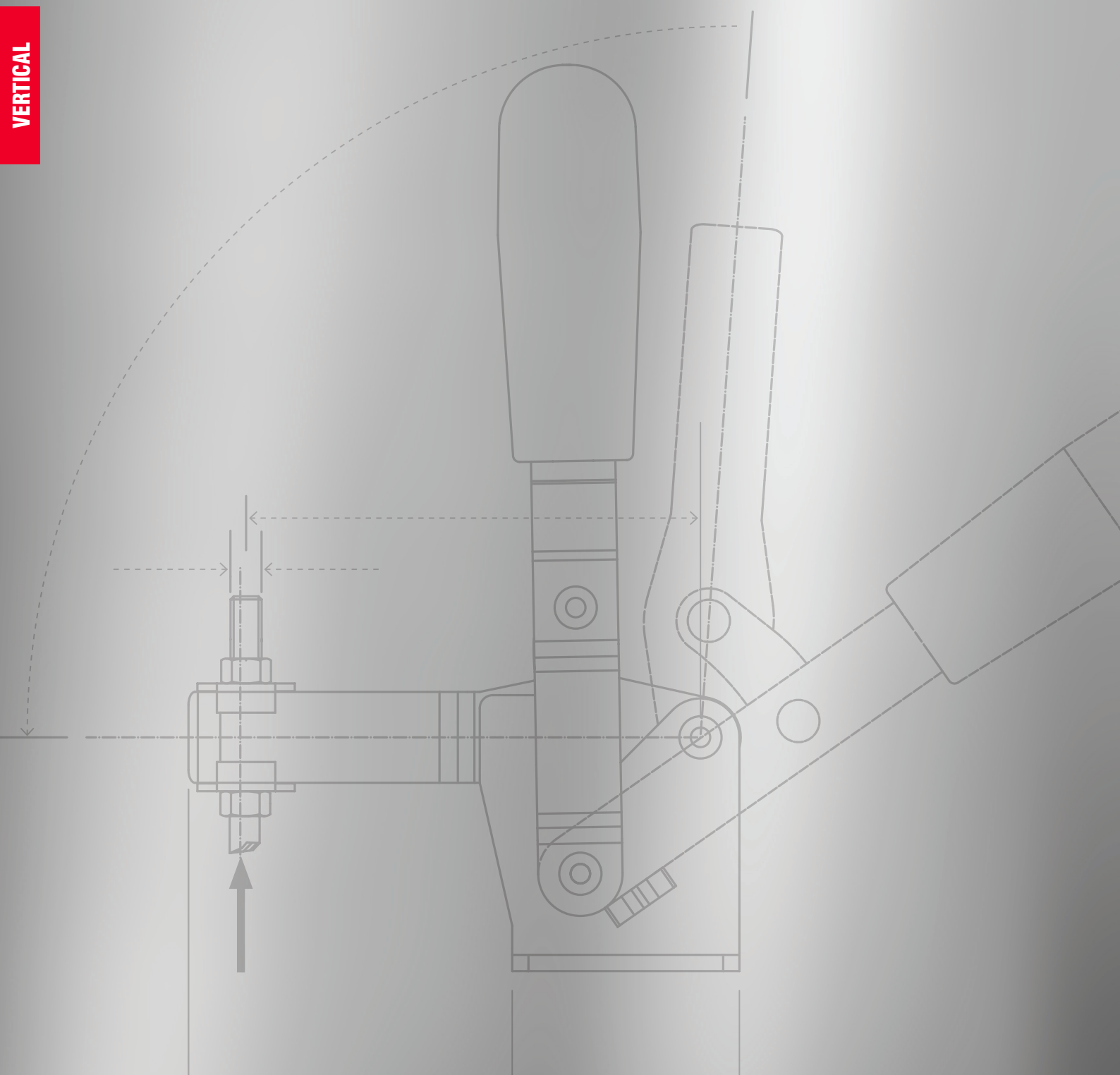


# VERTICAL SERIES

VERTICAL



Here you can download  
2D and 3D CAD drawings  
of all products.



