HYDRAULIC CLAMPING TECHNOLOGY

Lever clamp

Lever clamps are primarily meant for individual cases, where the clamping position needs to be free for handling once the workpiece is clamped.
Compared to swing clamps, lever clamps have a more compact construction and higher clamping force. Lever clamps are especially meant for those cases, where bothering contours make the use of swing clamps unsuitable.

Technical features

- 3 different sizes
- Since the clamping lever has a movable position, the clamping point can be fully released.
- In horizontal position the clamping lever provides its optimal clamping force
- Workpiece tolerances with a position deviation of appr. +/-8.5° can be compensated easily.
- With metal scraper

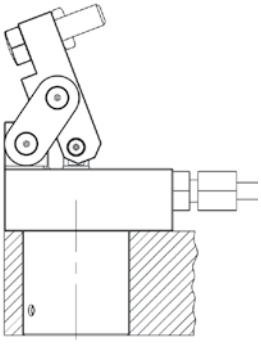
Optional available:

- The lever clamp cylinder can be equipped with full-length piston rod. The sensing can be made through inductive proximity switch or pneumatically.
- Special designed lever on request
- Lever clamp with O-Ring flanged connection (-02) oder Cartrigde version (-03)

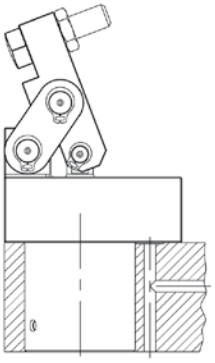
Recommended accessories (separate Order)

2 x straight screw connections **D8S-R1/8** or **D8S-R1/4**

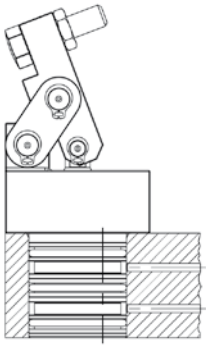
Available versions:



With threaded connection G1/4
Model no. –01



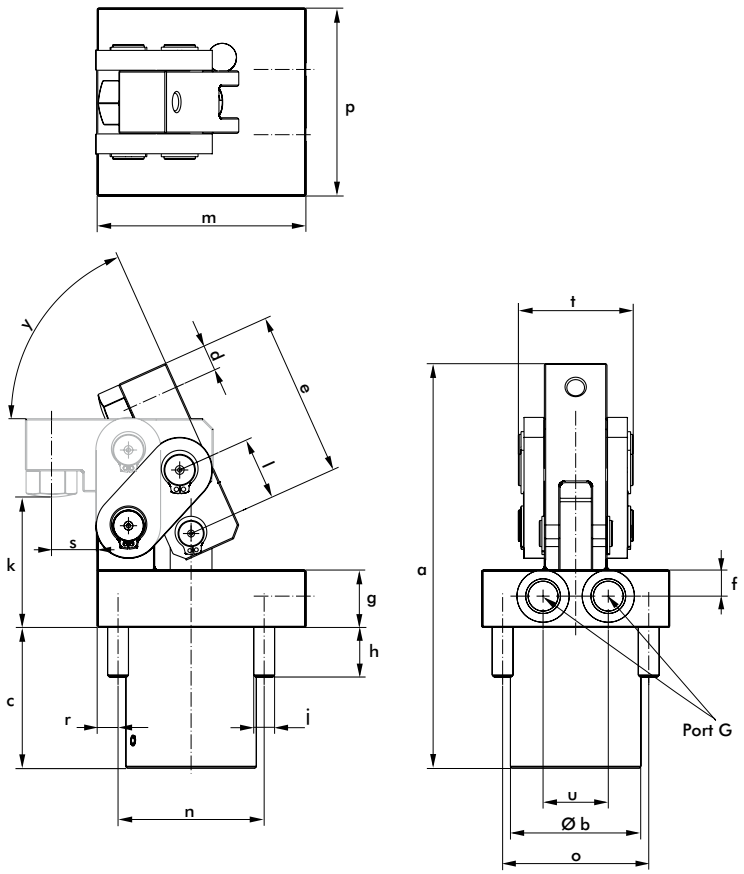
with O-Ring flanged connection
Model no. –02



