



STARK Pressure booster – clamping made fast and safe

The pressure booster converts compressed air into hydraulic pressure and is suitable for applications in the range between 30 and 110 bar for releasing the zero point mounting system.

The pressure booster is available with or without "Third Hand" function (THF).

Pressure boosters with the "Third Hand" function (THF), stop in the locked position after correct introducing of the retractable nipple the workpiece or palette. Workpieces and palettes are therefore safeguarded against falling and the operating personnel does not have to hold them. This speeds up the clamping process and makes it even safer.

Stark Spannsysteme GmbH A-6840 Götzis Tel. +43 (0)5523 64739-0 Fax +43 (0)5523 64739-7 verkauf@stark-inc.com www.stark-inc.com

om 07.2007

2.857



Pressure booster

The pressure booster converts air pressure into hydraulic pressure. The "Third Hand" function (THF) safeguards the workpiece or palette after positioning against falling until the clamping process is completed.

Pressure booster RECORD 80 bar

Order no.	Releases approx. pieces	System pressure	Air pressure	Weight	
804 412	14 x SPEEDY 6 kN 40 6		6	0 00 kg	
004 412	7 x SPEEDY 20 kN	40	6	8,80 kg	
804 429	14 x SPEEDY 6 kN with THF	40	6	10 E0 kg	
004 429	7 x SPEEDY 20 kN with THF	40	6	10,50 kg	



Pressure booster KOLOSS 110 bar

Order no.	Releases approx. pieces	System pressure	Air pressure	Weight
804 414	12 x SPEEDY 10 kN	80	6	14,10 kg
804 430	12 x SPEEDY 20 kN with THF	80	6	15,80 kg



Pressure booster BOOSTER 40/80 bar

Order no.	Releases approx. pieces	System pressure	Air pressure	Weight	
	45 x SPEEDY 6 kN		6 bar		
804 435	23 x SPEEDY 20 kN	20 kN 40 bar 6 bar 27,30		27,30 kg	
	7 x SPEEDY 30 kN	30 bar	5 bar		
	22 x SPEEDY 10 kN	80 bar	6 bar		
804 436	6 x SPEEDY	60 bar	5 bar	27,30 kg	
	Sweeper 20 kN	00 04	5 Dai		

The pressure booster BOOSTER is also available with THF.

Accessories for the pressure booster

A hydraulic hose of 1,5 meter in length is included in the delivery (other hose lengths upon request).

Order no.	Designation	Weight
804 419	Indexing foot pedal for the pressure booster complete	2,40 kg
804 428	THF-controller in the housing with foot pedal	1,70 kg

All pressure boosters can be equipped with indexing footpedals upon request.





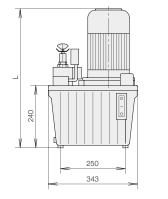


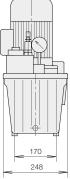
Pumping unit

Electrical pumping unit



The pumping unit is specially suited for small to medium size clamping and assembly devices with one-way cylinders that mainly operate during intermittant operation (pressure build up and pressure maintenance).





S0

Hydraulic diagram

7

Order no. Base equipment	Order no. With filter check	Blower output ccm/s	l/ min.	100% ED	g pressure 40% ED par	Nominal output KW	L2 mm	kg
8223-310	8223-910	15	0,9	350	500	0,75	489	27
8122-300	8122-900	25	1,5	150	200	0,75	489	27
8223-308	8223-908	25	1,5	360	500	1,1	504	30
8223-323	8223-923	86/12	5,2	100/500	100/500	0,75	489	29
8223-311	8223-911	41	2,5	220	300	1,1	504	30
8142-300	8142-900	70	4,5	64	85	0,75	489	27
8143-300	8143-900	70	4,5	104	142	1,1	504	30
8144-300	8144-900	70	4,5	142	180	1,5	531	34
8152-300	8152-900	102	6,2	50	65	0,75	489	27
8153-300	8153-900	102	6,2	73	100	1,1	504	30
8154-300	8154-900	102	6,2	100	125	1,5	531	34

General specifications

Туре:	81XX-toothed wheel pumps, 82XX-radial piston pumps, 8223-323 2-stage pump
Mounting:	Foot mount, connection gauge G 1/4
Rotation:	Bidirectional for radial piston pumps, clockwise for toothed
	wheel pumps, counter clockwise for 2-stage pumps (looking
	down on the drive shafts)
Fitting:	Vertical, container volume 11 l, usable volume $Vn = 6 l$
Efficiency:	Vol. efficiency h vol = $85-95\%$ for toothed wheel pumps,
	h vol = 92-96% for radial piston pumps
Accessories:	Upon request the pumping units are available with electrically activated directional control valves. Order valves separately.

Electrical specifications

Order no. 3822-008.

are not part of the base equipment. Oil level and oil temperature gauge:

Nominal voltage: 230/400 V, 50 Hz Fusing: IP 54 The calculation of the relative duty cycle is based on a cycle of 10 min. With 40% ED e.g. the maximum load within the cycle should not exceed 4 min. During the remaining time, the motor can carry a load off up to 50% of the nominal output and should run continuously.

The pictured pressure switch, the oil level and oil temperature gauges and the filter monitors

Stark Spannsysteme GmbH
A-6840 Götzis