

Power.
Movement.
Dynamics.



HYDRAULIC
SYSTEM
SOLUTION

Safety valve for pressure relief of the middle plate ZMSVD2

NG 6

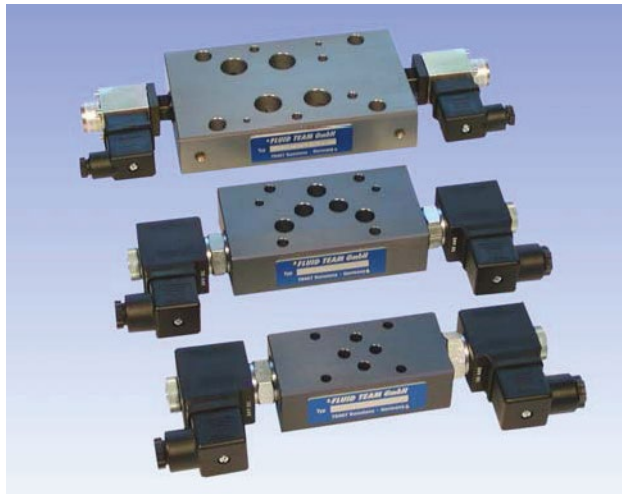
NG 10

NG 16

switches a and b after t

Interplate pressure relief valve ZMSVD2

NG 6, NG 10, NG 16 • switches A and B according to T



Description

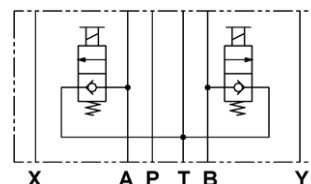
The intermediate plate pressure relief valve ZMSVD2 allows residual pressures in the 'A' and 'B' channels of vertical interconnections to be easily eliminated. The 'A' and 'B' channels can be relieved separately via two 2/2-way seat valves to the tank ('T' channel).

The use of compact valves means that the increase in height is minimal.

Symbolic image

channels

Example NG 10 with X and Y



Application

The ZMSVD2 is mainly used in machine tools.

Example: Core pull relief for injection molding machines (before tool change).

Technical

Hydraulic parameters

Operating pressure: max. 315 bar
 Volume flow via the seat valve: NG6 and NG10: max. 30 l/min
 NG16: max. 2 l/min
 Operating fluids: Mineral oils according to DIN 51524, others on request
 Viscosity range: 10 – 300 cSt
 Filtration: Class 20/18/14, filter β 10...16 $\diamond$ 75

Materials:

Valve parts: Steel
 Housing: Aluminum
 Seals: NBR Support rings: Teflon, PU
 Housing: anodized
 External valve parts: Galvanized, burnished

Surface protection:

Mechanical parameters

Ambient temperature: -20 °C – +50 °C
 Medium temperature: -20 °C – +80 °C
 Installation position: Any
 Weight: NG 6: 0.84 kg; NG 10: 1.06 kg
 NG 16: 1.39 kg

