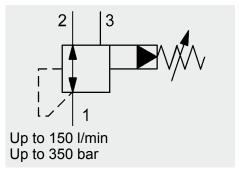
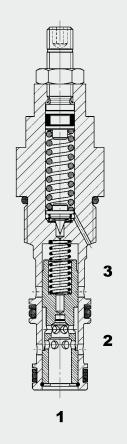
DAG INTERNATIONAL



Pressure Reducing Valve Spool Type, Pilot Operated Metric Cartridge Valve – 350 bar DRM10130P-01

FUNCTION



The pressure reducing valve DRM10130P is a pilot-operated, 3-way spool-type valve.

If the pressure across port 1 exceeds the pre-set value, the pilot-stage opens and oil flows from behind the main spool to the tank port 3. The resulting pressure differential causes the main spool to move against the reset-spring and allows oil to flow from port 2 to port 1. This continues until the system pressure is equal to the spring tension and the valve closes again.

If the pressure at port 1 suddenly rises due to external force the valve is relieved to tank port 3 (maximum pressure relief).

Any pressure at port 3 is additive to the pressure setting.

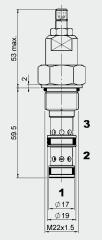
GENERAL

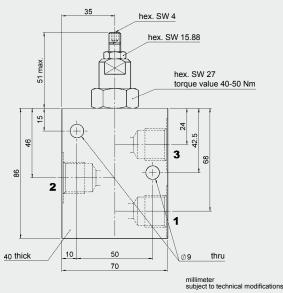
- Excellent stability throughout the entire flow range
- External surfaces zinc-plated and corrosion-proof
- Hardened and ground internal valve components to ensure minimal wear and extended service life
- Low pressure drop due to CFD optimized flow path
- Adjustable throughout flow range
- Screen protected metering orifice enhances safety
- Optional spring ranges up to 350 bar

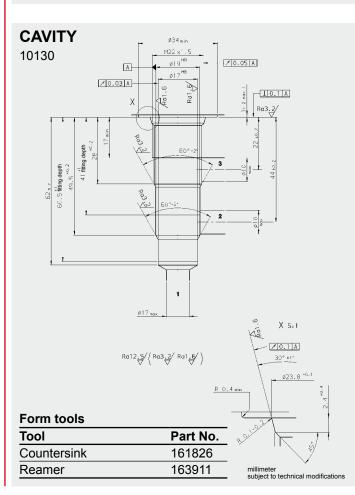
SPECIFICATIONS

Operating pressure:	max. 350 ba	max. 350 bar		
Nominal flow:	max. 150 l/m	max. 150 l/min		
Operating pressure ranges:	4 to 35 bar 4 to 60 bar 4 to 125 bar 4 to 230 bar 4 to 350 bar	4 to 60 bar 4 to 125 bar 4 to 230 bar		
Pilot flow:	< 500 cm ³ /m	< 500 cm³/min at 350 bar		
Media operating temperature range:	min30 °C t	min30 °C to max. +100 °C		
Ambient temperature range:	min30 °C t	min30 °C to max. +100 °C		
Operating fluid:	Hydraulic oil	Hydraulic oil to DIN 51524 Part 1 and 2		
Viscosity range:	min. 10 mm²	min. 10 mm ² /s to max. 420 mm ² /s		
Filtration:	Class 21/19/ 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 orientatio	No orientation restrictions		
Materials:	Valve body:	free-cutting steel		
	Spool:	hardened and ground steel		
	Seals:	NBR (standard) FKM (optional, media temperature range -20 °C to +120 °C)		
	Coil:	steel / polyamide		
Cavity:	10130			
Weight:	0.25 kg			

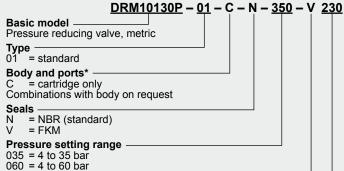
DIMENSIONS







MODEL CODE



125 = 4 to 125 bar

230 = 4 to 230 bar

350 = 4 to 350 bar

Type of adjustment V = Allen head (he

e of adjustment

= Allen head (hex. 5/32")

= Knob adjustment

= Factory preset, non adjustable

= Allen head (hex. 5/32") with protective cap

Cracking pressure setting

No details = no setting, spring relaxed Pressure value = cracking pressure specified by customer (on request)

Standard models

Model code	Part No.
DRM10130P-01-C-N-060V	3124335
DRM10130P-01-C-N-230V	3124337
DRM10130P-01-C-N-350V	3124348

*Standard in-line bodies

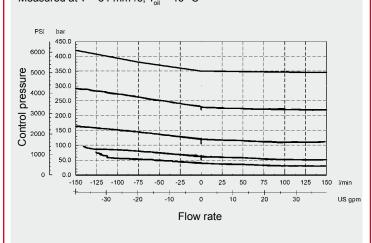
Code	Part No.	Material	Ports	Pressure
R10130-01X-01	395238	Steel, zinc-plated	G 1/2	420 bar
R10130-01X-01	395239	Steel, zinc-plated	M 22 x 1.5	420 bar

Seal kits

Code	Material	Part No.
Seal kit 10130	NBR	3231327
Seal kit 10130	FKM	3506050

PERFORMANCE

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



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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