

# Professional Technology Grease



## Lubrication by „hand and foot“

Let's start our trip to the lubrication universe with the „classics“ which are still the backbone in lubrication worldwide - the hand- and foot-operated lubrication equipment. They are literally independent from electric power and compressed air. However, they ask for your muscular strength - sometimes less, sometimes more.

If you have to lubricate e.g. the huge harvesting or construction machines which need quite a bit of grease your choice is the hand-operated bucket greaser HAG which gives you high pressure lubrication directly out of the grease keg. The HAG bucket greasers are by the way also very popular for servicing cable cars and ski lifts in the mountains.

You need a free hand and would like to have a little extra exercise for your leg muscles? Fine, then just get yourself one of our high-pressure foot-operated grease pumps FHP or WH. They have a clear home field advantage in industry, in shipping and railway companies.

Worldwide number one in the lubrication charts as second to none is still the good old lever-type grease gun - a real classic. Many million pieces are manufactured every year and the volume is still growing. Watch out, though, when you buy a grease gun! If you have to lubricate your leisure time vehicles once or twice a year you could, if you want to do so, settle for one of the cheap grease guns, but if you or your customers are professional users you should look for quality - otherwise buying cheap could become very expensive in the end when you look at the enormous financial damage a not properly lubricated bearing could cause when it comes to the very expensive machines which are used in industry, construction or agriculture.

As we consider ourselves to be professionals having been servicing for almost 90 years now professionals like yourself, we place special emphasis on quality products. This applies to our top of the line grease guns, the Variomatic special for the very rough applications and as well to our X-TRA line grease guns made completely out of steel, our workhorse for the everyday lubrication job.

## Professional lever grease guns

- ultimate suction power with full-stroke system
- extremely reliable, also with high-pressure applications
- precisely worked piston, no need of additional sealings
- made of precision steel, robust and durable
- safe grip (non-slip knurled pump body, curved lever, extra-large piston knob for safe handling)
- working pressure 400 bar/ 5.800 psi

## Professional heavy-duty lever grease gun „Variomatic“ special

- heavy-duty lever grease gun made of precision steel with heavy-duty diecast aluminium head
- builds up very high pressure
- for application under hard conditions, especially in agriculture and construction
- ultimate suction power with full-stroke system
- white plain carton
- filler nipple
- safety handle
- three-way loading with professional filler pump FG plus, 400g/ 14oz grease cartridges (DIN 1284) or bulk grease
- capacity 500ccm/ 400g/ 14oz
- connecting thread M=M10x1, 1/8" BSP=G1/8"

**40 844** Set „Variomatic“ special/M with extension pipe 103/M (DIN 1283)

**40 842** Set „Variomatic“ special/BSP with extension pipe 103/BSP

**40 843** Set „Variomatic“ special/M with safety high-pressure rubber hose 110/M (DIN 1283)

**40 841** Set „Variomatic“ special/BSP with safety high-pressure rubber hose 110/BSP

€

40 844



40 841

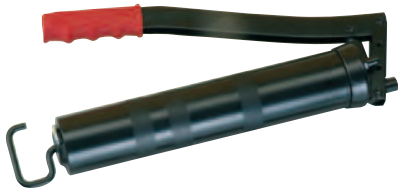


45,50

45,50

49,50

49,50

**40 799**

**Professional lever grease gun „X-TRA 701“**

€

- uncompromisingly made of precision steel, robust and durable
- display carton with
- filler nipple
- three-way loading with professional filler pump FG plus, 400g/ 14oz grease cartridges or bulk grease
- capacity 500ccm/ 400g/ 14oz
- working pressure 400 bar/ 5.800 psi
- connecting thread M=M10x1, 1/8" BSP=G1/8", 1/8" NPT

**40 799** Professional lever grease gun „X-TRA 701“/M (DIN 1283)

**18,90**
**40 644** Professional lever grease gun „X-TRA 701“/BSP

**18,90**
**40 345** Professional lever grease gun „X-TRA 701“/NPT

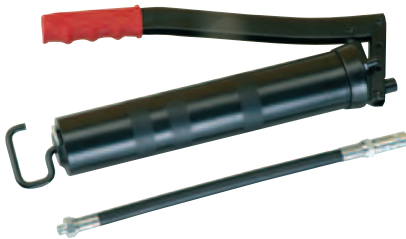
**18,90**

- with bent extension pipe 103, 150mm/ 6 inch, with 4-jaw Profi-nozzle

**40 821** Set „X-TRA 701“/M with 103/M (DIN 1283)

**21,20**
**40 837** Set „X-TRA 701“/BSP with 103/BSP

**21,20**
**40 430** Set „X-TRA 701“/NPT with 103/NPT

**21,10**
**40 808**


- with safety high-pressure rubber hose 110, 300mm/ 12 inch, with 4-jaw Profi-nozzle

**40 808** Set „X-TRA 701“/M with 110/M (DIN 1283)

**28,90**
**40 645** Set „X-TRA 701“/BSP with 110/BSP

**28,90**

- with high-pressure hose 910, 300mm/ 12 inch, with 4-jaw Profi-nozzle

**40 807** Set „X-TRA 701“/M with 910/M (DIN 1283)

**24,90**
**40 513** Set „X-TRA 701“/BSP with 910/BSP

**24,90**
**40 431** Set „X-TRA 701“/NPT with 910/NPT

**24,90**
**07 990**

**Professional lever grease gun box PHK**

- solid plastic box, with oil-proof insert
- content:
  - 1 professional lever grease gun „X-TRA 701“
  - 1 safety high-pressure rubber hose 2200 with 4-jaw Profi-nozzle and quick coupler
  - 1 extension pipe 103, bent, with 4-jaw Profi-nozzle
  - 1 extension pipe 2060 with cardan nozzle and quick coupler
  - 1 extension pipe 2070/M1 with hook-on coupler for button-head grease fittings M1 ø 16 mm and quick coupler
  - 1 all-purpose nozzle 36
  - 1 pointed nozzle 23
  - 1 reduction piece (only for PHK/1/8" NPT)

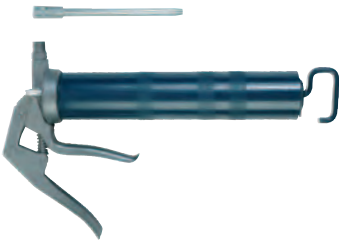
**07 990** Professional lever grease gun box PHK/M10x1

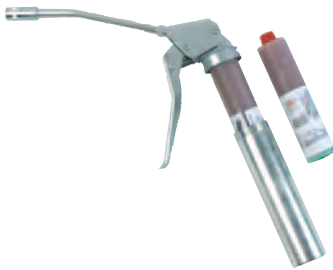
**86,50**
**40 044** Professional lever grease gun box PHK/1/8" BSP=G1/8"

**86,50**
**40 762** Professional lever grease gun box PHK/1/8" NPT

**86,50**

Professional lever grease gun „X-TRA 709“	€	40 614
<ul style="list-style-type: none"> <li>• display plastic bag (PE) with </li> <li>• two-way loading with 400g/ 14oz grease cartridges (DIN 1284) or bulk grease</li> <li>• capacity 500 ccm/ 400 g/ 14 oz</li> <li>• working pressure 400 bar/ 5.800 psi</li> <li>• connecting thread M=M10x1, 1/8" BSP=G1/8", 1/8" NPT on request</li> </ul>		
<p><b>40 633</b> Professional lever grease gun „X-TRA 709“/M (DIN 1283)</p>	14,50	
<p><b>40 693</b> Professional lever grease gun „X-TRA 709“/BSP</p>	14,50	
<ul style="list-style-type: none"> <li>• with bent extension pipe 103, 150mm/ 6 inch, with 4-jaw Profi-nozzle</li> </ul>		<p><b>40 666</b></p>
<p><b>40 614</b> Set „X-TRA 709“/M with 103/M (DIN 1283)</p>	17,30	
<p><b>40 692</b> Set „X-TRA 709“/BSP with 103/BSP</p>	17,30	
<ul style="list-style-type: none"> <li>• with high-pressure hose 910, 300mm/ 12 inch, with 4-jaw Profi-nozzle</li> </ul>		
<p><b>40 666</b> Set „X-TRA 709“/M with 910/M (DIN 1283)</p>	19,95	
<p><b>40 364</b> Set „X-TRA 709“/BSP with 910/BSP</p>	19,95	
<p><b>Professional lever grease gun „X-TRA“ for oils, soft greases and epoxy resins (concrete repair business)</b></p>		<p><b>40 804</b></p>
<ul style="list-style-type: none"> <li>• plain white carton</li> <li>• oil-proof air bleed valve and double seal</li> <li>• connecting thread M=M10x1, 1/8" BSP=G1/8", 1/8" NPT</li> </ul>		
<p><b>40 804</b> „X-TRA“/M for oils (DIN 1283)</p>	21,95	
<p><b>40 805</b> „X-TRA“/BSP for oils</p>	21,95	
<p><b>40 579</b> „X-TRA“/NPT for oils</p>	21,95	
<p><b>Professional lever grease gun „X-TRA 600“</b></p>		<p><b>40 806</b></p>
<ul style="list-style-type: none"> <li>• display plastic bag (PE) with </li> <li>• filler nipple</li> <li>• safety handle</li> <li>• three-way loading with filler pump FG, 400g/ 14oz and 500g/ 17,5oz grease cartridges (DIN 1284) or bulk grease</li> <li>• capacity 600ccm/ 500g/ 17,5oz</li> <li>• connecting thread M=M10x1</li> </ul>		
<p><b>40 806</b> Professional lever grease gun „X-TRA 600“/M</p>	24,20	
<p><b>Filler nipple for professional lever grease guns</b></p>		<p><b>65 001</b></p>
<ul style="list-style-type: none"> <li>• as spare part for „X-TRA 701“, „X-TRA 600“, „PEP 500“, „DFP 500“ and „DFP 1000“</li> <li>• thread M=M10x1</li> </ul>		
<p><b>65 001</b> Filler nipple 929/M with spring</p>	1,70	

**01 531**

**01 532**

**11 211**

**40 483**

**Professional one-hand grease guns**

€

- indispensable for difficult to reach greasing points

**Professional one-hand grease gun „PEP 500“**

- made of precision steel
- display plastic bag (PE) with
- filler nipple
- three-way loading with filler pump FG, 400g/ 14 oz cartridges (DIN 1284) or bulk grease
- capacity 500ccm/ 400g/ 14oz
- connecting thread 1/8" BSP=G1/8"

**01 531** „PEP 500“ D with extension pipe 103/BSP with 4-jaw Profi-nozzle

**25,50**
**01 532** „PEP 500“ G with safety high-pressure rubber hose 110/BSP with 4-jaw Profi-nozzle

**29,90**
**40 344** „PEP 500“ H with high-pressure hose 910/BSP with 4-jaw Profi-nozzle

**27,20**
**Professional one-hand grease gun „PEP 200“**

- plain white carton
- with screw-in cartridge filled with 100g/ 3,5oz lithium base multiple-purpose grease, consistency class NLGI 2, for a simple, quick and clean operation
- connecting thread M=M10x1

