

Part number:



HYDROMA

HYDRAULICKÉ SYSTÉMY

HIDROMA
SYSTEMS

UKŁADY HYDRAULICZNE

HYDROMA

ГИДРАВЛИЧЕСКИЕ СИСТЕМЫ

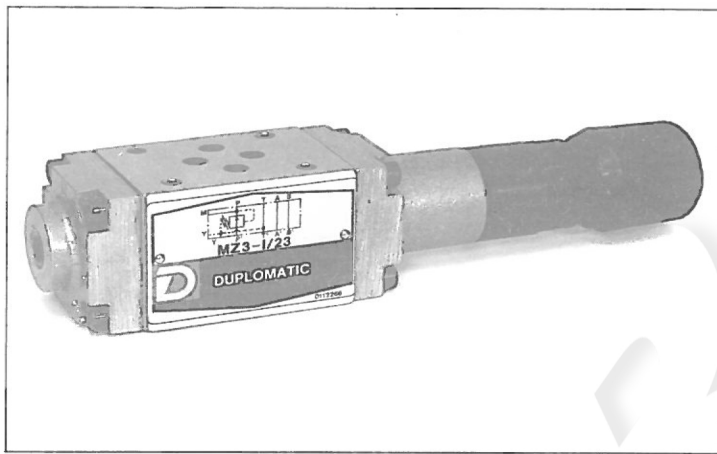
PRESSURE REDUCING VALVES

Type MZ*

SEQUENCE VALVES

Type MS*

Connections 4-3-250 UNI 6817-71
CETOP 4.2-4-03-320



SPECIFICATIONS

Nominal size	1/4"	DN 6
Nominal flow	20	l/min
Maximum flow	30	l/min
Maximum pressure	320	bar
Setting range:	3 = 2,5 ÷ 140	bar
	5 = 10 ÷ 210	bar
	6 = 15 ÷ 320	bar

The **MZ**** valves should be employed when into a circuit a second branch with a lower pressure value, independent from that of the main line, is required.

Actually this type of valve can reduce the main line pressure within values included between 320 and 2,5 bar.

The special construction of the valve is designed to prevent the pressure shock in the transient stage, without exceeding the setting value of the reduced pressure.

The pressure change on input with values greater than those preset as setting value of the valve, does not affect the reduced pressure on output.

The **MS**** valves should be used when it is requested to ensure that a secondary branch will be fed only when the pressure on main line reaches a preset pressure value (setting of the valve) and is hold even if there are very low resistances in the secondary branch. The valve remains open until the input pressure is lowered under the setting value. If the input pressure is greater than the setting value, the opening of the valve ensures that on the secondary branch there is the same pressure value as the main line, without any pressure drop.

Two versions are available, depending from the bleeding connection:

- internal bleeding (already connected to the connection to the tank). This version is possible with a backpressure on the line to the tank, not greater than 2 bar. It is marked by the suffix **I** (f.i.: **MZ.3/I**);
- external bleeding (to be connected to the tank). This connection could be realized with manifold connection or with threaded connection on the valve head.

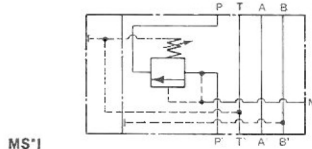
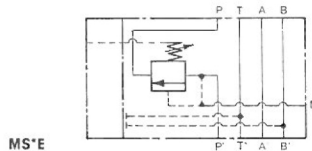
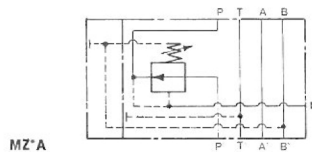
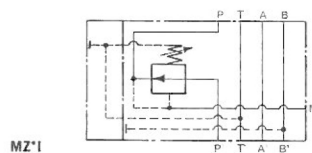
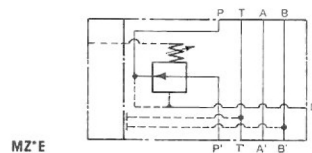
For this version, which is only available on demand, the suffix **E** should be added to the valve symbol (f.i. **MZ./E**).

Also the valves **MZ*** or **MS***, as all other miniature serie valves, could be quickly assembled under directional valves, without piping by using proper tie rods and screws, so making Compact Modular Units.

Both the valves **MZ** and the valves **MS** are normally mounted into the circuit downstream the directional valve, entering the line **P**, in such a way of having the same connecting function for connection **P** to **A** or **P** to **B**.

