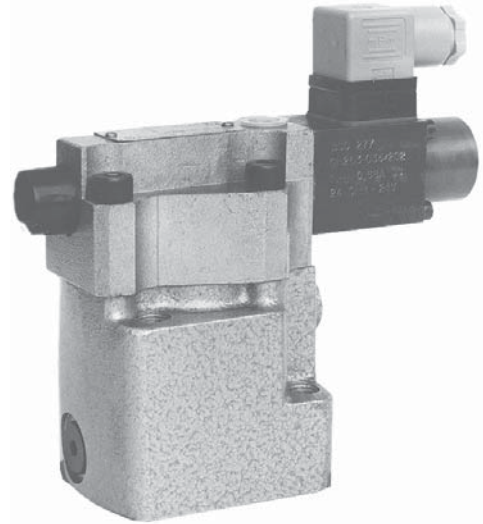


APPLICATION

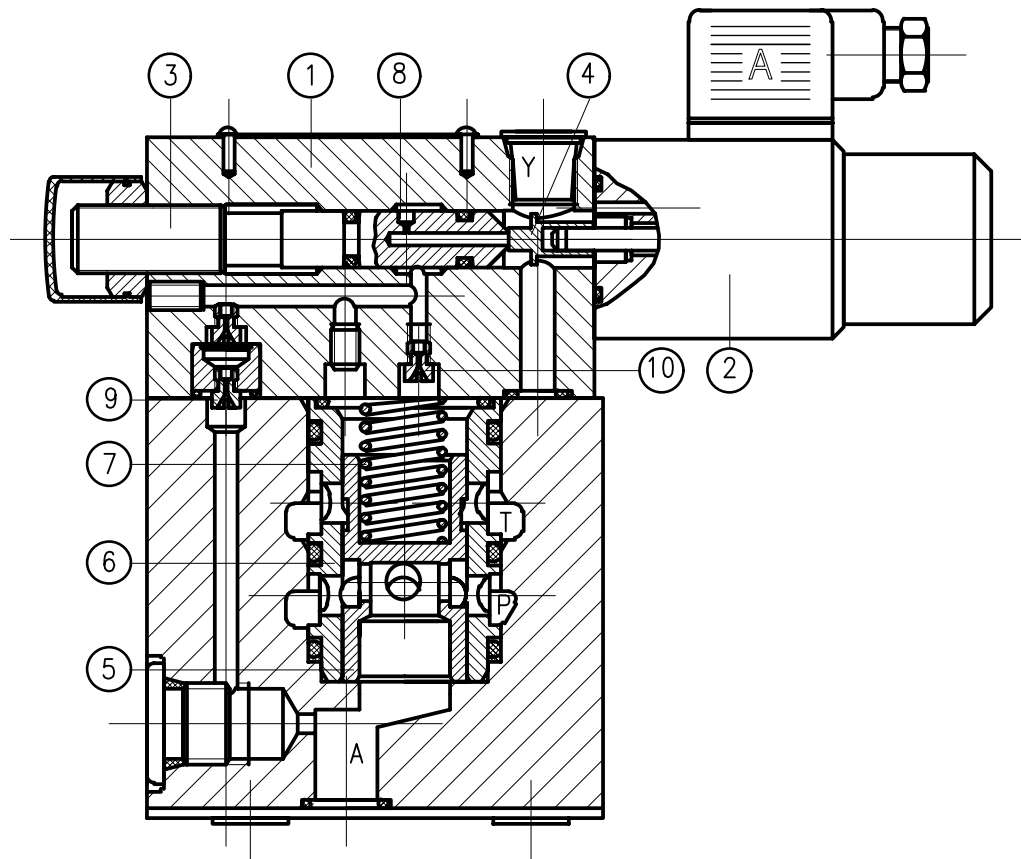
Proportional pressure relief/reducing pilot operated valves are used to hold constant pressure independently of flow direction.

The pressure is setting in hydraulic the solenoid current. Electronic device is used to supply the valve WZCPE 10. The valves can be installed into hydraulic system in any position together with a subplate .

Sealing rings (o-rings) are applied in order to seal mating surfaces.