**11 211** „PEP 200“ D with extension pipe 103/M with 4-jaw Profi-nozzle and 2 screw-in cartridges PAT 100

**22,20**
**11 212** „PEP 200“ G with safety high-pressure rubber hose with 4-jaw Profi-nozzle and 2 screw-in cartridges PAT 100

**28,90**
**Professional one-hand grease gun „PEP 100“**

- plastic bag (PE)
- double-nozzle for hydraulic and cup-shaped grease fittings
- refilling with grease cartridge PAT 60 or bulk grease
- capacity 100ccm/ 3oz
- connecting thread M10x1

**40 483** „PEP 100“

**9,90**

## Professional push-type grease guns

- multifunctional
- ideal for tool boxes or kits
- one-hand operation
- with pointed nozzle for cup-shaped grease fittings
- with all-purpose nozzle for hydraulic and ball-head grease fittings

## Professional push-type grease guns made of plastic

- manufactured from high-quality plastic materials withstanding changes in temperature
- transparent, visual control of fill level
- suitable for high viscosity oils and greases of up to medium consistency (NLGI 2)
- capacity 60ccm/ 2oz
- refilling with grease cartridge PAT 60

### „Serie K“

- empty
- 40 557** K 60/Na with extra-pointed nozzle, e.g. for chain saws
- 40 558** K 60/3 with all-purpose nozzle
- prefilled with multiple-purpose grease
- 40 582** K 60/Na with extra-pointed nozzle, e.g. for chain saws, prefilled
- 40 583** K 60/3 with all-purpose nozzle, prefilled

### „Serie K“ - customized version

- stamping of grease gun body with your logo  
 Printing block: 240,-€ net per colour (one-time set up cost)  
 Artwork (film): 108,-€ net per colour (one-time set-up cost)  
 Printing cost per 1.000 units: 55,20€ net per colour  
 (purchase minimum: 2.500 units)
- packaging in slide-in blister (holding one grease gun)  
 Net price per 100 blister: 28,20€ (purchase minimum: 2.500 units)  
 Net price per 100 blister: 17,30€ (purchase minimum: 10.000 units)
- blistercard (6,5cm x 24,5cm)  
 Printing block: 240,-€ net per colour (one-time set up cost)  
 Artwork (film): 108,-€ net per colour (one-time set-up cost)  
 Printing cost per 1.000 units (incl. blistercard): 345,20€ net  
 (purchase minimum: 2.500 units)  
 Printing cost per 1.000 units (incl. blistercard): 102,90€ net  
 (purchase minimum: 10.000 units)

€

40 557 / 40 583

3,65  
3,75



4,90  
4,95



**Professional push-type grease guns made of steel**

€

- made of precision steel

**03 121 / 03 331**

**„Serie T“**

- suitable for greases of high consistency (NLGI 3)
- with telescopic piston tube
- capacity 100ccm/ 3oz and 180ccm/ 5oz

**03 121 T 100/2** with pointed nozzle

**11,25**
**03 131 T 100/3** with all-purpose nozzle

**12,20**
**03 321 T 180/2** with pointed nozzle

**13,50**
**03 331 T 180/3** with all-purpose nozzle

**14,10**
**04 121 / 04 131**

**„Serie F“**

- suitable for greases of medium consistency (NLGI 2) and high viscosity oils
- capacity 60ccm/ 2oz or 150ccm/ 4oz

**04 021 F 60/2** with pointed nozzle

**6,20**
**04 052 F 60/Na** with extra-pointed nozzle for chain saws

**6,30**
**04 031 F 60/3** with all-purpose nozzle

**6,30**
**04 121 F 150/2** with pointed nozzle

**10,50**
**04 131 F 150/3** with all-purpose nozzle

**10,70**
**05 121 / 05 131**




**„Serie FO“**

- especially suitable for low viscosity oils and aerosols
- capacity 180ccm/ 5oz

**05 121 FO 180/2** with pointed nozzle

**16,10**
**05 131 FO 180/3** with all-purpose nozzle

**16,50**

Nozzles for push-type grease guns		€
<p><b>07 011</b> 23/M 9x1 pointed nozzle</p> <p><b>07 041</b> 36/M 9x1 all-purpose nozzle</p>	<p>1,70</p> <p>2,00</p>	
Refill kits		
<ul style="list-style-type: none"> <li>• for the fast and clean refilling of professional push-type grease guns „F 60“, „K 60“ and professional one-hand grease guns „PEP 100“</li> <li>• capacity 60ccm/ 2oz</li> </ul>		
<p><b>04 085</b> Grease cartridge PAT 60 filled with lithium base multiple-purpose grease (NLGI 2)</p> <p><b>04 082</b> Grease pack GP 1 filled with lithium base multiple-purpose grease (NLGI 2)</p>	<p>2,45</p> <p>1,75</p>	<div style="background-color: #4a7ebb; color: white; padding: 2px; margin-bottom: 10px;">04 085 / 04 082</div> 
Professional bucket greaser HAG		
<ul style="list-style-type: none"> <li>• for manual lubrication directly from grease keg</li> <li>• suitable for greases up to consistency class NLGI 2</li> <li>• manual lever pump with G 2" bung adaptor</li> <li>• follower plate, dust cover with G 2" connection, 1,5m high-pressure rubber hose with extension pipe and 4-jaw Profi-nozzle</li> <li>• working pressure 350 bar/ 5.000 psi</li> <li>• output 2ccm/ 0,06oz per stroke</li> <li>• suction tube ø 32mm</li> </ul>		
<p><b>40 110</b> HAG 15 for 15 kg grease kegs, suction tube length 300mm, dust cover ø 310mm, follower plate ø 260 – 290mm</p> <p><b>40 111</b> HAG 20 for 20 kg grease kegs, suction tube length 360mm, dust cover ø 320mm, follower plate ø 260 – 306mm</p> <p><b>40 112</b> HAG 25 for 25 kg grease kegs, suction tube length 360mm, dust cover ø 342mm, follower plate ø 285 – 341mm</p> <p><b>40 126</b> HAG 50 for 50 kg grease kegs, suction tube length 660mm, dust cover ø 405mm, follower plate ø 360 – 405mm</p>	<p>139,50</p> <p>145,80</p> <p>145,80</p> <p>195,20</p>	<div style="background-color: #4a7ebb; color: white; padding: 2px; margin-bottom: 10px;">40 110</div> 

**150 000**

**Professional grease bucket pump BMP**

€

- heavy-duty manual grease pump for high output
- 3 alternative lever positions for different outputs:  
10g/ 0,35oz, 15g/ 0,53oz, 20g/ 0,70oz per stroke
- suitable for greases up to consistency class NGLI 2 and oils
- maximum pressure range between 175 bar/ 2.500 psi and 350 bar/ 5.000 psi depending on lever position
- including robust and stable steel container
- capacity 16kg/ 565oz
- with 1,5m high-pressure rubber hose with extension pipe and 4-jaw Profi-nozzle

**150 000 BMP 16**
**247,80**
**10 052**
**Professional high-pressure foot-operated grease compressors „Serie WH“**


- suitable for greases up to consistency class NLGI 3 and for oils (surcharge)
- grease pistol with swivel and hose adaptor
- safety high-pressure rubber hoses nom. diam. 6 are available in the standard lengths of 4m, 7m and 10m
- grease follows by means of an air pump (WH 5 LP) or compressed air (WH 5 DR)
- mobile
- capacity 6,5kg/ 230oz
- working pressure max. 400 bar/ 5.800 psi
- bursting pressure 1.600 bar/ 23.200 psi
- output 2ccm/ 0,06oz per stroke

	<b>11 374</b> 4 m	<b>11 376</b> 7 m	<b>11 377</b> 10 m
<b>with hose</b>			
<b>10 052 WH 5 LP</b>	1.100,00	1.162,60	1.214,35
<b>10 053 WH 5 DR</b>	1.070,00	1.132,60	1.184,35

**157 000**

**Professional high-pressure foot-operated grease pump FHP**

- 5 kg-container with pedal and carrying handle
- 2m high-pressure rubber hose with 4-jaw Profi-nozzle
- suitable for greases up to consistency class NLGI 2
- working pressure approx. 500 bar/ 7.250 psi
- output 2g/ 0,07oz per stroke

**157 000 FHP**
**275,00**

# Air-operated and battery-powered lubrication

„Time is money“: This insight is not really new, but nevertheless still relevant. As the machines e.g. in agriculture and construction business are growing bigger and becoming more and more expensive, maximizing the operation hours makes your investment pay off. Consequently you have to reduce the service time required to refuel, to change oil and to lubricate in order to increase the productivity of these machines.

This is where air-operated lubrication becomes an effective time and therefore cost saver, since you are able to lubricate a combined harvester or an excavator in less time compared to hand lubrication.

Besides this effect, pneumatically powered lubrication makes life a bit easier for the one who has to do the lubrication job.

This applies to battery-powered lubrication as well which, in addition, offers you cordless mobility.

**10 205**

**Professional air-operated grease guns „DFP“**

€

- practical one-hand operation
- controlled grease dispensing by single action – 1ccm/ 0,03oz per stroke at 400 bar/ 5.800 psi
- air pressure 2-6 bar/ 29-87 psi
- pressure ratio 1:60
- three-way loading with filler pump FG, 400g/ 14oz grease cartridges (DIN 1284) or bulk grease
- connecting thread 1/8" BSP=G1/8"

**„DFP 500“**

- display carton
- three-way loading with filler pump FG, 400g/ 14oz grease cartridges (DIN 1284) or bulk grease
- capacity 500ccm/ 400g/ 14oz

**10 205** „DFP 500“ D with extension pipe 103/BSP with 4-jaw Profi-nozzle

**96,30**
**10 206** „DFP 500“ G with safety high-pressure rubber hose 110/BSP with 4-jaw Profi-nozzle

**106,00**
**10 210**

**„DFP 1000“**

- display carton
- two-way loading with filler pump FG or bulk grease
- capacity 1.000ccm/ 30oz

**10 210** „DFP 1000“ D with extension pipe 103/BSP with 4-jaw Profi-nozzle

**147,70**
**10 211** „DFP 1000“ G with safety high-pressure rubber hose 110/BSP with 4-jaw Profi-nozzle

**156,30**
**41 005**

**Rechargeable grease gun „AFP 500“ €cono plus**

- with 2 powerful 18V rechargeable batteries 1.300 mAh
- express-recharger - 1h-battery-recharging
- with shoulder strap
- working pressure approx. 400 bar/ 5.800 psi
- maximum pressure 650 bar/ 9.500 psi, limited by security valve
- output approx. 100ccm/ 3oz per min against 0 bar
- capacity 500ccm/ 400g/ 14oz


**41 005** „AFP 500“ €cono plus with high-pressure hose with 4-jaw Profi-nozzle in solid carrying case

**189,50**
**01 901** Grease cartridge PAT 400

**3,80**
**82 008** Spare battery „AFP 500“ €cono plus

**45,80**

## Rechargeable grease gun „AFP 500“ Professional

€

81 602

- with 1 powerful 14,4V rechargeable battery 1.700 mAh
- express-recharger - 1h-battery-recharging
- two-speed output selector
- stroke cycle indicator pin
- motor overload protection
- working pressure approx. 480 bar/ 7.000 psi
- output approx. 240g/ 8oz per min at 69 bar/ 1.000 psi
- capacity 500ccm/ 400g/ 14oz

