


AIR HYDRAULIC PUMP

- Converts air pressure to oil pressure
- For hydraulic grips with spring return and for double action hydraulic grips without spring return

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| <p>Item no.: TH135-Pu-V2-o2-450-spr</p> <p>Air hydraulic pump for <u>spring return hydraulic grips</u>:</p> <ul style="list-style-type: none"> • 2 valves for independent switching of the grips (open – close) • Remote control with ON / OFF switches • Capacity: 2.75 l/min, 40 - 450 bar • 1:61 (air pressure: oil pressure) • Dimensions (LxWxH): 350 x 250 x 400 mm • Weight 27.5 kg; 220 V, 0.1 A. Noise level 60 dBA |  <p>The image shows a compact, stainless steel air hydraulic pump. It features a pressure gauge on top, two control valves, and a remote control unit with two switches. Several hoses and cables are connected to the unit, including a grey power cable and yellow hydraulic hoses.</p> |
| <p>Item no.: TH135-Pu-V2-o2-450-G-a-spr</p> | |
| <p>Same as TH135-Pu-V2-o2-450-spr, but</p> <ul style="list-style-type: none"> • incl. housing for noise reduction; noise level closed in the box 50 dBA • with analogue pressure transducer: clamping pressure can be adjusted through analogue signal 1-10 Volt • Dimensions (LxWxH): 723 x 350 x 617 mm |  <p>The image shows a grey, rectangular metal housing for the air hydraulic pump. The housing has a control panel on the front with a green emergency stop button, a red power button, and a pressure gauge. A power cable is plugged into the bottom of the unit.</p> |
| <p>Item no.: TH135-Pu-V4-o2-450-G-a-spr</p> | |
| <p>Same as TH135-Pu-V2-o2-G-a-450-spr but</p> <ul style="list-style-type: none"> • with 4 hydraulic valves to lock the jaws at any required position (close – stop – open) |  <p>The image shows the grey metal housing with its doors open, revealing the internal air hydraulic pump and four hydraulic valves. The control panel on the front is visible, showing the emergency stop and power buttons.</p> |
| <p>Item no.: TH135-Pu-V4-o4-450-G-a</p> | |
| <p>Air hydraulic pump <u>for double action hydraulic grips without spring return</u> (e.g. TH188, THS321-Hy):</p> <ul style="list-style-type: none"> • with 4 hydraulic valves to lock the jaws at any required position (open – stop – close) • with analogue pressure transducer: clamping pressure can be adjusted through analogue signal 1 – 10 Volt, max. pressure 450 bar • Incl. housing for noise reduction |  <p>The image shows the grey metal housing for the double action pump. The main view shows the front panel with the control buttons. An inset image on the right shows a close-up of the four hydraulic valves on the side of the housing.</p> |

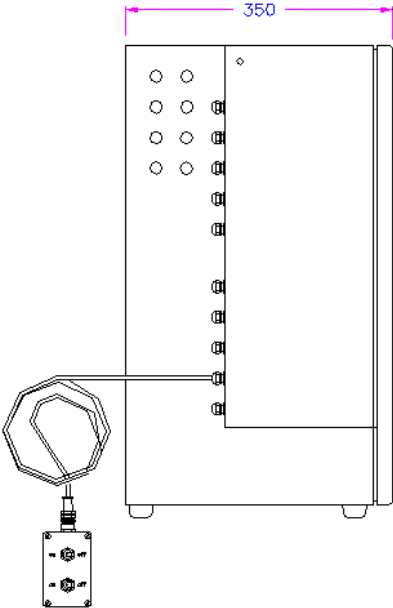
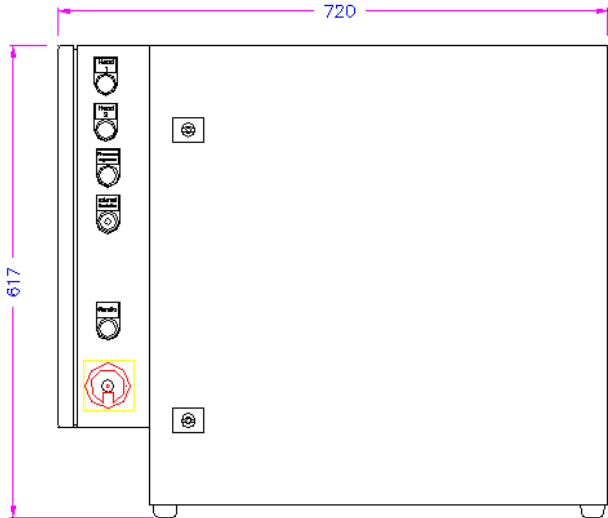
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| <p>Item no.: TH135-Pu-V4-700</p> | |
| <p>Air hydraulic pump</p> <p>Max. pressure: 700 bar</p> <p>Tank size: 0.9 l</p> <p>Output flow rate: 0.13 l/min at 700 bar 0.5 l/min at 0 bar</p> <p>Dimensions: 450x190x190 mm (LxWxH)</p> <p>Weight: 9 kg</p> <p>Scope of supply: 1 pump incl. high pressure hose (1.8 m long)</p> |  |