Electrical parameters

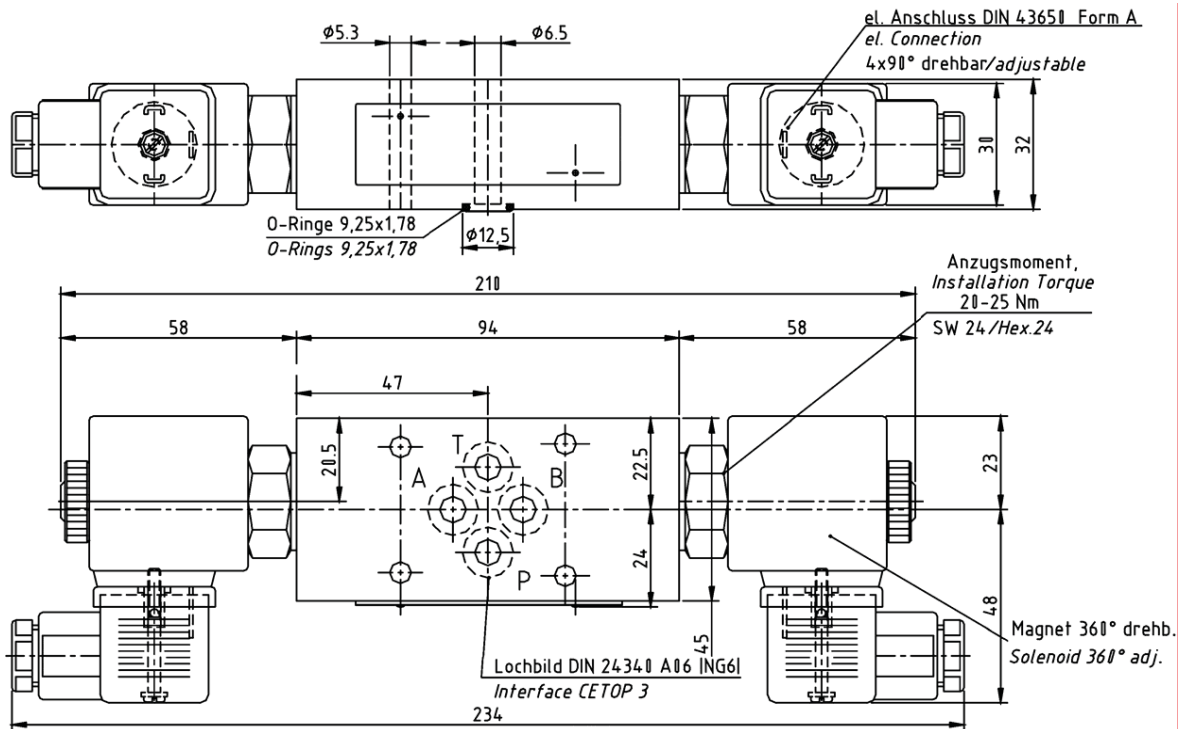
Nominal voltage: 24 V DC, 12 V DC; $\pm$ 10%
 Power consumption: 18-22 W
 Duty cycle: 100% duty cycle
 Protection class: IP 65
 Electrical connection: Device plug according to DIN 43650 NG 6 and NG 10: Form A;
 NG 16: Form B;
 each incl. device socket

Available versions / type codes

ZMSVD2-06		A/T-B/T		* 24V	
Intermediate plate pressure relief valve		Function		Position	
Available versions:		A/T-B/T = Relief of A and B to T		(internal)	
NG 6 (DIN 24340 A06)		ZMSVD2-06		24V DC	
NG 10 (DIN 24340 A10)		ZMSVD2-10		12V DC	
NG 10 (with X + Y)		ZMSVD2-10Y			
NG 16 (DIN 24340 A16)		ZMSVD2-16			