**81 602** „AFP 500“ Professional with high-pressure hose with 4-jaw Profi-nozzle in solid carrying case

479,50

**01 901** Grease cartridge PAT 400

3,80

**81 638** Battery „AFP 500“ Professional

165,00

**81 723** Battery charger „AFP 500“ Professional

131,70



## Professional air-operated high-pressure greasing units „Serie HDS“

- for the economic greasing required in private and public vehicle pools, large farms, industrial and construction plants, maritime service shops, mines and automotive workshops
- easy, clean, reliable and timesaving

### „Serie HDS“

- included: maintenance unit for less wear and long lasting
- presupply system for the safe delivery of long-time greases
- high output achieved by pressure ratio 1:55 and safety high-pressure rubber hoses with large inner diameter
- suitable for oils and greases up to consistency class NLGI 3 (multiple-purpose greases), also for biological greases
- follower plate, steel dust cover and high-pressure grease pistol with professional z-swivel with ball bearing, for easy use also under pressure
- safety high-pressure rubber hoses nom. diam. 6 are available in the standard lengths of 4m, 7m and 10m
- trolley (except HDS stationary)
- air pressure min. 2 bar/ 29 psi, max. 8 bar/ 116 psi
- working pressure max. 400 bar/ 5.800 psi
- capacity approx. 600ccm/ min with free discharge

Accessories and spare parts see page 31 - 34

10 325 / 11 374



**10 325 / 11 374**


	<b>11 374</b> 4 m €	<b>11 376</b> 7 m €	<b>11 377</b> 10 m €	<b>40 096</b> 4m + 10m with automatic hose reel €
<b>40 532</b> HDS 10 stationary	607,80	676,30	739,80	-
<b>10 310</b> HDS 10 mobile	719,00	787,50	851,00	-
<b>40 567</b> HDS 15 stationary	607,80	676,30	739,80	-
<b>10 315</b> HDS 15 mobile	719,00	787,50	851,00	-
<b>40 584</b> HDS 20 stationary	622,40	691,40	755,00	-
<b>10 320</b> HDS 20 mobile	734,00	802,60	866,10	-
<b>40 585</b> HDS 25 stationary	622,40	691,40	755,00	-
<b>10 325</b> HDS 25 mobile	734,00	802,60	866,10	-
<b>40 586</b> HDS 50 stationary	656,70	725,10	788,60	-
<b>10 350</b> HDS 50 mobile	767,90	836,30	899,80	-
<b>10 360</b> HDS 200 stationary	951,00	1.019,30	1.082,80	1.761,50
<b>10361</b> HDS 200 mobile	1.382,80	1.451,20	1.514,70	2.193,50

**10 625 / 10 650 / 80 123**

**Professional air-operated high-pressure greasing pumps „Serie HDS“**

€

**10 625** HDS 10-25 for 10kg to 25kg grease kegs,  
suction tube length 550mm

**309,80**
**10 650** HDS 50 for 50kg grease kegs,  
suction tube length 750mm

**347,40**
**80 123** HDS 200 for 185kg grease kegs,  
suction tube length 930mm

**366,20**

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## Filler pumps for lubricants – easy and clean

It is already „some long years“ ago that filling a lever-type grease gun with the Filler Pump FG was a little revolution and a major improvement. Or could you still imagine filling a grease gun today with a spoon, a piece of wood, a knife or with bare fingers? Hardly, we would assume.

You know by your own experience that filling a grease gun with the Filler Pump FG is always a clean, economic and fast job. Beyond that, you create less waste because you do not have to dispose empty grease cartridges.

There is of course a new generation of filler pumps available today, the Filler Pumps FG plus, fully adapted to your current professional requirements: better suction behaviour at cold temperatures, with biological lubricants or long time lubricants with adhesive additives and higher output per stroke for a faster filling of grease guns and so on.

However, it is not only grease guns you have to fill with lubricants. Another very important application is the clean filling of centralized lubrication systems of trucks, busses, agricultural and construction machines with grease free of air pockets.

This is the domain of our Filler Pumps FGZ plus.

Especially tuned to work also at cold temperatures they are not spoiling the mood of your employees by not delivering any more grease because the lever of the pump went bent.

If you operate a large number of trucks or busses or other vehicles it is of course more time-saving to use our air-operated Filler Pumps DPZ for refilling before you go back to the road again.

Please look for the details of our filler pumps on the following pages. If there remain any open questions, please let us know. It is our pleasure to talk to you.

**Professional filler pumps  
for centralized lubrication systems**

€

**09 847**

**Professional air-operated filler pumps DPZ-2  
for centralized lubrication systems**

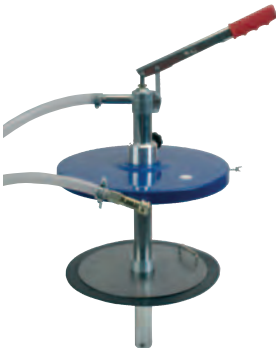
- included: maintenance unit for less wear and long lasting
- suitable for greases of consistency classes NLGI 0-3
- for all commercial grease kegs
- follower plate, dust cover, 2m grease hose nom. diam. 16, 3/4" BSP, ball valve and self-closing quick coupler
- output 700ccm/ min at 6 bar/ 87 psi
- middle-pressure pump with pressure ratio 1:10
- air pressure min. 2 bar/ 29 psi, max. 7 bar/ 100 psi
- suction tube diam. 38mm

- 09 847** DPZ - 2/25
- 09 848** DPZ - 2/50
- 09 849** DPZ - 2/200

536,00  
545,00  
790,00

- 09 844** DPZ - 2/25 with trolley
- 09 843** DPZ - 2/50 with trolley
- 09 850** DPZ - 2/200 with trolley

624,00  
633,00  
1.228,00

**08 725**

**Professional manual filler pumps „Serie FGZ plus“  
for centralized lubrication systems**

- works also at temperatures as low as -20°C/ -4°F
- extremely high suction capacity due to an especially adjusted lift of stroke and increased suction and valve openings
- robust and wear resisting by reinforced steel lever
- only low operating force (11-16 kp) required
- suitable for all greases up to consistency class NLGI 2 (also soft greases)
- for all commercial grease kegs
- follower plate, dust cover, 2m polyamide grease hose nom. diam. 16, nylon reinforced, self-closing quick coupler
- output approx. 30ccm/ 1oz per stroke
- suction tube diam. 40mm

- 08 705** FGZ plus 5
- 08 710** FGZ plus 10
- 08 715** FGZ plus 15/ 18
- 08 720** FGZ plus 20
- 08 725** FGZ plus 25
- 08 750** FGZ plus 50

135,80  
165,50  
165,50  
178,70  
178,70  
202,00

- with trolley

- 40 444** FGZ plus 10 mobile
- 40 445** FGZ plus 15/ 18 mobile
- 40 446** FGZ plus 20 mobile
- 40 447** FGZ plus 25 mobile
- 40 448** FGZ plus 50 mobile

259,90  
259,50  
278,60  
278,60  
289,70

**40 445**


## Filler pump FGZ Combi plus for grease AND centralized lubrication systems

- see description for FGZ plus on page 22
- follower plate, dust cover and combi connector with ball valve, 2m polyamide grease hose nom. diam. 16, nylon reinforced, self-closing quick coupler

**08 761** FGZ Combi plus 25

**08 765** FGZ Combi plus 50

- with trolley

**40 449** FGZ Combi plus 25 mobile

**40 450** FGZ Combi plus 50 mobile

**40 005** Retrofit kit for converting FGZ into FGZ Combi plus, consisting of T-piece with filler plug and ball valve

## Accessories for FGZ plus, FGZ Combi plus and DPZ

- for refilling of grease containers of centralized lubrication systems

**40 098** Filling tube with coupler plug for FGZ/DPZ

- as complement for centralized lubrication systems

**80 333** Coupler plug for 1/4" BSP=G1/4" (f)

**80 185** Double nipple 1/4" BSP=G1/4"

- as alternative hose for higher flow rate

**40 258** FGZ 2m polyamide hose nom. diam. 16, nylon reinforced, with FPZ connector and protection cap

## Filler gun FPZ for centralized lubrication systems

- for quick and clean „off-site“ filling of centralized lubrication systems for trucks, construction and agricultural machinery
- suitable for standard 500ccm/ 400g grease cartridges (DIN 1284)
- with protection cap
- made of zinc-plated precision steel, robust and durable
- with special rubber packing for 500ccm/ 400g grease cartridges
- extra-large piston knob for safe handling

**40 534** Filler gun FPZ 500

## Accessories for filler gun FPZ

**80 222** Filler adaptor M20x1,5

**80 223** Filler adaptor M22x1,5

**40 258** FGZ 2m polyamide hose nom. diam. 16, nylon reinforced, with FPZ connector

€

245,00

259,00

319,00

335,00

28,50

28,50

13,50

4,00

37,30

24,90

8,10

8,90

37,30

08 761



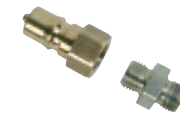
40 005



40 098



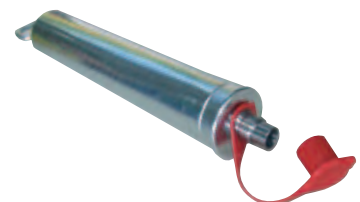
81 333 / 80 185



40 258



40 534



80 222 / 80 223



**08 251**

**Professional manual filler pumps „Serie FG plus“ for grease guns**

€

- improved suction capacity by a longer lift of stroke and increased suction and valve openings
- solid and wear resisting by reinforced steel lever
- clean, economic, air-free refilling
- complete emptying of grease keg due to special follower plate
- with dust cover and filler tube for European standard grease guns
- suction tube diam. 40mm
- for all commercial grease kegs
- suitable for greases up to consistency class NLGI 2 (also soft greases, biological lubricants and long-time greases with adhesive properties)
- output approx. 50ccm/ stroke

**40 390**


<b>08 053</b> FG plus 5	<b>88,70</b>
<b>08 101</b> FG plus 10	<b>99,50</b>
<b>08 151</b> FG plus 15/ 18	<b>99,50</b>
<b>08 201</b> FG plus 20	<b>106,70</b>
<b>08 251</b> FG plus 25	<b>106,70</b>
<b>08 501</b> FG plus 50	<b>137,90</b>
• with trolley	
<b>40 387</b> FG plus 10 mobile	<b>196,80</b>
<b>40 388</b> FG plus 15/ 18 mobile	<b>196,80</b>
<b>40 389</b> FG plus 20 mobile	<b>205,50</b>
<b>40 390</b> FG plus 25 mobile	<b>205,50</b>
<b>40 392</b> FG plus 50 mobile	<b>225,70</b>

**40 548**

**Filler tube adaptor for American standard grease guns**

- makes your filler pump not only compatible to European standard grease guns, but also to American standard grease guns
- safely stored in rubber cap when not in use

<b>40 548</b> Filler tube adaptor with chain and protection cap for American standard grease guns	<b>6,80</b>
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**11 101**

**Filling plate**

- for professional push-type grease guns and professional one-hand grease guns „PEP 100“

<b>11 101</b> Filling plate 150	<b>20,60</b>
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**40 542**

**Filling adaptor for grease cartridges to screw in**

- helps avoiding waste due to refilling
- fast, clean, without air pockets
- cost-saving
- easy handling

<b>40 542</b> Filling adaptor FG/ PAT (patented)	<b>9,90</b>
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## The accessories – never say die!