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| <p>Accessories for the pumps:</p> |  |
| <p>Item no.: THS1881-6.3-3-SW19</p> <p>Hydraulic hose, 3 m long, 6.3 mm inner diameter, 1/4" fittings, 450 bar, 125°C, union nuts: M16x1.5, wrench size 19 mm</p> | |
| <p>Item no.: THS1881-6.3-5-SW19</p> <p>Hydraulic hose, 5 m long, 6.3 mm inner diameter, 1/4" fittings, 450 bar, 125°C, union nuts M16x1.5, wrench size 19 mm</p> | |

Higher temperatures:

Hydraulic sealings can be used from -30°C up to 125°C
 In special cases we can supply up to +200°C (material of sealing FKM PTFE Bronze)

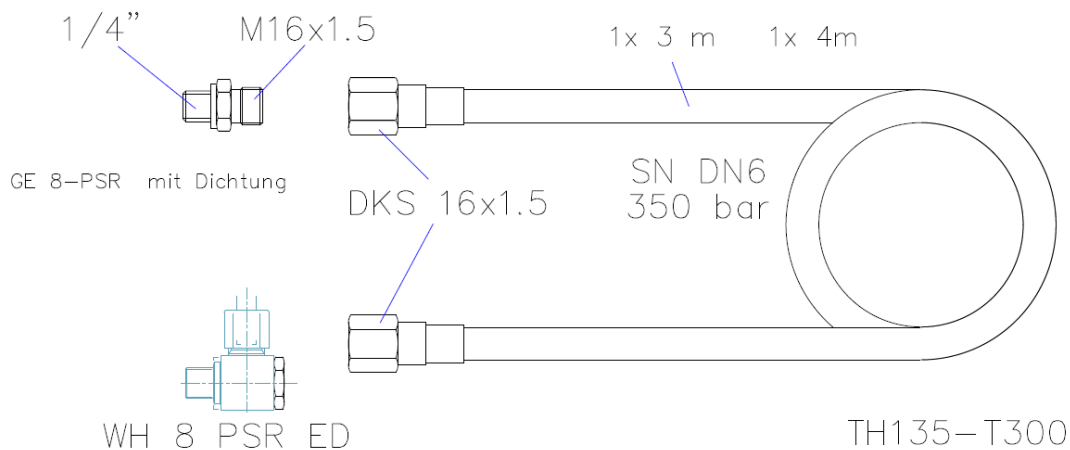
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|---|---|
|  | <p>TH135-Pu-... back side</p> |
|  | <p>TH135-Pu-... noise level 50 dBa</p> |



