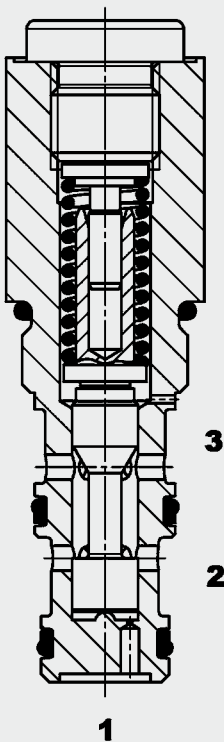


Up to 30 l/min
Up to 250 bar

Pressure Compensator, Downstream Spool Valve, Direct Acting, Normally Open Metric Cartridge – 250 bar DWM08130Y

FUNCTION



The pressure compensator DWM08130Y is a normally open, direct-acting, spring loaded flow control valve. By maintaining a constant differential between inlet and outlet pressure of an orifice (ports 1 and 3 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 orifice cross-section. The downstream pressure compensator can, for example, be used when lowering variable loads at the same velocity. Together with a proportional flow control valve it can be used as a 2-way proportional flow regulator. In a load sensing system in which several consumers are operated in parallel, each one can be individually speed-controlled.

FEATURES

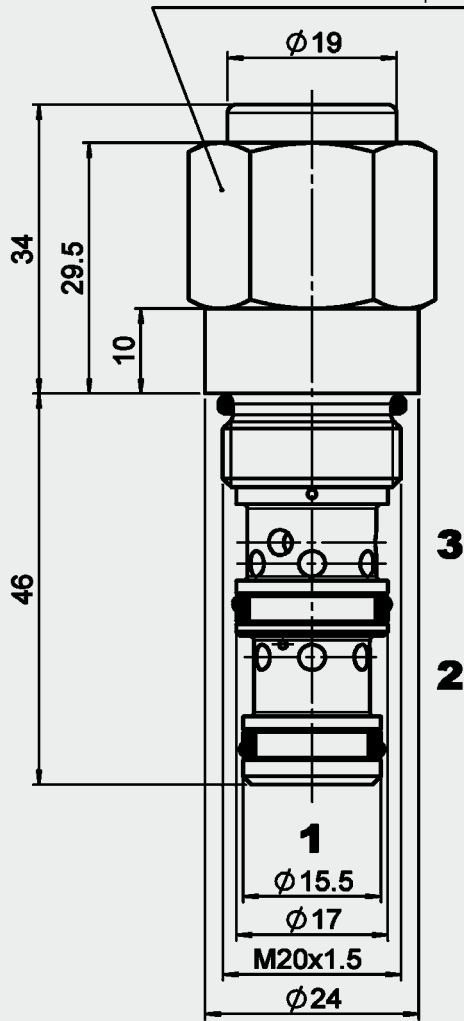
- Used to control the flow rate of consumers independently of the load pressure
- Versions available for different control pressure differentials and for flow rates up to max. 30 l/min
- Excellent stability throughout pressure and flow range
- Excellent dynamic performance
- All surfaces zinc-plated and corrosion-proof
- All valve parts made of high-strength steel with hardened and ground components to ensure minimal wear and extended service life
- Rigid design using one-piece body minimizes the effect of eccentricities in cavity and maximizes reliability
- Reliable operation due to integral stroke limitation
- Internal venting of the load sensing line

SPECIFICATIONS

Operating pressure:	max. 250 bar
Nominal flow:	max. 30 l/min
Media operating temperature range:	min. -30 °C to max. +80 °C
Ambient temperature range:	min. -30 °C to max. +80 °C
Fluid:	Hydraulic oil to DIN 51524 Part 1 + 2
Viscosity:	min. 10 mm ² /s to max. 420 mm ² /s
Filtration:	Class 21/19/16 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: NBR Back-up rings: PTFE
Cavity:	Metric 08130
Weight:	0.17 kg