DESCRIPTION OF OPERATION

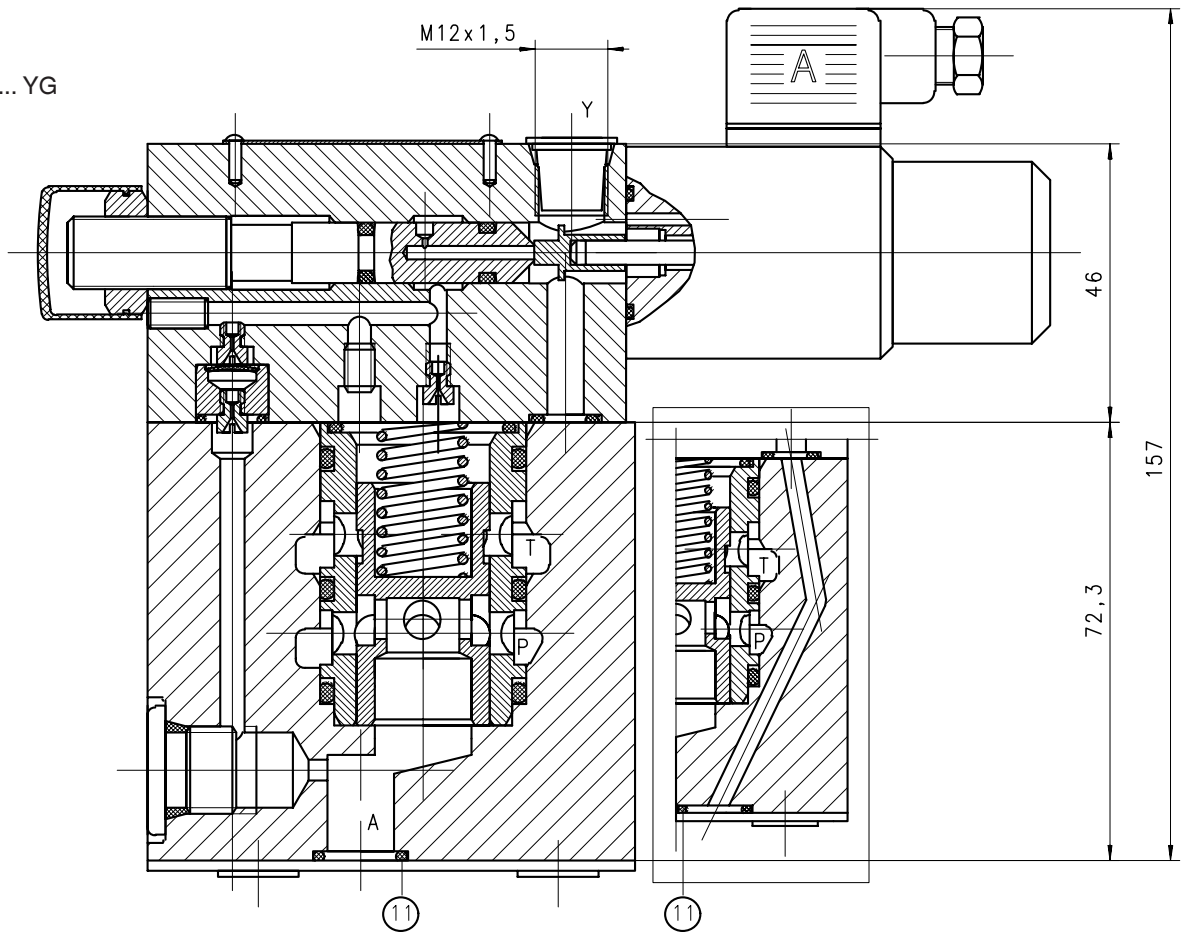


Pressure reducing/relief valves consist basically of the housing, pilot valve WZEP 1, proportional solenoid 2, adjusting jets 3 and blind 4.

Pressure reduced at port A acts through the system of jets on the bottom and top sides of the spool 5 and blind 4 connected with the proportional solenoid core. Push force of the blind 4 to jet 3 is proportional to the strength of current following through the solenoid 2. If pressure at point A, that is pilot pressure exceeds setting at the pilot valve, the valve opens and fluid drains via

ling Y to a tank. Opening of the pilot valve disturbs the state of equilibrium at the main spool and causes automatic fixing of new throttling clearance, so as pressure behind it is independent of the flow rate. If at port A pressure increase is so high to cause line P-A closed and ports A-T connected, the valve operates as pressure-relief. Thus the system is protected against excessive pressure in crease at port A, at the same time pressure is held independently of flow direction.

