 112.5 r SW 31.8 (1.25") 2.5 SW 31.8 (1.25") 2.5 $M_A = 50^{+5} Nm$ $M_A = 50+5 Nm$ 52.4 max. 52.4 max

M22x1.5

Ø27

Millimeter (Inch) Subject to technical modifications

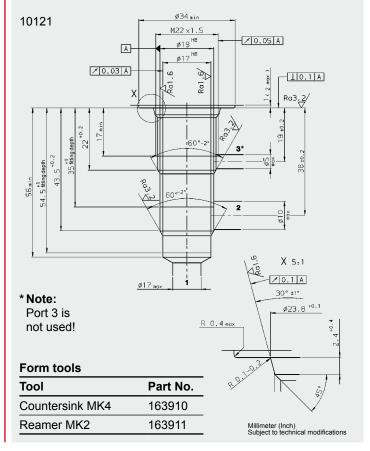
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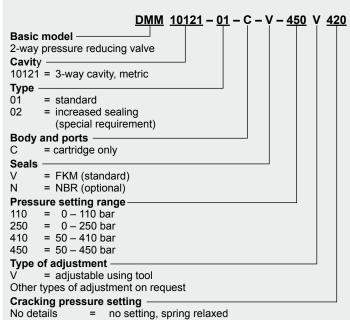
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M22X1.5

CAVITY



MODEL CODE



Standard models

Model code	Part No.
DMM10121-01-C-V-110V	3479985
DMM10121-01-C-V-250V	3479986
DMM10121-01-C-V-410V	3480034
DMM10121-01-C-V-450V	3465581

Pressure value = customer-specific cracking pressure

Other models on request

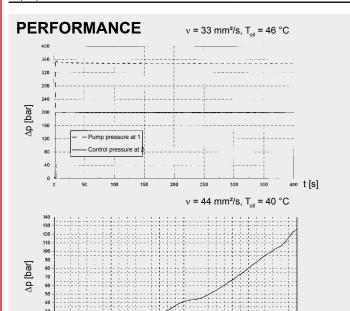
Inline connection housings

Code	Part No.	Material	Ports	Pressure
R10121	395236	Steel	G1/2	420 bar

Seal kits

Code Part No.

In preparation



20 22

Q [l/min]

NOTE

The information in this brochure relates to the operating conditions and applications described.

10 12

For applications or operating conditions not described, please contact the relevant technical department.

Subject to technical modifications.

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