The tools of this family are characterized by the vertical position of the control lever in the clamping position. The clamping and control levers normally move in the same direction.

Depending on the different needs of the application, you can choose between four different executions:

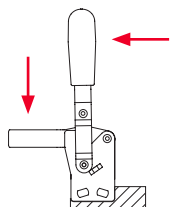
**LIGHT SERIES:** It has holding forces from 75 to 875 daN. They are available in galvanized steel and stainless steel.

**HEAVY-DUTY SERIES:** It has retention forces from 1000 to 3000 daN. The heavy-duty version is used when there are resistant forces of high intensity, for example: in the closing of moulds for foams, polyurethanes, etc. The tools of this series are built so that they can be easily disassembled so as to allow the reworking of the individual elements according to the needs of use. The products are made of phosphated weldable steel.

**REINFORCED HEAVY-DUTY SERIES:** It has holding forces from 220 to 1540 daN. The hot forged parts, as well as the tempered and ground pins and bushings, make this series suitable for heavy loads and a long service life. They are normally used on welding masks, carpentry work, moulds and generally where large clamping forces and strong repetitiveness of movements are required.

**HIGH TEMPERATURE SERIES:** It has holding forces from 160 to 1500 daN. These tools are free of plastic parts and with the appropriate modifications compared to the light series models (couplings with different tolerances, changes in geometries, different finishes, etc., etc.) that make them suitable for use in environments that can reach 240-300 °C. The products are made of phosphated weldable steel.

They are normally used in the rotational moulding of plastic and require a type of clamping capable of working safely and quickly at high temperatures without uncertainties in closing and opening.



# B/BX - F/FX

## VERTICAL TOGGLE CLAMPS WITH STRAIGHT BASE

### Material:

Galvanized Steel (B/F) or **AISI 304 stainless steel** (BX/FX).

### Riveted Pivots:

Galvanized steel (B/F) or **AISI 304 stainless steel** (BX/FX).

### Supporting bushes (for sizes $\geq 130$ ):

Hardened and ground galvanized or stainless steel.

### Handle:

Red polyurethane; resistant to oils, greases and other chemical agents.

### Executions:

- **B/BX**: open clamping lever with two folded washers, included in the supply.
- **F/FX**: full clamping lever and bolt retainer, included in the supply, to be welded in the desired position and angle.

### Features and applications:

During closing, the clamping lever is guided laterally to ensure greater stability against any transverse stresses.

The movement of the levers has been designed to ensure the safety of the operator's fingers and prevent them from being crushed during the movement of the tool.

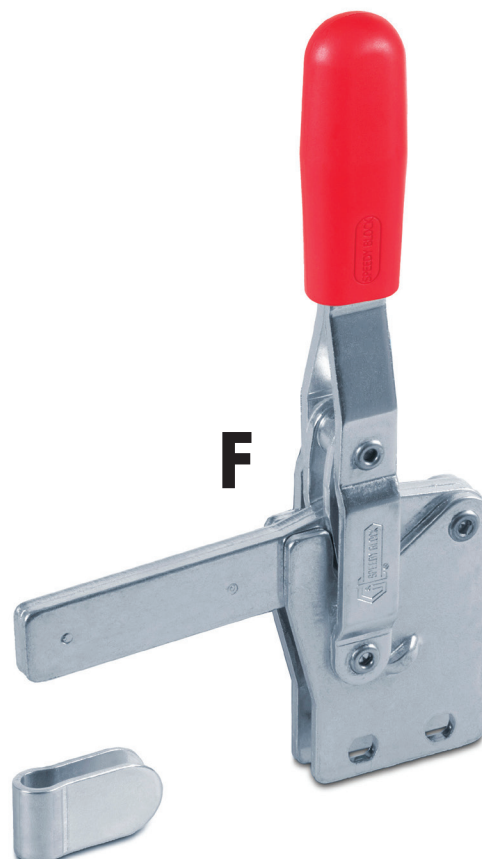
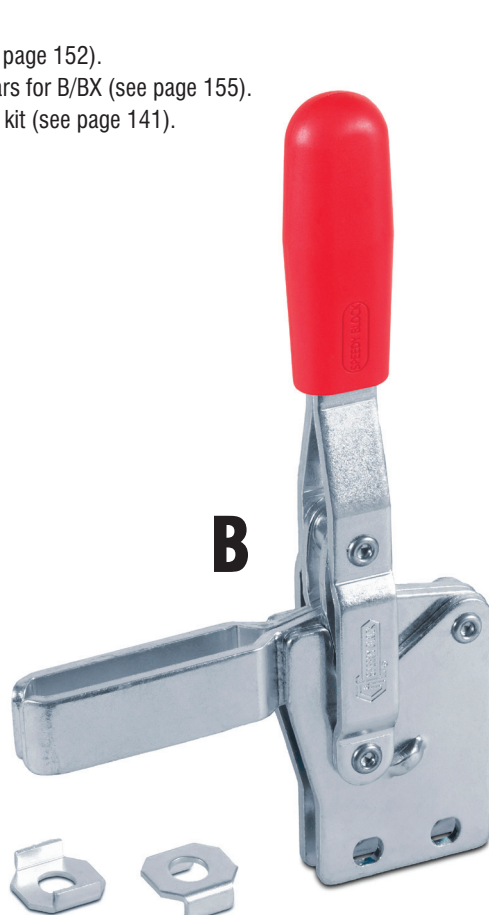
A special grease is applied to the contact surfaces to reduce friction and make the movement smoother.