DIMENSIONS

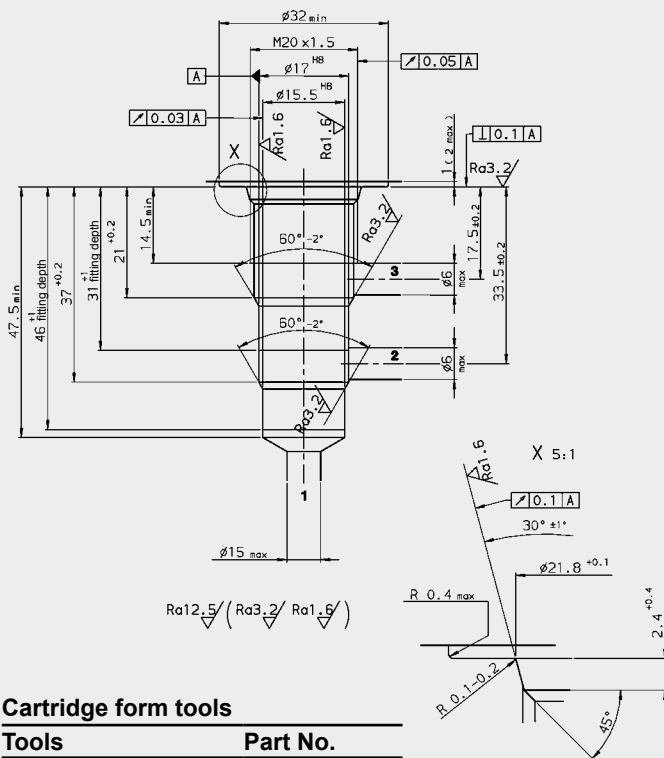
hex SW24
torque 25⁺⁵ Nm



Millimeter
Subject to technical modifications.

CAVITY

Metric 08130



Millimeter
Subject to technical modifications.

Cartridge form tools

Tools	Part No.
Countersink MK3	169265
Reamer MK2	163639

MODEL CODE

DWM 08130 Y-22-C-N-07

Basic model

Pressure compensator

Cavity

Function symbol

Y = downstream pressure compensator

Type

21 = standard, without damping

22 = standard, with damping

Body and ports*

C = cartridge only

Versions with bodies on request

Seals

N = NBR (standard)

V = FKM (optional)

Control pressure differential

07 = 7 bar differential pressure

08 = 8 bar differential pressure

10 = 10 bar differential pressure

15 = 15 bar differential pressure

Standard models

Model code	Part No.
DWM08130Y-22-C-N-07	3154129
DWM08130Y-21-C-N-08	3297957
DWM08130Y-22-C-N-15	3036905

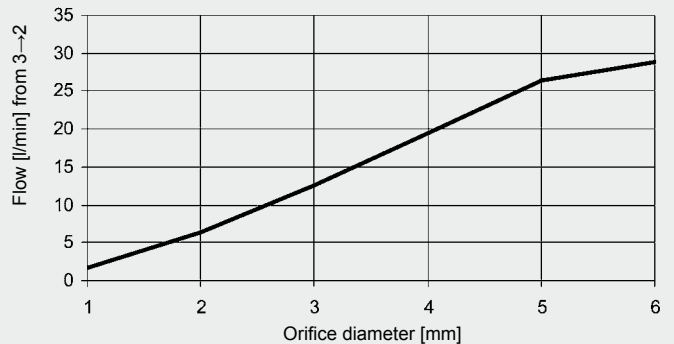
*Standard line bodies

Code	Part No.	Material	Ports	Pressure
R08130-01X-01	394488	Steel, zinc-plated	G 3/8	420 bar
R08130-01X-02	394378	Steel, zinc-plated	M14 x 1.5	420 bar

PERFORMANCE

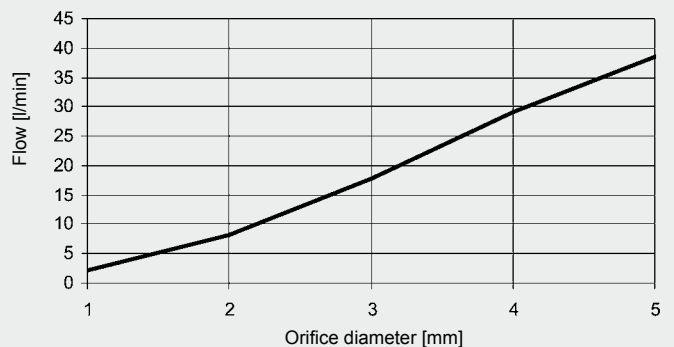
DWM08130Y-22-C-N-07

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



DWM08130Y-21-C-N-15

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



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