Cartridge version
Model no. –03

Model no.	Clamping force at 100 bar	max. operating pressure	Oil consuption clamping	Oil consuption unclamping	Piston Ø	Connection	Weight
	[kN]	[bar]	[cm³]	[cm³]]	[mm]	G	[kg]
732D16HSZY-01	1,5	350	4,2	2,6	16	G1/8	1,4
732D25HSZY-01	3,9	350	13,2	7,8	25	G1/4	2,9
732D40HSZY-01	9,5	200	50,3	30,6	40	G1/4	6,9

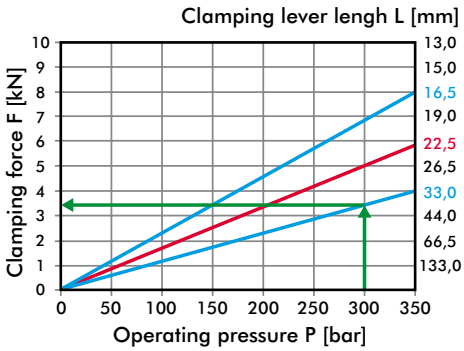
Lever clamp



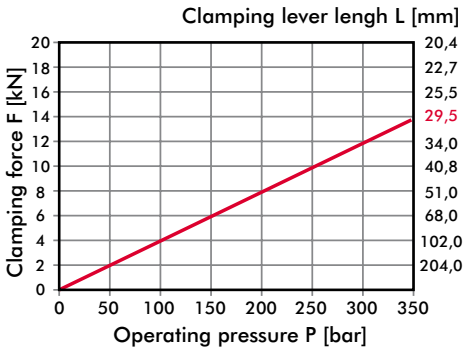
Model no.	a	b	c	d	e	f	g	h	j	k	l	m	n	o	p	r	s	t	u	y
	[mm]																			
732D16HSZY-01	117	38	37,5	7,5	49	8	22,5	10,5	M6	41,5	19	61	38	38	52	7	16	28	18	69°
732D25HSZY-01	156	50	54	10	63,5	10	22	19	M8	50	24	80	56	56	72	8	17	44	25	65°
732D40HSZY-01	191	70	67,5	10	82,5	12,5	25	20	M10	65	31.5	85	62	78	100	13,5		66	30	65°

Guidance for special clamping lever

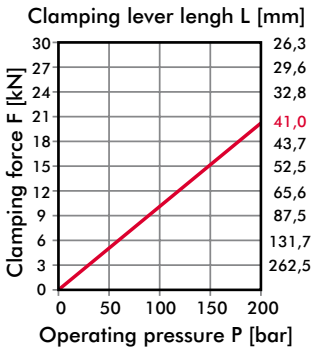
732D16HSZY-01



732D25HSZY-01



732D40HSZY-01



- Standard clamping lever
- Drawing example
- Calculation example

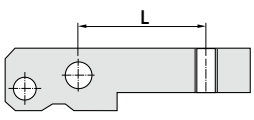
Values from diagram:

max. operating pressure	Pmax	=	350 bar
Fmax. at a Pmax.	Fmax	=	4 kN
Clamping lever length	L	=	33 mm
Operating pressure	P	=	300 bar
Resulting clamping force	F	=	3,43 kN

Solution:

Clamping force F = F max. x $\frac{P}{Pmax}$ = 4kN x $\frac{300\ bar}{350\ bar}$ = 3,43 kN

special clamping lever



HYDRAULIC CLAMPING TECHNOLOGY

Hydraulic power clamp | double acting

Operating pressure max. 250 bar

These power clamps are used where a hiht clamping force is needed combined with small clamp dimensions. The clamps are equipped with double oil connections for the clamping and opening procedures. This makes it easy to connect pipes when the clamps are arranged close together. If necessary, the cylinder body (after removal of the fastening screws) can be turned 90° in relation to the clamp. The stated clamping force of 5kN at 100 bar oil pressure is achieved only within the last 4 mm of clamping arm movement.