If you think of all the different accessories like flexible hoses, extension pipes, nozzles for different types of grease fittings, quick couplers, adaptors and so on, it really could drive you crazy even if you are from the business when you want to find the appropriate solution for your individual lubrication problem. However, do not worry: We suggest you a very concise range of accessories certainly covering most of the applications you could be faced with in practice. If you have some new ideas which could contribute to make lubrication easier, please be so kind and let us know. It would of course be our pleasure to learn from you.

### **Hydraulic nozzles**

Besides the nozzles you require for button head and cup-shaped grease fittings the most important ones are of course the hydraulic nozzles for the standard grease fittings.

They are a real challenge. Many of us could make their very own comments on this subject, we would guess: nozzles which jump of the head of the grease fitting when being under pressure, nozzles which only last for a few applications before they start to leak, nozzles where the single jaws form a triangle or a square which will never be able to guarantee a safe and leak-proof grip on the grease fitting.




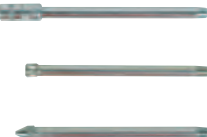
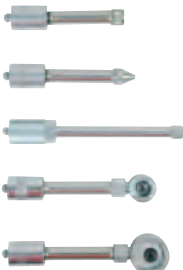
Look at our professional 4-jaw hydraulic nozzle, or even better, disassemble them to see the difference. Inside you will find a strong spring exercising enough pressure on the plastic plug made of a hard wearing material. Both parts ensure that even after many uses you still have a leak-proof sealing with the head of the grease fitting. Or else take the case-hardened 4 jaws turned in one piece out of very elastic steel forming a nice round shape to guarantee the tight grip on the head of the grease fitting. These parts and the way they are assembled make the difference. All the inner components are well packed in the lower part and the extra hardened upper part of the nozzle. Hardening keeps the upper part from bursting when the nozzle is under heavy pressure.

### **Safety high-pressure hoses**

Safety for the user is of course crucial when you operate with pressures of 300 to 400 bar (4.350 to 5.800 psi) and more. Our safety rubber and polyethylene hoses correspond to DIN 1283 (M10 x 1) and show the required safety data on the hose. The safety rubber high-pressure hoses have a bursting pressure of 1.600 bar/ 22.860 psi and the high-pressure hoses made of plastic of 1.000 bar/ 14.500 psi. Both assure the proper security for the user.

### **Snap-on extensions and safety hoses**

Equipped with a locking sleeve rigid extensions or high-pressure safety hoses with different nozzles like hook-on couplers are easily snapped on the 4-jaw hydraulic coupler of a rigid extension. This is indeed very handy because you do not have to mess around with different grease guns for different applications. It is simply professional.

Accessories for professional lever grease guns		€
04 085		
<b>Grease cartridges</b>		
<b>60g/ 2,1oz grease cartridge</b>		
<ul style="list-style-type: none"> <li>filled with lithium base multi-purpose grease, consistency class NLGI 2</li> <li>for quick and clean filling of professional push-type grease guns „F60“, „K60“ and professional one-hand grease guns „PEP 100“</li> </ul>		
<b>04 085</b> Grease cartridge PAT 60		
<b>100g/ 3,5oz screw-in cartridge</b>		
<ul style="list-style-type: none"> <li>filled with lithium base grease, consistency class NLGI 2</li> <li>for quick and clean filling of professional one-hand grease guns „PEP 200“</li> </ul>		
<b>40 424</b> Grease cartridge PAT 100		
<b>40 357</b> Refill set with 4 units of PAT 100		
<b>400g/ 14oz standard grease cartridge (DIN 1284)</b>		
<ul style="list-style-type: none"> <li>filled with lithium base multi-purpose grease, consistency class NLGI 2</li> <li>suitable for professional lever grease guns „X-TRA 701“, „X-TRA 600“, „X-TRA 709“ and „Variomatic“ special, professional one-hand grease guns „PEP 500“ and pneumatic grease guns „DFP 500“</li> </ul>		
<b>01 901</b> Grease cartridge PAT 400		
<b>81 908</b> Grease cartridge PAT 400 EP2		
<b>81 908 / 01 901</b>		
		
<b>Extension pipes with nozzle</b>		
<ul style="list-style-type: none"> <li>bent, 150 mm/ 6 inch</li> </ul>		
<b>02 007</b> 103/M with 4-jaw Profi-nozzle (tested by DLG)		
<b>02 037</b> 103/BSP with 4-jaw Profi-nozzle		
<b>02 004</b> 102/M with pointed nozzle		
<b>02 034</b> 102/BSP with pointed nozzle		
<b>02 002</b> 101/M with all-purpose nozzle		
<b>02 032</b> 101/BSP with all-purpose nozzle		
<b>02 007 / 02 002 / 02 004</b>		
		
<ul style="list-style-type: none"> <li>straight, 150 mm/ 6 inch</li> </ul>		
<b>02 014</b> 103/M with 4-jaw Profi-nozzle (tested by DLG)		
<b>02 042</b> 103/BSP with 4-jaw Profi-nozzle		
<b>02 006</b> 102/M with pointed nozzle		
<b>02 036</b> 102/BSP with pointed nozzle		
<b>02 003</b> 101/M with all-purpose nozzle		
<b>02 033</b> 101/BSP with all-purpose nozzle		
<b>02 014 / 02 003 / 02 006</b>		
		
<b>Extension pipes with nozzle and quick coupler</b>		
<ul style="list-style-type: none"> <li>fast change of accessory</li> <li>no unscrewing required</li> </ul>		
<b>11 501</b> 2010 with all-purpose nozzle		
<b>11 502</b> 2020 with pointed nozzle		
<b>11 503</b> 2060 with cardan and propeller shaft nozzle		
<b>11 504</b> 2070/M 1 with hook-on coupler for standard button-head grease fittings ø 16 mm		
<b>11 505</b> 2070/M 22 with hook-on coupler for giant button-head grease fittings ø 22 mm		
<b>11 501 / 11 502 / 11 503 / 11 504 / 11 505</b>		
		

## Extension pipes without nozzle

€

- straight, 150 mm/ 6 inch

**40 001** 150/M

**40 002** 150/BSP

0,75

0,75

## Safety high-pressure rubber hoses with nozzle

- high operational safety, bursting pressure 1.600 bar/ 23.200 psi
- double-ply wire braid hose with identification
- safety tested according to DIN 1283 (M10x1)
- diameter 13,0 mm, very flexible

### • 300 mm/ 12 inch

**02 501** 110/M with 4-jaw Profi-nozzle (tested by DLG)

**02 531** 110/BSP with 4-jaw Profi-nozzle

**40 734** 110/NPT with 4-jaw Profi-nozzle

10,10

10,10

10,10

**40 347** 114/M with hook-on coupler M 4

for button-head grease fittings ø 10 mm

**40 440** 114/BSP with hook-on coupler M 4

for button-head grease fittings ø 10 mm

14,40

14,40

**02 506** 112/M with hook-on coupler M 1

for button-head grease fittings ø 16 mm

**02 536** 112/BSP with hook-on coupler M 1

for button-head grease fittings ø 16 mm

**02 508** 1120/M with hook-on coupler M 22

for button-head grease fittings ø 22 mm

**02 538** 1120/BSP with hook-on coupler M 22

for button-head grease fittings ø 22 mm

10,90

10,90

15,50

15,50

### • 500 mm/ 20 inch

**02 503** 111/M with 4-jaw Profi-nozzle

**02 533** 111/BSP with 4-jaw Profi-nozzle

**40 754** 111/NPT with 4-jaw Profi-nozzle

13,40

13,40

13,40

**40 441** 115/M with hook-on coupler M 4

for button-head grease fittings ø 10 mm

**40 442** 115/BSP with hook-on coupler M 4

for button-head grease fittings ø 10 mm

16,80

16,80

**02 510** 113/M with hook-on coupler M 1

for button-head grease fittings ø 16 mm

**02 540** 113/BSP with hook-on coupler M 1

for button-head grease fittings ø 16 mm

**02 512** 1130/M with hook-on coupler M 22

for button-head grease fittings ø 22 mm

**02 542** 1130/BSP with hook-on coupler M 22

for button-head grease fittings ø 22 mm

21,40

21,40

22,60

22,60

### • 1000 mm/ 39 inch

**02 505** 1110/M with 4-jaw Profi-nozzle

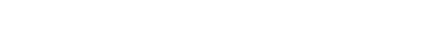
**40 318** 1110/BSP with 4-jaw Profi-nozzle

20,40

20,40

**02 501 / 40 347 /**

**02 506 / 02 508**



**02 601 / 02 607**
**Safety high-pressure rubber hoses without nozzle**

€

- high operational safety, bursting pressure 1.600 bar/ 23.200 psi
- double-ply wire braid hose with identification
- safety tested according to DIN 1283 (M10x1)
- diameter 13,0 mm, very flexible

- 300 mm/ 12 inch
- 02 601** PZ 300/M
- 02 631** PZ 300/BSP
- 81 605** PZ 300/NPT

 6,50  
6,50  
6,50

- 500 mm/ 20 inch
- 02 607** PZ 500/M
- 02 637** PZ 500/BSP
- 81 606** PZ 500/NPT

 10,20  
10,20  
10,20

- 1000 mm/ 39 inch
- 80 487** PZ 1000/M
- 80 488** PZ 1000/BSP

 16,90  
16,90

**02 423 / 02 425**
**Snap-on safety high-pressure rubber hoses with nozzle**

- fast change of accessory
- no unscrewing required
- high operational safety, bursting pressure 1.600 bar/ 23.200 psi
- double-ply wire braid rubber hose
- diameter 13,0 mm, very flexible

- 300 mm/ 12 inch
- 02 423** 2200 with 4-jaw Profi-nozzle
- 02 425** 2210/M 1 with hook-on coupler M 1  
for standard button-head grease fittings ø 16 mm
- 02 426** 2210/M 22 with hook-on coupler M 22  
for giant button-head grease fittings ø 22 mm

 13,50  
23,50  
26,70

**02 701 / 02 703**
**High-pressure hoses with nozzle**

- bursting pressure 1.000 bar/ 14.500 psi
- double-ply textile braid polyethylene hose
- identification according to DIN 1283 (M10x1)
- diameter 10,0 mm

- 300 mm/ 12 inch
- 02 701** 910/M with 4-jaw Profi-nozzle
- 02 731** 910/BSP with 4-jaw Profi-nozzle
- 40 628** 910/NPT with 4-jaw Profi-nozzle

 6,45  
6,45  
6,45

- 500 mm/ 20 inch
- 02 703** 911/M with 4-jaw Profi-nozzle
- 02 733** 911/BSP with 4-jaw Profi-nozzle