WZCPE 10/ ... YG

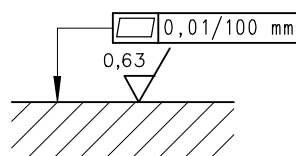


WZCPE 10/ ... YP

item 11 - O-ring 12 × 2

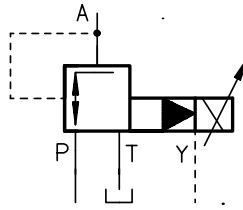
- 3 pcs for version WZCPE 10/...YG

- 4 pcs for version WZCPE 10/...YP



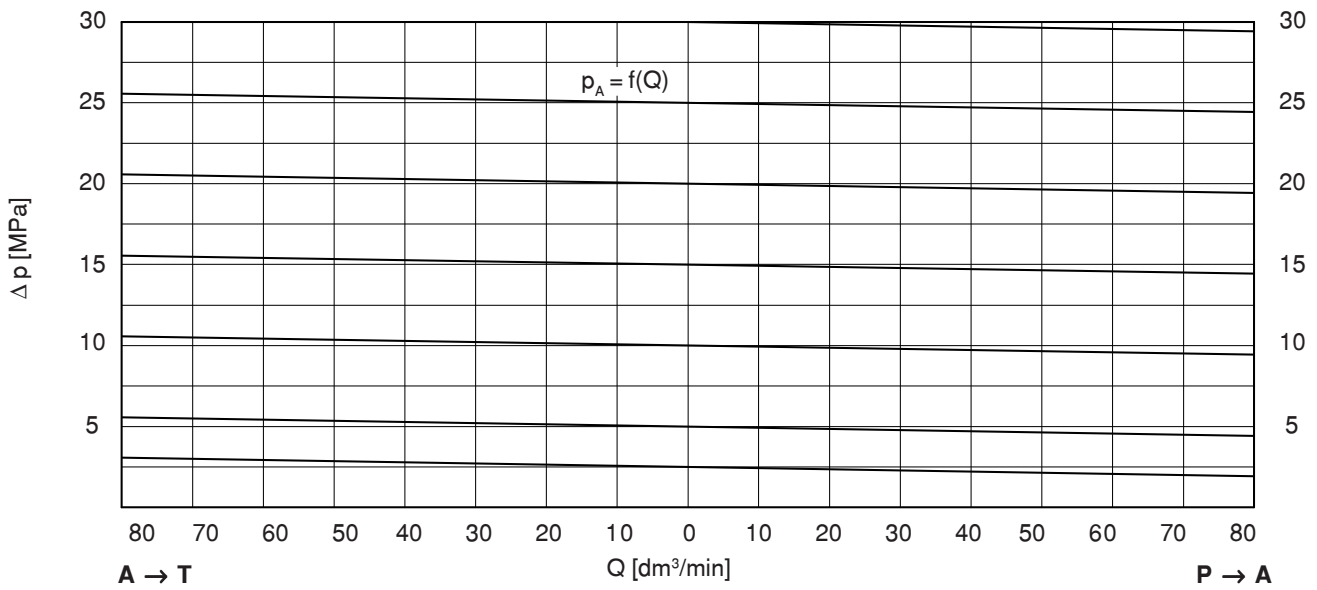
Admissible surface roughness and flatness deviation for a subplate face.

GRAPHICAL SYMBOL

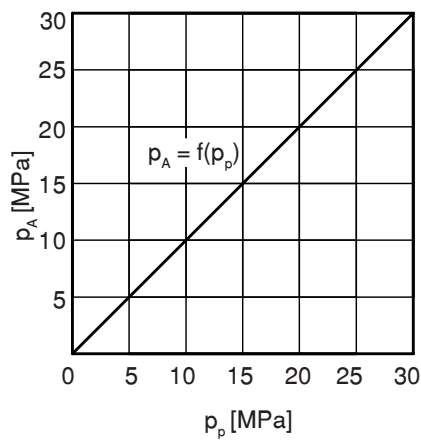


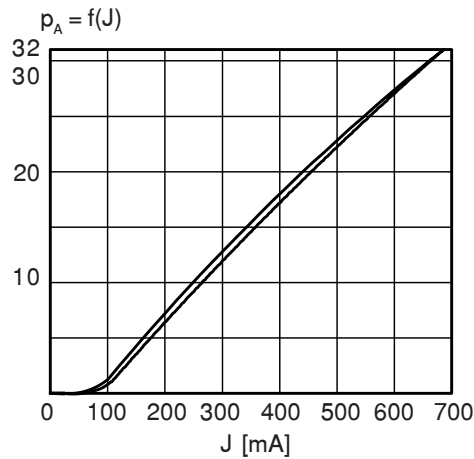
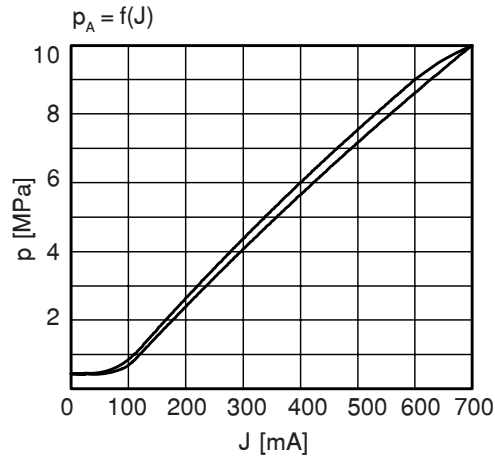
PERFORMANCE CURVES, measured at $v = 41 \text{ mm}^2/\text{s}$ and $T = 323 \text{ K}$

Flow curve



Pressure curve





P_A - output pressure
 P_P - input pressure

HOW TO ORDER

Orders coded in the way showed below should be forwarded to the manufacturer.