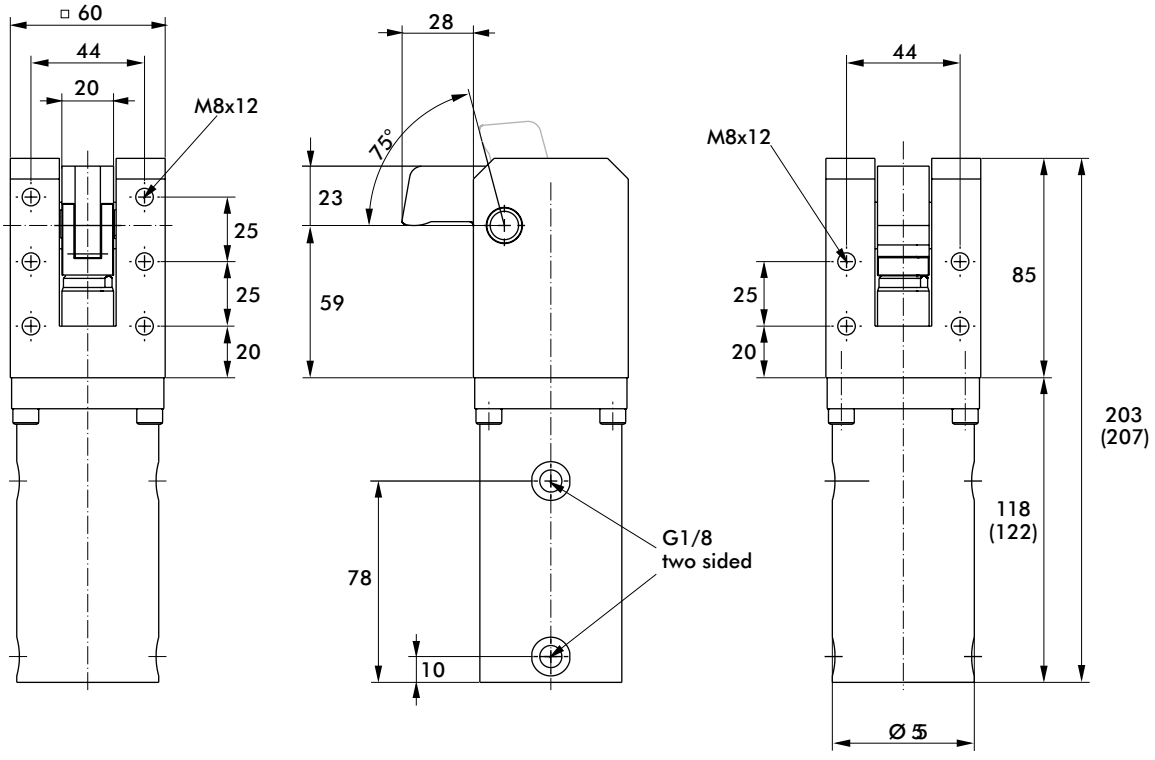
Technical characteristics

- Short clamping cycles with the double action version
- High clamping force with small dimensions
- Tolerance compensation of up to 4 mm at consistant clamp-force
- Optional: special clamping arm available

Recommended accessories (separate Order)

2 straight screw connections, Order no. **D8S-R1/8**

(with special designed clamping arm)



Model no.	version	max. operating pressure [bar]	Clamping force at 100 bar [kN]	Tolerance compensation [mm]	Oil consumption forward stroke [cm³]	Oil consumption back stroke [cm³]	Connection	Weight [kg]
7011-5	double acting	250	5	4	25,7	15,5	4 x G1/8	3,8