 7,95  
7,95

High-pressure hoses without nozzle	€	02 802 / 02 803
<ul style="list-style-type: none"> <li>• bursting pressure 1.000 bar/ 14.500 psi</li> <li>• double-ply textile braid polyethylene hose</li> <li>• identification according to DIN 1283 (M10x1)</li> <li>• diameter 10,0 mm</li> </ul> <ul style="list-style-type: none"> <li>• 300 mm/ 12 inch</li> <li><b>02 802</b> KS 300/M</li> <li><b>02 831</b> KS 300/BSP</li> <li><b>81 397</b> KS 300/NPT</li> </ul> <ul style="list-style-type: none"> <li>• 500 mm/ 20 inch</li> <li><b>02 803</b> KS 500/M</li> <li><b>02 833</b> KS 500/BSP</li> </ul>	<p>3,10</p> <p>3,10</p> <p>3,10</p> <p>4,60</p> <p>4,60</p>	
High-pressure hoses without nozzle <b>€cono plus</b>		<b>81 944</b>
<ul style="list-style-type: none"> <li>• bursting pressure 1.000 bar/ 14.500 psi</li> <li>• single-ply textile braid polyethylene hose</li> <li>• identification according to DIN 1283 (M10x1)</li> <li>• diameter 9,0 mm</li> </ul> <ul style="list-style-type: none"> <li>• 300 mm/ 12 inch</li> <li><b>81 944</b> KS 300/M <b>€cono plus</b></li> <li><b>81 943</b> KS 300/BSP <b>€cono plus</b></li> <li><b>81 220</b> KS 300/NPT <b>€cono plus</b></li> </ul>	<p>2,60</p> <p>2,60</p> <p>2,60</p>	
Swivel fitting		<b>02 640</b>
<ul style="list-style-type: none"> <li>• for safety high-pressure rubber hoses and high-pressure hoses</li> <li>• turning around longitudinal axle</li> </ul> <p><b>02 640</b> 640/M</p> <p><b>02 641</b> 640/BSP</p>	<p>4,60</p> <p>4,60</p>	
4-jaw Profi-nozzles		<b>07 122</b>
<ul style="list-style-type: none"> <li>• for lubricating hydraulic (DIN 71412) grease fittings</li> <li>• 4 jaws turned out of a single piece of highly elastic quality steel forming a circle to ensure precise coupling and consistent jaw alignment with every use</li> <li>• durable elastic interior plug and high-performance spring for leak-proof operation</li> <li>• case-hardened steel jaws and upper part of coupler for less wear and more durability</li> <li>• working pressure 400 bar/ 5.800 psi</li> <li>• bursting pressure 1.600 bar/ 23.200 psi</li> </ul> <p><b>07 122</b> 120/M 4-jaw Profi-nozzle</p> <p><b>07 123</b> 120/BSP 4-jaw Profi-nozzle</p> <p><b>07 124</b> 120/NPT 4-jaw Profi-nozzle</p> <p><b>07 131</b> Angled nozzle 90°/M</p> <p><b>40 459</b> Angled nozzle 90°/BSP</p>	<p>3,50</p> <p>3,50</p> <p>3,50</p> <p>4,90</p> <p>4,90</p>	

**4-jaw Profi-nozzles with check valve**

€

- for lubricating hydraulic (DIN 71412) grease fittings
- spring-loaded check valve
- avoid flowing-back of grease

<b>81 486</b> 120/M with ball check valve	<b>3,70</b>
<b>81 485</b> 120/BSP with ball check valve	<b>3,70</b>
<b>121 020</b> 120/NPT with ball check valve	<b>3,70</b>
<b>81 835</b> 120/BSP with metal sealer plate check valve	<b>3,70</b>
<b>81 836</b> 120/NPT with metal sealer plate check valve	<b>3,70</b>

**07 422**

**Other nozzles**

<b>07 422</b> 12/M hook-on coupler for button-head grease fittings M4, ø 10 mm	<b>4,10</b>
<b>07 423</b> 12/BSP hook-on coupler for button-head grease fittings M4, ø 10 mm	<b>4,10</b>
<b>07 402</b> 121/M hook-on coupler for standard button-head grease fittings M1, ø 16 mm	<b>4,60</b>
<b>07 403</b> 121/BSP hook-on coupler for standard button-head grease fittings M1, ø 16 mm	<b>4,60</b>
<b>07 412</b> 1210/M hook-on coupler for giant button-head grease fittings M22, ø 22 mm	<b>7,90</b>
<b>80 644</b> 1210/BSP hook-on coupler for giant button-head grease fittings M22, ø 22 mm	<b>7,90</b>

**07 012 / 07 042**


<b>07 012</b> 23/M pointed nozzle	<b>1,70</b>
<b>07 013</b> 23/BSP pointed nozzle	<b>1,70</b>
<b>07 042</b> 36/M all-purpose nozzle	<b>2,00</b>
<b>07 043</b> 36/BSP all-purpose nozzle	<b>2,00</b>

**07 991**
**Professional snap-on kit SWS**

- in solid plastic box with oil-proof insert
- content:
  - 1 extension pipe 103/M, straight, with 4-jaw Profi-nozzle
  - 2 4-jaw Profi-nozzles 120/M
  - 1 snap-on high-pressure rubber hose 2200
  - 1 snap-on extension pipe with hook-on coupler 2070/M 1
  - 1 snap-on extension pipe with double nozzle
  - 1 adaptor with 1/8" BSP (f) and M10x1 (m) thread

<b>07 991</b> SWS	<b>65,70</b>
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## Accessories for filler pumps and for manual, foot- or air-operated greasing units

### Trolleys

- 431 001** Trolley for 10-50kg kegs with 2 wheels
- 80 082** Trolley for 10-50kg kegs with 2 wheels and adjustable pump holder
- 431 000** Trolley for 10-50kg kegs with 4 wheels
- 432 814** Trolley for 185kg/ 200l kegs

### Safety greasing hoses for HDS, WH 5 S and WH

- bursting pressure 1.600 bar/ 23.200 psi
- working pressure 400 bar/ 5.800 psi
- increased inside diameter, nom. diam. 6
- connecting thread to pistol and pump 1/4" BSP=G1/4" (f)

- 11 374** HDS 570 4m
- 11 376** HDS 570 7m
- 11 377** HDS 570 10m

#### For WH-units please order hose adaptor:

- thread 1/4" BSP=G1/4" (f)/ M16x1,25 (f)

- 40 008** Hose adaptor WH

### Automatic hose reels for grease

#### With 10m delivery hose - open version

- professional double arm automatic hose reel
- solid steel construction
- forged brass shaft for corrosion-free and leak-proof operation even at high pressure
- special steel spring for trouble-free hose recoiling and long-life operation
- positionable arms for best operation in any mounting position: wall, ceiling, floor or trolley
- 10m double-ply wire braid greasing hose nom. diam. 1/4" BSP=G1/4" and connecting hose

- 501 300** Automatic hose reel with 10m delivery hose - open

#### With 15m delivery hose - open version

- description as above
- heavy-duty version with 15m double-ply wire braid delivery hose nom. diam. 1/4" BSP=G1/4" or 3/8" BSP=G3/8" and connecting hose

- 504 300** Automatic hose reel with 15m delivery hose - open, nom. diam. 1/4" BSP=G1/4"

- 504 301** Automatic hose reel with 15m delivery hose - open, nom. diam. 3/8" BSP=G3/8"

€

79,00  
109,00  
85,00  
315,00

55,20  
117,80  
169,55

7,60

398,00

537,00

549,00

431 000 / 80 082



11 377



501 300



**502 300**

**With 8m or 13m delivery hose - compact version**

- professional automatic hose reel, cased, made of corrosion-proof, die-cast aluminium
- solid construction resisting case distortion in case of lateral pulling of hose
- forged brass shaft for corrosion-free and leak-proof operation even at high pressure
- special steel spring for trouble-free hose recoiling and long-life operation
- positionable mounting brackets for best operation in any mounting position: wall, ceiling, floor or trolley
- 8m or 13m double-ply wire braid delivery hose nom. diam. 1/4" BSP=G1/4" and connecting hose

**502 300** Automatic hose reel with 8m delivery hose - cased

**502 301** Automatic hose reel with 13m delivery hose - cased

€

**477,80**
**553,30**
**40 373**

**Professional greasing pistol for HDS, WH 5 S, WH**

- connecting thread 1/4" BSP=G1/4" (m)

**11 304** Professional greasing pistol with extension pipe 103/M

**40 373** Professional greasing pistol with extension pipe 103/M and professional z-swivel

**43,30**
**69,80**
**414 300**

**Professional z-swivel for greasing pistols**

- connecting thread 1/4" BSP=G1/4" (m)
- with ball bearing for smooth operation also under pressure

**414 300 400** Professional z-swivel

**24,50**
**02 007**

**Extension pipes and hoses with nozzle for HDS, WH 5 S, WH**




- connecting thread M10x1

**02 007** 103/M Extension pipe with 4-jaw Profi-nozzle

**02 701** 910/M High-pressure hose with 4-jaw Profi-nozzle

**02 501** 110/M Safety high-pressure rubber hose with 4-jaw Profi-nozzle

**3,95**
**6,45**
**10,10**

<b>Electronic grease flow meter</b>		€	<b>411 100</b>
<ul style="list-style-type: none"> <li>• exact control of dispensed grease in g</li> <li>• resettable LCD display, 4 digits up to 9999g</li> <li>• display for total delivery in kg up to 999999kg for long term control of grease consumption</li> <li>• working pressure 500 bar/ 7.250 psi</li> <li>• bursting pressure 1.000 bar/ 14.500 psi</li> <li>• maximum output up to 2kg/ 70oz per min</li> <li>• measuring accuracy +/- 3%</li> <li>• easy on-site recalibration</li> <li>• connecting thread 1/8" BSP=G1/8" (f/f)</li> <li>• runs with two standard batteries</li> </ul>			
<b>411 100</b>	Electronic grease flow meter for assembly G1/8" (f/f)	<b>219,50</b>	
<b>40 783</b>	Electronic grease flow meter with extension pipe and 4-jaw Profi-nozzle 103/BSP and with full swivel	<b>293,70</b>	
<b>40 248</b>	Electronic grease flow meter with safety high-pressure rubber hose and 4-jaw Profi-nozzle 110/BSP and with full swivel	<b>299,50</b>	
<b>Follower plates FD</b>			<b>80 007</b>
Suitable for following grease keg inside diameters:			
<b>80 003</b>	FD 5            ∅ 171 mm-200 mm	<b>14,70</b>	
<b>80 004</b>	FD 10           ∅ 215 mm-230 mm	<b>24,60</b>	
<b>80 005</b>	FD 15 SP-1    ∅ 230 mm-260 mm special size	<b>24,90</b>	
<b>80 006</b>	FD 15           ∅ 255 mm-282 mm	<b>24,90</b>	
<b>80 007</b>	FD 20 SP-1    ∅ 275 mm-300 mm special size	<b>25,60</b>	
<b>80 010</b>	FD 20 - 25    ∅ 300 mm-335 mm	<b>34,70</b>	
<b>80 011</b>	FD 50 SP-1    ∅ 315 mm-346 mm special size	<b>39,20</b>	
<b>80 013</b>	FD 50           ∅ 355 mm-387 mm	<b>49,30</b>	
<b>80 014</b>	FD 50 SP-3    ∅ 385 mm-410 mm special size	<b>52,40</b>	
<b>80 015</b>	FD 200         ∅ 560 mm-580 mm	<b>107,90</b>	
<b>Follower plate adaptor</b>			<b>40 397</b>
<b>40 396</b>	FD-A 28        ∅ 28 mm suction tube diameter	<b>8,90</b>	
<b>40 397</b>	FD-A 30        ∅ 30 mm suction tube diameter	<b>8,90</b>	
<b>40 398</b>	FD-A 32        ∅ 32 mm suction tube diameter	<b>8,90</b>	
<b>40 399</b>	FD-A 35        ∅ 35 mm suction tube diameter	<b>8,90</b>	

