GERMANY MADE EQUIPMENT

UMETA

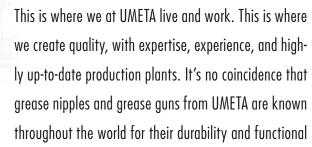
We make it move.



If you ever see a grease nipple anywhere, it's most probably one of ours. After all, since 1926 UMETA has been the address for high-quality manual grease technology, which, unlike many other companies, we are still producing in Germany. And we plan to carry on doing so.

Our manufacturing plant is in Bielefeld

because we owe everything to this region and to the people who live here!





safety. One of our special strengths is our enormous flexibility when it comes to customer wishes. If someone needs a custom-made solution for his special design requirements, then he gets it - without any ifs or buts. We place a high priority on first-class advice and customer care. This is why we were the first company in the industry to not only be certified by TÜV in accordance with DIN ISO 9001:2000 but also for "customer satisfaction and quality of service". As a modern, family-run company with tradition, we aim to represent dependability and reliability and remain a trustworthy partner well into the future.

Why not check us out yourself!

Freak least

Yours





We are fortunate enough to be able to live in an affluent society, but we also have an obligation to help people who do not share this luck.

UMETA supports social institutions in Germany, for example the Children's Cancer Clinic in Bielefeld, sports clubs, charitable organisations etc. Since 2007, UMETA has also given considerable commitment to Tanzania, one of the 10 poorest countries in the world.

For us at UMETA it is intolerable that one side of the world has plenty, and that on the other side of the world abandoned orphans are starving or dying of AIDS. Anyone who has personally experienced this will never be able to banish the images as long as they live. To fight this appalling situation, we founded the Good Hope Centre funding association in September 2007 together with some good friends.

Since then, our work at the foot of Mount Kilimanjaro has been producing a home for orphans as well as a primary school. This Happy Watoto Homes & Schools in Ngorika provides "our" 120 orphans, in addition to 160 needy children from the local area, optimum future prospects through a protected childhood and good education.

This "village" has been opened since May 2011.

We are receiving considerable support from various directions such as business partners, personal friends, visitors to our funding events, well-known people or politicians. Despite this, we need to be able to permanently safeguard the operating costs for our home. I therefore ask you:

Please help us! "Our children in Tanzania" depend on your help!





WWW.GOOD-HOPE-CENTRE.DE

Please visit our homepage www.good-hope-centre.de and inform yourself about the various ways you can help us. Why don't you join our funding association?

Unfortunately we can't save the whole world, but everyone here at UMETA is doing their very best to do what is possible within our means. Please help us to achieve this!

I would like to thank you wholeheartedly in the name of "our children" and all the committed staff at UMETA for your help!

Vaer

Best regards,

Frank Maser



PETER MAFFAY



"I REALLY WOULD LIKE TO PRAISE THE GOOD HOPE CENTRE FUNDRAISING ASSOCIATION FOR ITS EXCELLENT WORK! I WILL SUPPORT YOU HOWEVER I CAN!"

ULI STEIN



"IT IS A REAL ACHIEVEMENT TO
SUPPORT SUCH A FANTASTIC ACTION
NOT JUST PASSIVELY, BUT TO
ACTIVELY PARTICIPATE AS WELL. I
REALLY HOPE WE WILL BE ABLE TO
ACHIEVE A LOT WITH OUR
ASSOCIATION"

UDO LINDENBERG



"I AM EXTREMELY PLEASED
THAT I CAN SUPPORT YOUR WORK
WITH THE "UDO LINDENBERG
FOUNDATION". KEEP UP THE GOOD
WORK! AHOI, UDO"

WERNER SCHULZE-ERDEL



"IT IS REALLY NICE TO BE ABLE
TO WORK WITH YOU. I'M REALLY
LOOKING FORWARD TO THE MANY
FUTURE ACTIONS AND EVENTS
WHERE I CAN HELP YOU."

ALFONS SCHUHBECK



"THERE REALLY SHOULDN'T BE ANY CHILDREN IN NEED! THAT IS WHY I AM REALLY PLEASED TO HELP."

AXEL SCHULZ



"NO MATTER HOW, YOUR CHILDREN
IN TANZANIA CAN ALWAYS
COUNT ON ME!"



UMETA PRODUCTS

Quality — safety — flexibility UMETA keeps your machines moving

For more than 80 years, UMETA lubrication products have been guaranteeing reliable maintenance and upkeep of high-quality machines and equipment. Even nowadays, breakdowns caused by non-lubricated or incorrectly lubricated equipment can cost millions.

To keep your equipment permanently moving, we can offer the largest range of lubricating nipples available the whole world over in addition to grease guns and accessories for all application areas. We know exactly how important good tools are for effective work, and would be pleased to advise you at any time. Our aim is to find an optimum solution for every lubrication problem, whether direct by using our huge standard range, or even using products which we develop together with your company.

Speed counts! This is why a large part of our program is permanently available to you from stock.

We produce our high-quality lubrication technology exclusively in Germany. The established UMETA quality is guaranteed here by highly-modern production facilities, certified quality management and innovative product management.

Turned parts to customer specifications are now playing an increasing part within our company. In this case, we can fall back on decades of experience and the knowledge gained from lubricating technology. Our customers value the flexibility and reliability of our automatic devices and CNC lathes. Combination of this department with the assembly sector allows us to process complex components and to produce in variable dimensions, materials and batch sizes.



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GREASE GUNS



* Subject to our guarantee terms and conditions which can be found at www.umeta.com

UMETA grease guns stand for highest quality and reliability.

We are certain of the quality of UMETA products and have a guaranty of four years for all UMETA TWIN-LOCK® grease guns with respect to function. Accurate manufacturing, high quality materials and intelligent product features turn our guns into effective precision tools that effortlessly reach high lubricating pressures.

UMETA TWIN-LOCK® grease guns will be delivered with a user's manual, either in a polybag, or in a coloured cardboard box.

All UMETA TWIN-LOCK® grease guns for 400g (14.0 oz.) grease cartridges comply with DIN 1283 as regards physical dimensions and performance and are suitable for grease cartridges according to DIN 1284.





Our grease guns 75/PK und 75/PL are DLG-certified



Of course, our quality management is ISO 9001-2008-certified

UMETA GREASE GUNS — ADVANTAGES AT A GLANCE

- · UMETA TWIN-LOCK® system
- · rolled coarse thread for high stability and easy dissassembly
- · special pressure stability by cast aluminium head and thick-walled barrel
- · easy insertion of the plunger into the cartridge by a bulge in the barre
- · inner cartridge stopper
- · stable hand lever with security handle
- · ergonomic T-grip with jam protection
- · knurled barrel for better hold and grip
- · separate air release valve or filler valve
- · special constructions available
- · colours and imprints as per customer's request
- · individual packaging
- · high wearing security
- · even after 30,000 strokes no wear is detectable
- available according to DIN 1283
- · wide range of accessories



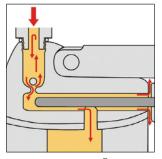


■ UMETA TWIN-LOCK®-SYSTEM — THE LIFE INSURANCE FOR YOUR MACHINES AND EQUIPMENT

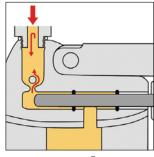
When maintaining your high quality machines and equipment, you should absolutely avoid quasi-lubrication!

What does quasi-lubrication mean?

Upon continuous operation, abrasion can easily take place between the metal piston and the metal cylinder of the grease gun. For this reason, the grease at the top of the piston can be pressed back into the cartridge at a low operating pressure without being noticed. In spite of all efforts, no grease will be transported to the lubrication spot. In order not to expose your machines to this risk, we developed the UMETA TWIN-LOCK® system. In connection with two special sealing elements, it protects the precision piston from wear upon continuous operation. By the special arrangement of the sealing elements, the UMETA TWIN-LOCK® system avoids quasi-





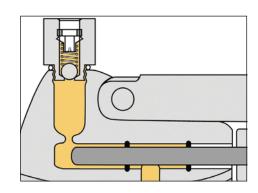


with UMETA TWIN-LOCK® System

lubrication and grease escaping the piston. The sealing elements are designed in a way that they adjust themselves to the corresponding operating pressure with respect to their sealing effect. For this unique advantage UMETA grease guns are worldwide renowned.

UMETA EVER-FLOW SYSTEM

The patented EVER-FLOW system invented by UMETA ensures perfect functioning of the UMETA TWIN-LOCK® gun, even with thick grease and at the lowest temperatures. This is ensured by an outlet valve equipped with a special ball stopper. Even semifluid biological grease will easily be transported by the vacuum developing during the pumping process. This is another advantage of UMETA's, where many other competitors' products fail.



UMETA GREASE GUN KITS

The well-established UMETA accessories for grease guns offer you the optimal solution for any application. We assembled the most common grease gun kits, which consist of the UMETA grease gun of your choice and the following standard accessory parts.

Basically, you can equip any grease gun with the accessory parts of your choice. You will find our complete accessories list in our chapter "UMETA Accessories for Grease Guns".

Our most common standard kits:



110/G - nozzle tube with hydraulic coupling



340/GLN - hose 300 mm (12") with hydraulic coupling



Grease gun equipped with standard air release valve



Grease gun equipped with standard filler valve



Grease gun equipped with standard filler valve and nozzle tube



HAND LEVER GREASE GUNS

75/PK Silver



barrel version silver painted steel barrel — DIN 1283

special colours available

Ø 56 mm (2.2")

barrel length 296 mm (11.6") suitable for grease up to NLGI 3

filling capacity 400 g (14.0 oz.) grease cartridge / 500 ccm (16.0 oz.) bulk grease

connection thread M 10 x 1 oder G 1/8 upon request 1/8 NPT

Connection	Packed in	Scope of delivery	Ref. No.:
M 10 x 1	polybag	without accessories	V000286
M 10 x 1	polybag	with 340/GLN	V000281
M 10 x 1	polybag	with 110/G	V000333
M 10 x 1	polybag	with $110/G + 340/GLN$	V000524
M 10 x 1	polybag	with filler valve	V000342
M 10 x 1	cardboard box	without accessories	V000306
M 10 x 1	cardboard box	with 340/GLN	V000308
M 10 x 1	cardboard box	with 110/G	V000378
M 10 x 1	cardboard box	with 110/G + 340/GLN	V000717
M 10 x 1	cardboard box	with filler valve	V000319

^{*} special version USA

Hand Lever Grease Gun with high quality silver painted steel barrel

- · for 400 g (14.0 oz.) grease cartridges or 500 ccm (16.0 oz.) bulk grease
- · with UMETA TWIN-LOCK® system and patented EVER-Flow system
- · standard air release valve, alternatively with filler valve according to DIN 1283

operating pressure 400 bar / 5,800 PSI

packed in

output approx. 1.9 ccm (0.06 oz.)/stroke testing pressure 800 bar / 11,600 PSI

testing pressure 800 bar / 11,600 PSI gun dimension 400 x 128 x 60 mm (15.7 x 5.0 x 2.36")

printed UMETA polybag or printed UMETA cardboard box

weight net 1,250 g (44.1 oz.) + accessories and packaging

Connection	Packed in	Scope of delivery	Ref. No.:
G 1/8	polybag	without accessories	V000287
G 1/8	polybag	with 340/GLN	V000276
G 1/8	polybag	with 110/G	V000456
G 1/8	polybag	with $110/G + 340/GLN$	V001174
G 1/8	polybag	with filler valve	V001045
G 1/8	cardboard box	without accessories	V000402
G 1/8	cardboard box	with 340/GLN	V000449
G 1/8	cardboard box	with 110/G	V000535
G 1/8	cardboard box	with 110/G + 340/GLN	V001176
G 1/8	cardboard box	with filler valve	V000495
1/8 NPT	polybag	with 95/G	V000667
1/8 NPT	polybag	with filler valve* and 95/G	V000616
1/8 NPT	cardboard box	with filler valve* and 95/G	V000403

75/PK Zinc

barrel length

suitable for



barrel version made of zinc-plated steel — DIN 1283

special colours available Ø 56 mm (2.2") 296 mm (11.6") grease up to NLGI 3

filling capacity 400 g (14.0 oz.) grease cartridge / 500 ccm (16.0 oz.) bulk grease

connection thread M 10 x 1 or G 1/8 upon request 1/8 NPT

Connection	Packed in	Scope of delivery	Ref. No.:
M 10 x 1	polybag	without accessories	V000301
M 10 x 1	polybag	with 340/GLN	V000309
M 10 x 1	polybag	with 110/G	V000860
M 10 x 1	polybag	with $110/G + 340/GLN$	V001167
M 10 x 1	polybag	with filler valve	V000432
M 10 x 1	cardboard box	without accessories	V000310
M 10 x 1	cardboard box	with 340/GLN	V000573
M 10 x 1	cardboard box	with 110/G	V000567
M 10 x 1	cardboard box	with 110/G + 340/GLN	V001166
M 10 x 1	cardboard box	with filler valve	V000358

Hand Lever Grease Gun with high quality zinc-plated steel barrel

- · for 400 g (14.0 oz.) grease cartridges or 500 ccm (16.0 oz.) bulk grease
- · with UMETA TWIN-LOCK® system and patented EVER-Flow-System
- · standard air release valve, alternatively with filler valve according to DIN 1283

operating pressure 400 bar / 5,800 PSI approx. 1.9 ccm (0.06 oz.)/stroke testing pressure 800 bar / 11,600 PSI

gun dimension 400 x 128 x 60 mm (15.7 x 5.0 x 2.36")

packed in printed UMETA polybag or printed UMETA cardboard box

weight net 1,250 g (44.1 oz.) + accessories and packaging

Connection	Packed in	Scope of delivery	Ref. No.:
G 1/8	polybag	without accessories	V000349
G 1/8	polybag	with 340/GLN	V001408
G 1/8	polybag	with 110/G	V001182
G 1/8	polybag	with $110/G + 340/GLN$	V001181
G 1/8	polybag	with filler valve	V001249
G 1/8	cardboard box	without accessories	V001172
G 1/8	cardboard box	with 340/GLN	V001409
G 1/8	cardboard box	with 110/G	V001185
G 1/8	cardboard box	with 110/G + 340/GLN	V001184
G 1/8	cardboard box	with filler valve	V001250

75/PL Zinc

barrel length

suitable for



barrel version made of zinc-plated steel

Ø 56 mm (2.2") 370 mm (14.6") grease up to NLGI 3

filling capacity 500 g (17.5 oz.) grease cartridge/600 ccm (20 oz.) bulk grease

connection thread M 10 x 1 or G 1/8 upon request 1/8 NPT

Connection	Packed in	Scope of delivery	Ref. No.:
M 10 x 1	polybag	without accessories	V000662
M 10 x 1	polybag	with 340/GLN	V000810
M 10 x 1	polybag	with 110/G	V000803
M 10 x 1	polybag	with $110/G + 340/GLN$	V001199
M 10 x 1	polybag	with filler valve	V001197
M 10 x 1	cardboard box	without accessories	V000439
M 10 x 1	cardboard box	with 340/GLN	V001422
M 10 x 1	cardboard box	with 110/G	V001460
M 10 x 1	cardboard box	with 110/G + 340/GLN	V000525
M 10 x 1	cardboard box	with filler valve	V000486

Hand Lever Grease Gun with extended zinc-plated steel barrel

- · for 500 g (17.5 oz.) grease cartridges or 600 ccm (20 oz.) bulk grease
- · with UMETA TWIN-LOCK® system and patented EVER-Flow system
- · standard air release valve, alternatively with filler valve according to DIN 1283

operating pressure 400 bar / 5,800 PSI

approx. 1.9 ccm (0.06 oz.)/stroke output 800 bar / 11,600 PSI testing pressure

475 x 128 x 60 mm (18.7 x 5.0 x 2.36") gun dimension packed in

printed UMETA polybag or printed UMETA cardboard box

net 1,450 g (51.5 oz.) + accessories and packaging weight

Connection	Packed in	Scope of delivery	Ref. No.:
G 1/8	polybag	without accessories	V001093
G 1/8	polybag	with 340/GLN	V001201
G 1/8	polybag	with 110/G	V001129
G 1/8	polybag	with $110/G + 340/GLN$	V001200
G 1/8	polybag	with filler valve	V001198
G 1/8	cardboard box	without accessories	V001461
G 1/8	cardboard box	with 340/GLN	V001462
G 1/8	cardboard box	with 110/G	V001463
G 1/8	cardboard box	with 110/G + 340/GLN	V001464
G 1/8	cardboard box	with filler valve	V001465