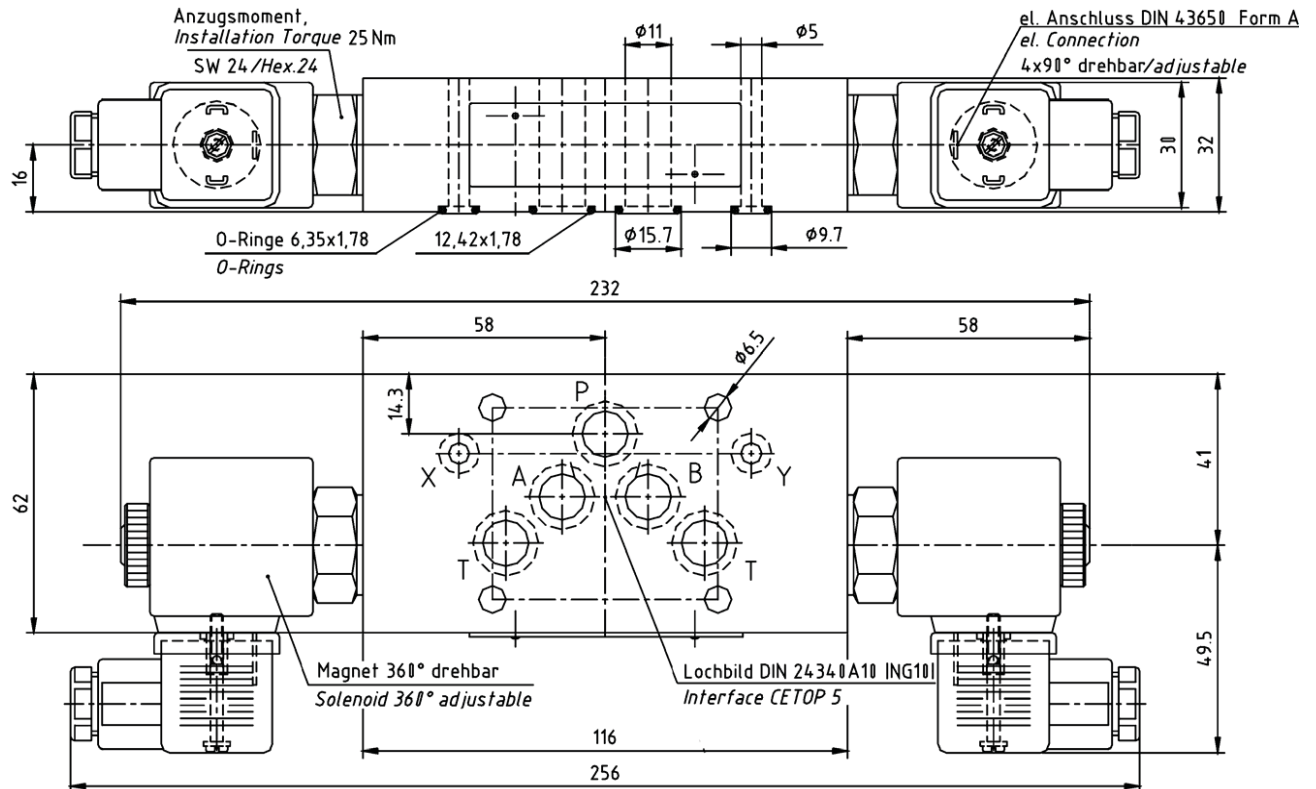
Dimensions

ZMSVD2-06-... Pressure relief valve NG 6



H3-000703

ZMSVD2-10Y-...*) Pressure relief valve NG 10

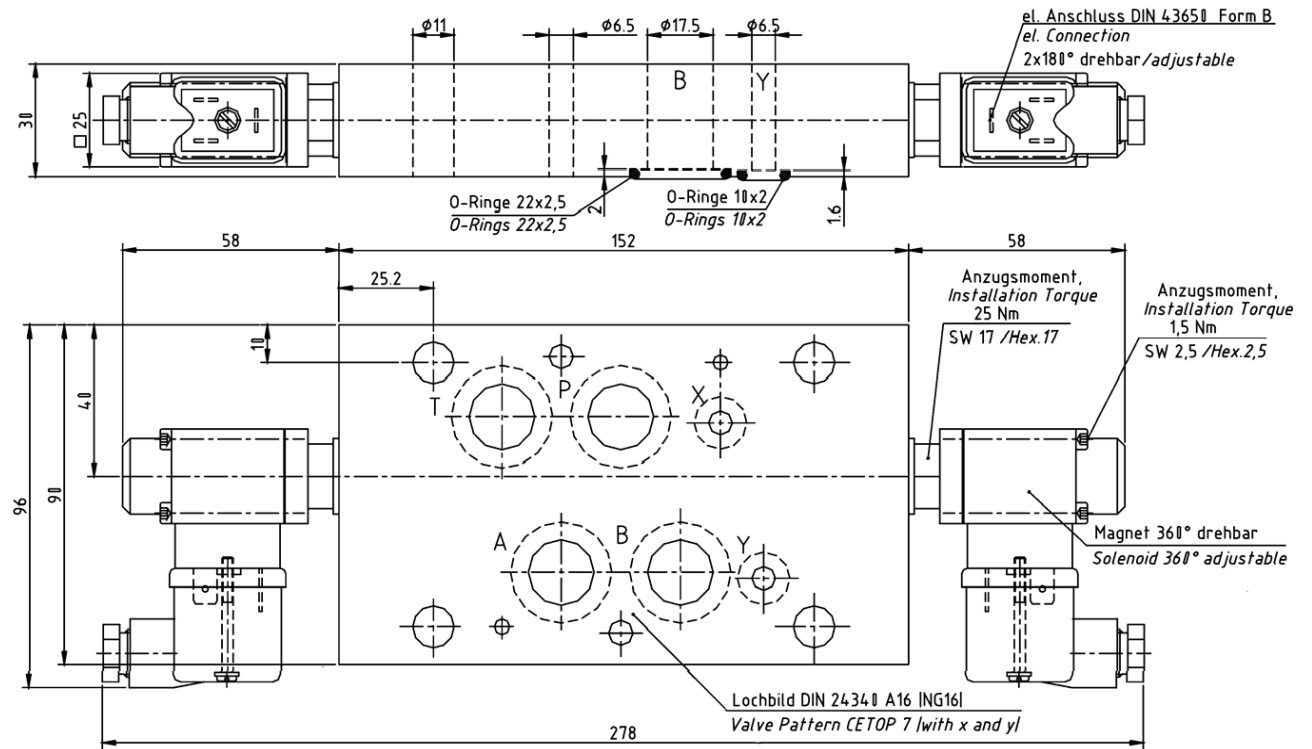


*) Fig. shows hole pattern NG 10 with X and Y channels. The other dimensions for NG 10 Standard are identical.

H3-000705

ZMSVD2-16-...

Pressure relief valve NG 16





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Subject to change
without notice