**Dust covers SD for filler pumps, manual and air-operated greasing units**

€



Suitable for following grease keg outside diameters:

<b>40 916</b> SD 5	ø 160 mm-212 mm
<b>40 917</b> SD 10-20	ø 240 mm-300 mm
<b>40 918</b> SD 25	ø 312 mm-342 mm
<b>40 919</b> SD 50	ø 365 mm-415 mm
<b>40 920</b> SD 200	ø 570 mm-625 mm

<b>22,50</b>
<b>26,20</b>
<b>28,80</b>
<b>34,30</b>
<b>105,60</b>

**Dust covers SDF for filler pumps and air-operated greasing units with trolley**


Suitable for following grease keg outside diameters:

<b>80 017</b> SDF 10-20	ø 240 mm-287 mm
<b>80 018</b> SDF 25	ø 312 mm-342 mm
<b>80 019</b> SDF 50	ø 365 mm-415 mm
<b>80 020</b> SDF 200	ø 570 mm-625 mm

<b>15,40</b>
<b>21,80</b>
<b>28,90</b>
<b>99,60</b>

**40 596**
**Maintenance unit for HDS, DPZ-2**


- protects against wearing
- consisting of water separator, pressure reducer and oiler

**80 027** Maintenance unit

**59,30**



## Grease fittings – small but powerful

They are still the „eye of a needle“ through which the grease has to pass in most cases when you want to lubricate. The good old grease fittings have not lost their key function over all the years and it appears they will not in the near future.

**So what is it exactly this little tiny thing has to have in order to meet real-life lubrication requirements?**

### **Precision machining**

They need a very precise thread so you can screw them easily e.g. into the housing of a bearing where they should enter into a permanent and leak-proof connection. This is where precision machining is demanded to get the threads right.

This tight connection is indeed very important because you easily reach pressures of 300 to 400 bar/ 4.350 to 5.800 psi and more when lubricating.

### **Hardening**

Sturdiness is especially asked for the head of the grease fittings because that is the place where the four jaws of our professional couplers must get a safe grip for a solid non-leaking connection when grease is pressed through the grease fittings.

In order to be able to meet this challenge of a good durability, our grease fittings are hardened in a technically highly complex process.

### **Leak proofness**

And most importantly you do not want the grease to flow back through the grease fittings once you have finished the lubrication job.

What does this mean for the „inner life“ of our grease fittings?

The inner drilling, the seat of the ball, the ball, the spring, the pressure of the spring have to be well tuned and in perfect harmony to reach the leak proofness you are looking for.

### **Surface treatment**

Beyond that the grease fittings have to be all-weather proof and good looking. That is why we „bath“ our grease fittings in environmentally friendly Chromate III and apply a sealant for post-treatment.

### **The decision is yours**

Well, as you can see our little friends are really „small but powerful“ if they are properly manufactured. And this is where the „wheat separates from the chaff“: So when you make your purchase decision, please be sure to select a quality supplier!

On the following pages you will find a large variety of grease fittings with different standards, different threads, different shapes, made of precision steel, stainless steel, acid-proof steel or of brass.

We invite you, though, to have a look yourself. Shouldn't you find the grease fitting of your choice, please let us know. We also manufacture custom-made grease fittings on request.

**The grease fitting is not everything, but without him almost everything is nothing in lubrication.**

**Professional hydraulic grease fittings „Serie H“**

€/1.000 pcs.

- reliability and precision for original equipment manufacturers and after-sales market
- manufactured of precision steel, case-hardened, zinc plated and passivated

**Drive-fit manufactured according to DIN 71412**
**Straight 180° - type A**

80 690 H1 a ø 5 mm	246,50
12 106 H1 a ø 6 mm	135,20
12 108 H1 a ø 8 mm	165,50
12 110 H1 a ø 10 mm	267,80
12 118 H1 a ø 1/4"	135,20

**Angled 45° - type B**

12 206 H2 a ø 6 mm	359,70
81 027 H2 a ø 8 mm	359,70
12 208 H2 a ø 8 mm square body	359,70
81 028 H2 a ø 10 mm	570,50

**Angled 90° - type C**

12 306 H3 a ø 6 mm square body	418,90
81 061 H3 a ø 8 mm	418,90
12 308 H3 a ø 8 mm square body	418,90
81 019 H3 a ø 10 mm	519,30

**Metric standard manufactured according to DIN 71412**
**Straight 180° - type A**

12 119 H1 M5 x 0,8	101,50
80 909 H1 M6 x 0,75	101,50
81 118 H1 M6 x 0,75 cylindrical thread	101,50
12 112 H1 M6 x 1	101,50
81 677 H1 M6 x 1 yellow chromated	101,50
80 681 H1 M6 x 1 cylindrical thread	101,50
12 115 H1 M6 x 1 cylindrical thread, thread length 8mm	110,70
12 113 H1 M6 x 1 thread length 3,5mm	128,30
81 656 H1 M6 x 1 thread length 4mm	128,30
81 794 H1 M6 x 1 thread length 5mm, hexagon 11	222,40
12 114 H1 M6 x 1 o/a length 23mm	129,20
81 008 H1 M6 x 1 o/a length 28mm	149,90
81 004 H1 M6 x 1 low opening pressure	110,70
81 731 H1 M6 x 1 hexagon 9	168,90
81 015 H1 M7 x 1	109,00
81 097 H1 M8 x 0,75	224,80
12 131 H1 M8 x 1	124,60
81 854 H1 M8 x 1 yellow chromated	124,60
12 132 H1 M8 x 1 thread length 4mm	124,60
12 133 H1 M8 x 1,25	124,60
81 855 H1 M8 x 1,25 yellow chromated	124,60
12 151 H1 M10 x 1	152,00
81 197 H1 M10 x 1,25	152,00
12 152 H1 M10 x 1,5	152,00

**12 106**

**12 208**

**12 308**

**12 151**






€/1.000 pcs.

	<b>81 272</b> H1 M12 x 1	<b>463,20</b>
	<b>80 634</b> H1 M12 x 1,25	<b>500,70</b>
	<b>12 172</b> H1 M12 x 1,5	<b>500,70</b>
	<b>80 702</b> H1 M12 x 1,75	<b>500,70</b>
	<b>80 692</b> H1 M14 x 1,5	<b>799,90</b>
	<b>81 216</b> H1 M16 x 1,5	<b>1.833,50</b>
	<b>Angled 30° - type B</b>	
	<b>81 765</b> H2 M8 x 1 30°	<b>292,30</b>
	<b>Angled 45° - type B (hexagon body)</b>	
	<b>81 336</b> H2 M6 x 1	<b>279,10</b>
	<b>80 904</b> H2 M6 x 1 yellow chromated	<b>279,10</b>
	<b>81 202</b> H2 M7 x 1	<b>510,30</b>
	<b>81 338</b> H2 M8 x 1	<b>292,30</b>
	<b>12 232</b> H2 M8 x 1 yellow chromated	<b>292,30</b>
	<b>81 611</b> H2 M8 x 1,25	<b>292,30</b>
	<b>12 234</b> H2 M8 x 1,25 yellow chromated	<b>292,30</b>
	<b>12 251</b> H2 M10 x 1	<b>315,40</b>
	<b>81 857</b> H2 M10 x 1 yellow chromated	<b>315,40</b>
	<b>81 191</b> H2 M10 x 1,25	<b>315,40</b>
	<b>12 252</b> H2 M10 x 1,5	<b>315,40</b>
	<b>81 205</b> H2 M12 x 1	<b>1.013,80</b>
	<b>81 089</b> H2 M12 x 1,5	<b>1.013,80</b>
	<b>80 703</b> H2 M12 x 1,75	<b>1.013,80</b>
	<b>Angled 45° - type B (square body)</b>	
	<b>81 411</b> H2 M5 x 0,8	<b>1.860,50</b>
	<b>81 087</b> H2 M6 x 0,75	<b>516,80</b>
	<b>12 212</b> H2 M6 x 1	<b>279,10</b>
	<b>12 231</b> H2 M8 x 1	<b>292,30</b>
	<b>40 521</b> H2 M8 x 1 yellow chromated	<b>292,30</b>
	<b>12 233</b> H2 M8 x 1,25	<b>292,30</b>
	<b>12 258</b> H2 M10 x 1	<b>315,40</b>
	<b>81 546</b> H2 M10 x 1,5	<b>315,40</b>
	<b>Angled 67,5° - type B</b>	
	<b>40 864</b> H2 M8 x 1 67,5° square body	<b>310,30</b>
	<b>81 764</b> H2 M10 x 1 67,5°	<b>315,40</b>
	<b>Angled 90° - type C (hexagon body)</b>	
	<b>80 919</b> H3 M6 x 0,75	<b>585,00</b>
	<b>81 337</b> H3 M6 x 1	<b>279,10</b>
	<b>80 728</b> H3 M6 x 1 yellow chromated	<b>279,10</b>
	<b>81 203</b> H3 M7 x 1	<b>510,10</b>
	<b>81 339</b> H3 M8 x 1	<b>292,30</b>
	<b>12 322</b> H3 M8 x 1 yellow chromated	<b>292,30</b>
	<b>81 612</b> H3 M8 x 1,25	<b>292,30</b>
	<b>12 334</b> H3 M8 x 1,25 yellow chromated	<b>292,30</b>
	<b>12 351</b> H3 M10 x 1	<b>315,40</b>
	<b>81 385</b> H3 M10 x 1 yellow chromated	<b>315,40</b>
	<b>81 204</b> H3 M10 x 1,25	<b>315,40</b>
	<b>12 352</b> H3 M10 x 1,5	<b>315,40</b>
	<b>81 273</b> H3 M12 x 1	<b>2.971,90</b>
	<b>81 090</b> H3 M12 x 1,5	<b>1.013,80</b>
	<b>80 704</b> H3 M12 x 1,75	<b>1.013,80</b>

**12 251**

**12 231**

**12 351**


	€/1.000 pcs.	
<b>Angled 90° - type C (square body)</b>		
81 412 H3 M5 x 0,8	1.860,50	
12 312 H3 M6 x 1	279,10	
81 033 H3 M6 x 1 o/a length 21mm	589,50	
12 331 H3 M8 x 1	292,30	<b>12 331</b>
12 332 H3 M8 x 1 yellow chromated	292,30	
12 333 H3 M8 x 1,25	292,30	
12 358 H3 M10 x 1	315,40	
81 062 H3 M10 x 1,5	315,40	
<b>British Standards</b>		
<b>British Standard Pipe (BSP) manufactured according to DIN 71412</b>		
<b>Straight 180° - type A</b>		
12 153 H1 1/8" - 28 BSP	152,00	
81 856 H1 1/8" - 28 BSP yellow chromated	152,00	
12 171 H1 1/4" - 19 BSP	329,70	
12 181 H1 3/8" - 19 BSP	859,00	<b>12 181</b>
81 918 H1 1/2" - 14 BSP	2.921,00	
<b>Angled 45° - type B</b>		
12 253 H2 1/8" - 28 BSP	315,00	
81 864 H2 1/4" - 19 BSP	650,00	
<b>Angled 90° - type C</b>		
12 353 H3 1/8" - 28 BSP	315,00	
12 359 H3 1/8" - 28 BSP square body	315,00	
12 371 H3 1/4" - 19 BSP	650,00	
12 381 H3 3/8" - 14 BSP	1.842,00	<b>12 253</b>
		