75/LL Zinc



barrel version

barrel length suitable for filling capacity made of zinc-plated steel

Ø 56 mm (2.2") 445 mm (17.5") grease up to NLGI 3 1,000 ccm (32 oz.) bulk grease connection thread M 10 x 1 or G 1/8 upon request 1/8 NPT

- · for 1,000 ccm (32.0 oz.) bulk grease
- · with UMETA TWIN-LOCK® system and patented EVER-Flow system
- · standard air release valve, alternatively with filler valve according to DIN 1283

operating pressure output testing pressure gun dimension packed in

weight

400 bar / 5,800 PSI approx. 1.9 ccm (0.06 oz.)/stroke 800 bar / 11,600 PSI

552 x 128 x 60 mm (21.7 x 5.0 x 2.36") printed UMETA polybag

net 1,660 g (58.5 oz.) + accessories and packaging

Connection	Packed in	Scope of delivery	Ref. No.:
M 10 x 1	polybag	without accessories	V000647
M 10 x 1	polybag	with 340/GLN	V000941
M 10 x 1	polybag	with 110/G	V001213
M 10 x 1	polybag	with $110/G + 340/GLN$	V001212
M 10 x 1	polybag	with filler valve	V000938

Connection	Packed in	Scope of delivery	Ref. No.:
G 1/8	polybag	without accessories	V000648
G 1/8	polybag	with 340/GLN	V001233
G 1/8	polybag	with 110/G	V001232
G 1/8	polybag	with 110/G + 340/GLN	V001229
G 1/8	polybag	with filler valve	V001214



75/PKU



barrel version made of zinc-plated steel

Ø 56 mm (2.2")

barrel length 295 mm (11.6") suitable for grease up to NLGI 3

filling capacity 400 g (14.0 oz.) grease cartridge / 500 ccm (16.0 oz.) bulk grease

connection thread M 10 x 1 or G 1/8

upon request 1/8 NPT

Connection	Packed in	Scope of delivery	Ref. No.:
M 10 x 1	cardboard box	without accessories	7021312
M 10 x 1	cardboard box	with 340/GLN	6800130
M 10 x 1	cardboard box	with 110/G	7751511
M 10 x 1	cardboard box	with $110/G + 340/GLN$	6800140

UMETA TWIN-LOCK® Ultra Gun

top model, which combines quality, function and design

- · for 400 g (14.0 oz.) grease cartridges or 500 ccm (16.0 oz.) bulk grease
- · ergonomic grips made of anti-slip material
- · with UMETA TWIN-LOCK® system and patented EVER-Flow system
- · filler valve, DIN 1283 included
- · UMETA multi colour cardboard box

operating pressure 400 bar / 5,800 PSI

approx. 1.9 ccm (0.06 oz.)/stroke output

800 bar / 11,600 PSI testing pressure

gun dimension 400 x 135 x 75 mm (15.7 x 5.3 x 3.0") packed in

printed UMETA cardboard box portable carrying case

1,300 g (45.8 oz.) + accessories and packaging weight

Connection	Packed in	Scope of delivery	Ref. No.:
G 1/8	cardboard box	without accessories	7021411
G 1/8	cardboard box	with 340/GLN	7752611
G 1/8	cardboard box	with 110/G	7751611
G 1/8	cardboard box	with $110/G + 340/GLN$	7759611

UMETA TWIN-LOCK® Ultra Case Kit



Connection Scope of delivery Ref. No.: Packaging 6900096 M 10 x 1 carrying case complete accessories G 1/8 complete accessories 6900098 carrying case

The complete lubricating equipment in a handy carrying case. The carrying case contains everything you need for lubricating anything, especially our UMETA TWIN-LOCK® Ultra Grease Gun 75/PKU according to DIN 1283.

The carrying case kit comes with the practical UMETA hose parking unit. The grease gun can be hung up on the wall by the provided wall bracket, and is thus always at hand. With the many accessories, you will be prepared for any needed application.

Accessories kit, consisting of:

- · hydraulic hose 340/GLN
- · nozzle tube 110/G
- · hydraulic coupling 515/G-4
- · quick-adapter, short version 200/M 4, 200/M 1, 200/M 22, 200/S, 200/XS
- · grease nipple assortment 60s, each 5 pcs. H1/H2/H3 6 x 1, 8 x 1, 10 x 1, R 1/8
- · grease cartridge 400 g (14.0 oz.)
- · hose parking unit at hand lever
- · wall bracket

	Ref. No.:
case without content	6900095

70/PK



Hand Lever Grease Gun with shock-resistant polyamide barrel

- · for 400 g (14.0 oz.) grease cartridges or 500 ccm (16.0 oz.) bulk grease
- · with UMETA TWIN-LOCK® system and patented EVER-Flow system
- · standard air release valve, alternatively with filler valve according to DIN 1283

The extremely light polyamide barrel with the extra band knurls ensures optimal and comfortable handling, even with cold temperatures. The robust material combines the advantages of rust-resistancy and form stability, even with crashes and other impacts.

barrel version shock-resistand polyamide barrel

Ø 60 mm (2 ½")

barrel length 292 mm (11 $\frac{1}{2}$ ") suitable for grease up to NLGI 3

filling capacity 400 g (14.0 oz.) grease cartridge/500 ccm (16.0 oz.) bulk grease

connection thread M 10 x 1 or G 1/8

upon request 1/8 NPT

operating pressure $$400\ \mathrm{bar}\ /\ 5,800\ \mathrm{PSI}$$

delivery capacity approx. 1.9 ccm (0.06 oz.)/stroke

testing pressure 800 bar / 11,600 PSI

gun dimension 400 x 128 x 60 mm (15.7 x 5.0 x 2.36") packed in printed UMETA polybag

printed UMETA polybag or printed UMETA cardboard box

weight 1,000 g (35.3 oz.) + accessories and packaging

Connection	Packed in	Scope of delivery	Ref. No.:
M 10 x 1	polybag	without accessories	V000354
M 10 x 1	polybag	with 340/GLN	V000472
M 10 x 1	polybag	with 110/G	V000550
M 10 x 1	polybag	with $110/G + 340/GLN$	V001002
M 10 x 1	polybag	with filler valve	V000790
M 10 x 1	cardboard box	without accessories	V000350
M 10 x 1	cardboard box	with 340/GLN	V000952
M 10 x 1	cardboard box	with 110/G	V000881
M 10 x 1	cardboard box	with 110/G + 340/GLN	V001118
M 10 x 1	cardboard box	with filler valve	V001466

Connection	Packed in	Scope of delivery	Ref. No.:
G 1/8	polybag	without accessories	V000443
G 1/8	polybag	with 340/GLN	V000637
G 1/8	polybag	with 110/G	V001095
G 1/8	polybag	with $110/G + 340/GLN$	V001211
G 1/8	polybag	with filler valve	V001251
G 1/8	cardboard box	without accessories	V000645
G 1/8	cardboard box	with 340/GLN	V000842
G 1/8	cardboard box	with 110/G	V001094
G 1/8	cardboard box	with 110/G + 340/GLN	V001467
G 1/8	cardboard box	with filler valve	V001468

73/PK



barrel version mo

barrel length suitable for filling capacity

connection thread

made of zinc-plated steel Ø 56 mm (2.2")

200 mm (7.87") grease up to NLGI 3

300 ccm (10.0 oz.) bulk grease

M 10 x 1 or G 1/8

upon request 1/8 NPT

Connection	Packed in	Scope of delivery	Ref. No.:
M 10 x 1	polybag	without accessories	V000211
M 10 x 1	polybag	with 340/GLN	V000549
M 10 x 1	polybag	with 110/G	V000773
M 10 x 1	polybag	with $110/G + 340/GLN$	V001220
M 10 x 1	polybag	with filler valve	V001218
M 10 x 1	cardboard box	without accessories	V000479
M 10 x 1	cardboard box	with 340/GLN	V001479
M 10 x 1	cardboard box	with 110/G	V001096
M 10 x 1	cardboard box	with $110/G + 340/GLN$	V001480
M 10 x 1	cardboard box	with filler valve	V000457

Hand Lever Grease Gun wirth shortened zinc-plated steel barrel

- · for 300 ccm (10.0 oz.) bulk grease
- \cdot with UMETA TWIN-LOCK $\!\!^{\tiny{(\!g\!)}}\!\!$ system and patented EVER-Flow system
- · standard air release valve, alternatively with filler valve according to DIN 1283

operating pressure $$400\ \mathrm{bar}\ /\ 5,800\ \mathrm{PSI}$$

delivery capacity approx. 1.9 ccm (0.06 oz.)/stroke testing pressure 400 bar / 5,800 PSI

gun dimension 345 x 128 x 60 mm (13.6 x 5.0 x 2.36") packed in printed UMETA polybag

l in printed UMETA polybag or cardboard box

weight 1,075 g (37.9 oz.) + accessories and packaging

Connection	Packed in	Scope of delivery	Ref. No.:
G 1/8	polybag	without accessories	V000993
G 1/8	polybag	with 340/GLN	V001227
G 1/8	polybag	with 110/G	V001054
G 1/8	polybag	with $110/G + 340/GLN$	V001224
G 1/8	polybag	with filler valve	V001219
G 1/8	cardboard box	without accessories	V001481
G 1/8	cardboard box	with 340/GLN	V001024
G 1/8	cardboard box	with 110/G	V001097
G 1/8	cardboard box	with 110/G + 340/GLN	V001482
G 1/8	cardboard box	with filler valve	V000458



75/PKM



optionally available: Gun head with pressure release



pressure gauge pressure range up to 400 bar / 5,800 PSI

alternatively with pressure range up to 1,000 bar / 14,500 PSI

available with or without pressure release device

barrel version made of zinc-plated steel

special colours available Ø 56 mm (2.2")

pressure gauge up to 400 bar

Connection	Packed in	Pressure release	Ref. No.:
M 10 x 1	polybag	without	V000485
M 10 x 1	polybag	with	V000712
G 1/8	polybag	without	V000859
G 1/8	polybag	with	V000391

Hand Lever Grease Gun with pressure gauge

- pressure gauge grease gun for the exact control of the lubricating pressure in order to protect pressure-sensitive components, bearings and gaskets
- · for 400 g (14.0 oz.) grease cartridges or 500 ccm (16.0 oz.) bulk grease
- · with high quality zinc-plated steel barrel
- · with UMETA TWIN-LOCK® system und patented EVER-Flow system
- · standard air release valve, alternatively with filler valve according to DIN 1283

barrel length 296 mm (11.6") suitable for grease up to NLGI 3

filling capacity 400 g (14.0 oz.) grease cartridge / 500 ccm (16.0 oz.) bulk grease

connection thread M 10 x 1 or G 1/8 upon request 1/8 NPT

operating pressure 400 bar / 5,800 PSI

output approx. 1.9 ccm (0.06 oz.)/stroke

testing pressure 800 bar / 11,600 PSI gun dimension 480 x 130 x 60 mm (18.9 x 5.1 x 2.36")

packed in printed UMETA polybag

weight 1,555 g (54.8 oz.) + accessories and packaging

pressure gauge up to 1,000 bar

Connection	Packed in	Pressure release	Ref. No.:
M 10 x 1	polybag	without	V000978
M 10 x 1	polybag	with	V000545
G 1/8	polybag	without	V000499
G 1/8	polybag	with	V000392

EcoLube



barrel version blue painted steel barrel RAL 5026

Ø 56 mm (2.2")

barrel length 287 mm (11.3") suitable for grease up to NLGI 3

filling capacity 400 g (14.0 oz.) grease cartridge / 500 ccm (16.0 oz.) bulk grease

connection thread M 10 x 1 or G 1/8

Connection	Packed in	Scope of delivery	Ref. No.:
M 10 x 1	polybag	without accessories	7000000
M 10 x 1	polybag	with extension tube and hydraulic coupler	7000002

Hand Lever Grease Gun

- · for 400 g (14.0 oz.) grease cartridges or 500 ccm (16.0 oz.) bulk grease
- · according to DIN 1283
- · comes with filler valve

The light steel body, the ergonomically formed hand lever, and extra band knurls on the barrel ensure optimal handling.

opperating pressure 400 bar / 5,800 PSI output approx. 1.4 ccm/stroke testing pressure 600 bar / 8,700 PSI

gun dimension 390 x 120 x 55 mm (15.3 x 4.7 x 2.2")

packed in polybag

weight 1,200 g (42.3 oz.) + accessories and packaging

Connection	Packed in	Scope of delivery	Ref. No.:
G 1/8	polybag	without accessories	7000003
G 1/8	polybag	with extension tube and hydraulic coupler	7000005

ONE-HAND GREASE GUNS

85/PK Zinc



barrel version made of zinc-plated steel, special colours available

Ø 56 mm (2.2") 296 mm (11.6")

barrel length 296 mm (11.6") suitable for grease up to NLGI 3

filling capacity 400 g (14.0 oz.) grease cartridge / 500 ccm (16.0 oz.) bulk grease

connection thread M 10 x 1 or G 1/8, upon request 1/8 NPT

upon adjustment to:

operating pressure approx. 150 bar / 2,175 PSI output approc. 1.1 ccm/stroke

pressu

approx. 180 bar / 2,600 PSI approx. 0.7 ccm/stroke

Connection Packed in Scope of delivery Ref. No.: M 10 x 1 polybag without accessories V000715 M 10 x 1 polybag with 340/GLN V000676 M 10 x 1 polybag with 110/G V001190 M 10 x 1 polybag with 110/G + 340/GLNV001189 M 10 x 1 polybag with filler valve V000721 cardboard box M 10 x 1 without accessories V000730 cardboard box with 340/GLN M 10 x 1 V000431 cardboard box with 110/G V001028 M 10 x 1 M 10 x 1 with 110/G + 340/GLNcardboard box V001192 with filler valve cardboard box V000961 M 10 x 1

One-Hand Grease Gun with high quality zinc-plated steel barrel

- · for 400 g (14.0 oz.) grease cartridges or 500 ccm (16.0 oz.) bulk grease
- · with UMETA TWIN-LOCK® system und patented EVER-Flow system
- · standard air release valve, alternatively with filler valve according to DIN 1283

This UMETA TWIN-LOCK® One-hand grease gun offers you many possibilities. The one-hand operation allows for lubricating even hard to reach spots. Our proven powerswitch system provides the opportunity to adjust the grease supply from high volume to high pressure. Just press the button on the handle, and you will obtain optimal performance.

testing pressure 200 bar / 2,900 PSI

gun dimension 403 x 170 x 60 mm (15.8 x 6.7 x 2.36")

packed in polybag

or printed UMETA cardboard box

weight 1,220 g (43.0 oz.) + accessories and packaging

dimensions (L x W x H) 405 x 172 x 77 mm

Connection	Packed in	Scope ot delivery	Ret. No.:
G 1/8	polybag	without accessories	V000369
G 1/8	polybag	with 340/GLN	V000809
G 1/8	polybag	with 110/G	V001195
G 1/8	polybag	with $110/G + 340/GLN$	V001194
G 1/8	polybag	with filler valve	V001187
G 1/8	cardboard box	without accessories	V000548
G 1/8	cardboard box	with 340/GLN	V000858
G 1/8	cardboard box	with 110/G	V001157
G 1/8	cardboard box	with 110/G + 340/GLN	V001196
G 1/8	cardboard box	with filler valve	V001188



Connection	Packed in	Scope of delivery	Ref. No.:
M 10 x 1	polybag	without accessories	V000382
M 10 x 1	polybag	with 340/GLN	V000538
M 10 x 1	polybag	with 110/G	V000997
M 10 x 1	polybag	with $110/G + 340/GLN$	V001469
M 10 x 1	polybag	with filler valve	V000772
M 10 x 1	cardboard box	without accessories	V000210
M 10 x 1	cardboard box	with 340/GLN	V000507
M 10 x 1	cardboard box	with 110/G	V001136
M 10 x 1	cardboard box	with 110/G + 340/GLN	V001470
M 10 x 1	cardboard box	with filler valve	V000454

* special version USA

One-Hand Grease Gun with high quality silver painted steel barrel

- · for 400 g (14.0 oz.) grease cartridges or 500 ccm (16.0 oz.) bulk grease
- · with UMETA TWIN-LOCK® system und patented EVER-Flow system
- · standard air release valve, alternatively with filler valve according to DIN 1283

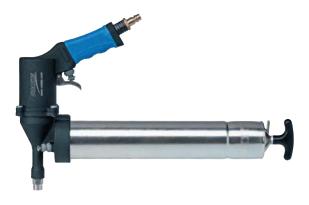
Technical details above.

