

## Item description/product images

**Description****Material:**

Housing aluminium.  
Clamping arm steel.

**Version:**

Housing anodised.  
Clamping arm black oxidised and nickel-plated.

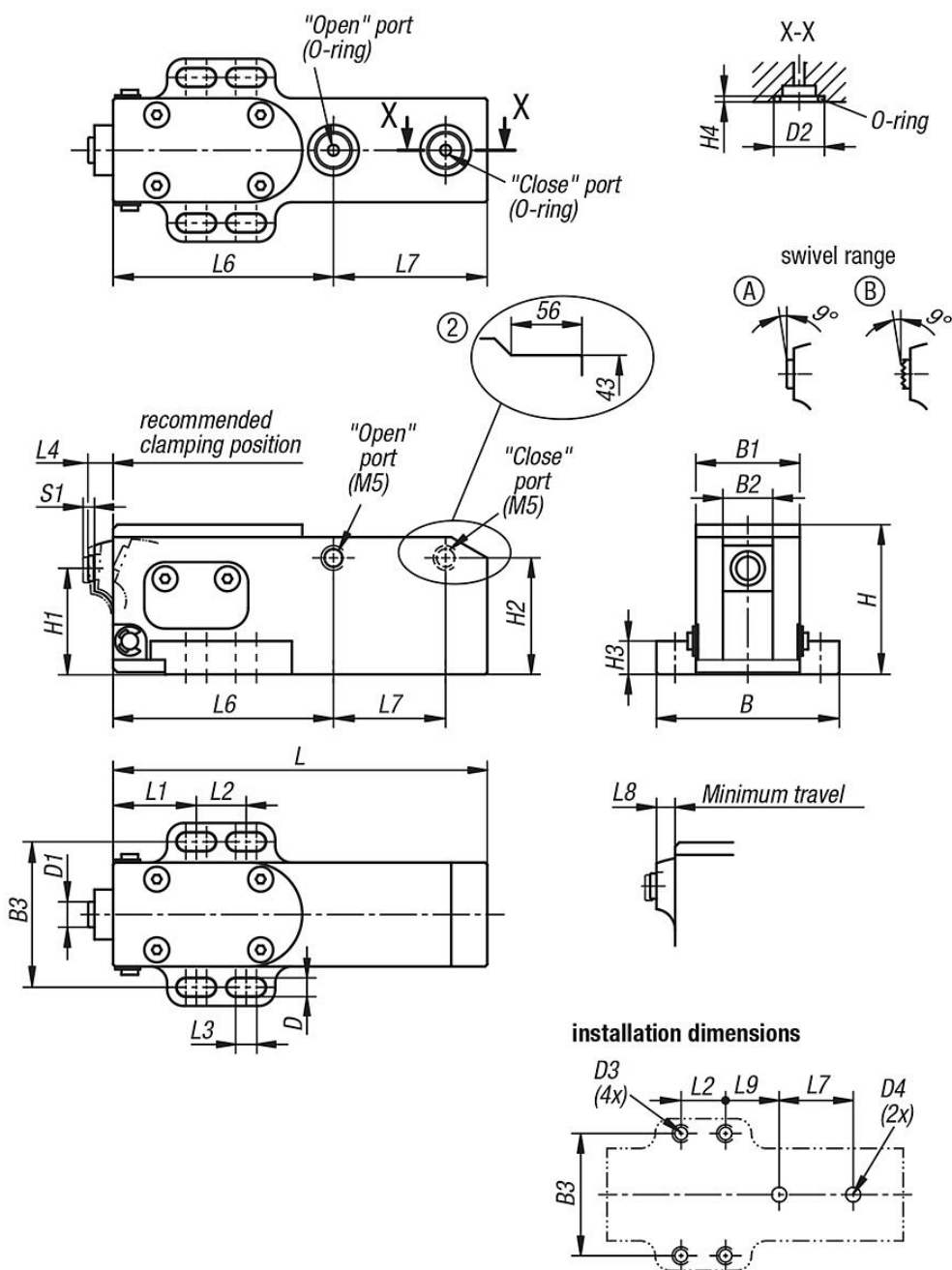
**Note:**

Side clamps are suitable for clamping workpieces which must be machined from above. Lateral clamping keeps the upper machining surface free from protruding edges. These side clamps are operated with standard pressure compressed air. The large swivel angle of the clamping arm makes it easy to insert and remove the workpieces without any obstructions, guaranteeing optimum accessibility to the workpiece. The block design of the housing offers universal fastening possibilities, which means that the side clamp can be optimally adapted to the workpiece being clamped. These side clamps are available with smooth and serrated jaw plates, enabling rough or machined workpieces to be held. Pneumatic side clamps can also be placed in multiple positions on the workpiece and operated in any particular order. They can be controlled manually or automatically. As these clamps are pneumatically actuated, they relieve the operator, particularly where frequent clamping processes are carried out.