<b>British Standard Fine (BSF/WWF)</b>		
<b>Straight 180° - type A</b>		
81 968 H1 1/4" - 26 BSF/ WWF	154,00	
81 076 H1 5/16" - 22 BSF/ WWF	215,70	
81 016 H1 3/8" - 20 BSF/ WWF	283,50	
<b>Angled 45° - type B</b>		
81 081 H2 1/4" - 26 BSF/ WWF	298,90	
80 139 H2 5/16" - 22 BSF/ WWF	1.940,00	
<b>Angled 90° - type C</b>		
81 080 H3 1/4" - 26 BSF/ WWF	298,90	
<b>British Standard Whitworth (BSW/WW)</b>		
<b>Straight 180° - type A</b>		
12 116 H1 1/4" - 20 BSW/ WW	181,20	
81 018 H1 5/16" - 18 BSW/ WW	215,70	
80 689 H1 3/8" - 16 BSW/ WW	301,00	
<b>Angled 45° - type B</b>		
81 030 H2 5/16" - 18 BSW/ WW	852,00	
<b>Angled 90° - type C</b>		
81 037 H3 1/4" - 20 BSW/ WW	525,00	
81 032 H3 5/16" - 18 BSW/ WW	852,00	<b>12 353</b>
		

**American Standards**

 €/  
1.000 pcs.

**Standard American Engineers (SAE) / Unified Fine (UNF)**
**12 117**

**Straight 180° - type A**

<b>12 117</b> H1 1/4" -28 SAE		<b>113,00</b>
<b>12 117</b> H1 1/4" SAE	thread length 4,5mm	<b>113,00</b>
<b>81 988</b> H1 1/4" SAE	o/a length 17,5mm	<b>126,00</b>
<b>81 791</b> H1 1/4" SAE	yellow chromated, o/a length 17,5mm	<b>126,00</b>
<b>12 121</b> H1 1/4" SAE	yellow chromated, o/a 29mm	<b>483,00</b>
<b>12 155</b> H1 5/16" - 24 SAE	yellow chromated	<b>215,70</b>
<b>12 156</b> H1 3/8" - 24 SAE	yellow chromated	<b>135,00</b>
<b>81 463</b> H1 1/2" - 20 SAE		<b>455,70</b>

**12 255**

**Angled 45° - type B**

<b>12 217</b> H2 1/4" - 28 SAE	yellow chromated	<b>298,90</b>
<b>40 543</b> H2 1/4" - 28 SAE	square body	<b>298,90</b>
<b>12 255</b> H2 5/16" - 24 SAE		<b>388,60</b>
<b>12 256</b> H2 3/8" - 24 SAE		<b>388,60</b>

**12 355**

**Angled 90° - type C**

<b>12 317</b> H3 1/4" - 28 SAE		<b>298,90</b>
<b>12 355</b> H3 5/16" - 24 SAE		<b>388,60</b>
<b>12 356</b> H3 3/8" - 24 SAE		<b>403,40</b>
<b>80 838</b> H3 1/2" - 20 SAE		<b>756,00</b>

**American National Pipe Taper (NPT)**
**Straight 180° - type A**

<b>12 154</b> H1 1/8" - 27 NPT	yellow chromated	<b>152,00</b>
<b>81 017</b> H1 1/4" - 18 NPT		<b>302,30</b>
<b>81 022</b> H1 1/4" - 18 NPT	thread length 11mm	<b>533,80</b>

**Angled 45° - type B**

<b>12 254</b> H2 1/8" - 27 NPT		<b>388,60</b>
<b>81 024</b> H2 1/4" - 18 NPT		<b>877,60</b>

**Angled 90° - type C**

<b>12 354</b> H3 1/8" - 27 NPT		<b>388,60</b>
<b>81 035</b> H3 1/4" - 18 NPT		<b>740,00</b>

**Self-forming thread grease fittings, yellow chromated, manufactured according to DIN 71412**
**12 512**

**Straight 180° - type A**

<b>12 511</b> H1 SFG 6 x 1		<b>108,80</b>
<b>12 512</b> H1 SFG 8 x 1		<b>137,70</b>
<b>12 513</b> H1 SFG 8 x 1	thread length 3,5 mm	<b>137,70</b>
<b>12 514</b> H1 SFG 10 x 1		<b>163,30</b>

**12 522**

**Angled 45° - type B**

<b>12 521</b> H2 SFG 6 x 1	square body	<b>305,30</b>
<b>80 263</b> H2 SFG 8 x 1		<b>199,00</b>
<b>12 522</b> H2 SFG 8 x 1	square body	<b>305,30</b>
<b>12 524</b> H2 SFG 10 x 1	square body	<b>529,30</b>

**Angled 90° - type C**

- 80 273 H3 SFG 6 x 1
- 12 531 H3 SFG 6 x 1 square body
- 12 532 H3 SFG 8 x 1
- 12 534 H3 SFG 10 x 1

**Other standard**

- 81 000 H1 SFG 1/4" - 28 SAE

**Hydraulic grease fittings - special types**
**with extension tube**

- 40 833 H1 M6 x 1 extension 32mm
- 40 834 H1 M8 x 1 extension 30mm
- 40 895 H1 M10 x 1 extension 22mm
- 40 896 H1 M10 x 1 extension 36mm
- 40 835 H1 M10 x 1 extension 50mm

Double-head grease fittings on request.

**Manufactured of stainless steel material  
no. 1.4305, V2A, AISI 303**
**Drive-fit manufactured according to DIN 71412**
**Straight 180° - type A**

- 80 926 H1 a ø 6mm
- 80 677 H1 a ø 8mm

**Metric standard manufactured according to DIN 71412**
**Straight 180° - type A**

- 12 612 H1 M6 x 1
- 81 040 H1 M6 x 1 cylindrical
- 80 867 H1 M6 x 1 cylindrical, thread length 8,5mm
- 12 613 H1 M8 x 1
- 81 010 H1 M8 x 1,25
- 12 614 H1 M10 x 1
- 81 744 H1 M10 x 1,5
- 81 841 H1 M12 x 1

**Angled 45° - type B**

- 12 621 H2 M6 x 1
- 81 831 H2 M8 x 1
- 81 934 H2 M8 x 1,25
- 12 624 H2 M10 x 1
- 81 020 H2 M10 x 1,5
- 81 842 H2 M12 x 1

**Angled 90° - type C**

- 81 038 H3 M6 x 1
- 81 039 H3 M8 x 1
- 81 428 H3 M8 x 1,25
- 12 634 H3 M10 x 1
- 81 031 H3 M10 x 1,5

€/1.000 pcs.

296,00  
307,20  
307,20  
529,30

157,70

3.197,00  
3.218,00  
3.247,00  
3.870,00  
5.324,00

1.159,80  
3.500,40

533,10  
533,10  
554,30  
668,30  
750,00  
766,60  
766,60  
2.661,00

1.674,10  
1.674,10  
1.674,10  
2.161,90  
2.161,90  
5.576,80

1.674,10  
1.674,10  
1.674,10  
2.161,90  
2.161,90

12 534



40 896 / 40 834 / 40 895



80 667



80 677



12 614









12 624



12 634



		<b>BRITISH STANDARDS</b>		€/1.000 pcs.
		<b>British Standard Pipe (BSP) manufactured according to DIN 71412</b>		
<b>12 615</b>		<b>Straight 180° - type A</b>		
		12 615 H1 1/8" - 28 BSP		766,60
		12 617 H1 1/4" - 19 BSP		2.966,30
		81 610 H1 3/8" - 19 BSP		14.138,90
<b>12 625</b>		<b>Angled 45° - type B</b>		
		12 625 H2 1/8" - 28 BSP		2.161,90
		12 627 H2 1/4" - 19 BSP		7.217,10
		<b>Angled 90° type C</b>		
		12 635 H3 1/8" - 28 BSP		2.161,90
		12 637 H3 1/4" - 19 BSP		6.972,90
		<b>British Standard Whitworth (BSW/ WW)</b>		
		<b>Straight 180° - type A</b>		
		81 516 H1 1/4" - 20 BSW/ WW		1.857,80
		<b>Manufactured of acid-proof steel material no. 1.4401, V4A, AISI 316</b>		
		<b>Metric standard manufactured according to DIN 71412</b>		
<b>80 869</b>		<b>Straight 180° - type A</b>		
		80 869 H1 M6 x 1		7.079,00
		80 870 H1 M8 x 1		11.471,60
		80 871 H1 M8 x 1,25		11.471,60
		81 012 H1 M10 x 1		11.471,60
		81 779 H1 M10 x 1,5		11.471,60
		81 915 H1 M12 x 1,5		11.471,60
		<b>Angled 45° - type B</b>		
		81 869 H2 M6x1		6.334,80
		81 784 H2 M12 x 1		22.239,40
<b>81 608</b>		<b>Angled 90° - type C</b>		
		81 608 H3 M6 x 1		9.435,00
		80 678 H3 M8 x 1		9.435,00
		80 207 H3 M10 x 1		9.750,00
		<b>British Standard Pipe (BSP) manufactured according to DIN 71412</b>		
<b>12 715</b>		<b>Straight 180° - type A</b>		
		12 715 H1 1/8" - 28 BSP		7.157,00
		12 717 H1 1/4" - 19 BSP		10.151,50
		81 009 H1 3/8" - 19 BSP		20.479,50
		<b>Angled 45° - type B</b>		
		81 152 H2 1/8" - 28 BSP square body		15.964,50
<b>81 452</b>		<b>Angled 90° - type C</b>		
		81 452 H3 1/8" - 28 BSP		23.372,70
		81 708 H3 1/4" - 19 BSP square body		23.372,70

Other Standards	€/1.000 pcs.
<b>Straight 180° - type A</b>	
<b>81 910</b> H1 a ø 10mm	6.084,00
<b>81 941</b> H1 1/4" - 28 UNF	16.200,00
<b>80 188</b> H1 1/8" - 27 NPT	19.800,00
<b>Manufactured of brass</b>	
<b>Metric standard and British Standard Pipe (BSP) manufactured according to DIN 71412</b>	
<b>Straight 180° - type A</b>	
<b>81 006</b> H1 M6 x 1	549,60
<b>12 134</b> H1 M8 x 1	124,60
<b>81 713</b> H1 M8 x 1,25	605,50
<b>81 002</b> H1 M10 x 1	605,50
<b>80 246</b> H1 M12 x 1,5	2.700,00
<b>81 066</b> H1 1/8" - 28 BSP	2.225,50
<b>80 862</b> H1 3/8" - 19 BSP	5.103,80
<b>Angled 90° - type C</b>	
<b>12 337</b> H3 M8 x 1	1.632,50
<b>Manufactured of nickel-plated steel</b>	
<b>80 978</b> H1 M6 x 1 cylindrical thread	79,60
<b>80 902</b> H1 M6 x 1 cylindrical thread, thread length 8,5mm	104,10
<b>81 810</b> H1 1/8" - 28 BSP	152,00
<b>81 811</b> H2 1/8" - 28 BSP	315,00
<b>Accessories for grease fittings</b>	
<b>Protection caps for grease fittings</b>	
• for hydraulic grease fittings	
<b>80 857</b> red, without hanger	94,00
<b>80 858</b> red, with hanger	112,20
<b>80 859</b> yellow, without hanger	94,00
<b>80 860</b> yellow, with hanger	112,20
<b>Grease fitting identification ring</b>	
<b>80 730</b> red, M6 x 1	105,00
<b>80 731</b> red, M8 x 1	105,00
<b>80 732</b> red, M10 x 1	146,00
<b>80 499</b> yellow, M10 x 1	146,00

**12 337**

**80 860 / 80 858**

**80 499 / 80 732 / 80 731**


**Professional button-head grease fittings**

 €/  
1.000 pcs.