Connection	Packed in	Scope of delivery	Ref. No.:
G 1/8	polybag	without accessories	V000371
G 1/8	polybag	with 340/GLN	V001471
G 1/8	polybag	with 110/G	V000768
G 1/8	polybag	with $110/G + 340/GLN$	V001472
G 1/8	polybag	with filler valve	V000704
G 1/8	cardboard box	without accessories	V000420
G 1/8	cardboard box	with 340/GLN	V001473
G 1/8	cardboard box	with 110/G	V000771
G 1/8	cardboard box	with 110/G + 340/GLN	V001474
G 1/8	cardboard box	with filler valve	V000421
1/8 NPT	polybag	without accessories	V000617
1/8 NPT	cardboard box	with filler valve*	V000640



AIR-OPERATED GREASE GUNS

DRP 30



Inclusive extension tube and hose with hydraulic coupler



Air-operated grease gun

- · for 400 g (14.0 oz.) grease cartridges or 500 ccm (16.0 oz.) bulk grease
- · continuous grease flow
- · extra light and handy due to aluminium body with ergonomic handle
- · compressed air connection for quick coupling
- · comes with nozzle tube and HP hose according to DIN 1283
- · comes with air release valve and separate filler valve (DIN standard)



barrel version made of zinc-plated steel DIN 1283

special colours available Ø 56 mm (2.2")

barrel length 296 mm (11.6") suitable for grease up to NLGI 3

filling capacity 400 g (14.0 oz.) grease cartridge / 500 ccm (16.0 oz.) bulk grease standard valve air release valve and separate filler valve (DIN standard)

connection thread G 1/8 pressure ratio 40:1

air pressure 3-7 bar, 43.5-100 PSI; recommended air pressure 6 bar/90 PSI

operating pressure 280 bar / 4,060 PSI max.
output approx. 500 ccm/3 min. or 160 ccm (5.1 oz.)/min.
testing pressure 320 bar (4,640 PSI)

gun dimension $405 \times 260 \times 60 \text{ mm} (15.9 \times 10.2 \times 2.36")$ packed in printed UMETA multi colour cardboard box weight 1,385 g (48.8 oz.) + packaging

dimensions (L x Wx H) 425 x 185 x 80 mm (16.7 x 7.3 x 3.15")

Connection	Packed in	Scope of delievery	Ref. No.:
G 1/8	cardboard box	complete with accessories: - HP hose Ø 13 (½") mm, 300 mm (12") length - nozzle tube 110/G each with hydraulic coupler	7437505

PUSH-TYPE AND SCREW-TYPE GREASE GUNS

The UMETA programme offers the optimal solution for all lubricating needs. Either with shock-resistant polyamide bodies, or made of high quality zinc-plated steel, with or without telescopic tube: you will find the right push-type grease guns for all sizes and requirements.

Push-type grease guns stand out for their handiness and easy operability. Light pressure suffices to allow for the effective lubrication of hydraulic nipples, ball-type and flush-type nipples. The UMETA telescopic push-type grease guns are equipped with a telescopic tube and are therefore suitable for harder to reach applications.

With our nozzles, you will find the optimal connection to any lubricating nipple according to DIN. UMETA push-type grease guns are equipped with special nozzles M 9 x 1. Just choose the desired push-type grease gun with the suitable nozzle for your lubricating nipple type from the list!



500



500/S







500/H 500/NS

500/K



Model 30 - 34



barrel version suitable for connection thread packaging shock-resistant polyamide gun body grease up to NLG12 M 9 x 1 bulk

Туре	Connection M 9 x 1	Ref. No.:
30	hollow-type nozzle 500	7130433
30/S	pointed nozzle 500/S	7130133
30/H	hydraulic nozzle 500/H	7130233
30/NS	pin pointed nozzle 500/NS	7130533
30/K	combi nozzle 500/K	7133933

Push-Type Grease Gun made of shock-resistant polyamide

- · form B according to DIN 1282
- · suitable for hydraulic, ball-type, and flush-type nipples

	Type 30	Type 34
filling capacity	60 ccm (2.0 oz.)	150 ccm (4.8 oz.)
operating pressure (approx.)	80 - 120 bar	80 - 120 bar
output per stroke	0.6 ccm (0.02 oz.)	0,6 ccm (0.02 oz.)
total length	165 mm (6 1/2")	200 mm (7 7/8")
tube measurements (\emptyset x L)	30 x 105 mm	42 x 140 mm
	(1.18" x 4.13")	(1.66" x 5.5")
weight	62 g (2.2 oz.)	100 g (3.5 oz.)

Туре	Connection M 9 x 1	Ref. No.:
34	hollow-type nozzle 500	7134433
34/S	pointed nozzle 500/S	7134133
34/H	hydraulic nozzle 500/H	7134233
34/NS	pin pointed nozzle 500/NS	7134533
34/K	combi nozzle 500/K	7135933



Model 36



barrel version suitable for filling capacity zinc-plated body grease up to NLG12 300 ccm (10.0 oz.) bulk grease

connection thread $M 9 \times 1$ opperating pressure approx.

approx. 120 - 200 bar / 1,740 - 2,900 PSI

 Type
 Connection M 9 x 1
 Ref. No.:

 36
 hollow-type nozzle 500
 7136413

 36/S
 pointed nozzle 500/S
 7136113

 36/H
 hydraulic nozzle 500/H
 7136213

Push-Type Grease Gun made of zinc-plated steel

- · form B according to DIN 1282
- · suitable for hydraulic, ball-type, and flush-type nipples

output 0.7 ccm (0.02 oz.)/stroke

tube measurements \emptyset 50 mm x L 155 mm (\emptyset 1.97" x L 6.1")

barrel length 240 mm (9 $\frac{1}{2}$ ")

packaging bulk weight 300 g (10.5 oz.)

Туре	Connection M 9 x 1	Ref. No.:
36/NS	pin pointed nozzle 500/NS	7136313
36/K	combi nozzle 500/K	7136513

Model 40 - 44



bulk

barrel version suitable for connection thread packaging shock-resistant polyamide gun body grease up to NLG12 M 9 x 1 $^{\circ}$

Туре	Connection M 9 x 1	Ref. No.:
40	hollow-type nozzle 500	7140433
40/S	pointed nozzle 500/S	7140133
40/H	hydraulic nozzle 500/H	7140233
40/NS	pin pointed nozzle 500/NS	7140333
40/K	combi nozzle 500/K	7140533

Туре	Connection M 9 x 1	Ref. No.:
42	hollow-type nozzle 500	7142433
42/S	pointed nozzle 500/S	7142133
42/H	hydraulic nozzle 500/H	7142233
42/NS	pin pointed nozzle 500/NS	7142533
42/K	combi nozzle 500/K	7142733

Telescopic Push-Type Grease Gun made of polyamide

- · form A according to DIN 1282
- · with telescopic tube
- · suitable for hydraulic, ball-type, and flush-type nipples

	Type 40	Type 42	Type 44
filling capacity bulk grease	70 ccm (2.4 oz.)	110 ccm (3.5 oz.)	180 ccm (5.8 oz.)
operating pressure (approx.)	140 bar / 2,030 PSI	180 bar / 2,610 PSI	200 bar / 2,900 PSI
output per stroke	0.8 - 1.2 ccm	0.8 - 1.2 ccm	0.8 - 1.2 ccm
	(0.03 - 0.04 oz.)	(0.03 - 0.04 oz.)	(0.03 - 0.04 oz.)
total length	240 mm (9 1/2")	270 mm (10 1/2")	335 mm (13 1/2")
tube measurements (Ø x L)	36 x 100 mm	41 x 110 mm	45 x 135 mm
	(0.42" x 3.94")	(1.62" x 4.33")	(1.78" x 5.31")
weight	100 g (3.5 oz.)	120 g (4.25 oz.)	150 g (5.3 oz.)

Туре	Connection M 9 x 1	Ref. No.:
44	hollow-type nozzle 500	7144433
44/S	pointed nozzle 500/S	7144133
44/H	hydraulic nozzle 500/H	7144233
44/NS	pin pointed nozzle 500/NS	7144533
44/K	combi nozzle 500/K	7144753

Model 46



barrel version zinc-plated body
suitable for grease up to NLGI2
filling capacity 335 ccm (10.7 oz.) bulk grease

connection thread M 9 x 1

operating pressure approx. 200 bar / 2,900 PSI

Туре	Connection M 9 x 1	Ref. No.:
46	hollow-type nozzle 500	7146413
46/S	pointed nozzle 500/S	7146113
46/H	hydraulic nozzle 500/H	7146213

Telescopic Push-Type Grease Gun made of zinc-plated steel

- · form A according to DIN 1282
- · with telescopic tube
- · suitable for hydraulic, ball-type, and flush type nipples

output approx. 1.2 ccm (0.04 oz.)/stroke tube measurements Ø 45 mm x L 250 mm (Ø 1.8" x L 9.8")

total length 565 mm (22 $\frac{1}{4}$ ") packaging bulk

weight 600 g (21 oz.)

Туре	Connection M 9 x 1	Ref. No.:
46/NS	pin pointed nozzle 500/NS	7146313
46/K	combi nozzle 500/K	7146753

Model 21



barrel version zinc-plated body suitable for grease up to NLGI2 filling capacity 150 ccm (4.8 oz.) connection thread M 10 x 1 or R 1/8

operating pressure approx. 8 - 20 bar / 116 - 290 PSI

Connection	Scope of delivery	Ref. No.:
M 10 x 1	without accessories	7611113

Screw-Type Grease Gun made of zinc-plated steel

· metering gun for greases

output approx. 1.8 ccm (0.06 oz.)/turn tube measurements \emptyset 40 mm x L 130 mm (\emptyset 1.6" x L 5.1") total length 180 mm (7")

packaging bulk weight 365 g (12.9 oz.)

Con	nection Sco	ope of delivery	Ref. No.:
R 1/	/8 wit	thout accessories	7611213



OIL GUNS

UMETA oil guns are specially designed for operation with oils and high-viscosity grease, and they are manufactured with the same high quality as the well-established UMETA grease guns. Sealing elements and accessory parts specially desgined for this purpose allow for optimal leakproof oil fittings.

70/PKO



Hand Lever Oil Guns with shock-resistant polyamide barrel

· for 500 ccm (16.0 oz.) oil

We recommend our wall hook, Ref. No. 6900099 for a proper and leakproof storage of the oil gun after use.



barrel version

shock-resistant polyamide barrel

Ø 60 mm (2 1/3")

barrel length

292 mm (11 ½")

suitable for filling capacity

oils and high-viscosity grease

connection throad

500 ccm (16.0 oz.) bulk grease and oil

connection thread

M 10 x 1 or G 1/8

operating pressure

upon request 1/8 NPT 400 bar / 5,800 PSI output testing pressure packed in approx. 1.9 ccm (0.06 oz.)/stroke 800 bar / 11,600 PSI printed UMETA polybag or printed UMETA cardboard box

weight 1,075 g (37.9 oz.)

+ accessories and packaging

Connection	Packed in	Scope of delivery	Ref. No.:
M 10 x 1	polybag	without accessories	V001549
M 10 x 1	polybag	with 340/GLN, incl. oil hydraulic coupling	V001502
M 10 x 1	polybag	with 110/G0	V001550
M 10 x 1	cardboard box	without accessories	V001554
M 10 x 1	cardboard box	with 340/GLN, incl. oil hydraulic coupling	V001555
M 10 x 1	cardboard box	with 110/G0	V001557

Connection	Packed in	Scope of delivery	Ref. No.:
R 1/8	polybag	without accessories	V001551
R 1/8	polybag	with 340/GLN, incl. oil hydraulic coupling	V001553
R 1/8	polybag	with 110/G0	V001552
R 1/8	cardboard box	without accessories	V001558
R 1/8	cardboard box	with 340/GLN, incl. oil hydraulic coupling	V001559
R 1/8	cardboard box	with 110/G0	V001560

43/S and 43/H



barrel version shock-resistant polyamide barrel tube measurements (Ø x L) 41 x 110 mm (1 5%" x 4 1/3") total length 270 mm (10 5%") suitable for oils and high-viscosity grease

filling capacity 110 ccm (3.5 oz.)

connection thread M 9 x 1

Type Scope of delivery Ref. No.: 43/S pointed nozzle 500/S 7143133

Telescopic Push Type Oil Guns

- · form A according to DIN 1282
- · suitable for oils and high-viscosity grease
- · comes with pointed nozzle or hydraulic nozzle

The UMETA telescopic push-type oil guns are equipped with a telescopic tube and are therefore suitable for a precise lubrication. Light pressure suffices to allow for the effective lubrication of hydraulic nipples, ball-type and flush-type nipples.

operating pressure output packaging

180 bar (2,610 PSI) 0.6 ccm (0.02 oz.)/stroke

bulk

weight 120 g (4.2 oz.)

+ accessories and packaging

Туре	Scope of delivery	Ref. No.:
43/H	hydraulic nozzle 500/H	7143233





NOZZLE TUBES

UMETA nozzle tubes in a straight or bent version allow for most simple, tool-free assembly by a polyamide butterfly nut, which guarantees an optimal sealing effect and which makes it possible to stabilize the bent nozzle in any desired position.



