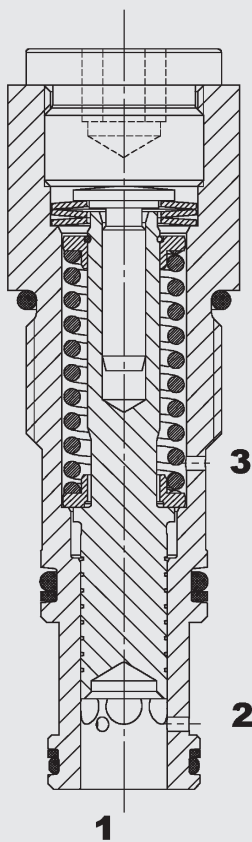


up to 150 l/min
up to 250 bar

FUNCTION



The pressure compensator is a normally open, direct-acting, spring-loaded needle valve in spool valve design. By maintaining a constant differential between inlet and outlet pressures, e.g. of a throttle (ports 3 and 1 of the pressure compensator), a constant flow rate is maintained – independently of the load pressure. As soon as the pressure differential exceeds the value pre-set by the spring force, the control piston reduces an throttle cross-section. The pressure compensator can, for example, be used when lowering variable loads at the same velocity. Together with a needle valve, it can be used as a flow regulator, for example.

FEATURES

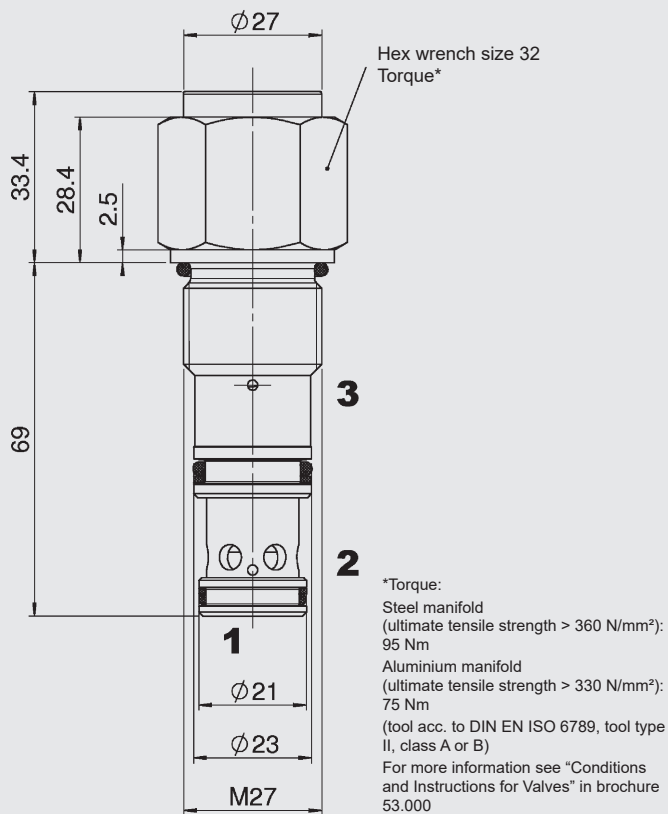
- Used to control the flow rate of consumers independently of the load pressure
- Versions available for different control pressure differentials and flow rates up to max. 150 l/min
- Excellent stability throughout pressure and flow range
- Very good dynamic performance
- Reliable operation due to integrated stroke limitation
- External surfaces with advanced corrosion protection due to Zn-Ni coating (1,000 h salt spray test)

SPECIFICATIONS*

Operating pressure:	max. 250 bar
Nominal flow:	max. 150 l/min
Media operating temperature range:	min. -30 °C to max. +100 °C
Ambient temperature range:	min. -30 °C to max. +100 °C
Operating fluid:	Hydraulic oil to DIN 51524 Part 1, 2 and 3
Viscosity range:	min. 7.4 mm ² /s to max. 420 mm ² /s
Filtration:	Class 21/19/16 according to ISO 4406 or cleaner
Installation:	No orientation restrictions
MTTF _d :	150–1200 years, according to DIN EN ISO 13849-1
Materials:	Valve body: steel Closing element: hardened and ground steel Seals: NBR (optional FKM, media operating temperature range -20 °C to + 120 °C) Back-up rings: PTFE
Cavity:	Metric 12130
Weight:	0.35 kg