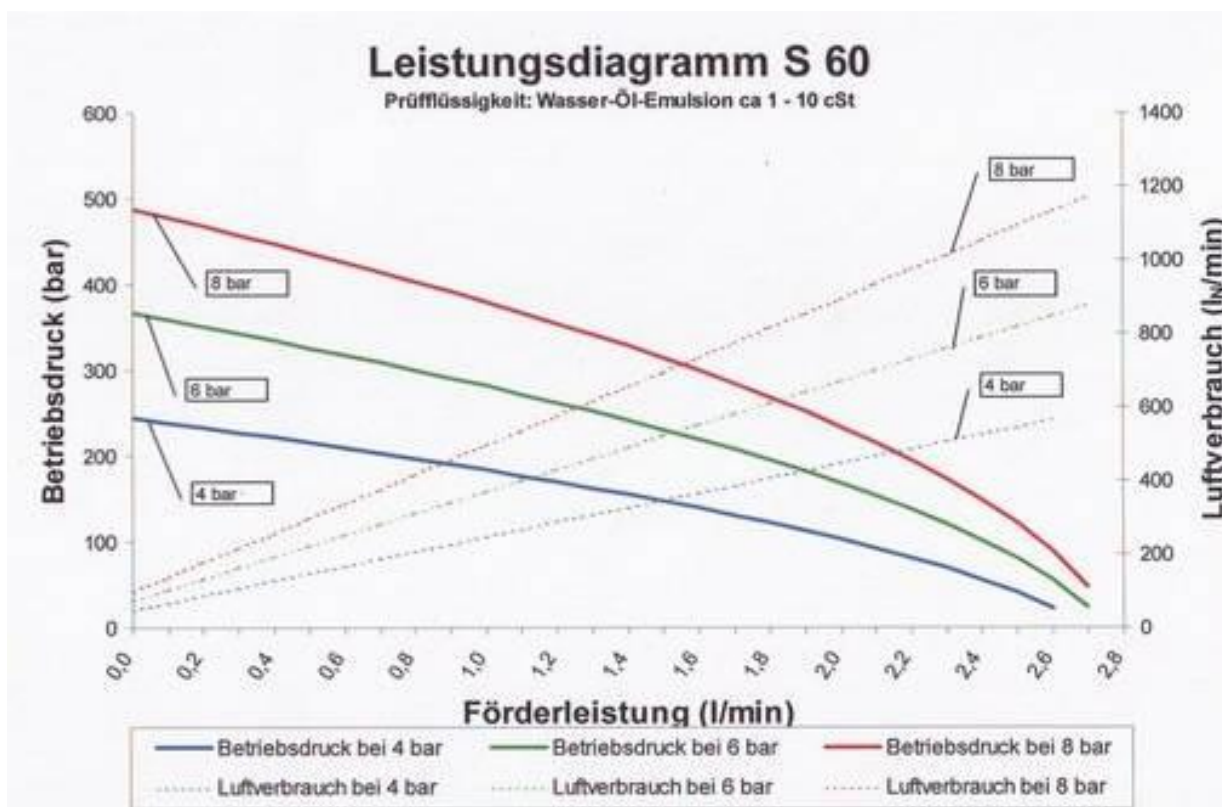
How to connect TH135-Pu to TH135-180



- <http://www.youtube.com/watch?v=qflG5tBUoeU> Video-1
- <http://www.youtube.com/watch?v=KWzg4CWBrSE> Video-2
- <http://www.youtube.com/watch?v=O6K5D3noHJ8> Video-3
- <http://www.youtube.com/watch?v=zQE4KXbeoEI> Video-4
- http://www.youtube.com/watch?v=XG_Nr4E2c9w Video-5
- <http://www.youtube.com/watch?v=1ixM81SPF-E> Video-7
- <http://www.youtube.com/watch?v=Ih-pLgQ5-aA> Video-8
- http://www.youtube.com/watch?v=o6s_pfzMB4w Video-9



- 1x Hydraulikschlauch 2SN DN 06 bds DKOS 08-S-3000mm lang
- 1x Hydraulikschlauch 2SN DN 06 bds DKOS 08-S-4000mm lang
- 2x GE08SREDOMDCF
- 2x WH08SRKDSCMDCF



Possible oils:

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| Aral | Vitam GF 46 |
| BP | Energol HLP 46 |
| Esso | Nuto H46 |
| Shell | Tellus Oil 46 |
| | Hydrol DO 46 |
| | Hydrol HV 46 |
| DEA | Astron HLP 46 |

Legend

TH135-Pu-A-B-C-D

e.g. TH135-Pu-V2-o2-450b

A = Vx valves x can be 2 with close and open or 4 with close-stop-open**B = ox outlet** x can be 2 with simple spring return grips
x can be 4 with double action rods (no spring inside to move rod back)**C = pressure of system, typically we have 350, 450 or 700 bar****D = optional "G" for noise box, "a" for analogue pressure regulator**