90/G

1/8 NPT

V000072

nozzle tubes with connection G 1/8 are marked by a blue butterfly nut

nozzle tubes with connection thread 1/8-NPT upon request

110/G					
	· nozzle tube, bent	· length 170 mm	Туре	Connection	Ref. No.:
	· with hydraulic coupler		110/G	M 10 x 1	V000279
	mm nyanaone ecopion		110/G	G 1/8	V000337
100/G					
•	· nozzle tube, straight	· length 170 mm	Туре	Connection	Ref. No.:
	· with hydraulic coupler	U	100/G	M 10 x 1	V000044
	· will flydidolic coopie		100/G	G 1/8	V000155
110/\$					
, i	· nozzle tube, bent	· length 154 mm	Туре	Connection	Ref. No.:
	· with pointed nozzle		110/S	M 10 x 1	V000316
	Willi politica 1102216		110/S	G 1/8	V000285
100/S					
	 nozzle tube, straight 	· length 154 mm	Туре	Connection	Ref. No.:
	· with pointed nozzle		100/S	M 10 x 1	V000247
	Willi politica 1102210		100/S	G 1/8	V000253
110/H					
	\cdot nozzle tube, bent	· length 150 mm	Туре	Connection	Ref. No.:
	· with hydraulic nozzle		110/H	M 10 x 1	V000103
	Timi nyaraone nozzio		110/H	G 1/8	V000375
100/H					
	· nozzle tube, straight	· length 150 mm	Туре	Connection	Ref. No.:
100	· with hydraulic nozzle		100/H	M 10 x 1	V000076
	Will Hydraolic 1102210		100/H	G 1/8	V000055
95/G					
	· nozzle tube, bent	· without butterfly nut	Туре	Connection	Ref. No.:
		•	95/G	M 10 x 1	V000398
	· with hydraulic coupler	· length 170 mm (6 ½")	95/G	G 1/8	V000154
			95/G	1/8 NPT	V000101
90/G					
	· nozzle tube, straight	· without butterfly nut	Туре	Connection	Ref. No.:
-	· with hydraulic coupler	· length 170 mm (6 ½")	90/G	M 10 x 1	V000074
	/	. 0 (- /2 /	90/G	G 1/8 1/8 NPT	V000054

NOZZLES AND HYDRAULIC COUPLERS

Hollow-type nozzle



- suitable for ball-type and hydraulic-type nipples acc. to DIN 71412 $\begin{array}{ccc} \text{outer } \emptyset & & 12 \text{ mm} \\ \text{height} & & 8.5 \text{ mm} \end{array}$

Туре	Connection	Ref. No.:
500	M 9 x 1	7351461
501	M 10 x 1	V000100
502	G 1/8	V000227

Pointed nozzle



· suitable for flush-type nipples acc. to DIN 3405 outer \emptyset 12 mm height 18 mm

 Type
 Connection
 Ref. No.:

 500/S
 M 9 x 1
 7351161

 501/S
 M 10 x 1
 V000248

 502/S
 G 1/8
 V000254

Pin pointed nozzle



- suitable for height flush-type nipples spanner size acc. to DIN 3405

16 mm e 11

 Type
 Connection
 Ref. No.:

 500/NS
 M 9 x 1
 7351561

 501/NS
 M 10 x 1
 V000246

 502/NS
 G 1/8
 V000252

Hydraulic nozzle



 suitable for ball-type and hydraulic-type nipples acc. to DIN 71412 outer \emptyset 12 mm height 15 mm

 Type
 Connection
 Ref. No.:

 500/H
 M 9 x 1
 7351261

 501/H
 M 10 x 1
 V000104

 502/H
 G 1/8
 V000250

Combo-nozzle hollow/pointed



 suitable for two different applications by just unscrewing/ screwing the desired nozzle outer Ø 12 mm height 28 mm spanner size 11

 Type
 Connection
 Ref. No.:

 500/K
 M 9 x 1
 7351061

 501/K
 M 10 x 1
 7351031

 502/K
 G 1/8
 7351041

Hydraulic coupler



also available with turned jaws upon request



· standard with 4 punched jaws

· suitable for hydraulictype nipples acc. to DIN 71412 outer Ø 15 mm height 36 mm spanner size 13

 Type
 Connection
 Ref. No.:

 515/G
 M 9 x 1
 7353361

 515/G
 M 10 x 1
 V000077

 515/G
 G 1/8
 V000106

 515/G
 1/8 NPT
 V000102

Angled hydraulic coupler



standard with4 punched jaws

· suitable for hydraulic-type nipples acc. to DIN 71412 outer Ø 15 mm height 36 mm width 27 mm spanner size 14

 Type
 Connection
 Ref. No.:

 515/G-S
 M 10 x 1
 7351314

 515/G-S
 G 1/8
 7351315

 515/G-S
 1/8 NPT
 7351317

Hydraulic coupler, heavy-duty hexagon



· standard with 4 punched jaws

suitable for hydraulic-type nipples acc. to DIN 71412

· with ball valve

oil-proof
outer Ø 15 mm
height 48 mm
spanner size 17

 Type
 Connection
 Ref. No.:

 512/G
 M 10 x 1
 7351316

 512/G
 G 1/8
 7351326

 512/G
 1/8 NPT
 7351376

Bayonet coupler



 suitable for bayonet nipples

outer Ø height Spanner size

16.5 mm 37 mm 17

Туре	Connection	Ref. No.:
517/B	M 10 x 1	9140215
517/B	G 1/8	9140216
517/B	1/8 NPT (upon request)	9140217



Button-head coupler



according to DIN 1283

Sidewise connection



Dimensions	M 4	M1+T1	M 22
outer Ø	18.0 mm	24.0 mm	32.0 mm
height	28.5 mm	28.0 mm	38.5 mm
width	31.0 mm	36.0 mm	42.0 mm

Top connection



Dimensions	M1+T1	M 22
outer \emptyset	24.0 mm	32.0 mm
height	28.0 mm	38.5 mm

The UMETA slide coupler is equipped with the hose connection either at the top, or at the side — and it is made of aluminium or steel for optimal handling — according

to each application. You achieve additional flexibility by using a swivel joint.

Туре	Connection	Sidewise	Aluminium	Steel
520	M 10 x 1	M 4, Ø 10 mm	_	V000088
521	M 10 x 1	M 1 + T 1, Ø 16 mm	V000097	V000084
522	M 10 x 1	M 22, Ø 22 mm	V000095	V000096
520	G 1/8	M 4, Ø 10 mm	_	V000085
521	G 1/8	M 1 + T 1, Ø 16 mm	V000331	V000224
522	G 1/8	M 22, Ø 22 mm	V000098	V000321
520	1/8 NPT	M 4, Ø 10 mm	_	V001625
521	1/8 NPT	M 1 + T 1, Ø 16 mm	V000325	V001425
522	1/8 NPT	M 22, Ø 22 mm	V000666	V001426

Туре	Connection	Тор	Aluminium	Steel
520	M 10 x 1	M 4, Ø 10 mm	_	_
521	M 10 x 1	M 1 + T 1, Ø 16 mm	_	7368015
522	M 10 x 1	M 22, Ø 22 mm	_	_
520	G 1/8	M 4, Ø 10 mm	_	_
521	G 1/8	M 1 + T 1, Ø 16 mm	_	_
522	G 1/8	M 22, Ø 22 mm	7368011	7368012

For a flexible assembly between hose and coupler, we recommend using a UMETA swivel joint. With a UMETA swivel joint, the coupler can be turned to any desired position without having to hold the grease gun in an inappropriate

- > Sealing kits for slide coupler, consisting of sealing, spring, and metal ring, are available in different versions and sizes.
- Further special versions upon request, e. g. those for using resins.



Button-head coupler with connection possibility on both sides upon request.

Swivel joint





length	30 mm
weight	11 g
outer Ø	14 mm
cnanner cize	14

position.

Туре	Connection	Ref. No.:
140/G20	M 10 x 1	7331911
140/G20	G 1/8	7331921
140/G20	G 1/4	7331941
140/G20	1/8 NPT	7331925

OIL-PROOF HYDRAULIC COUPLER

Hydraulic coupler



- with ball valve therefore, absolutely oil-proof
- suitable for hydraulictype nipples acc. to DIN 71412
- · standard with 4 punched jaws

outer Ø 15 mm height 36 mm spanner size 13

Туре	Connection	Ref. No.:
515/G0	M 10 x 1	V000330
515/G0	G 1/8	V000361
515/G0	1/8 NPT	V000239

Hydraulic coupler, heavy-duty hexagon



- with ball valve therefore, absolutely oil-proof
- · suitable for hydraulictype nipples acc. to DIN 71412
- standard with4 punched jaws

 $\begin{array}{ccc} \text{outer } \emptyset & & 15 \text{ mm} \\ \text{height} & & 48 \text{ mm} \\ \text{spanner size} & & 17 \end{array}$

Туре	Connection	Ref. No.:
512/G	M 10 x 1	7351316
512/G	G 1/8	7351326
512/G	1/8 NPT	7351376

HIGH PRESSURE HOSES

With UMETA's hoses, you establish an optimal connection between your grease gun and the lubricating spot. Available in two versions and lengths, either without nozzle, or already assembled with the UMETA nozzle of your choice.

Please be aware of smallest allowable bending radius.

ATTENTION: NEVER FOLD!

360/LN



Туре	Connection	Connector	Length	Ref. No.:
360/LN	M 10 x 1	without nozzle	300 mm (12")	V000145
340/GLN	M 10 x 1	hydraulic coupler H	300 mm (12")	V000039
330/LN	M 10 x 1	button head coupler M 4	300 mm (12")	V000366
350/LN	M 10 x 1	button head coupler M $1 + T 1$	300 mm (12")	V000283
354/LN	M 10 x 1	button head coupler M 22	300 mm (12")	V000318
360/LN	G 1/8	without nozzle	300 mm (12")	V000130
340/GLN	G 1/8	hydraulic coupler H	300 mm (12")	V000108
330/LN	G 1/8	button head coupler M 4	300 mm (12")	V001048
350/LN	G 1/8	button head coupler M 1 + T 1	300 mm (12")	V000223
354/LN	G 1/8	button head coupler M 22	300 mm (12")	V000650
360/LN	1/8" NPT	without nozzle	300 mm (12")	V000109
340/GLN	1/8" NPT	hydraulic coupler H	300 mm (12")	V000326
330/LN	1/8" NPT	button head coupler M 4	300 mm (12")	V001662
350/LN	1/8" NPT	button head coupler M 1 + T 1	300 mm (12")	V000682
354/LN	1/8" NPT	button head coupler M 22	300 mm (12")	V000683

High pressure hose Ø 11 mm (0.43")

· DIN 1283

temperature range allowed bending radius max. inner layer reinforcement outer layer -20°C — +60°C (-4 °F - +140 °F) 35 mm (1.37") polyethylene 1 polyester insert polyamide

Туре	Connection	Connector	Length	Ref. No.:
362/LN	M 10 x 1	without nozzle	500 mm (20")	V000312
342/GLN	M 10 x 1	hydraulic coupler H	500 mm (20")	V000041
332/LN	M 10 x 1	button head coupler M 4	500 mm (20")	V000940
352/LN	M 10 x 1	button head coupler M 1 + T 1	500 mm (20")	V000298
356/LN	M 10 x 1	button head coupler M 22	500 mm (20")	V000394
362/LN	G 1/8	without nozzle	500 mm (20")	V000323
342/GLN	G 1/8	hydraulic coupler H	500 mm (20")	V000288
332/LN	G 1/8	button head coupler M 4	500 mm (20")	V001049
352/LN	G 1/8	button head coupler M 1 + T 1	500 mm (20")	V000651
356/LN	G 1/8	button head coupler M 22	500 mm (20")	V000652
362/LN	1/8" NPT	without nozzle	500 mm (20")	V000328
342/GLN	1/8" NPT	hydraulic coupler H	500 mm (20")	V000327
332/LN	1/8" NPT	button head coupler M4	500 mm (20")	V001663
352/LN	1/8" NPT	button head coupler M 1 + T 1	500 mm (20")	V000684
356/LN	1/8" NPT	button head coupler M 22	500 mm (20")	V000685

360/L



 inner Ø
 4.8 mm (0.19")

 outer Ø
 12.5 mm (0.5")

 burst pressure
 1,650 bar / 23,925 PSI

 testing pressure
 800 bar / 11,600 PSI

 operating pressure max.
 415 bar / 6,000 PSI

Туре	Connection	Connector	Length	Ref. No.:
360/L	M 10 x 1	without nozzle	300 mm (12")	V000282
340/GL	M 10 x 1	hydraulic coupler H	300 mm (12")	V000200
330/L	M 10 x 1	slide coupler M 4	300 mm (12")	V001206
350/L	M 10 x 1	slide coupler M 1 + T 1	300 mm (12")	V000311
354/L	M 10 x 1	slide coupler M 22	300 mm (12")	V000653
360/L	G 1/8	without nozzle	300 mm (12")	V000410
340/GL	G 1/8	hydraulic coupler H	300 mm (12")	V000042
330/L	G 1/8	slide coupler M 4	300 mm (12")	V001208
350/L	G 1/8	slide coupler M 1 + T 1	300 mm (12")	V000741
354/L	G 1/8	slide coupler M 22	300 mm (12")	V000761
360/L	1/8" NPT	without nozzle	300 mm (12")	V000521
340/GL	1/8" NPT	hydraulic coupler H	300 mm (12")	V000686
330/L	1/8" NPT	slide coupler M 4	300 mm (12")	V001672
350/L	1/8" NPT	slide coupler M 1 + T 1	300 mm (12")	V000687
354/L	1/8" NPT	slide coupler M 22	300 mm (12")	V000688

high pressure hose 2 SN Ø 13 mm (1/2")

· DIN 1283

 $\begin{array}{lll} \text{temperature range:} & -40\,^{\circ}\text{C} - +100\,^{\circ}\text{C} \; (\text{-}40\,^{\circ}\text{F} \, \text{-} \, \text{+}212\,^{\circ}\text{F}) \\ \text{allowed bending radius max.:} & 90 \; \text{mm} \; (3.5") \\ \text{inner layer} & \text{polyethylene} \\ \text{reinforcement} & \text{double steel wire braid} \\ \text{outer layer} & \text{synth. rubber} \\ \end{array}$

Туре	Connection	Connector	Length	Ref. No.:
362/L	M 10 x 1	without nozzle	500 mm (20")	V000297
342/GL	M 10 x 1	hydraulic coupler H	500 mm (20")	V000294
332/L	M 10 x 1	slide coupler M 4	500 mm (20")	V001207
352/L	M 10 x 1	slide coupler M 1 + T 1	500 mm (20")	V000475
356/L	M 10 x 1	slide coupler M 22	500 mm (20")	V000332
362/L	G 1/8	without nozzle	500 mm (20")	V000471
342/GL	G 1/8	hydraulic coupler H	500 mm (20")	V000496
332/L	G 1/8	slide coupler M 4	500 mm (20")	V001209
352/L	G 1/8	slide coupler M 1 + T 1	500 mm (20")	V001210
356/L	G 1/8	slide coupler M 22	500 mm (20")	V001020
362/L	1/8" NPT	without nozzle	500 mm (20")	V000465
342/GL	1/8" NPT	hydraulic coupler H	500 mm (20")	V000689
332/L	1/8" NPT	slide coupler M 4	500 mm (20")	V001673
352/L	1/8" NPT	slide coupler M 1 + T 1	500 mm (20")	V000490
356/L	1/8" NPT	slide coupler M 22	500 mm (20")	V000691



QUICK-ADAPTERS

 $\mbox{-}\mbox{ for high pressure hoses}$ and nozzle tubes with hydraulic coupler

Quick-adapter, short	· allows for the flexible combination with various UMETA accessory parts	length weight outer Ø	32 mm 45 g 20 mm	Connection M 8 x 1 M 10 x 1 R 1/8	Ref. No.: 9907126 9907127 9907128
200/M 1	· for button-head nipples M 1 (Ø 16) acc. to DIN 3404 · button-head coupler made of aluminium	length height weight outer Ø	105 mm 28 mm 110 g 24 mm	Type 200/M 1	Ref. No.: 7321651
200/M 4	· for button-head nipples M 4 (Ø 10) acc. to DIN 3404 · button-head coupler made of steel	length height weight outer Ø	107 mm 28.5 mm 100 g 18 mm	Type 200/M 4	Ref. No.: 7321851
200/M 22	· for button-head nipples M 22 (Ø 22) acc. to DIN 3404 · button-head coupler made of aluminium	length height weight outer Ø	114 mm 38.5 mm 160 g 32 mm	Type 200/M 22	Ref. No.: 7321751
200/K	· for cardan shafts, with hollow nozzle	length weight	133 mm 80 g	Type 200/K	Ref. No.: 7322451
200/S	· for flush-type nipples acc. to DIN 3405	length weight	92 mm 65 g	Type 200/S	Ref. No.: 7321151
200/XS	· hard to reach areas, for cardan shafts and smallest nipples of any kind	length weight pin point tub outer Ø inner Ø length	95 mm 60 g e 4 mm 0.8 mm 55 mm	Type 200/XS	Ref. No.: 7321551
Quick-adapters in a handy carrying case		consisting each 1 x	of: 200/M 1 200/M 4 200/M 22 200/K 200/S 200/XS swivel joint		Ref. No.: 9230004

WALL BRACKETS

- Wall bracket for UMETA TWIN-LOCK® Grease Guns







With the robust wall bracket made of zinc plated steel you obtain a steady-state greasing station for your UMETA grease gun.

After having mounted the bracket to the wall, the grease gun will be fixed with the clamping collar.

Now, the grease nipple has to be connected with hose and nozzle and can be lubricated very comfortable directly from the wall station.

For changing the grease cartridge the gun tube can be removed while the grease gun remains in the bracket.

Туре	Ref. No.:
Wall bracket (open version), cpl. set	7092100
Wall bracket (closed version), cpl. set	7092110
Wall hook	6900099

GREASE CARTRIDGES

UMETA grease cartridges according to DIN 1284



filling quantity thaw point NLGI class packing unit 400 g (14.0 oz.) 180 °C/356 °F 2 24 pcs.