WZCPE 10/

*

Series number

10 = 10
 (10 - 19) - installation and connection dimensions remain unchanged

Set pressure range

up to 5 MPa = 50
 up to 10 MPa = 100
 up to 32 MPa = 320

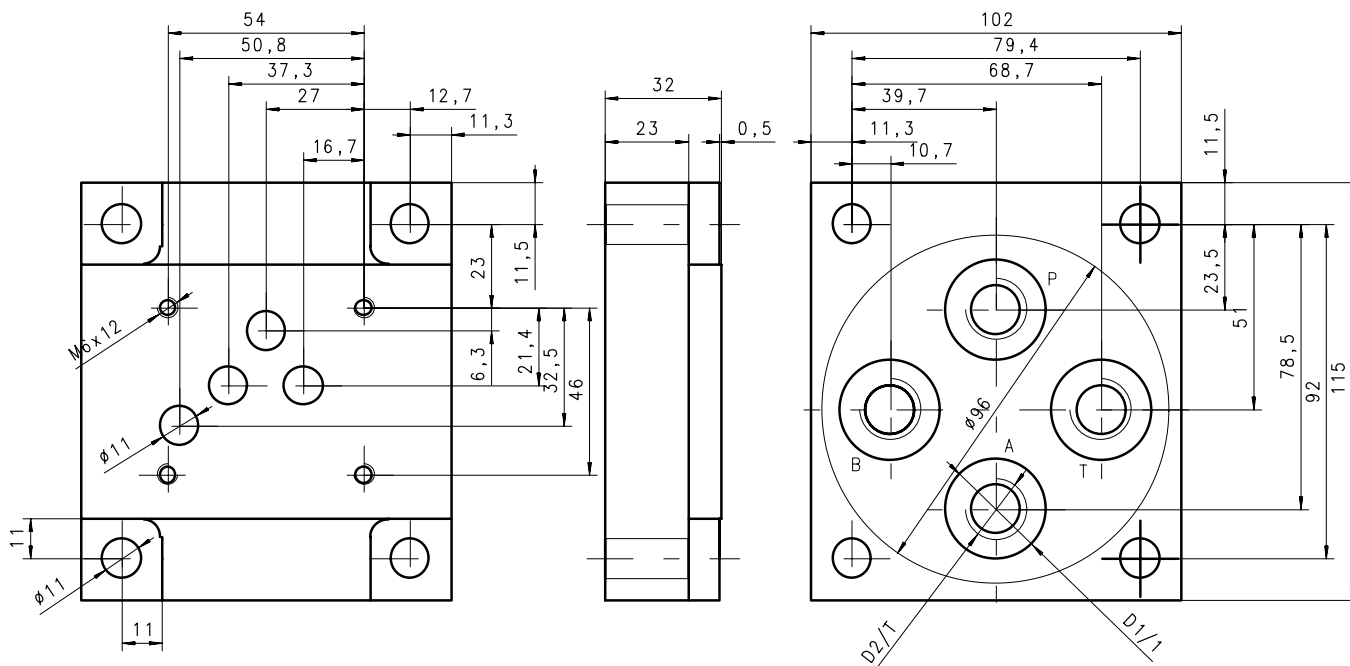
Piloting

Internal pilot supply, external pilot drain - Y
 Subplate mounting = YP
 Threaded connections = YG

Further requirements in clear text
 (to be agreed upon with the manufacturer)

Coding example: **WZCPE 10/320 Y P**

Connection dimensions for subplate



G 89/01, G 66/01, G 67/01, G 67/02

Subplate	D1	D2	T	Weight	Bolts mounting the valve to subplate	Torque
G 89/01	25	G 1/4	12	2,3 kg	2 x M6x70-10.9 2 x M6X40-10.9 PN-87/M-82302(DIN 312)	15 Nm
G 66/01	28	G 3/8	12			
G 67/01	34	G 1/2	14			
G 67/02	36	M22 x 1,5	17			
G 534/01	42	G 3/4	16	2,5 kg		

G 534/01

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