The clamping forces indicated are based on 0.5 MPa.

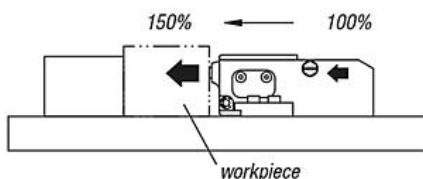
**Drawing reference:**

Form A: smooth  
Form B: serrated

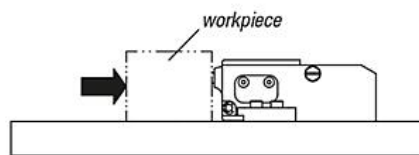


Drawings

The clamping mechanism increases the clamping force by 150% compared to a pneumatic cylinder of the same size.



The clamping arm is operated via a wedge mechanism. If the air pressure drops due to an air leak, the wedge mechanism prevents the clamping force from dropping rapidly.

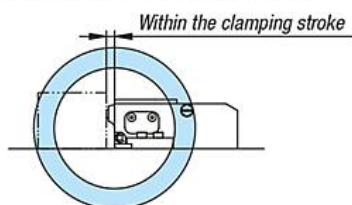


Wedge mechanism ensures secure clamping even in the case of counterforce against the side clamp.

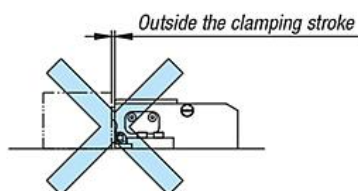
Permissible counterforce (per clamping element)

Size	Permissible clamping force (kN)
1	1,1
2	2,4

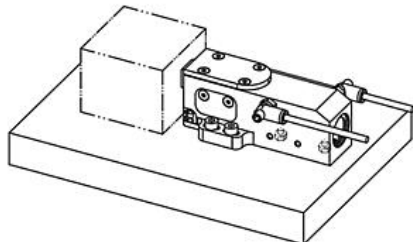
Use side clamp within the clamping stroke.



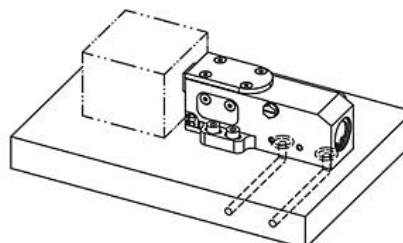
The wedge mechanism is used to clamp the workpiece securely in place.



The wedge mechanism will not function.

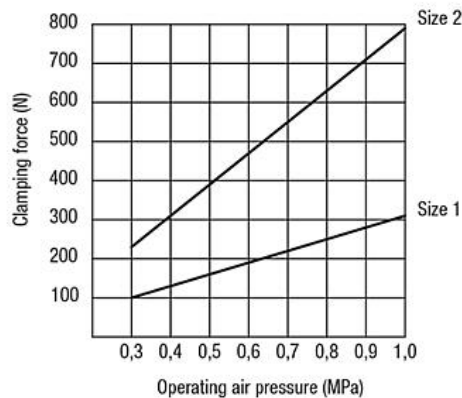


Side ports as shown. Lower ports must be sealed.



Connection from below. The side ports must be sealed.

Performance curve



## Overview of items

Order No.	Size	Form	B	B1	B2	B3	D	D1	D2	D3	D4	H	H1	H2	H3	H4
-	1	A	44	25	12	35	4,5	6	12,2	M4	2-4	36	25,5	28	8	1,9
-	1	B	44	25	12	35	4,5	6	12,2	M4	2-4	36	25,5	28	8	1,9
-	2	A	65	40	18	53	6,5	8,5	18	M6	2-6	54	39,5	33	12	2,4
-	2	B	65	40	18	53	6,5	8,5	18	M6	2-6	54	39,5	33	12	2,4

Order No.	L	L1	L2	L3	L4	L6	L7	L8	L9	S1 (travel)	F N	Operating pressure MPa
-	90	20	12	5	6	53	27	5	21	2	160	0,3 - 1,0
-	90	20	12	5	6	53	27	5	21	2	160	0,3 - 1,0
-	135	30	20	8	12	84	38	10,5	34	3	390	0,3 - 1,0
-	135	30	20	8	12	84	38	10,5	34	3	390	0,3 - 1,0