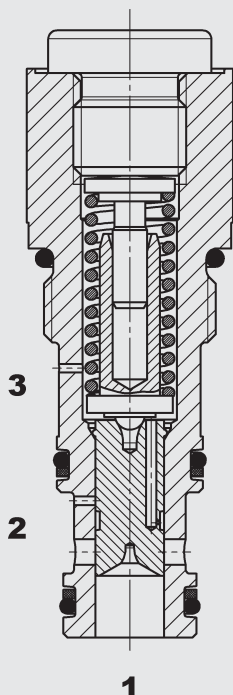


## FUNCTION



The pressure compensator DWZ08130 is a direct-operated, spring-loaded, spool-type flow control valve, which is infinitely regulating and normally closed.

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 opens an orifice cross-section and diverts the surplus flow which is not required at the actuator, through a third port.

The pressure compensator can, for example, be used when raising variable loads at the same velocity. Together with a proportional flow control valve it can be used as a 3-way proportional flow regulator.

In load sensing circuits with a fixed displacement pump and if the actuator cannot take the flow, the valve allows the oil to flow back to tank and therefore relieves the whole system.

## Pressure Compensator Spool Valve, Direct-Operated, Normally Closed Cartridge Valve – 250 bar

DWZ08130

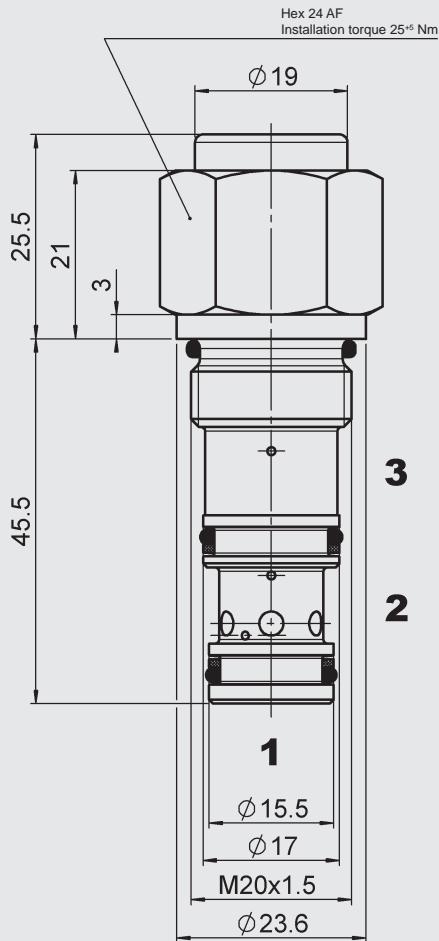
## GENERAL

- Used as a load sensing valve to control the flow rate of actuators independently of the pressure
- Available for different control pressure differentials
- Hydrodynamic damping
- Excellent stability over the whole pressure and flow range
- Excellent dynamics
- All external surfaces zinc-plated and corrosion-proof
- Minimal wear and long service life due to hardened and ground valve components
- Rigid design using one-piece body minimises the effect of eccentricities in cavity and maximises reliability
- Reliable operation due to integral stroke limitation
- Internal relief of the load sensing line when valve is open

## SPECIFICATIONS

Operating pressure:	max. 250 bar	
Flow rate:	max. 40 l/min	
Temperature range of operating fluid:	min. -20 °C to max. +80 °C	
Ambient temperature range:	min. -20 °C to max. +80 °C	
Operating fluid:	Hydraulic oil to DIN 51524 Part 1 and 2	
Viscosity range:	min. 10 mm <sup>2</sup> /s to max. 420 mm <sup>2</sup> /s	
Filtration:	Permissible contamination level of the operating fluid to ISO 4406 class 21/19/16 or cleaner	
Mounting position:	Optional	
Materials:	valve body:	high tensile steel
	spool:	hardened and ground steel
	seals:	NBR
	back-up rings:	PTFE
Cavity:	metric 08130	
Weight:	0.15 kg	

## DIMENSIONS



Millimetre  
Subject to technical modifications

## MODEL CODE

DW Z 08130 - 01 X - 15

Designation \_\_\_\_\_  
Pressure compensator

Function code \_\_\_\_\_  
Z = normally closed

Cavity to ISO \_\_\_\_\_

Type \_\_\_\_\_  
01 = standard, with damping

Series \_\_\_\_\_  
(determined by manufacturer)

Control pressure differential \_\_\_\_\_  
15 = 15 bar differential pressure

## Standard models

Model code	Part no.
DWZ08130-01X-15	3036877

other models on request

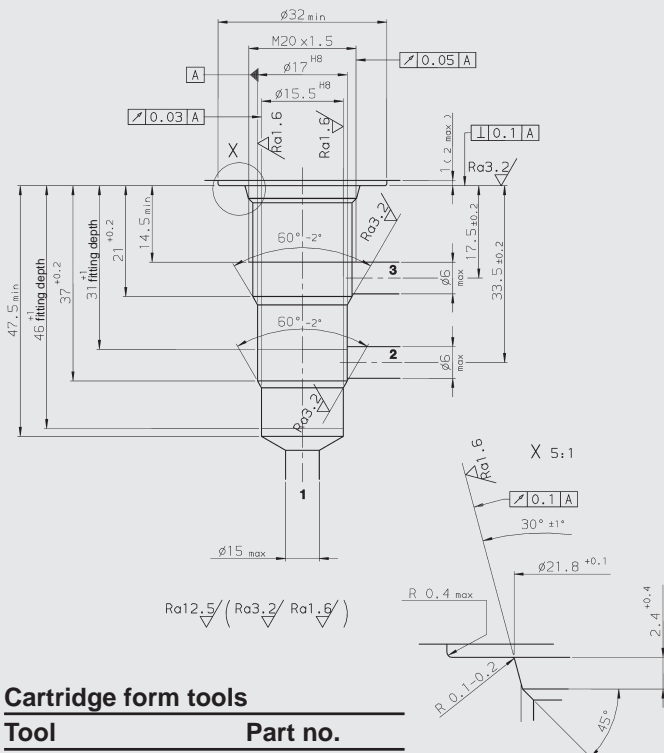
## Inline connection housings

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

other housings on request

## CAVITY

Metric 08130



Millimetre  
Subject to technical modifications

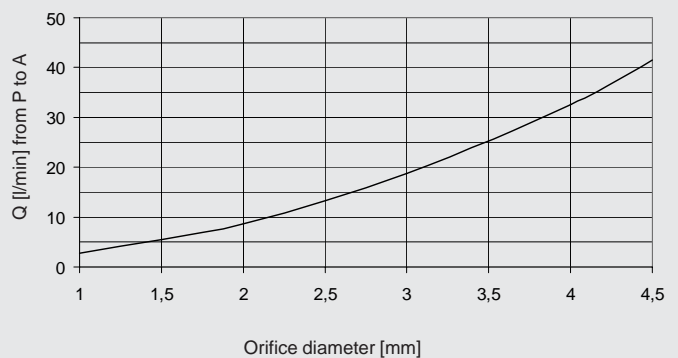
## Cartridge form tools

Tool	Part no.
Countersink MK3	169265
Reamer MK2	163639

## FLOW GRAPH

DWZ08130-01X-07

Measured at 56 mm<sup>2</sup>/s oil viscosity, T<sub>Oil</sub> = 34 °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.

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