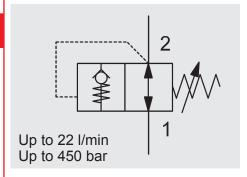
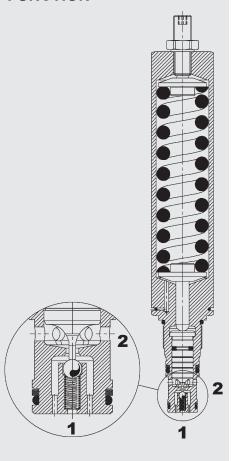
(DATE) INTERNATIONAL



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





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.

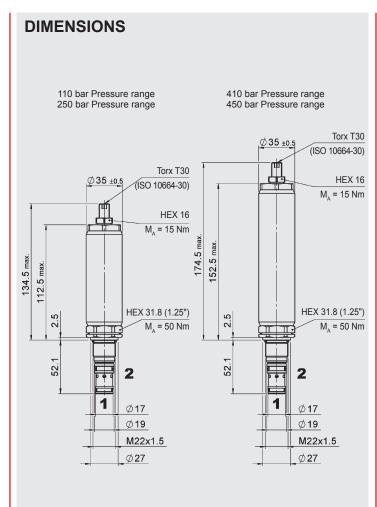
FEATURES

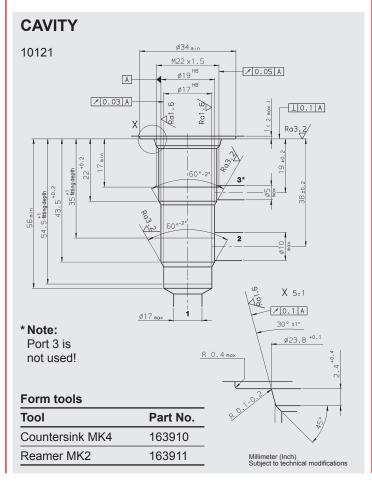
- Automatic readjustment if there is a pressure drop in the cylinder
- External surfaces zinc-plated
- Hardened and ground valve components to ensure minimal wear and extended service life
- Adjustable throughout flow range
- Various pressure ranges up to 450 bar
- Atmospheric spring chanber release
- Separation of oilside to atmosphere by dynamic seal

SPECIFICATIONS*

Operating pressure:	min. 0 to max. 450 bar			
Nominal flow:	max. 22 l/min			
Pressure setting ranges:	20 - 110, 20 - 250, 50 - 410, 50 - 450 bar			
Leakage:	Leakage-free (max. 5 drops ≘ 0,25 cm³/min at 350 bar)			
Media operating temperature range:	min20 °C to max. +120 °C			
Ambient temperature range:	min20 °C to max. +120 °C			
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2			
Viscosity range:	min. 10 mm²/s to max. 420 mm²/s			
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner			
MTTF _d :	150 years			
Installation:	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 not used)			
Weight:	0.9 kg			
* see "Conditions and instructions for valves" in brochure 53 000				

see "Conditions and instructions for valves" in brochure 53.000





MODEL CODE DMM 10121 - 01 - C - V - 450 C 420 Basic model 2-way pressure reducing valve Cavity 10121 = 3-way cavity, metric **Type** 01 = standard = increased sealing (special requirement) **Body and ports** = cartridge only (housings on request) = FKM (standard) = NBR (optional) Pressure setting range 110 = 20 - 110 bar 250 = 20 - 250 bar 410 = 50 - 410 bar = 50 - 450 bar450 Type of adjustment C = adjustable adjustable by tool, optional seal cap = handwheel Other types of adjustment on request Cracking pressure setting No details = no setti no setting, spring relaxed customer-specific cracking pressure Pressure value =

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

Other models on request

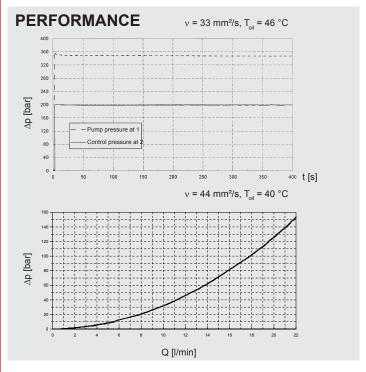
Inline connection housings

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

Seal kits

Millimeter (Inch) Subject to technical modifications

Code	Part No.
FS METRISCH 1012./V	3651296
FS METRISCH 1012./N	3651295



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.

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: flutec@hydac.com