• reliability and precision for original equipment manufacturers and after-sales market

**„Serie M“ manufactured according to DIN 3404**

Manufactured of precision steel, case-hardened, zinc plated and passivated

**Metric standard**
**81 130**

**M4 (head diameter 10mm)**
**15 460** M4 M6 x 1

**445,60**
**81 579** M4 M8 x 1

**551,30**
**81 130** M4 M10 x 1

**658,00**
**M1 (head diameter 16mm)**
**81 070** M1 M6 x 1

**479,80**
**15 172** M1 M8 x 1

**475,00**
**81 071** M1 M8 x 1,25

**479,80**
**15 173** M1 M10 x 1

**479,80**
**15 178** M1 M10 x 1,5

**479,80**
**15 174** M1 M12 x 1,5

**479,80**
**81 072** M1 M16 x 1,5

**483,00**
**M22 (head diameter 22mm)**
**15 225** M22 M16 x 1,5

**1.518,50**
**British Standard Pipe (BSP) manufactured according to DIN 3404**
**M4 (head diameter 10mm)**
**81 730** M4 1/8" - 28 BSP

**819,00**
**M1 (head diameter 16mm)**
**15 175** M1 1/8" - 28 BSP

**479,80**
**15 176** M1 1/4" - 19 BSP

**483,00**
**15 177** M1 3/8" - 19 BSP

**592,00**
**81 074** M1 1/2" - 14 BSP

**2.304,40**
**M22 (head diameter 22mm)**
**15 226** M22 1/4" - 19 BSP

**1.518,50**
**15 227** M22 3/8" - 19 BSP

**1.875,20**
**15 228** M22 1/2" - 14 BSP

**2.375,50**
**Manufactured of stainless steel material no. 1.4305, V2A, AISI 303**
**15 227**

**81 658**

**M1 (head diameter 16 mm)**
**81 658** M1 M6 x 1

**3.140,20**
**15 663** M1 M10 x 1

**3.750,50**
**15 665** M1 1/8" - 28 BSP

**3.750,50**
**15 666** M1 1/4" - 19 BSP

**3.997,70**
**81 077** M1 3/8" - 19 BSP

**5.518,10**
**81 717** M1 1/4" - 18 NPT

**3.261,80**
**M22 (head diameter 22 mm)**
**81 134** M22 3/8" - 19 BSP

**19.265,30**

**Manufactured of acid-proof steel material no. 1.4401, V4A, AISI 316**

€/1.000 pcs.

**M1 (head diameter 16mm)**

<b>81 776</b> M1 M10 x 1	<b>16.551,00</b>
<b>81 013</b> M1 1/8" - 28 BSP	<b>15.767,80</b>
<b>80 685</b> M1 1/4" - 19 BSP	<b>16.551,00</b>

**Manufactured of brass**
**M4 (head diameter 10mm)**

<b>81 082</b> M4 M8 x 1	<b>1.015,60</b>
<b>81 665</b> M4 M10 x 1	<b>1.120,70</b>

**M1 (head diameter 16mm)**

<b>15 473</b> M1 M10 x 1	<b>1.120,70</b>
<b>15 475</b> M1 1/8" - 28 BSP	<b>1.120,70</b>
<b>15 476</b> M1 1/4" - 19 BSP	<b>1.120,70</b>
<b>81 088</b> M1 3/8" - 19 BSP	<b>1.375,50</b>

**M22 (head diameter 22mm)**

<b>81 091</b> M22 3/8" - 19 BSP	<b>3.231,20</b>
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**Professional button-head grease fittings „Serie T1“**

<b>81 086</b> T1 M8 x 1	<b>947,00</b>
<b>81 121</b> T1 M8 x 1,25	<b>947,00</b>
<b>81 123</b> T1 M10 x 1	<b>947,00</b>
<b>80 885</b> T1 1/8" - 28 BSP	<b>547,00</b>
<b>80 886</b> T1 1/4" - 19 BSP	<b>547,00</b>

**Professional button-head grease fittings „Serie T1B“**

<b>81 124</b> T1B M8 x 1	<b>947,00</b>
<b>81 125</b> T1B M8 x 1,25	<b>947,00</b>
<b>81 084</b> T1B M10 x 1	<b>947,00</b>
<b>81 969</b> T1B M10 x 1,5	<b>475,00</b>
<b>80 718</b> T1B 1/8" - 28 BSP	<b>475,00</b>
<b>80 719</b> T1B 1/4" - 19 BSP	<b>543,60</b>
<b>81 281</b> T1B M10 x 1 stainless steel, material no. 1.4305, V2A, AISI 303	<b>18.121,10</b>
<b>81 085</b> T1B 1/8" - 28 BSP stainless steel, material no. 1.4305, V2A, AISI 303	<b>18.121,10</b>
<b>81 092</b> T1B 1/4" - 19 BSP stainless steel, material no. 1.4305, V2A, AISI 303	<b>3.523,80</b>
<b>81 094</b> T1B 1/8" - 28 BSP acid-proof steel, material no. 1.4401, V4A, AISI 316	<b>9.904,00</b>
<b>80 935</b> T1B 1/8" - 28 BSP brass	<b>3.539,00</b>
<b>81 345</b> T1B 1/4" - 19 BSP brass	<b>1.195,00</b>

**81 013**

**15 475**

**80 886**

**81 084**


**Professional cup-shaped grease fittings  
manufactured according to DIN 3405**

 €/  
1.000 pcs.

- reliability and precision for original equipment manufacturers and after-sales market
- manufactured of precision steel, case-hardened, zinc plated and passivated

**Drive-fit**
**14 706**

**Straight 180° - type A**
**14 104** D 1 a ø 4 mm head diameter 5 mm

**159,40**
**14 704** D 1 a ø 5 mm

**159,40**
**14 706** D 1 a ø 6 mm

**169,20**
**14 708** D 1 a ø 8 mm

**175,90**
**Angled 45° - type B**
**14 206** D 2 a ø 6 mm

**330,50**
**14 208** D 2 a ø 8 mm

**695,00**
**Angled 90° - type C**
**14 306** D 3 a ø 6 mm

**745,00**
**14 308** D 3 a ø 8 mm

**745,00**
**Metric standard**
**14 150**

**Straight 180° - typen A**
**81 260** D1 M5 x 0,8 hexagon 7 mm

**324,10**
**14 713** D1 M6 x 1

**159,40**
**14 131** D1 M8 x 1 hexagon 9 mm

**175,90**
**80 751** D1 M8 x 1 hexagon 11 mm

**175,90**
**14 133** D1 M8 x 1,25

**175,90**
**14 150** D 1 M 10 x 1

**182,30**
**14 152** D 1 M 10 x 1,5

**238,50**
**14 231**

**Angled 45° Form - type B**
**14 212** D2 M6 x 1

**685,80**
**14 231** D2 M8 x 1

**685,80**
**14 233** D2 M8 x 1,25

**685,80**
**14 251** D2 M10 x 1

**826,50**
**14 331**

**Angled 90° - type C**
**14 312** D3 M6 x 1

**685,80**
**14 331** D3 M8 x 1

**685,80**
**81 176** D3 M10 x 1

**826,50**
**British Standard Pipe (BSP)**
**Straight 180° - type A**
**14 153** D1 1/8" - 28 BSP

**368,00**
**14 171** D1 1/4" - 19 BSP

**572,50**
**14 181** D1 3/8" - 19 BSP

**853,00**
**Angled 45° - type B**
**14 271** D2 1/4" - 19 BSP

**1.112,70**
**Angled 90° - type C**
**14 353** D3 1/8" - 28 BSP

**841,30**

**Manufactured of stainless steel material no. 1.4305, V2A, AISI 303**

€/1.000 pcs.

**Drive-fit**

<b>81 786</b> D1 a ø 3,5 mm	<b>876,00</b>
<b>81 787</b> D1 a ø 4 mm	<b>876,00</b>
<b>81 365</b> D1 a ø 5 mm head diameter 6 mm	<b>3.399,70</b>
<b>81 393</b> D1 a ø 6 mm	<b>1.950,40</b>

**Metric standard**

<b>81 745</b> D1 M6 x 1	<b>2.125,90</b>
<b>81 505</b> D1 M8 x 1	<b>2.718,30</b>
<b>80 469</b> D1 M8 x 1,25	<b>2.718,30</b>

**Manufactured of brass**
**Drive-fit**

<b>81 011</b> D1 a ø 4 mm head diameter 6 mm, height 1,5 mm	<b>461,00</b>
<b>81 499</b> D1 a ø 4 mm nickel-plated, head diameter 6 mm, height 1,5 mm	<b>690,00</b>
<b>81 492</b> D1 a ø 4 mm nickel-plated, head diameter 6 mm, height 2 mm	<b>690,00</b>
<b>14 406</b> D1 a ø 6 mm	<b>415,00</b>
<b>14 408</b> D1 a ø 8 mm	<b>725,00</b>
<b>14 410</b> D1 a ø 10 mm	<b>652,00</b>

**Metric standard**

<b>14 412</b> D1 M6 x 1	<b>620,00</b>
<b>14 414</b> D1 M8 x 1	<b>690,00</b>
<b>14 415</b> D1 M8 x 1,25	<b>690,00</b>

**British Standard Pipe (BSP)**

<b>14 453</b> D1 1/8" - 28 BSP	<b>646,10</b>
<b>14 471</b> D1 1/4" - 19 BSP	<b>897,00</b>

**Professional packaging of grease fittings**
**Packaging in plastic bags**
**Standard bulk plastic bags**

- „Serie H“**
- Straight 180°: per 1.000 pieces in sturdy plastic bag, provided with Hallbauer-branded self-adhesive label indicating quantity, type description, article number, date of packaging
  - Angled 45°/ 90°: per 500 pieces in sturdy plastic bag, labelling as above.
- „Serie D“**
- Straight 180°: per 1.000 pieces in sturdy plastic bag, provided with Hallbauer-branded self-adhesive label indicating quantity, type description, article number, date of packaging
  - Angled 45°/ 90°: per 500 pieces in sturdy plastic bag, labelling as above.

**81 393**

**80 469**

**81 492**

**14 414**
