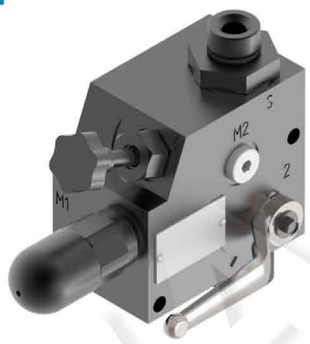
Hydraulic accumulator cut-off and protection unit type UZAE 10

NS 10 | p_{max} 36 MPa | WK 493 120

DATA SHEET - OPERATION MANUAL



APPLICATION

Hydraulic accumulator protection and cut-off unit type **UZAE 10** is used for connecting hydraulic accumulator to the system while meeting safety requirements.
The product is compliant with the regulations of directive **214/35/UE.**

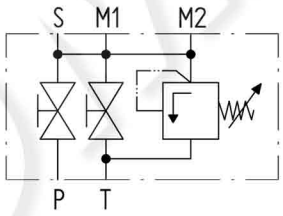
DESCRIPTION OF OPERATION

The unit consists of a housing incorporating the following subunits:

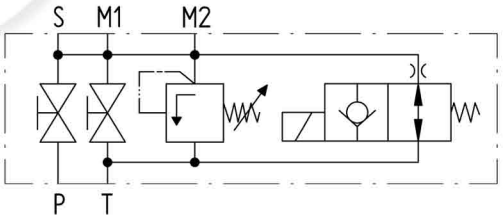
- ball cut-off valve for connecting and disconnecting the accumulator with the hydraulic system
- manual relief valve for safe unloading of accumulator after cut-off
- safety valve for system protection - with CE approval; if a unit with CE approval valve is ordered, it is set to required pressure and sealed
- electrically operated directional control valve that enables electrical unloading of the accumulator (if a version with directional valve is chosen)
- threaded flange that enables connection of the unit with the accumulator (standard flanges enable connection of EPE Italiana accumulators)

DIAGRAMS

version with manual unloading



version with manual and electrical unloading



TECHNICAL PARAMETERS

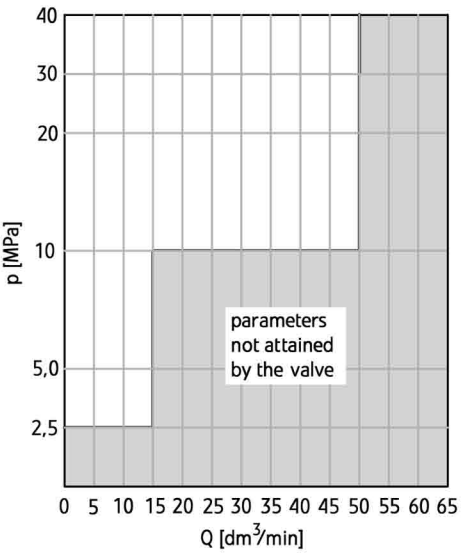
hydraulic fluid	mineral oil	
required fluid cleanliness class	ISO 4406 class 20/18/15	
nominal fluid viscosity	37 mm²/s at temperature 55 °C	
viscosity range	2,8 ÷ 380 mm²/s	
fluid temperature range (in a tank)	recommended max.	40 ÷ 55 °C -20 ÷ 70 °C
ambient temperature range	without solenoid with solenoid	-20 ÷ 70 °C -20 ÷ 50 °C
maximum operating pressure	36 MPa	
housing material	steel	
type of relief valve	DBDS6K... as in data sheet WK 450 610	
type of solenoid valve	2URED6C1... as in data sheet WK 493 130	
solenoid valve voltage	12V DC; 24V DC lub 230V 50Hz	
power consumption	26 W	
weight	5,3 kg	