Packing unit	Ref. No.:
24 pcs.	7371953

Super lithium multipurpose grease

- · cartridge according to DIN 1284
- · suitable for lubricating normally strained bearings
- · suitable for all grease guns according to DIN 1283
- · universally applicable

application temperature upon permanent operation $-30~^{\circ}\text{C/}-22~^{\circ}\text{F up to}\\ +120~^{\circ}\text{C/}~248~^{\circ}\text{F}\\ \text{temporarily} \text{up to } +130~^{\circ}\text{C/}266~^{\circ}\text{F}$



GARAGE EQUIPMENT

Get the practical devices for daily works in the garage from UMETA as well!

We offer you the complete programme of handling systems, such as suction and filling devices, or fully equipped grease gun carrying cases, e. g.



SUCTION GUNS

Suction Guns are practical and reliable devices for suction and delivery of oils and highviscosity grease. They stand out by their ergonomic handle, robust design, and they are easy to operate.

For an optimal sealing effect, they are always equipped with a double sleeve. Here, too, we carry a complete accessories programme, e. g. connection nozzle tubes and flexible hoses.



Type 2



barrel version made of zinc-plated steel

Ø 42 mm (1.65")

260 mm (10.2") barrel length

for oil and high-viscosity grease suitable

250 ccm (8.75 oz.) filling capacity

M 10 x 1 connection thread

Suction Gun

· for a 250 ccm content

packed in

polybag or bulk

weight 440 g (15.5 oz.)

+ accessories and packaging

dimensions

42 x 290 mm (1.65" x 11.4")

Connection	Ref. No.:
M 10 x 1	7222143

Type 3



barrel version zinc-plated steel, yellow passivated

Ø 50 mm (2.0")

barrel length 295 mm (11.6")

for oil and high-viscosity grease suitable

filling capacity 500 ccm (17.5 oz.)

connection thread M 10 x 1

Connection Ref. No.: 7233113 M 10 x 1

Suction Gun

· for a 500 ccm content

packed in polybag

or bulk

560 g (19.8 oz.) weight

+ accessories and packaging

dimensions 56 x 350 mm (2.2" x 13.8")



Type 4

barrel length



barrel version zinc-plated steel, yellow passivated

Ø 56 mm (2.2") 446 mm (17.6")

suitable for oil and high-viscosity grease

filling capacity 1,000 ccm (35.0 oz.)

connection thread M 13 x 1

Connection	Ref. No.:
M 13 x 1	7244313

Suction Gun

· for a 1,000 ccm content

packed in polybag or bulk

weight 1,065 g (37.6 oz.)

+ accessories and packaging

dimensions 61 x 530 mm (2.4" x 20.9")

Type 2/V



Suction Gun with reversing valve

· for a 250 ccm content



The reversing valve of type 2/V allows for most simple transfer of liquids from one container to another.

barrel version made of zinc-plated steel

Ø 42 mm (1.65")

barrel length 270 mm (10.6")

suitable for oil and high-viscosity grease

filling capacity 250 ccm (8.75 oz.)

packed in

polybag

or bulk

weight 580 g (20.5 oz.)

+ packaging

dimensions 42 x 360 mm (1.65" x 14.2")

Ref. No.: 7212443

Filling cylinder



barrel version made of zinc-plated steel

Ø 56 mm (2.2")

barrel length 370 mm (14.6")

suitable for grease and high-viscosity grease

filling capacity 400 g (14.0 oz.) grease cartridge / 500 ccm (17.5 oz.) bulk grease

for central lubrication systems

- for fast filling of central lubrication systems with grease and high-viscosity grease
- · suitable for bulk grease and for grease cartridges of 400 g

packed in polybag

or bulk

weight 960 g (33.9 oz.)

+ packaging

dimensions 64 x 460 mm (2.5" x 18.1")

Ref. No.: 5556010

ACCESSORIES FOR SUCTION GUNS

UMETA's high quality suction gun accessories let you handle any job easily!







transparent, flexible hose

 $\boldsymbol{\cdot}$ for decanting fluid contents



Туре	Connection	Total length	Ref. No.:
SDF 10	M 10 x 1	300 mm (11.8")	7277113

Туре	Connection	Total length	Ref. No.:
SDF 13	M 13 x 1	300 mm (11.8")	7277313

SDK



Nozzi	e 1	ub
-------	-----	----

· bent

Туре	Connection	Total length	Ref. No.:
SDK 10	M 10 x 1	190 mm (7.5")	7265113

Type	Connection	Total length	Ref. No.:
SDK 13	M 13 x 1	250 mm (9.8")	7266313

SDG





Nozzle tube

· straight

Туре	Connection	Total length	Ref. No.:
SDG 13	M 13 x 1	250 mm (9.8")	7256313



OTHER GARAGE EQUIPMENT

UMETA TWIN-LOCK® Ultra Case Kit





The complete lubricating equipment in a handy carrying case, which contains everything you need for any application, especially our **UMETA TWIN-LOCK® Ultra Grease Gun 75/PKU according to DIN 1283**. The carrying case kit comes with the practical UMETA hose parking unit. The grease gun can be hung up by the provided wall bracket, and is thus always at hand.

UMETA TWIN-LOCK® Ultra Grease Gun 75/PKU Top model, which combines quality, function and design.

- · for 400 g (14.0 oz.) grease cartridge / 500 ccm (17.5 oz.) bulk grease
- · ergonomic grips made of anti-slip material
- · filler valve, DIN 1283 included
- · with TWIN-LOCK system and patented EVER-Flow system

Accessories kit, consisting of:

- · high pressure hose 340/GLN
- · nozzle tube 110/G
- · hydraulic coupler 515/G-4
- quick-adapter, as short version
 200/M 4, 200/M 1, 200/M 22, 200/S, 200/XS
- \cdot grease nipple assortment 60s, each 5 pcs. H1/H2/H3 6 x 1, 8 x 1, 10 x 1, R 1/8
- · grease cartridge 400 g
- · hose parking unit at hand lever
- · wall bracket

Connection	Packaging	Scope of delivery	Ref. No.:
M 10 x 1	carrying case	complete accessories	6900096
G 1/8	carrying case	complete accessories	6900098

	Ref. No.:
case without content	6900095

Portable Lubrication System CARRY-LUBE



- · hand- or foot operated high pressure equipment
- · for 2.5 kg grease bucket (diameter 160 mm)
- · adjustable for greasing with high volume or high pressure
- · with high-pressure grease gun up to 690 bar / 10,000 PSI
- · connected with 1.5 m hose
- · capable for approx. 30 high pressure shots

suitable for	grease up to NLGI 2	packed in	single carton box
length of suction tube	150 mm (5.9")	gross weight	4,330 g
output	max. 1.25 g (0.044 oz.) per shot	net weight	4,030 g
	(approximately 30 shots per loading)	dimensions (L x W x H)	200 x 215 x 460 mm
operating pressure	max. 690 bar (10,000 PSI)		

Packaging	Ref. No.:
cardboard box	9626825



UMETA Filling Device for Grease Guns

All grease guns with a DIN filler valve can be filled from the bucket easily and safely by the inclined filling coupler. With variable screw-on features, the filling devices work with all common bucket sizes. The loose lid protects against dirt and grime and serves for simple control of filling height at the same time.

delivery capacity	30 ccm (1.1 oz.)/stroke	packed in	cardboard box
operating pressure	8 bar / 1.2 PSI	weight	in kgs, incl. packaging

Content	Grease Bucket	Bucket height max.	Weight	Dimensions (L x W x H)	
grease bucket	Ø	in mm (inches)	in kgs	in mm	Ref. No.:
5 kg	180 - 210 mm	510 (20")	3.8	670 x 420 x 100	7591783
10 kg	210 - 240 mm	510 (20")	3.9	670 x 420 x 100	7591883
15 kg	240 - 270 mm	510 (20")	4.3	670 x 420 x 100	7591483
20 kg	270 - 310 mm	510 (20")	4.8	670 x 420 x 100	7591983
25 kg	310 - 335 mm	680 (26.8")	5.4	670 x 420 x 100	7591583
50 kg	335 — 385 mm	680 (26.8")	6.5	800 x 420 x 100	7591683



UMETA Handlever Oil Barrel Pump (steel tube)

- · with telescopic tube and steel discharge elbow
- · for 60/200/220 ltr. drums
- · suitable for motor, hydraulic, and gear oil, diesel, petroleum, heating oil, waste oil

suitable for	motor, hydraulic, and	total height	1,250 mm (49.2")
	gear oils up to SAE 50	total width	520 mm (20.5")
tube type	made of zinc-plated steel	net weight	1,800 g (63.5 oz.)
length/dip depth	440 - 860 mm (17.3" - 33.9")	packed in	cardboard box
tube Ø	25 - 35 mm (1.0" x 1.4")	gross weight	1,900 g (67 oz.)
drum thread	2"	dimensions (L x W x H)	460 x 140 x 70 mm
delivery capacity	16 ltr. (541 oz.)/min.		(18.1 x 5.5 x 2.75")
	300 ccm (10.1 oz.)/stroke		

Packaging	Ref. No.:
cardboard box	9626830



UMETA Rotary Oil Barrel Pump

- · with steel tube and steel discharge elbow
- · for 60/200/220 ltr. drums
- · comes with: 1 m PVC hose with fold protection spring, 2 hose clamps

tube type	made of zinc-plated steel	total width	210 mm (8.3")
length/dip depth	980 mm (38.6")	net weight	4,800 g (169 oz.)
tube Ø	25 - 35 mm (1.0" x 1.4")	packed in	cardboard box
drum thread	2"	weight	4,900 g (173 oz.)
delivery capacity	35 ltr. (1,183 oz.)/min.	dimensions (L x W x H)	360 x 160 x 130 mm
total heigth	1,250 mm (49.2")		(14.2 x 6.3 x 5.1")

Packaging	Ref. No.:
cardboard box	9626820



UMETA Oil Cans *



Туре	Nominal content	Connection	Net weight	Ref. No.:
K 200 flex	200 ml	flexible hose	195 g	7522224
K 300 flex	300 ml	flexible hose	215 g	7523224
K 500 flex	500 ml	flexible hose	235 a	7525224

Stand out for the following advantages:

- · precision double-pumping system made of brass
- · high pressure performance
- · large filling hole
- \cdot red stove enamelling
- · easy to disassemble, therefore, easy to clean
- · enormously stable due to large bottom
- \cdot packed: 12 pcs. per size in cardboard box



Size	Packing unit	Ref. No.:
0.5 ltr.	15 pcs.	9626700
1.0 ltr.	15 pcs.	9626701
2.0 ltr.	10 pcs.	9626702
5.0 ltr.	4 pcs.	9626705

- · made of especially stable red/ecru polyamide
- · available in different sizes

Please note our packing units!



The flexible spout is available for all different can sizes and facilitates filling without additional funnel use.

3126	racking unii	Kei. No.:
1.0, 2.0 + 3.0 ltr.	loose packaging	9626708

Measuring Cups *



Size	Packing unit	Ref. No.:
0.25 ltr.	25 pcs.	9626725
0.5 ltr.	16 pcs.	9626800
1.0 ltr.	12 pcs.	9626801
2.0 ltr.	12 pcs.	9626802
3.0 ltr.	10 pcs.	9626803
5.0 ltr.	5 pcs.	9626805

- · made of transparent polyamide
- · available in different sizes
- · embossed labelling

Please note our packing units!

^{*} We reserve to modify colour and form.

Funnels *



Туре	Size (in mm)	Packing unit	Ref. No.:
kit of 4	Ø 60/80/100/120	10 pcs.	9626103
one size	Ø 100	12 pcs.	9626109
one size	Ø 140	12 pcs.	9626140

Funnels made of especially stable red polyamide, available in different sizes and kits. The funnels are available both with and without filter screen, partially equipped with flexible plastics or brass hose, or a bent plastics tube, respectively.

Please note our packing units!

Туре	Size (in mm)	Packing unit	Ref. No.:
with filter and flex hose, polyamide	Ø 210	12 pcs.	9626396

Other versions upon request.

Washing tub, 6.0 ltr. *



 Packing unit
 Ref. No.:

 6 pcs.
 9626810

· made of especially stable red polyamide

UMETA grease cartridges according to DIN 1284 *



filling quantity 400 g/14.0 oz. thaw point 180 °C/356 °F NLGI class 2 packing unit 24 pcs.

Packing unit	Ref. No.:
24 pcs.	7371953

Super lithium multipurpose grease

- · cartridge according to DIN 1284
- · suitable for lubricating normally strained bearings
- suitable for all grease guns according to DIN 1283
- · universally applicable

application temperature
upon permanent operation
-30 °C
up to temporarily
up to -

-30 °C/ -22 °F up to +120 °C/ 248 °F up to +130 °C/266 °F

^{*} We reserve to modify colour and form.



INJECTION GUNS



75/PKI Zinc



barrel version

barrel length suitable

filling capacity connection thread made of zinc-plated steel Ø 56 mm (2.2")

295 mm for resin

550 ccm (17.5 Oz.) bulk grease M 10 x 1 or G 1/8

upon request 1/8 NPT

Connection	Packed in	Scope of delivery	Ref. No.:
M 10 x 1	polybag	without accessories	7091156

Injection gun

· for 550 ccm (17.5 oz.) filling material

· with rolled, zinc-plated steel cap

operating pressure output

approx. 1.9 ccm (0.06 oz.)/stroke testing pressure 800 bar / 11,600 PSI polybag

packed in 960 g (33.9 oz.) weight

+ accessories and packaging

 $400 \, \text{bar} / 5,800 \, \text{PSI}$

356 x 125 x 67.5 mm (14.0 x 4.9 x 2.6") dimensions (L x W x H)

Connection	Packed in	Scope of delivery	Ref. No.:
G 1/8	polybag	without accessories	7091157

75/PKI Zinc



barrel version made of zinc-plated steel Ø 56 mm (2.2")

barrel length 296 mm suitable for resin

filling capacity 550 ccm (17.5 Oz.) bulk grease connection thread M 10 x 1 or G 1/8, upon request 1/8 NPT

Connection	Packed in	Scope of delivery	Ref. No.:
M 10 x 1	polybag	without accessories	V000334

Injection gun

- · für 550 ccm (17.5 oz.) filling material
- · with orange polyamide cap

operating pressure 400 bar / 5,800 PSI

output approx. 1.9 ccm (0.06 Oz.)/stroke

testing pressure 800 bar / 11,600 PSI

packed in polybag

weight 960 g (33.9 oz.) + accessories and packaging dimensions (L x W x H) $356 \times 125 \times 67.5 \text{ mm}$ (14.0 x 4.9 x 2.6")

Connection	Packed in	Scope of delivery	Ref. No.:
G 1/8	polybag	without accessories	V001440

75/LLI Zinc



barrel version made of zinc-plated steel

Ø 56 mm (2.2")

barrel length 485 mm suitable for resin

filling capacity 1,100 ccm (35 oz.) bulk material connection thread M 10 x 1 or G 1/8, upon request 1/8 NPT

Connection	Packed in	Scope of delivery	Ref. No.:
M 10 x 1	polybag	without accessories	V000340

Injection gun

- long version for 1,100 ccm (35 oz.) filling material
- · with orange polyamide cap

operating pressure 400 bar / 5,800 PSI

output approx. 1.9 ccm (0.06 Oz.)/stroke

testing pressure 800 bar / 11,600 PSI

packed in polybag

weight 1,230 g (43.4 oz.) + accessories and packaging dimensions (L x W x H) 545 x 125 x 67.5 mm (21.5 x 4.9 x 2.6")

Connection	Packed in	Scope of delivery	Ref. No.:
G 1/8	polvbaa	without accessories	V001478

75/LLI Zinc



barrel version made of zinc-plated steel

Ø 56 mm (2.2")

barrel length 453 mm suitable for resin

filling capacity 1,000 ccm (32 oz.) bulk grease connection thread M 10 x 1 or G 1/8, upon request 1/8 NPT

Connection	Packed in	Scope of delivery	Ref. No.:
M 10 x 1	polybaa	without accessories	7091312

Injection gun

- · long version for 1,000 ccm (32 oz.) filling material
- · with zinc-plated steel screw cap

operating pressure 400 bar / 5,800 PSI

output approx. 1.9 ccm (0.06 Oz.)/stroke

testing pressure 800 bar / 11,600 PSI

packed in polybag

weight 1,260 g (44.4 oz.) + accessories and packaging dimensions (L x W x H) 513 x 125 x 67.5 mm (20.2 x 4.9 x 2.6")

Connection	Packed in	Scope of delivery	Ref. No.:
G 1/8	polybag	without accessories	upon request



GREASE NIPPLES

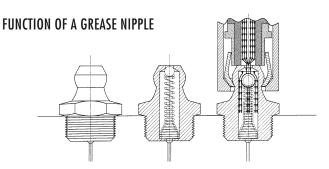
Maintaining permanent motion!