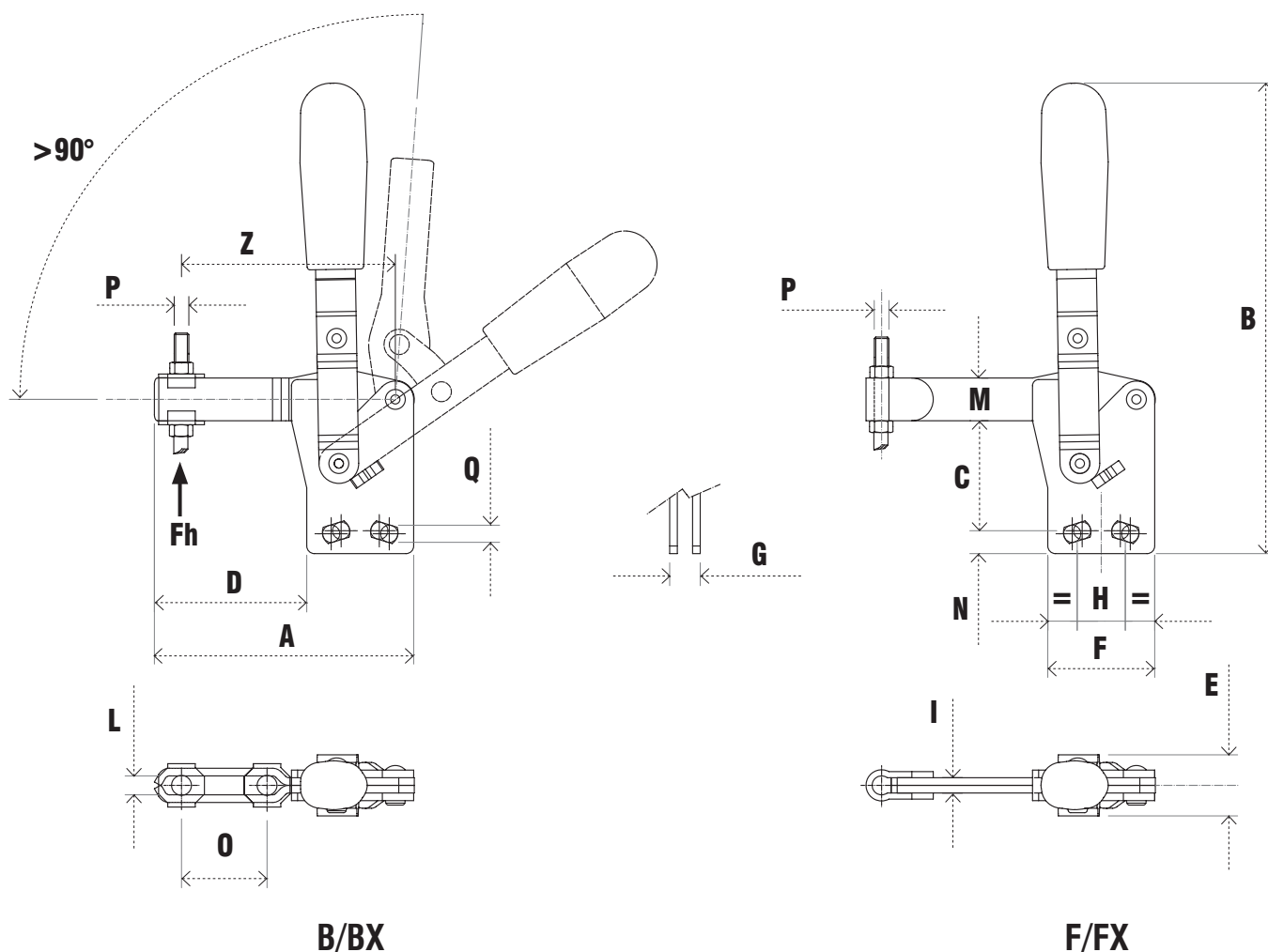
### Other available executions:

Series with safety lever, reinforced series, pneumatic series.

### Accessories:

- Spindles (see page 152).
- Lever crossbars for B/BX (see page 155).
- Safety sensor kit (see page 141).





Code	Description	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	Z	Fh (daN)	Gr.
AA522	75/B	67	109.5	27	38	16	29	8	15÷16		5.2	11	5	20	M5	4.5	56	75	98
AA526	75/F	67.5	109.5	27	38.5	16	29	8	15÷16	4		11	5		M5	4.5		75	100
AA532	130/B	85	156	35÷36	50	20	35	10	12.5÷19		6.2	16	7.5÷6.5	28	M6	5.6	71	105	230
AA536	130/F	86	156	35÷36	51	20	35	10	12.5÷19	5		16	7.5÷6.5		M6	5.6		105	235
AA542	230/B	110.5	183	41.5	67.5	23	43	12	18÷21		8.5	18	6.5	40	M8	6.7	94	200	380
AA546	230/F	112	183	41.5	69	23	43	12	18÷21	6		18	6.5		M8	6.7		200	390
AA552	330/B	129	218	56.5÷57	79	25	50	14	29÷32		10.5	22	10÷9.5	43	M10	8.5	108	240	620
AA556	330/F	130.5	218	56.5÷57	80.5	25	50	14	29÷32	7		22	10÷9.5		M10	8.5		240	620
AA562	430/B	164	267.5	67.5	106	34	58	18	32		12.5	26	10	64	M12	8.5	138	280	1100
AA566	430/F	166	267.5	67.5	108	34	58	18	32	10		26	10		M12	8.5		280	1100
AA572	530/B	223	337	105	146	34	77	18	50÷51		12.5	32	12.5	90	M12	12.5	195	450	2110
AA576	530/F	225	337	105	148	34	77	18	50÷51	10		32	12.5		M12	12.5		450	2110



Code	Description	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	Z	Fh (daN)	Gr.
AS100	75/BX	67	109.5	27	38	16	29	8	15÷16		5.2	11	5	20	M5	4.5	56	75	98
AS110	75/FX	67.5	109.5	27	38.5	16	29	8	15÷16	4		11	5		M5	4.5		75	100
AS155	130/BX	85	156	35÷36	50	20	35	10	12.5÷19		6.2	16	7.5÷6.5	28	M6	5.6	71	105	230
AS165	130/FX	86	156	35÷36	51	20	35	10	12.5÷19	5		16	7.5÷6.5		M6	5.6		105	235
AS185	230/BX	110.5	183	41.5	67.5	23	43	12	18÷21		8.5	18	6.5	40	M8	6.7	94	200	380
AS195	230/FX	112	183	41.5	69	23	43	12	18÷21	6		18	6.5		M8	6.7		200	390