*see "Conditions and Instructions for Valves" in brochure 53.000

DIMENSIONS



Millimetre
Subject to technical modifications

MODEL CODE

DWM 12130 - R - 21 - C - N - 05

Basic model
Pressure compensator

Cavity acc. to ISO

Function type
R = downstream pressure compensator

Type
21 = without drain, without damping
22 = without drain, with damping

Body and ports*
C = cartridge only

Sealing material
N = NBR (standard)
V = FKM

Control pressure differential
05 = 5 bar differential pressure
07 = 7 bar differential pressure
11 = 11 bar differential pressure
15 = 15 bar differential pressure
Other differential pressures on request

Standard models

Code	Part No.
DWM12130R-21-C-N-05	3437185
DWM12130R-22-C-V-07	3439473
DWM12130R-21-C-N-11	3483304
DWM12130R-21-C-N-15	3548608

*Standard in-line bodies

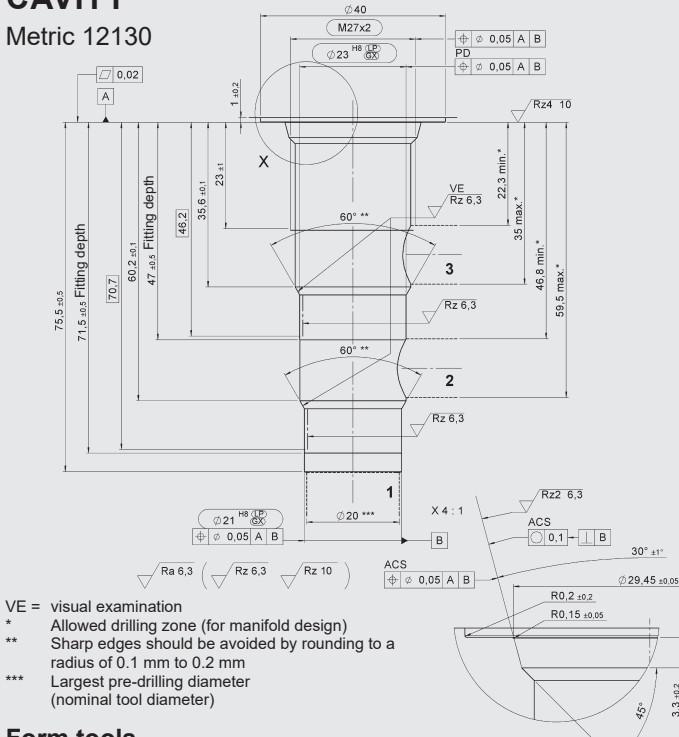
Code	Part no.	Material	Ports	Pressure
R12130-01X-01	3305489	Steel, zinc-plated	G3/4 BSP	250 bar

Seal kits

Code	Material	Part no.
SEAL KIT 12130-FKM	FKM	3506021
FS METRIC 12130/N	NBR	3825558

CAVITY

Metric 12130



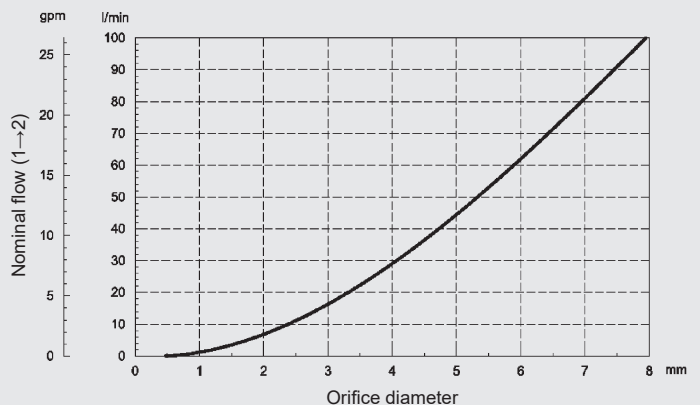
Form tools

Tool	Part no.
Pre-forming tool	175019
Countersink	162128
Reamer	175021
Tap	1002625

Millimetre
Subject to technical modifications

TYPICAL PERFORMANCE

measured at $v = 33 \text{ mm}^2/\text{s}$, $T_{\text{oil}} = 46 \text{ }^\circ\text{C}$



Note

The information in this brochure relates to the operating conditions and applications described. For applications not described, please contact the relevant technical department.
Subject to technical modifications.

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