They are small and inconspicuous, but responsible for keeping machines and all kinds of equipment in motion - whether in a harvester in Russia, a pipeline in Alaska, or a brewery in Australia. There is a UMETA Grease Nipple for every application purpose in most sizes, types and composition. With a range of more than 1,500 different types of nipples with about 70 different thread forms, we offer the largest product line worldwide.

Depending on the application and the installation sites, we can manufacture grease nipple according to international standards. Other than a standard version made of steel, zinc-plated and passivated, we offer many other types, made of brass or stainless steel. You will always find a solution in our range of products - even for the most challenging application. Rely on us - since we are manufacturer and not a dealer - for about 80 years!

UMETA GREASE NIPPLES - ADVANTAGES AT A GLANCE

- · 1,500 available types
- · hydraulic-type-, ball-type-, flush-type-, bayonet-, and button-head nipples
- standard versions made of zinc-plated steel, stainless steel, or brass
- · case-hardened according to DIN
- international product standards
 (e. g. DIN, ISO, SAE, BS, JIS)
- · individual, custom-designed solutions
- · individual packaging according to customers requirements



TASKS OF A GREASE NIPPLE

- protection of the lubrication point against dirt and humidity — no sealing against internal pressure
- · standardized connection to the grease gun
- · essential for maintenance and repairs

RANGE OF APPLICATIONS

- bearings
- · hinges for machines, vehicles, industry
- · cardan shafts
- · drive shafts
- · linear guides
- · hydraulic cylinders
- · drives
- · chains
- · axels

GREASE NIPPLES ARE MANUFACTURED OF

brass: CuZn39 Pb3 (CW614N)

- · steel: 1.0718 (11SMnPb30+C) SAE 12L13
- stainless steel: 1.4305 ~ ASTM303 (SST303);
 1.4401, 1.4404 ~ ASTM316, 316L (SST316L)



In order to allow for a proper lubrication with all common grease guns, the

head space, which is necessary for installation, should be considered (please

UMETA HYDRAULIC-TYPE GREASE NIPPLES ACCORDING TO DIN 71412

APPLICATION AREA

UMETA hydraulic-type nipples are suitable for all standard lubrication points, which have to be frequently lubricated in a reliably way. Due to their multi-purpose field of application, they are the most commonly used types of grease nipples.

VERSIONS

In general, our hydraulic-type grease nipples according to DIN are made of steel, case-hardened, zinc-plated and passivated, and they are featured with a tapered thread. The head diameter is 6.5 (-0.2) mm / 0.256" (-0.008"). For safety reasons and in order to avoid abrasion wear, the standard demands 550 HV as a minimum for a surface hardness. Therefore, we operate this decisive process in our own curing oven. We offer various standard types also in brass or stainless steel $1.4305 \sim$ ASTM 303 and 1.4404 ~ ASTM 316L (V2A/V4A). Of course, our hydraulictype nipples are also available in different angle versions, with a self-forming thread, or as drive-in type.

SPECIAL VERSIONS

Upon request, UMETA manufactures hydraulic-type nipples in other versions, with respect to the following:

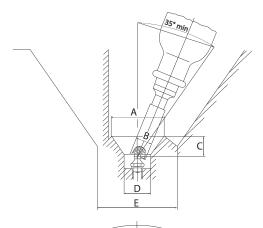
- · dimension
- · material
- · thread size
- · thread form (e.g. with cylindrical thread)
- · opening pressure
- · surface colour (e.g. yellow passivated)
- · further surface treatment
- · unhardened

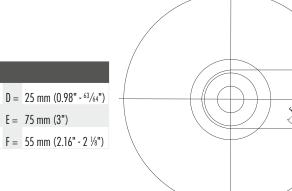
see table with dimensions).

MOUNTING INSTRUCTIONS

OPERATING INSTRUCTIONS As suitable lubricating nozzle, we recommend our hydraulic couplers.









Head space

A = 50 mm (1.97")

B = 16.5 mm (0.65")

 $C = 19 \text{ mm } (0.75" - \frac{3}{4}")$

E = 75 mm (3")

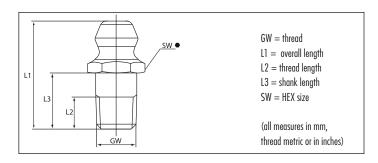




Type H1

Hydraulic-Type Grease Nipples

- according to DIN 71412
- \cdot straight version A/180 $^\circ$
- · standard versions according to DIN are made of steel, case-hardened, zinc-plated and passivated
- · for other types and materials, please see table, or upon request



GW	M	5 x	0.8		Ref No.:			
L1	L2	L3	SW		Steel	Brass	SST303	SST316L
15	5.5		7mm HI	EX 👄	1100701	1110701	1120701	
(O)44			A 77					
GW			0.75		Ref No.:	_		
Ll	L2	L3	SW		Steel	Brass	SST303	SST316L
15	5.5		7mm HI			1110703	1120703	
24	6	14	7mm HI		5241056			
29	8.3	19	7mm HI	EX lue	5241059			
GW	M	6 x	1.0		Ref No.:			
LI	L2	L3	SW		Steel	Brass	SST303	SST316L
13.5	4		7mm HI	EV 🛋		5241101		3310101
15.5	5.5		7 mm HI		02007	1110704	1120704	1140704
17.3	5.6	8.5	7mm HI		5241038	1110/04	1120/04	1110/01
24	6	14	7 mm HI		5241057			
29	8.3	19	7mm H		*5241060			
41	6	31	7mm HI		5313742			
15	5.5	01	11mm HI		1101104		1121104	
GW		7 x			Ref No.:			
Ll	L2	L3	SW		Steel	Brass	SST303	SST316L
15	5.5		9mm HI	EX 🕳	1100905			
GW	M	2 v	0.75		Ref No.:			
LI	L2	L3	SW		Steel	Brass	SST303	SST316L
15	5.5	LJ	9mm HI	EV 🛋	1100906	DIUSS	331303	JJIJIUL
13	5.5		/111111 111		1100700			
GW	M	8 x	1.0		Ref No.:			
LI	L2	L3	SW		Steel	Brass	SST303	SST316L
15	5.5		9mm HI	EX 🕳	1100907	1110907	1120907	1140907
18.5	8.5		9mm HI	EX 🕳	5241009			

Ref.- No.:

Brass

Steel

SST316L

SST303

1100908 1110908 1120908 1140908

GW	M	10 x	1.0	Ref No.:			
Ll	L2	L3	SW	Steel	Brass	SST303	SST316L
15	5.5		11mm HEX ●		1111109	1121109	1141109
17.5	7.5		11mm HEX ■	5241074			
GW	M	10 x	1.25	Ref No.:			
LI	L2			Steel	Brass	SST303	SST316L
15	5.5		11mm HEX ●	1101110			
GW	M	10 x	1.5	Ref No.:			
LI	L2	L3	SW	Steel		SST303	SST316L
15	5.5		11mm HEX ●			1121111	
GW	AA.	12 x	1.0	D (11			
Ll	L2	12 X	SW	Ref No.: Steel		SST303	SST316L
17.5		LJ		1101412	DIUSS	331303	331310L
17.5	0.5		14IIIIII IILA	1101712			
2111							
GW			1.25	Ref No.:			
L1	L2	L3	SW TIEV =	Steel	Brass	SST303	SST316L
17.5	6.5		14mm HEX ■	1101413			
GW	M	12 x	1.5	Ref No.:			
Ll	L2	L3		Steel	Brass	SST303	SST316L
17.5	6.5		14mm HEX 🔷	1101414	11111414	1121414	
GW	M	12 x	1.75	Ref No.:			
Ll	L2	L3	SW	Steel		SST303	SST316L
17.5	6.5		14mm HEX 🖝	1101415		1121415	
GW	M	14 x	1.5	Ref No.:			
Ll	L2		SW	Steel	Brass	SST303	SST316L
17.5			14mm HEX ●	1101417			
GW	AA	14 x	2.0	Daf Na			
Ll	L2	L3	SW	Ref No.: Steel	Brass	SST303	SST316L
17.5	6.5	LU	14mm HEX ◆	1101418	ננטוע	331000	331010L
	0.0						
CHI		1/	1.5				
GW		16 x		Ref No.:	D	CCTOOO	CCT21/1
10 10	L2	L3	SW	Steel 1101719	Brass	SST303	SST316L
18	7		17mm HEX 👄	1101/19			

M 8 x 1.25

SW

9mm HEX

GW

L1 L2

15

5.5

GW R 1/8, 1/8 - 28 BSP				Ref No.:			
L1	L2	L3 S	W	Steel	Brass	SST303	SST316L
43	6	33**	9mm HEX 👄	5241070			
15	5.5		11mm HEX ●	1101156	11111156	1121156	1141156

GW	R	1/4,	1/4 - 19 BSP	Ref No.:			
L1	L2	L3	SW	Steel	Brass	SST303	SST316L
17.5	6.5		14mm HEX ●	1101457	11111457	1121457	1141457
10	ρ		1/mm HEY	52/1071			

GW	R:	3/8,	3/8 - 19 BSP	Ref No.	:		
Ll	L2	L3	SW	Steel	Brass	SST303	SST316L
18	7		17mm HEX 🖝	1101758	}	1121758	

GW	1/	8" - 27	7 NPT/PTF	Ref No.:			
Ll	L2	L3	SW	Steel	Braass	SST303	SST316L
45	6.5	35**	9mm HEX	5241076			
65	8	55**	9mm HEX	5241077			
15	5.5		11mm HEX ●	1101167	11111167		
17	6.5		11mm HEX ●				1141167
17.5	6.5	7.5	11mm HEX ●	5241024	5241105	5241106	
31	6	21	11mm HEX ●	5241075			

GW	1/	4" - 1	8 NPT/PTF	Ref No.:				
Ll	L2	L3	SW	Steel	Brass	SST303	SST316L	
17.5	6.5		14mm HEX 👄	1101468				
19	8		14mm HEX	5241072				
21	9		14mm HEX ◆				1141468	

GW	1/	4" - 2	8 NF/UNF/SAE	Ref No.:			
L1	L2	L3	SW	Steel	Brass	SST303	SST316L
13.5	4		7mm HEX 👄	5241054	5241103		
15	5.5		7mm HEX	1100737	1110737	1120737	
17.3	5.6	8.5	7mm HEX 👄	5241055			
24	6	14	7mm HEX	5241058			
29	8.3	19	7mm HEX ■	5241061			
41	6	31	7mm HEX 👄	5241080			

GW	1/	4" - 2	6 BSF	Ref No.:			
L1	L2	L3	SW	Steel	Brass	SST303	SST316L
15	5.5		7mm HEX 👄	1100744	1110744	1120744	
29	8.3	19	7mm HEX	5241062			

GW	1/	4" BS	W	Ref No.:				
Ll	L2	L3	SW	Steel	Brass	SST303	SST316L	
15	5.5		7mm HEX ●	110075	50			

GW	5/1	6" -	24 NF/UNF/SAE	Ref No.:			
L1	L2	L3	SW	Steel	Brass	SST303	SST316L
14	4		9mm HEX 👄	5241068			
15	5.5		9mm HEX ◆	1100938	1110938	1120938	

GW	5/	'16" -	· 22 BSF	Ref No.:				
L1	L2	L2 L3 SW			Brass	SST303	SST316L	
15	5.5		9mm HEX 👄	110094	5			

GW	5/	16" E	SW		Ref No.:				
L1	L2	L3	SW		Steel	Brass	SST303	SST316L	
15	5.5			9mm HEX	110095	1			

GW	3/	'8" - 1	18 NPT/PTF	Ref No.:					
Ll	L2	L2 L3 SW		Steel	Brass	SST303	SST316L		
18	7		17mm HEX 🕳	110176	9				

GW	3/	3/8" - 20 BSF			Ref No.:					
Ll	L2	L3	SW	Steel	Brass	SST303	SST316L			
15	5.5		11mm HEX 🖝	1101146	,)					

GW	3/8	B" -	24 NF/UNF/SAE	Ref No.:			
L1	L2	L3	SW	Steel	Brass	SST303	SST316L
15	5.5		11mm HFX	1101139	1111139	1121139	

GW	3/	'8" BS	W	Ref No.:				
Ll	L2	L2 L3 SW		Steel	Brass	SST303	SST316L	
15	5.5		11mm HEX 👄	110115	2			

(GW	1/	'2" - <i>1</i>	20 UNF/NF/SAE	Ref No.:	:		
L1	L2	L3	SW	Steel	Brass	SST303	SST316L
17.5	6.5		14mm HEX 👄	1101440			

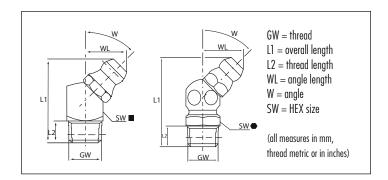


Type H2



Hydraulic-Type Grease Nipples

- · according to DIN 71412
- \cdot angled version B/45 $^{\circ}$ /67 $^{\circ}$
- · optionally available with square or hexagonal body
- · standard versions according to DIN are made of steel, zinc-plated and passivated, head case-hardened
- · with tapered thread
- · for other types and materials, please see table, or upon request



GW	M	5 x 0	8.			Ref No.:			
Ll	L2	WL	W	SW		Steel	Brass	SST303	SST316L
23.5	5.5	10.5	45°		9mm HEX	1200901			
GW	AA	6 x 0	75			5 ()			
Ll		WL	W	SW		Ref No.:	D	SST303	SST316L
	L2		45°	244	0	Steel	Brass	221202	221210F
20.5	5.5	10.5	45°		9mm SQ. ■ 9mm HEX ●	1204503			
23.5	5.5	10.5	45		9mm HEX ■	1200903			
0111		, .							
GW		6 x 1				Ref No.:			
Ll	L2	WL	W	SW		Steel	Brass	SST303	SST316L
20.5	5.5	10.5	45°		9mm SQ. ■	1204504			
23.5	5.5	10.5	45°		9mm HEX ●	1200904	1210904	1220904	1240904
17.5	5.5	12.3	67°		9mm SQ. ■	1404504			
20.5	5.5	12.2	67°		9mm HEX	1400904			
GW	M	7 x 1	.0			Ref No.:			
L1	L2	WL	W	SW		Steel	Brass	SST303	SST316L
23.5	5.5	10.5	45°		9mm HEX 👄	1200905			
GW	M	8 x 0	75			Ref No.:			
LI	L2	WL	W	SW		Steel	Brass	SST303	SST316L
23.5	5.5	10.5	45°	311	9mm HEX	1200906	Diuss	331303	331310L
20.3	J.J	10.5	TJ		/IIIIII IILX	1200700			
GW	M	8 x 1				Ref No.:			
L1	L2	WL	W	SW		Steel	Brass	SST303	SST316L
20.5	5.5	10.5	45°		9mm SQ. ■	1204507			
23.5	5.5	10.5	45°		9mm HEX 🖝	1200907	1210907	1220907	1240907
17.5	5.5	12.3	67°		9mm SQ. ■	1404507			
20.5	5.5	12.2	67°		9mm HEX	1400907			
GW	M	8 x 1	.25			Ref No.:			
LI	L2	WL	W	SW		Steel	Brass	SST303	SST316L
20.5	5.5	10.5	45°		9mm SQ. ■	1204508			
23.5	5.5	10.5	45°		9mm HEX ●	1200908	1210908	1220908	
20.5	5.5	12.2	67°		9mm HEX	1400908			

