Safety unit – General informations

Description

The OLAER safety unit has the functions of safety shut-off, block and discharge of the hydropneumatic accumulator and the system to which it is connected. It meets international safety regulations and specifications for hydropneumatic accumulators, in particular the pressure vessel regulations in force in Germany.

The safety unit comprises of:

• Valve assembly, built into which are:
  • Pressure control valve
  • Main stop valve
  • Hand-operated release valve or
  • Electromagnet-operated two-way cock
  • Manometer connector

Advantages:

• Compact construction: all elements in the one single unit
• Minimal space requirements
• Shorter assembly time
• Fast and simple disassembly of the accumulator from the system (also during system operation) thanks to a flange connector or double nipple between the unit and the accumulator.
• Flow speed control of the hydraulic fluid flow rate to/from the accumulator through the installation of regulating valves.
• Enables the control and change of the accumulator pre-charge pressure during system operation.

Models

Manual Discharge (MS)
The discharge of the accumulator and/or system, and thereby the hydraulic system, is performed manually via a release valve. In the DI 10 model, via the main stop valve.

Manual Discharge and regulating Valve (MR)
A regulating valve is fitted between the unit and the connector flange (on the accumulator), which allows the hydraulic fluid flow rate (in/out) to be controlled.

Electrical Discharge (ES)
An additional, electromagnet-operated two-way cock enables the discharging of the accumulator or system, and thereby the hydraulic system, in the case of a safety shut-down or installation shut-down.

Electrical Discharge and Regulating Valve (ER)
A regulating valve is fitted between the unit and the connector flange (on the accumulator), which allows the hydraulic fluid flow rate (in/out) to be controlled.
Key to model designation

**Type**
DI

**Nominal diameter**
16

**Discharge**
M = manual
E = electrical

**Regulating Valve**
S = without
R = with

**Custom-made model**
F = Flange option
Standard model without letter

**Modification index**
(Factory setting)

1 = G 1 ¼"
2 = G ¾"
3 = G 2"
4 = G ½"
7 = M 50 x 1,5
9 = M 40 x 1,5

**Connector on accumulator**

**Gasket material**
H = Perbunan
V = FPM

**Approval**
A = none
B = CE

**Setting for pressure control valve**
210 – 330 bar
(others on request)

* **Power supply voltage**
Only for model E (electrical)
220V 50 Hz / 24 VDC
(others on request)