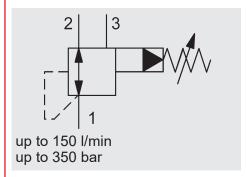
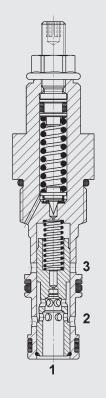


# AC) INTERNATIONAL



# **Pressure Reducing Valve** spool type, pilot Operated Metric Cartridge – 350 bar DRM10130P-01

# **FUNCTION**



#### The pressure control valve is a pilot operated, spring loaded spool valve, which keeps the pressure at the consumer constant.

If the pressure exceeds the set value on the pressure spring, the pilot stage opens and oil flows from the back of the main spool to tank port 3.

Due to the resulting pressure difference, the main spool moves against the return spring and allows oil to flow from port 2 to port 1. This occurs until the system pressure is equal to the spring pressure and the valve closes again.

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

Attention: Pressures at port 3 is added to the set pressure.

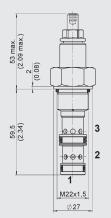
#### **FEATURES**

- Excellent stability throughout the entire flow range
- Adjustable throughout flow range
- Screen protected metering orifice enhances safety
- Optional spring ranges up to 350 bar
- Exposed surfaces zinc-nickel plated for increased corrosion protection (1000 h Salt spray test)

### SPECIFICATIONS\*

Operating pressure:	max. 350 bar		
Nominal flow:	max. 150 l/min		
Operating pressure ranges:	8 to 35 bar 8 to 60 bar 8 to 125 bar 8 to 230 bar 12 to 350 bar		
Pilot flow:	< 500 cm³/min at 350 bar		
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, 2 and 3		
Viscosity range:	min. 10 mm²/s to max. 420 mm²/s		
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner		
MTTF <sub>d</sub> :	150 - 1200 years, according to DIN EN ISO 13849-1		
Installation:	No orientation restrictions		
Materials:	Valve body: 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		

see "Conditions and instructions for valves" in brochure 53.000



Steel manifold (ultimate tensile strength < 360 N/mm²): 55 Nm

Aluminium manifold (ultimate tensile strength < 330 N/mm²):

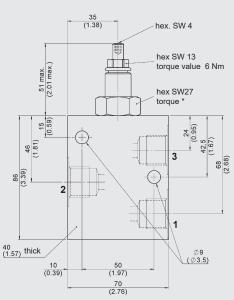
45 Nm

(tool acc. to DIN EN ISO 6789, tool type II class A or B)

For further informations see brochure

No. 53.000

"Conditions and instructions for valves"



millimeter subject to technical modifications

millimeter subject to technical modifications

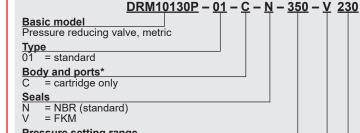
## **CAVITY** 10130 M22x1.5 | φ | φ 0,05 | A | B | PD ⊕ Ø 0,05 A B □ 0,02 A 60,2 49,6 ±0,1 41,5 ±0,5 fitting depth 38,8 min. 40,7 61 ±0.5 fitting depth Rz2 6.3 $X4 \cdot 1$ Ø17 H8 ⊕ ⊕ Ø 0,05 A B В 0,1 - B Ra 6,3 ( Rz 6,3 Rz 10 ) ⊕ Ø 0,05 A B Ø 23,85 ±0,05 R0,2 ±0,2 VE = Visual Examination R0,15 ±0,05 Allowed drilling zone (for manifold design) Sharp edges should be avoided by rounding to a radius of 0.1 mm to 0.2 mm largest pre-drilling diameter (nominal tool diameter)

Part No.

161826

163911

# **MODEL CODE**



Pressure setting range 035 = 8 to 35 bar 060 = 8 to 60 bar

125 = 8 to 125 bar

230 = 8 to 230 bar

350 = 12 to 350 bar

Type of adjustment
V = Allen head (bo

= Allen head (hex. 5/32")
= Knob adjustment
= Factory preset, non adjustable
= Allen head (hex. 5/32") with protective cap

<u>Cracking pressure setting</u>
No details = no setting, spring relaxed

230 = cracking pressure specified by customer in bar

#### Standard models

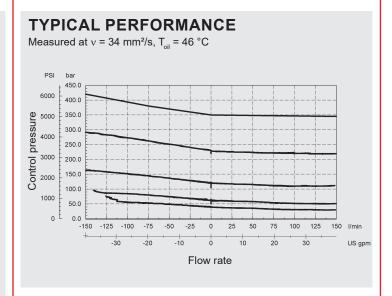
Model code	Part No.
DRM10130P-01-C-N-060V	3124335
DRM10130P-01-C-N-230V	3124337
DRM10130P-01-C-N-350V	3124348

#### \*Standard in-line bodies

Code	Part No.	Material	Ports	Pressure
R10130-01X-01	395238	Steel, zinc-plated	G1/2"	350 bar
R10130-01X-01	395239	Steel, zinc-plated	M22x1.5	350 bar

#### Seal kits

Code	Material	Part No.
FS METRISCH 1013./N	NBR	4079549
FS METRISCH 1013./V	FKM	4079594



# 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: valves@hydac.com

Reamer

Tool

Form tools

Countersink