assembly and operation requirements at **www.operating-conditions.ponar.pl**

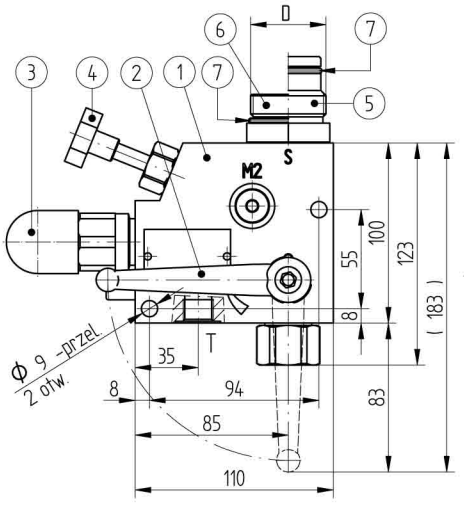
PERFORMANCE CURVES

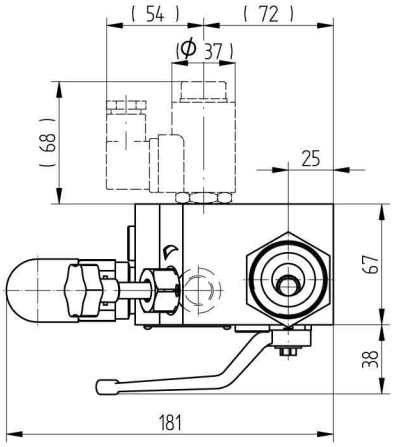
measured at viscosity ν = 41 mm²/s and temperature t = 50 °C

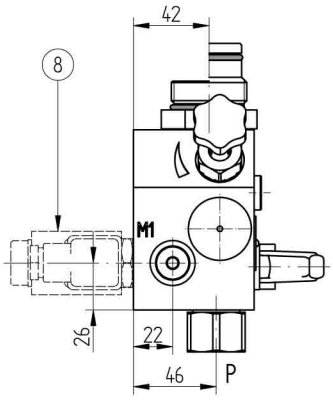
version **DBDS6K...** as safety valve with **CE** approval



OVERALL AND CONNECTION DIMENSIONS







1. Unit
2. Accumulator cut-off valve
3. Safety valve
4. Manual relief valve
5. Accumulator connection Hydac (H)
6. Accumulator connection Eppensteiner (E)
7. Sealing ring
8. Electrically operated unloading valve

Connection dimensions:

M1; M2 - **G1/4** - pressure gauge connections
P - **G1/2** - pump connection
T - **G3/8** - tank connection
S (**D**) - accumulator connection:
for Eppensteiner accumulators (**E**):
G1/2; G3/4; G1 ¼; G2
for Hydac accumulators (**H**):
G3/4; G1; G1 ¼

HOW TO ORDER

UZAE10 / 13 – □ □ – □ □ □ □

1 2 3 4 5 6 7

1 series number
(10 ÷ 19) installation and connection dimensions unchanged = 1X
series 13 = **13**

2 unloading method
manual = ∅
manual and electrical = R

3 control voltage for solenoids
12V DC = G12
24V DC = G24
230V AC 50 Hz = W230R

4 safety valve approval
no approval = ∅
with CE approval = **C**

5 safety valve setting
do 2,5 MPa = 25
do 5 MPa = 50
do 10 MPa = 100
do 20 MPa = 200
do 31,5 MPa = 315
do 33 MPa = 330
do 36 MPa = 360
for valves with **CE** approval specify pressure setting (factory setting and sealing) **every 5 bar**

6 accumulator connections
for Eppensteiner accumulators:
G 1/2 = E1
G 3/4 = **E2**
G 1 ¼ = E3
G 2 = E4
for Hydac accumulators:
G 3/4 = H1
G 1 = H2
G 1 ¼ = H3

7 further requirements = *
(to be agreed with the manufacturer)

∅ indicates that the box should be left blank.
The **symbols in bold are** the preferred versions available in short delivery time.
Coding example: **UZAE10/13 - C 275 E2**