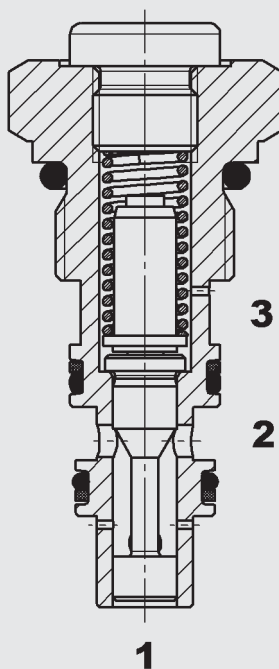


## FUNCTION



The pressure compensator DWV05830 is a direct-operated, spring-loaded, spool-type flow control valve, which is infinitely variable and normally open.

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 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 2-way proportional flow regulator.

In a load sensing system in which several actuators are operated in parallel, each one can be individually speed-controlled.

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

DWV05830

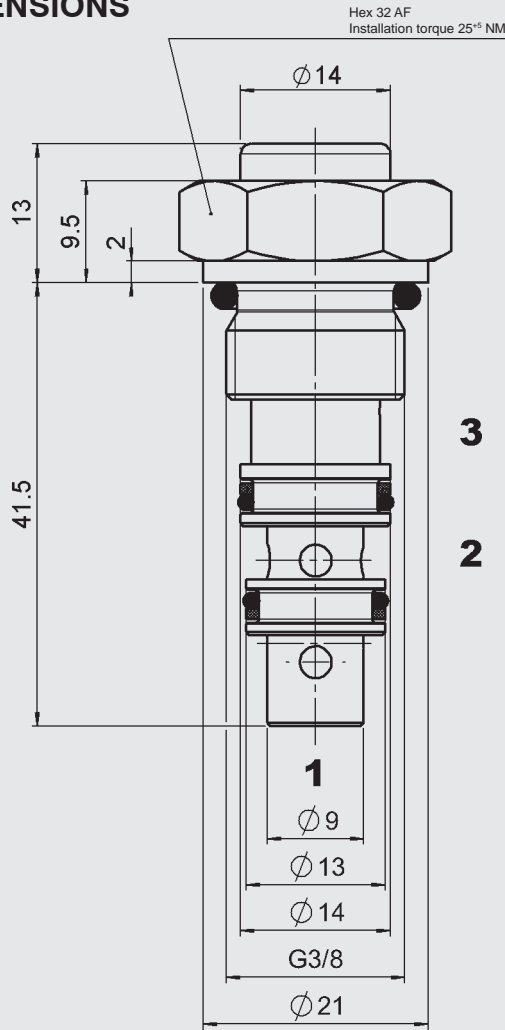
## GENERAL

- Used to control the flow rate of actuators independently of the load pressure
- 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

## SPECIFICATIONS

Operating pressure:	max. 250 bar	
Flow rate:	max. 10 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:	05830	
Weight:	0.065 kg	

## DIMENSIONS



Millimetre  
Subject to technical modifications

## MODEL CODE

DW V 05830 - 01 X - 10

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

**Function code** \_\_\_\_\_  
V = normally open

**Cavity** \_\_\_\_\_

**Type** \_\_\_\_\_  
01 = standard

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

**Control pressure differential** \_\_\_\_\_  
10 = 10 bar differential pressure

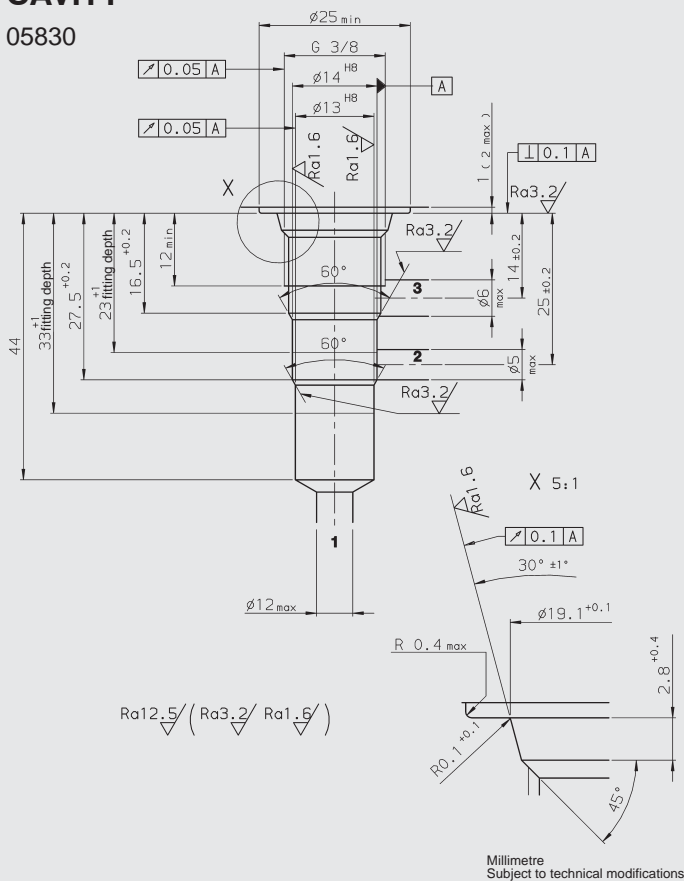
## Standard models

Model code	Part no.
DWV05830-01X-10	3031531

other models on request

## CAVITY

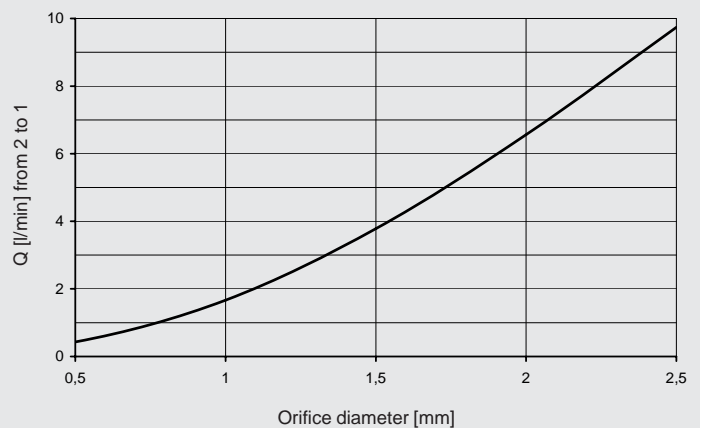
05830



Millimetre  
Subject to technical modifications

## FLOW GRAPH

Measured at 33 mm<sup>2</sup>/s, T<sub>Oil</sub> = 46 °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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