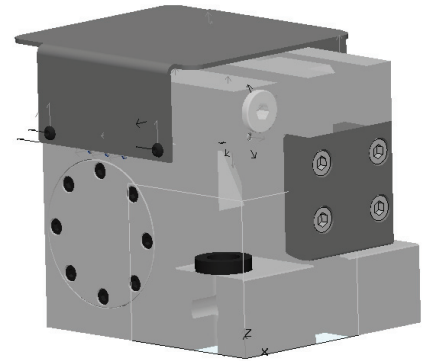


Hydromechanical Block Clamp Unit

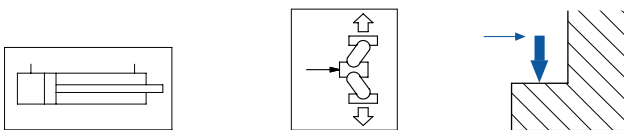
PDV-A

Application area

- For medium and large presses
- For increased functional safety thanks to mechanical self-locking
- For clamping moving bolsters as well as upper and lower dies
- For dies with straight clamping edges



Mode of operation



The clamping force is generated by a toggle mechanism. This is actuated by a double-acting hydraulic cylinder.

Description

In order to clamp, a clamping lever extends from the housing until it reaches the die clamping edge. The clamping force is then applied by means of a toggle mechanism. The system is mechanically self-locking. Low hydraulic pressure is only required during the process of clamping and unclamping.

The Optima „Aktivator“ ensures that the clamping force is continuously monitored. To unclamp, the clamping lever is first discharged and then retracted entirely into the housing (park position).

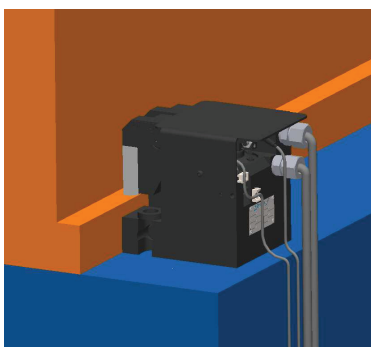
Advantages

- Mechanically self-locking
- Highest level of safety thanks to continuous clamping force monitoring by the Optima „Aktivator“
- Low operating pressure
- High clamping force and small dimensions
- Practically maintenance free
- Fully automatic operation
- Simple monitoring of functions by limit switches
- Easy installation
- Suitable for retrofitting

Accessories

- Pilot-controlled check valves
- Fittings
- Hydraulic hoses / Hydraulic accessories
- Hydraulic power packs
- Flow-control valves

Technical data



Fixing is achieved with two screws, DIN 912, strength class 10.9 (not included). Special washers are included.

Type	PDV-A 63	PDV-A 100	PDV-A 200
Clamping force [kN]	63	100	200
Max. loading force [kN] ¹⁾	100	130	250
Operating pressure [bar]: min. / max.	90 / 140	110 / 140	120 / 140
Clamping dimension tolerance [mm]	+/-0,2		
Oil volume [cm ³]: Clamp / unclamp	56 / 50	56 / 50	97 / 87
Max. oil volume flow [l/min] ²⁾	0,4 - 0,6	0,4 - 0,6	0,6 - 1,2
Limit switch: Number / type	• two inductive proximity switches		
Supply voltage	• 10-30 V DC		
Switching capacity	• plug-in type		
Connection type	• Clamping lever in unclamped position		
	• Continuous clamping force monitoring		
Max. operating temperature [°C]	70		
Weight [kg]	26	30	42

1) Mechanical damage may occur at higher loads.

2) If a pump with a greater output is used, the oil flow must be reduced by means of flow control valves or one-way restrictors.

Hydromechanical Block Clamp Unit

PDV-A

ACHTUNG: Nur diese Einschraubzapfen verwenden!
CAUTION: Only use this type of stud ends!

ISO 9974-2
 ISO 9974-3

14^{+0,2}/_{-0,2}
 max. Ø10
 M22x1,5

L_{sp} = Nominal clamping dimension [mm]
 (Custom designs available on request)

Example order

PDV-A 200 - 75

Type _____
 L_{sp} _____

Type	A	B	C	D	E	F	G	H	J	K	P	R	X _A	X _B	Y _A	Y _B	L _{SP}
PDV-A 63	175	76	73	162	100	58	M22x1,5	30	30	Ø 24	25	52	20,5	39	154	113	60
PDV-A 100	180	83	80	170	120	73	M22x1,5	30	35	Ø 24	25	58	20,5	40	154	115	60
PDV-A 200	205	89	89	170	133	85	M22x1,5	15	40	Ø 30	55	72	23,5	48	175	136	70-80