				_				
GW	M	10 x	1.0		Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
20.5	5.5	11	45°	11mm SQ. ■	1204709			
25	5.5	11.5	45°	11mm HEX ●	1201109	1211109	1221109	1241109
26	7	11.5	45°	11mm HEX 🖝	5242085			
47	7	11	45°	11mm SQ. ■	5242088			
25	5.5	11.5	67°	11mm HEX ●	1401109			
GW	M	10 x	1.25		Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
25	5.5	11.5	45°	11mm HEX ●	1201110			
GW	M	10 x	1.5		Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
25	5.5	11.5	45°	11mm HEX ◆	1201111		1221111	
	3.3	11.5	13	THIN HEX C	1201111		1221111	
GW	AA	10	1.0		D ()			
	12	12 x WL	W.	SW	Ref No.:	D	CCTOOO	CCT01/I
L1		WL 12	w 45°	•	Steel	Brass	SST303	SST316L
22.5	6.5	١Z	45	14mm HEX ●	1201412			
GW	M	12 x	1.5		Ref No.:			
L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
22.5	6.5	12	45°	14mm HEX ●	1201414			
CW	AA	10	1 75		5 ()			
GW		12 x			Ref No.:	D	CCTOOO	CCT01/1
L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
22.5	6.5	12	45°	14mm HEX ●	1201415			
GW		14 x	1.5		Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
22.5	6.5	12	45°	14mm HEX 👄	1201417			
GW	M	16 x	1.5		Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
25.5	7	13.5	45°	17mm HEX •	1201719	2.400	32.200	
25.5	,	10.5	13	17 mm HEA	1201717			

GW		/16" ·			Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316
23.5	5.5	10.5	45°	9mm HEX	1200951			
GW	3	/8" -	NPT	/PTF	Ref No.:			
L1	L2		W		Steel	Brass	SST303	SST316
25.5	7	13.5	45°	17mm HEX 🕳	1201769			
GW	3	/8" -	20 B	SF	Ref No.:			
LI	L2			SW	Steel	Brass	SST303	SST316
25	5.5	11.5	45°	11mm HEX ●	1201146			
25	5.5	11.5	67°	11mm HEX	1401140			
GW	3	/8" -	24 N	F/UNF/SAE	Ref No.:			
Ll	L2			SW	Steel	Brass	SST303	SST316
25	5.5	11.5	45°	11mm HEX ●	1201139			
25				11mm HEX ●	1401139			
GW	3	/8" B	SW		Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316
25	5.5	11.5	45°	11mm HEX ●	1201152			
GW	1	/ ງ II _	20 II	NE /NE /CAE	n_f Ni			
L1	L2	WL	W	NF/NF/SAE SW	Ref No.: Steel	Brass	SST303	SST316
22.5	6.5	12	45°	14mm HEX ●		иизэ	331303	331310
LL.J	0.5	1 4	TJ	I TIIIIII IILA	1201740			

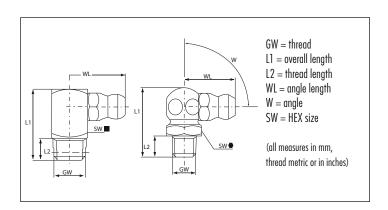


Type H3

Hydraulic-Type Grease Nipples



- · according to DIN 71412
- \cdot angled version C/90 $^\circ$
- · standard versions according to DIN are made of steel, zinc-plated and passivated, head case-hardened
- · with tapered thread
- · for other types and materials, please see table, or upon request



GI	V N	1 5 x	8.0		Ref No.:	:		
L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
18	5.5	13	90°	9mm HEX 🕳	1300901			

(GW	M	6 x	0.75		Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
18	5.5	14	90°	9mm SQ. ■	1304503			
18	5.5	13	90°	9mm HEX 🗢	1300903			

GW	M	6 x	1.0		Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
18	5.5	14	90°	9mm SQ. ■	1304504			
18	5.5	13	90°	9mm HEX ●	1300904	1310904	1320904	1341630

GW	M	7 x	1.0		Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
18	5.5	13	90°	9mm HEX ●	1300905			

(GW	M	8 x	0.75		Ref No.:				
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L	
18	5.5	13	90°	9mm HEX 🗢	1300906				

GW	M	8 x	1.0		Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
18	5.5	13	90°	9mm HEX 🕳	1300907	1310907	1320907	1340907
18	5.5	14	90°	9mm SQ. ■	1304507			

GW	M	8 x	1.25		Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
18	5.5	14	90°	9mm SQ. ■	1304508			
18	5.5	13	90°	9mm HEX	1300908	1310908	1320908	

GW	M	10 x	1.0		Ref No.:			
L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
18	5.5	15	90°	11mm SQ. ■	1304709			
20	5.5	14	90°	11mm HEX ●	1301109	1311109	1321109	1341109
42	7	15	90°	11mm SQ. ■	5242092			

GW	M	10 x	1.25		Ref No	.:		
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
20	5.5	14	90°	11mm HEX ●	130111	0		

GW	GW M 10 x 1.5				Ref No.:				
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L	
20	5.5	14	90°	11mm HEX 🗢	130111	1	1321111		

GW	W M 12 x 1.0			Ref No.:				
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
22	6.5	14	90°	14mm HFX	130141	2		

GW	GW M 12 x 1.5				Ref No.:				
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L	
22	6.5	14	90°	14mm HEX	130141	4			

GW	M	12 x	1.75		Ref No) . :		
L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
22	6.5	14	90°	14mm HEX 🕳	130141	5		1341415

GW	GW M 14 x 1.5			Ref No.:				
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
22	6.5	14	90°	14mm HEX 👄	130141	7		

GW	M	14 x	2.0		Ref No.:				
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L	
22	6.5	14	90°	14mm HEX 🔷	130141	9			

011	_	1 /0	1 /0	00 000					
GW L1	L2	WL	1/8 W	- 28 BSP SW		Ref No.: Steel	Brass	SST303	SST316L
18	5.5	15	90°	11mm SQ. ■		1304756	DIUSS	331303	331310L
20	5.5	14	90°	11mm HEX •			1311156	1321156	13/1156
42	7	15	90°	11mm SQ. ■		5242093	1311130	1321130	1341130
42	,	13	70	i illilii 3Q. 🖿		J242073			
GW			_	- 19 BSP		Ref No.:			
L1	L2	WL	W	SW		Steel	Brass	SST303	SST316L
22	6.5	14	90°	14mm HEX ●			1311457	1321457	134145/
GW				- 19 BSP		Ref No.:			
Ll	L2	WL		SW		Steel	Brass	SST303	SST316L
20	7	19	90°	17mm HEX ◆		1301758			
GW				PT/PTF		Ref No.:			
L1	L2	WL	W	SW		Steel	Brass	SST303	SST316L
18	5.5	15	90	11mm SQ. ■		1304767			
GW	1.	/4" -	18 N	PT/PTF		Ref No.:			
LI	L2	WL	W	SW		Steel	Brass	SST303	SST316L
22	6.5	14	90	14mm HEX •		1301468	Diuss	331000	3310101
GW	1.	/4" -	26 B	SF		Ref No.:			
L1	L2	WL	W	SW		Steel	Brass	SST303	SST316L
18	5.5	13	90°	9mm HEX ●		1300944	1310944	1320944	
GW		/AII	70 M	E /IINE /CAE		D (11			
$\overline{}$				F/UNF/SAE	_	Ref No.:	_	CCTOOO	CCT01/I
L1	L2	WL	W	SW TIEV =		Steel	Brass	SST303	SST316L
18	5.5	13	90°	9mm HEX ●			1310937	1320937	
GW	_	/4" B				Ref No.:			
LI	L2	WL	W	SW		Steel	Brass	SST303	SST316L
18	5.5	13	90°	9mm HEX ●		1300950		1320945	
GW	5	/16"	- 22	RSF		Ref No.:			
LI	L2	WL	W	SW		Steel	Brass	SST303	SST316L
18	5.5	13	90°	9mm HEX ●		1300945	2.335	22.000	30.010L
						1000/13			
GW	5,	/16"	- 24	NF/UNF/SAE		Ref No.:			
Ll	L2	WL	W	SW		Steel	Brass	SST303	SST316L
18	5.5	13	90°	9mm HEX 🕳		1300938			

GW	5/	/16"	BSW		Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
18	5.5	13	90°	9mm HEX 👄	1300951			
GW	3/	/8" -	18 N	PT/PTF	Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
20	7	19	90°	17mm HEX 🕳	1301760			
GW	3/	/8" -	20 BS	SF	Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
20	5.5	14	90°	11mm HEX ●	1301146			
GW	3/	/8" -	24 N	F/UNF/SAE	Ref No.:			
GW L1	3 /L2		24 N W	F/UNF/SAE	Ref No.: Steel	Brass	SST303	SST316L
$\overline{}$							SST303	SST316L
Ll	L2	WL	W	SW	Steel		SST303	SST316L
L1 20	L2 5.5	WL 14	W 90°	SW	Steel		SST303	SST316L
L1 20	L2 5.5	WL 14 /8" B	W 90°	SW	Steel	Brass	SST303	
L1 20 GW L1	5.5 5.5	WL 14 /8" E WL	₩ 90° 8 SW W	SW 11mm HEX •	Steel 1301139 Ref No.: Steel	Brass	SST303 SST303	SST316L
L1 20	L2 5.5	WL 14 /8" B	₩ 90°	SW 11mm HEX ●	Steel 1301139 Ref No.:	Brass		
L1 20 GW L1	5.5 5.5	WL 14 /8" E WL	₩ 90° 8 SW W	SW 11mm HEX •	Steel 1301139 Ref No.: Steel	Brass		
L1 20 GW L1 20	3/ L2 5.5	WL 14 /8" E WL 14	W 90° BSW W 90°	SW 11mm HEX SW 11mm HEX	Steel 1301139 Ref No.: Steel	Brass		
L1 20 GW L1	3/ L2 5.5	WL 14 /8" E WL 14	W 90° BSW W 90°	SW 11mm HEX •	Steel 1301139 Ref No.: Steel	Brass Brass		
L1 20 GW L1 20	3/ L2 5.5	WL 14 /8" E WL 14	W 90° BSW W 90°	SW 11mm HEX SW 11mm HEX	Steel 1301139 Ref No.: Steel 1301152	Brass Brass		



UMETA HYDRAULIC GREASE NIPPLES WITH SELF-FORMING THREAD

APPLICATION AREA

By using UMETA grease nipples with self-forming thread (SFT / SFG) you effectively save the thread-cutting process in the borehole.

VERSIONS

For safety reasons and in order to avoid abrasion wear, the DIN standard for grease nipple with self-forming thread demands a specific surface hardness of 650 HV minimum as well as a particularly wide flank angle of 105° at the thread. For a better visual distinction, UMETA self-forming grease nipples are yellow passivated. Upon request, they are also available in another surface colour, e.g. blue passivated = silver coloured.

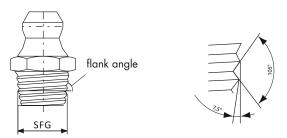
MOUNTING INSTRUCTIONS

The special thread angle and the specific hardness level allow these grease nipples to be driven and screwed into holes without prior thread cutting. Thus, the thread of the grease nipple forms its counter thread. Later, the grease nipple can easily be screwed out and be replaced by a standard grease nipple. The exact size of the core hole depends on the material and must be determined by mounting tests. The consistency of the receiving material is decisive. The standard gauge for the installation bore diameter of 0.4-0.5 mm (0.02") below nominal width have proved in daily use.

OPERATING INSTRUCTIONS

As suitable lubricating nozzle, we recommend our hydraulic couplers.







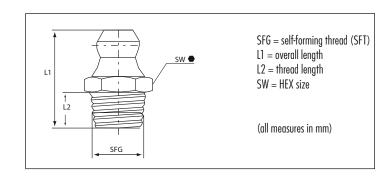
Type H1/S

Hydraulic-Type Grease Nipples with Self-Forming Thread



- · according to DIN 71412
- · straight version A/180°
- · with self-forming thread, tapered
- standard version made of steel, case-hardened according to DIN (650HV) and yellow passivated

SFG	S	6 x 1	Ref N	lo.:
Ll	L2	SW	Steel	not available in other materials
13.5	4	7mm l	HEX ● 53174	43
15	5.5	7mm	HEX ● 11007	74
17.5	5.5	7mm l	HEX ● 52411	35
SFG	S	8 x 1	Ref N	lo.:
LI	L2	SW	Steel	not available in other materials
15	5.5	9mm	HEX • 11009	75
17	7	9mm	HEX - 53175	41



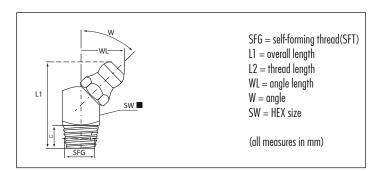
SFG	S	10 x 1	Ref No.:	
L1	L2	SW	Steel	not available in other materials
15	5.5	11mm HEX 👄	1101176	
18	8	11mm HEX 🖝	5241014	

Type H2/S

Hydraulic-Type Grease Nipples with Self-Forming Thread



- according to DIN 71412
- \cdot angled version B/45 $^{\circ}$
- \cdot with self-forming thread, tapered
- standard version made of steel, case-hardened according to DIN (head 550 HV/body 650 HV) and yellow passivated



SFG	S	6 x 1			Ref No.:	
L1	L2	WL	W	SW	Steel	not available in other materials
20.5	5.5	10.5	45°	9mm SQ. ■	1204574	

SFG	S	8 x 1			Ref No.:	
Ll	L2	WL	W	SW	Steel	not available in other materials
20.5	5.5	10.5	45°	9mm SQ. ■	1204575	

SFG	S	10 x	1		Ref No.:	
Ll	L2	WL	W	SW	Steel	not available in other materials
20.5	5.5	11	45°	11mm SQ. ■	1204776	

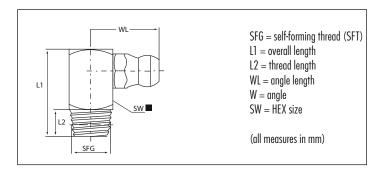
SFG	S	1/4"	- 28		Ref No.:	
Ll	L2	WL	W	SW	Steel	not available in other materials
20.5	5.5	11	45°	9mm HEX ●	1200977	

Type H3/S

Hydraulic-Type Grease Nipples with Self-Forming Thread



- · according to DIN 71412
- \cdot angled version C/90°
- · with self-forming thread, tapered
- standard version made of steel, case-hardened according to DIN (head 550 HV/body 650 HV) and yellow passivated



SFG	S	6 x 1				Ref No.:	
L1	L2	WL	W	SW		Steel	not available in other materials
18	5.5	14	90°		9mm SQ. ■	1304574	
21.5	5.5	14	90°		9mm SQ. ■	1304578	
SFG	S	8 x 1				Ref No.:	
L1	L2	WL	W	SW		Steel	not available in other materials
18	5.5	14	90°		9mm SQ. ■	1304575	

SFG	S	10 x	1		Ref No.:	
L1	L2	WL	W	SW	Steel	not available in other materials
18	5.5	15	90°	11mm SQ. ■	1304776	



UMETA HYDRAULIC-TYPE GREASE NIPPLES - DRIVE-IN VERSION

APPLICATION AREA

By using UMETA grease nipples with drive-in shank, you effectively save the thread-cutting process in the borehole.

VERSIONS

Drive-in nipples as standard version are with plain shank, made of steel, case-hardened, zinc-plated and passivated. Upon request, UMETA manufactures drive-in grease nipples in other versions, with respect to the following:

- dimension
- $\cdot \ material$
- · shank length
- · shank type (e.g. serrated ridge)
- · shank diameter
- · surface colour
- · further surface treatment

MOUNTING INSTRUCTIONS

For straight-type grease nipples, we recommend using the drive-in tool, with which the nipple can be driven-in effectively and with care. The exact size of the core hole depends on the material and must be determined by mounting tests. The standard gauge for the installation bore diameter corresponds to the nominal width of the shank Ø.



Since this type of grease nipple is only driven in, it may get loose by

- · strong vibrations
- high back-pressure when greasing with auto-matic guns
- \cdot pulling off the hydraulic coupler

Drive-in type hydraulic grease nipples should only be lubricated by a hydraulic nozzle.



Drive-in type grease nipples are only suitable for low pressures. Please check whether they can be replaced by self-forming nipples for a better fit.





