HAWE HYDRAULIK

Hydraulic clamps type HSE and HSA

Hydraulic clamps type HSE and HSA are single-acting power elements equipped with return springs, which are used in hydraulic fixtures where only a very restricted space is available for the generation of high forces with limited piston movement. The type HSE is designed as a screw-in cylinder whereas type HSA is manifold mounting. These clamps are available, depending on application with piston diameters between 12 and 40 mm and strokes between 2 and 25 mm. They are mainly used for clamping work pieces, slides and guides, indexing round tables and for bending punching and cutting purposes.
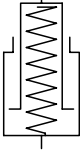
Nomenclature:	Hydraulic clamps
Design:	Screw-in version Manifold mounting
p_{max}:	500 bar
F_{max}:	60000 N

Basic types and general parameters

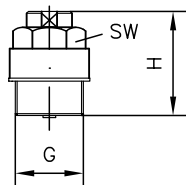| Basic type and size	Stroke (mm)	F_{max} (N) with 500 bar	Oper. pressure p_{max} (bar)	Mounting thread	Symbol
HSE 12	2 .. 8	5500		M 20 x 1.5	
HSE 16	3 .. 12	10000		M 24 x 1.5	
HSE 20	4 .. 20	15000	500	M 30 x 1.5	
HSE 24	5 .. 20	23000		M 36 x 1.5	
HSA 32	20	40000		---	
HSA 40	25	60000		---	

Order examples

HSE 24 - 15

Hydraulic screw-in clamps type HSE, piston diameter 24 mm, stroke 15 mm

HSA 32 - 20

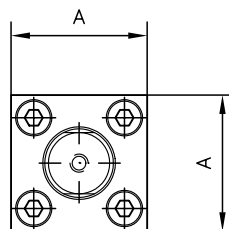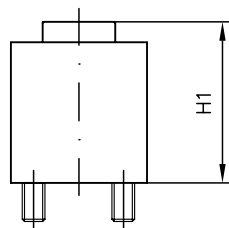Manifold mounting hydraulic clamps type HSA, piston diameter 32 mm, stroke 20 mm

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Dimensions

Type HSE ..   **Type HSA ..**

All dimensions in mm, subject to change without notice!

Basic type	H [1])	G	SW	m (kg)
HSE 12	20.5 ... 32.5	M 20 x 1.5	a/f 24	0.05 ... 0.08
HSE 16	26.5 ... 41.5	M 24 x 1.5	a/f 24	0.08 ... 0.12
HSE 20	28.5 ... 56	M 30 x 1.5	a/f 30	0.14 ... 0.3
HSE 24	34 ... 65	M 36 x 1.5	a/f 36	0.25 ... 0.5

Basic type	H1 [1])	A	m (kg)
HSA 32	71	60	1.6
HSA 40	85	70	2.5

[1]) Plus stroke

Further information

• Hydraulic clamps type HSE and HSA   D 4711

• See also section "Devices for special applications" (Hydraulics for clamping)

For page and section of the devices additionally listed, see type index