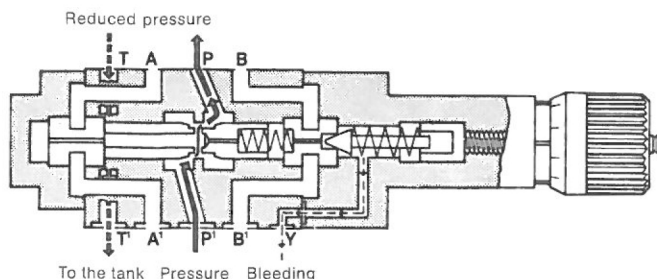
The plate **P1MZ** is available for the pressure reducing valve, which let one have the reduced pressure from **P** to **A**, while from **P** to **B** the circuit pressure will be present. This function is not possible for sequence valves **MS** type.

Other connection are available, by using proper manifolds, **1950/5*** type (ask for them to our Company).

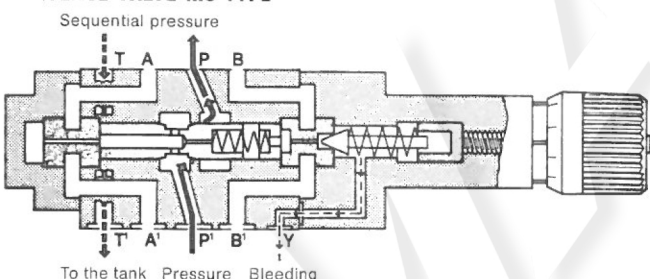


OPERATING PRINCIPLE

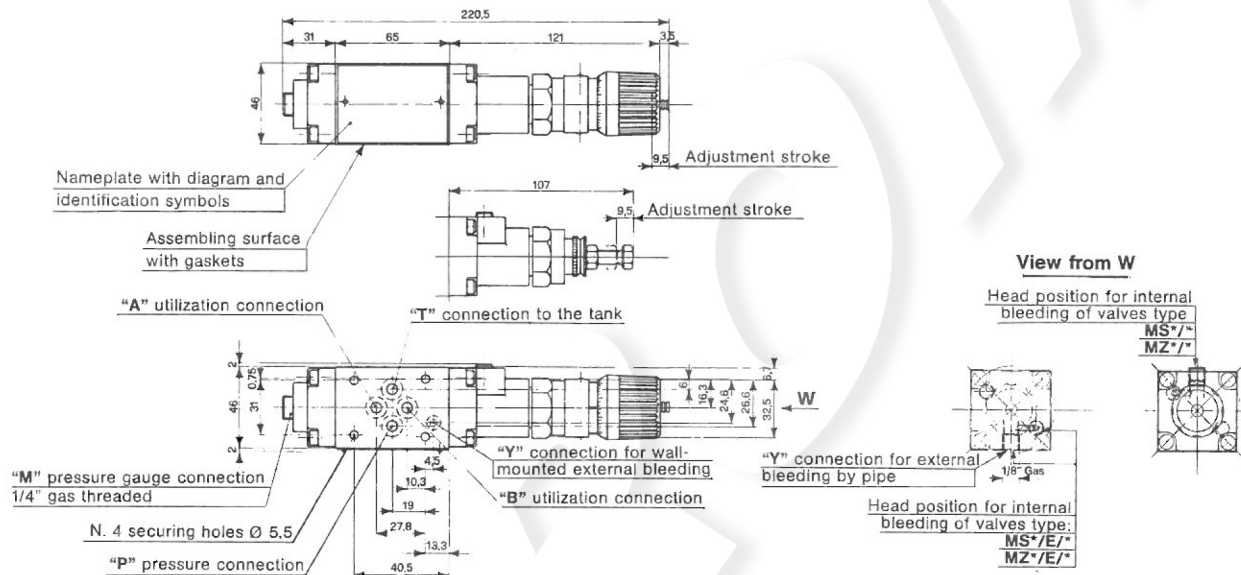
PRESSURE REDUCING VALVE MZ TYPE



SEQUENCE VALVE MS TYPE



OVERALL DIMENSIONS



IDENTIFICATION CODE OF THE VALVE

M * * * / * / 20 / *

MINIATURE SERIE

Z = Pressure reducing valve
S = Sequence valve

PRESSURE SETTING RANGE

3 = 2,5 ÷ 140 bar
5 = 10 ÷ 210 bar
6 = 15 ÷ 320 bar

SPECIAL GASKETS
V = Viton gaskets
(to be omitted if not requested)

SERIAL NUMBER (from 20 to 29 dimensions and overall dimensions are unchanged)

TYPE OF CONTROL: S = Adjustment by hex screw, on demand
(to be omitted for standard solution with SICBLOC adjusting knob)

BLEEDING POSITION: I = Internal bleeding (not possible when the backpressure on the tank line exceeds 2 bar)
E = External bleeding
A = Bleeding connection on B way to reducing on A way (only for MZ*/A)