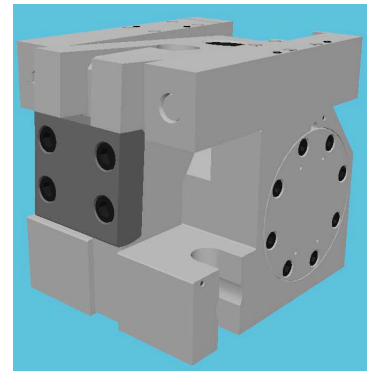
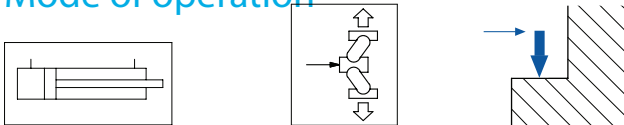


Application area

- 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.

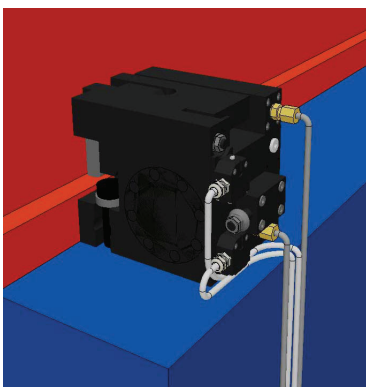
The Optima „Aktivator“ ensures that the clamping force is continuously monitored. To unclamp, the clamping lever is first discharged and then retracted entirely into the housing (park position).

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

Type	PDV 40	PDV 63	PDV 100	PDV 200
Clamping force [kN]	40	63	100	200
Max. loading force [kN] ¹⁾	60	100	130	250
Operating pressure [bar]: min. / max.	100 / 140	90 / 140	110 / 140	120 / 140
Clamping dimension tolerance [mm]	+/- 0,2			
Oil volume [cm ³]: Clamp / unclamp	24 / 20	56 / 50	56 / 50	97 / 87
Max. oil volume flow [l/min] ²⁾	0,2 - 0,3	0,4 - 0,6	0,4 - 0,6	0,6 - 1,2
Limit switch: Number / type	• two mechanical limit switches			
Supply voltage	• 250 V AC			
Switching capacity	• 2A / 230 V AC ; • 5 A / 24 V DC			
Connection type	• Screw connection			
Designation	• Clamping lever in unclamped position S5			
	• Continuous clamping force monitoring S6			
Max. operating temperature [°C]	70			
Weight [kg]	15	23	25	45

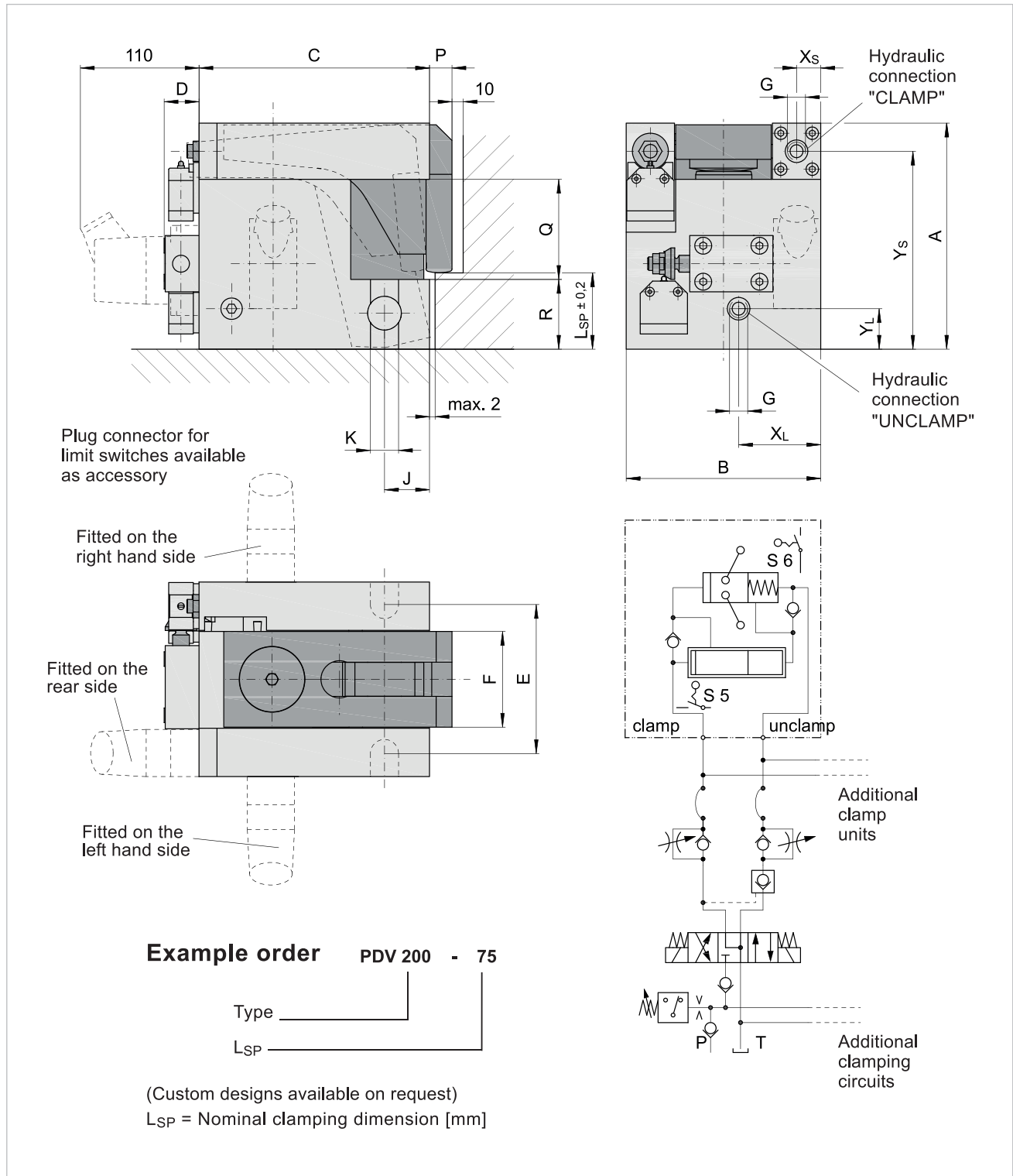
1) Mechanical damage may occur at higher loads.

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.

Fixing is achieved with two screws, DIN EN ISO 4762, strength class 10.9 (not included). Special washers are included.

Hydromechanical Block Clamp Unit

PDV



Type	A	B	C	D	E	F	G	J	K	R	Q	P	X_S	X_L	Y_S	Y_L	L_{SP}
PDV 40	128	130	138	27	95	60	G 1/8	25	17	40	54	15	17	90	113	24	50
PDV 63	170	140	155	30	100	58	G 1/4	30	17	58	73	20	20	85	153	35	60
PDV 100	175	155	170	30	120	73	G 1/4	35	21	50	80	20	20	58	152,5	22	60
PDV 200	201	173	205	31	133	85	G 1/4	40	25	62	89	20	21,5	73	176	36	70-80