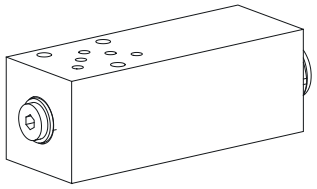
Pressure compensating valve
Sandwich construction
- **2-way operation**
- **Q_{max} = 10 l/min**
- **p_{max} = 315 bar**

NG4-Mini®



DESCRIPTION
Pressure compensator valve with fixed setting in sandwich design with interface NG4-Mini acc. to Wandfluh standard with 4 ports. The steel body of the sandwich valve is phosphatized and the cartridge body is zinc coated for corrosion protection. The load is sensed in line A or B with an incorporated shuttle valve.

FUNCTION
The pressure compensator valve maintains a constant differential pressure through an orifice (e.g. metering edge of a directional valve). The 2-way pressure compensator restricts the volume flow in the meter-in mode.

APPLICATION
Pressure compensator sandwich valves are usually stacked underneath proportional directional valves. They are used in open loop circuits. 2-way pressure compensators may be installed in parallel pressure lines with a common power source to operate actuators individually. For each actuator the full pump pressure is available.

TYPE CODE

U Z F S A04 # □

- Pressure compensator, 2-way
- Type of adjustment fixed setting
- Sandwich construction
- Mounting interface acc. to Wandfluh standard, NG4-Mini
- Design-Index (Subject to change)

GENERAL SPECIFICATIONS

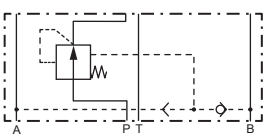
Designation	2-way pressure compensating valve
Size	NG4-Mini acc. to Wandfluh standard
Construction	Sandwich construction
Mounting	3 mounting holes for M5 socket head screws or M5 locking screws
Type of connection	Thread connection plates Rows of flange plates and horizontal stacking system
Ambient temperature	-20…+50 °C
Installation position	any
Fastening torque	M_D = 5,5 Nm (Qual. 8.8) for fixing screws M_D = 50 Nm for screw cartridge
Weight	m = 1,5 kg

HYDRAULIC SPECIFICATIONS

Hydraulic fluid	Mineral oils, other media on request
Max. permissible contamination level	ISO 4406:1999, class 18/16/13 (Recommended filter gauge ß6...10≥75) see data sheet 1.0-50/2
Viscosity range	12 mm²/s ... 320 mm²/s
Hydraulic fluid temperature	-20 ...+70 °C
Peak pressure	p_{max} = 315 bar
Differential pressure	$p_{Diff.}$ = 10 bar other differential pressures on request
Maximum volume flow	Q_{max} = 10 l/min
Leakage volume flow	see characteritics

SWITCHING DIAGRAMS

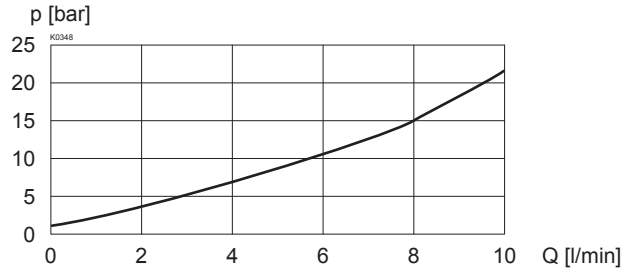
2-way operation



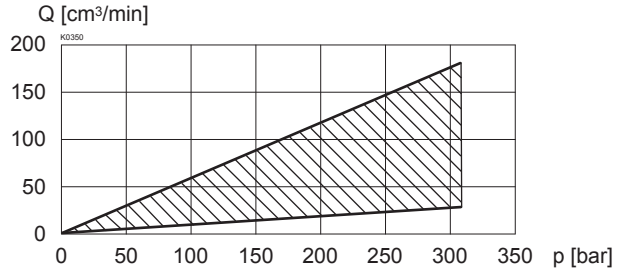
MECHANICAL ACTUATION
Fixed setting design. Other differential pressures available on request.

CHARACTERISTICS Oil viscosity υ = 30 mm²/s

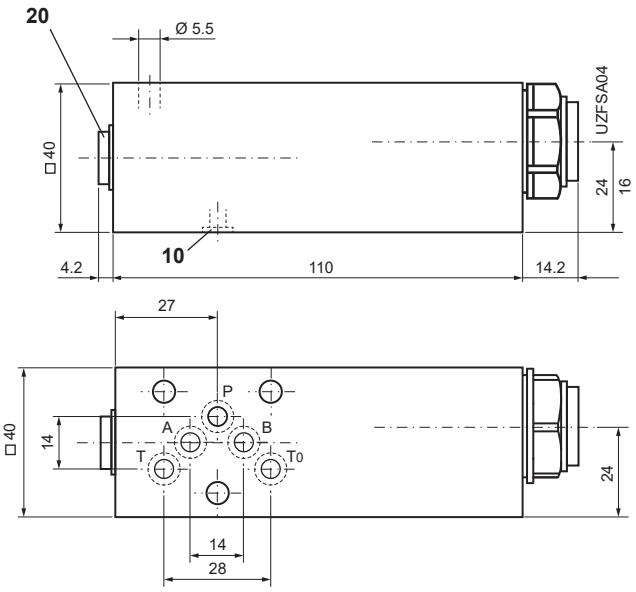
$\Delta p = f(Q)$ Pressure drop-volume flow curve
2-way operation



$Q_L = f(p)$ Leakage volume flow cruve



DIMENSIONS



SCREW-IN CARTRIDGES INSTALLED

The following screw-in cartridges are used in the sandwich body:

Type	*Designation*	*Data sheet no.*
UZFPM22	2-way operation	2.5-630

PARTS LIST

Position	Article	Description
10	160.2052	O-Ring ID 5,28 x 1,78
20	238.1405	Locking screw DIN 908 G1/8"

ACCESSORIES

Thread connection plates and rows of flange plates register 2.9

Technical explanation see data sheet 1.0-100