Type H1a

Hydraulic-Type Grease Nipples - Drive-in Version



5mm Ø

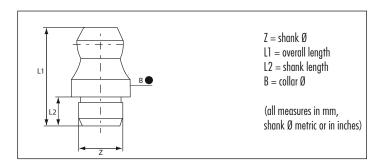
L2

- · according to DIN 71412
- · straight version A/180°

SST303

- · drive-in-type with plain shank
- standard versions according to DIN are made of steel, case-hardened, zinc-plated and passivated
- · for other types and materials, please see table, or upon request

SST316L



15	5.5	8 •		1100185			
7	6r	nm Ø		Ref No.:			
L1	L2	В		Steel	Brass	SST303	SST316L
14	4	8 •		5241040		5241097	
15	5.5	8 •		1100186	1110186	1120186	1140186
21	11	10 •		5241029			
7	6.	35mm,	1/4" Ø	Ref No.:			
L1	L2	В		Steel	Brass	SST303	SST316L
15	5.5	8 •		1100187			

Ref.- No.:

Brass

Steel

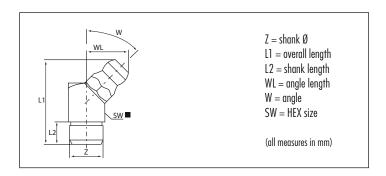
Z	8m	m Ø	Ref No.:			
Ll	L2	В	Steel	Brass	SST303	SST316L
15	5.5	10 •	1100288	1110288	1120288	
30	5.5	10 ●	1100289			
Z	10	mm Ø	Ref No.:			
Ll	L2	В	Steel	Brass	SST303	SST316L
15	5.5	12 ●	1100389			
Z	E /	14" Ø	n ()			
L	3/	16" Ø	Ref No.:			
L1	L2	В	Steel	Brass	SST303	SST316L
15	5.5	10 •	1100290			

Type H2a

Hydraulic-Type Grease Nipples - Drive-in Version



- · according to DIN 71412
- \cdot angled version B/45 $^{\circ}$
- · drive-in-type with plain shank
- · standard versions according to DIN are made of steel, zinc-plated and passivated, head case-hardened



(Z	6n	nm Ø			Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
20.5	5.5	10.5	45°	9mm SQ. ■	1204586			

Z	10)mm (7		Ref No	.:		
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
20.5	5.5	10.7	45°	11mm SQ. ■	120478	19		

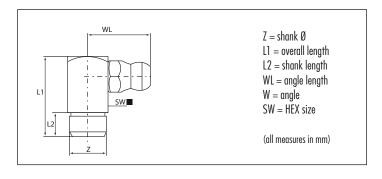
Z	8r	nm Ø			Ref No.	.:		
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
20.5	5.5	10.5	45°	9mm SQ. ■	120458	8		

Type H3a

Hydraulic-Type Grease Nipples - Drive-in Version



- · according to DIN 71412
- \cdot angled version C/90 $^{\circ}$
- · drive-in-type with plain shank
- · standard versions according to DIN are made of steel, zinc-plated and passivated, head case-hardened



7	61	nm Ø			Ref No	.:		
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
18	5.5	14	90°	9mm S0.	130458	16		

7	8r	nm Ø				Ref No.	:		
Ll	L2	WL	W	SW		Steel	Brass	SST303	SST316L
18	5.5	14	90°		9mm SQ. ■	130458	8		

Z	10)mm	Ø		Ref No.:			
Ll	L2 WL W SW				Steel	Brass	SST303	SST316L
18	5.5 15 90° 11mm SQ. ■		130478	9				



UMETA HYDRAULIC-TYPE GREASE NIPPLES - SPECIAL DESIGNS

The following types are representing only the most commonly used special-type nipples. For individual applications, UMETA manufactures hydraulic-type grease nipples with special equipment in other versions, with respect to the

following:

- · dimension
- · material
- · thread size
- · thread form (e. g. with tapered thread)
- · length



High-pressure hydraulic-type nipple with pin valve



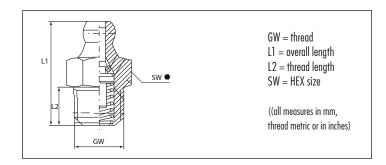
- · straight version A/180°
- · made of steel, zinc-plated and passivated
- · with special pin valve

Due to the special pin valve, the lubrication point will be sealed hermetically after the greasing operation. As a result, internal impulse-like pressures up to 400 bar (5,800 PSI) can be attained, depending on the respective application.

APPLICATION AREA

Heavy Industry, Heavy Vehicle Industry.

GW	M	10 x 1.0	Ref No.:			
LI	L2	SW	Steel	Brass	SST303	SST316L
21	7.5	11mm HEX ●	5800049			
21	9	11mm HEX ●	5800052		5800050	
GW	R 1	/8, 1/8 - 28 BSP	Ref No.:			
GW L1	R 1	/8, 1/8 - 28 BSP SW	Ref No.: Steel	Brass	SST303	SST316L
-				Brass	SST303 5800051	SST316L
L1	L2	SW	Steel	Brass		SST316L



OPERATING INSTRUCTIONS

ATTENTION! During dismantling, utmost caution is required because of the possible pressure load. Dismantling should be done by experienced personnel only!

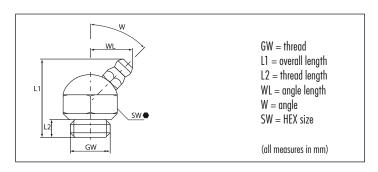
GW	G	1/8, 1/8 - 28 BSPP	Ref No.:			
Ll	L2	SW	Steel	Brass	SST303	SST316L
21	7	13mm HEX ●	5800056			
GW	G 1	1/4, 1/4 - 19 BSPP	Ref No.:			
L1	L2	SW	Steel	Brass	SST303	SST316L
21	7	13mm HEX ◆			5800057	
GW	1/	8" - 27 NPT/PTF	Ref No.:			
L1	L2	SW	Steel	Brass	SST303	SST316L
21	7.5	11mm HEX ●	5800048			
21	9	11mm HEX ◆			5800040	

Hydraulic-type nipple with sealing element



- · angled version B/45°
- · made of steel, zinc-plated and passivated
- \cdot head hardened according to DIN
- · with cylindrical thread
- · with sintered sealing element under the collar

APPLICATION AREAHeavy Industry, Heavy Vehicle Industry.



GW	M	14 x	2.0		Ref No.	:		
L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
26.6	7	14	45°	19 mm HEX 🕳	524204	2		

Hydraulic-type nipple, double headed



- · made of steel, zinc-plated and passivated
- · heads hardened according to DIN
- · optionally available as:
 - \cdot H2-double head with 67° angle / hexagon body
 - H3-double head with 90° angle / square body

GW = thread | 12 = averall length | 12 = thread length | W| = angle length | SW = HEY circ

GW = thread, L1 = overall length, L2 = thread length, WL = angle length, SW = HEX size (all measures in mm, thread metric or in inches)

APPLICATION AREA

Option of alternative greasing by means of two heads.

(GW	M	6 x 1	1.0		Ref No	.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L	
18	5.5	14.5	90°	9mm SQ. ■	524417	9			

GW	M	8 x 1	.0		Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
18	5.5	14.5	90°	9mm SQ. ■	5244178			
18	5.5	14.5	90°	11mm SQ. ■	5244181			
20	5.5	13.5	67°	11mm HEX ●	5244159			

GW	M	8 x 1	.25		Ref No.:			
L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
18	5.5	14.5	90°	9mm SQ. ■	5244096			
20	5.5	13.5	67°	11mm HEX ●	5244160			
24	5.5	14 5	9N°	9mm S0	5244033			

GW	M	10 x	1.0		Ref No.:			
L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
18	5.5	15	90°	11mm SQ. ■	5244094		5244134	
20	5.5	13.5	67°	11mm HEX	5244161			
22	7	13.5	67°	11mm HEX 👄	5244163			

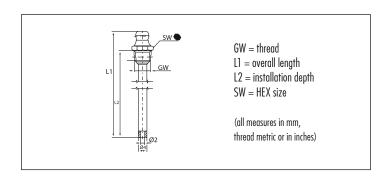
GW	R	1/8,	1/8	- 28 BSP	Ref No.:				
L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L	
18	5.5	15	90°	11mm SQ. ■	5244095	5			
20	5.5	13.5	67°	11mm HEX ●	5244162	2			

Hydraulic-type nipple with extension





- · straight version A/180°
- · made of steel, zinc-plated and passivated
- · head hardened according to DIN
- · with tapered thread
- with press-fitted extension for exact grease flow



APPLICATION AREA

For deep seated lubrication points, which can be serviced sufficiently through the extension, e.g. for drive shafts.

GW	M 8 x	1.0	Ref No	.:		
Ll	L2	SW	Steel	Brass	SST303	SST316L
75	65	9mm HEX 🕳	524113	0		
130	120	9mm HEX 🕳	524113	3		

GW M 8 x 1.25		Ref No.:				
Ll	L2	SW	Steel	Brass	SST303	SST316L
32	22	9mm HEX ●	524121	3		

GW	M 10 x 1.0		Ref No.:				
Ll	L2	SW	Steel	Brass	SST303	SST316L	
59	49	11mm HEX ●	5241140)			
75	65	11mm HEX ■	5241132	2			

GW	5/1	6" - 24 NF/UNF/SAE	Ref No.	:		
Ll	L2	SW	Steel	Brass	SST303	SST316L
75	65	9mm HEX ◆	524113			



UMETA BALL-TYPE GREASE NIPPLES ACCORDING TO FORMER DIN 3402

APPLICATION AREA

UMETA ball-type nipples are suitable for all standard lubrication points, which have to be frequently lubricated in a reliably way. They are more and more often replaced by hydraulic-type grease nipples according to DIN 71412 due to their manifold application purposes.

VERSIONS

In general, our ball-type grease nipples according to DIN are made of steel, zinc-plated and passivated, and they are featured with a tapered thread. The head diameter is 6.5 (-0.2) mm / 0.256" (-0.008"). We offer various standard types also in brass or stainless steel 1.4305 ~ ASTM 303 and 1.4404 ~ ASTM 316L (V2A/V4A). Of course, our ball-type grease nipples are also available in different angle versions, or as drive-in type.

On request, UMETA manufactures ball-type nipples in other versions, with respect to the following:

- dimension
- · material
- · thread size
- · thread form (e. g. with cylindrical thread)
- · opening pressure
- · surface colour (e.g. yellow passivated)
- · further surface treatment
- · etc.

OPERATING INSTRUCTIONS

As suitable lubricating nozzle, we recommend our hollow-type nozzles or hydraulic nozzles by using our push-type grease gunstype A+B.



Type K1



Ball-Type Grease Nipples

- · according to former DIN 3402
- · straight version A/180°
- standard versions according to DIN are made of steel, zinc-plated and passivated, with tapered thread
- · for other types and materials, please see table, or upon request

GW

M 10 x 1.0

SW

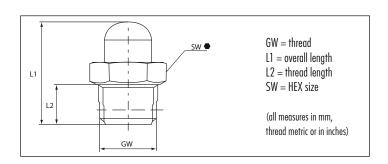
L2

L2

17mm HEX

17.5 8

GW	M	5 x	0.8	Ref No.:			
L1	L2	SW		Steel	Brass	SST303	SST316L
14	5.5		7mm HEX ●	2100701	2110702		
GW	M	6 x	0.75	Ref No.:			
L1	L2	SW		Steel	Brass	SST303	SST316L
14	5.5		7mm HEX ◆	2100703	2110703		
GW	M	6 x	1.0	Ref No.:			
L1	L2	SW		Steel	Brass	SST303	SST316L
14	5.5		7mm HEX ◆	2100704	2110704	2120704	
GW	8.8	_					
OII	W	7 x	1.0	Ref No.:			
Ll	L2	7 x SW	1.0	Ref No.: Steel	Brass	SST303	SST316L
	_		1.0 9mm HEX ●		Brass	SST303	SST316L
Ll	L2 5.5	SW		Steel	Brass	SST303	SST316L
L1 14	L2 5.5	SW	9mm HEX ◆	Steel 2100905	Brass Brass	\$257303 \$257303	SST316L
L1 14 GW	L2 5.5	SW 8 x	9mm HEX ◆	Steel 2100905 Ref No.:			
L1 14 GW L1 14 GW	L2 5.5 M L2 5.5	SW 8 x SW	9mm HEX ● 1.0	Steel 2100905 Ref No.: Steel 2100907 Ref No.:	Brass 2110907	SST303 2120907	SST316L
L1 14 GW L1 14	L2 5.5 M L2 5.5	SW	9mm HEX ● 1.0 9mm HEX ●	Steel 2100905 Ref No.: Steel 2100907	Brass	SST303	



Ref.- No.:

Brass

Steel

SST303

SST316L

14	5.5	11mm HEX ●	2101109			
GW	M	10 x 1.5	Ref No.:			
Ll	L2	SW	Steel	Brass	SST303	SST316L
14	5.5	11mm HEX ◆	2101111			
GW	D	1 /0 1 /0 20 DCD				
GW	K	1/8, 1/8 - 28 BSP	Ret No.:			
L1	L2	SW	Steel	Brass	SST303	SST316L
14	5.5	11mm HEX ◆	2101156	2111156		
(O)44	_	1/4 1/4 10 DOD				
(GW	K	1/4, 1/4 - 19 BSP	Ref No.:			
Ll	L2	SW	Steel	Brass	SST303	SST316L
16	6.5	14mm HEX ◆	2101457	2111457		
CW	D	0/0 0/0 10 DCD				
(GW	K	3/8, 3/8 - 19 BSP	Ret No.:			

Steel

2101758

Brass

SST303

SST316L

Type K2

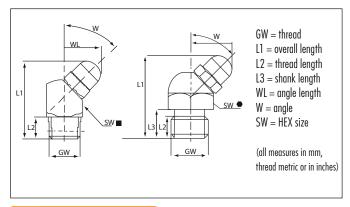
Ball-Type Grease Nipples

- according to former DIN 3402
- \cdot angled version B/45 $^{\circ}$
- · standard versions according to DIN are made of steel, zinc-plated and passivated, with tapered thread





GW	M	6 x	1.0			Ref No.:			
Ll	L2	L3	WL	W	SW	Steel	Brass	SST303	SST316L
19	5.5		9	45°	9 mm SQ. ■	2204504			
GW	M	8 x	1.0			Ref No.:			
Ll	L2	L3	WL	W	SW	Steel	Brass	SST303	SST316L
19	5.5		9	45°	9 mm SQ. ■	2204507			
GW	M	8 x	1.25			Ref No.:			
Ll	L2	L3	WL	W	SW	Steel	Brass	SST303	SST316L
19	5.5		9	45°	9mm SQ. ■	2204508			
19	5.5		9	45°	11mm HEX 🖜		2111458		
20	5.5	6	9.5	45°	11mm HEX 🖜		2111470		



(GW	M	10 x	1.0			Ref No.:			
Ll	L2	L3	WL	W	SW	Steel	Brass	SST303	SST316L
14	5.5		9.5	45°	11mm SQ. ■	2204709			
GW	M	10 x	1.5			Ref No.:			
Ll	L2	L3	WL	W	SW	Steel	Brass	SST303	SST316L
20	5.5	6	9.5	45°	11mm HEX 🌑		2111471		
27	5.5	9.5	9.5	45°	11mm HEX	2204711			
GW	R	1/8,	1/8	- 28	BSP	Ref - No ·			
GW L1	R L2	1/ 8, L3	1/8 WL	- 28 W	BSP SW	Ref No.: Steel	Brass	SST303	SST316L
			•				Brass	SST303	SST316L
Ll	L2		WL	W	SW	Steel	Brass 2111460	SST303	SST316L
L1	L2 5.5 5.5	L3	WL 9.5	W 45° 45°	SW 11mm SQ. ■ 11mm HEX ●	Steel		\$\$T303	SST316L
14 14	L2 5.5 5.5	L3	WL 9.5 9.5	W 45° 45°	SW 11mm SQ. ■ 11mm HEX ●	Steel 2204756		SST303 SST303	SST316L

Typ K3

Ball-Type Grease Nipples



- · according to former DIN 3402
- \cdot elbow version C/90 $^{\circ}$
- standard versions according to DIN are made of steel, zinc-plated and passivated, with tapered thread

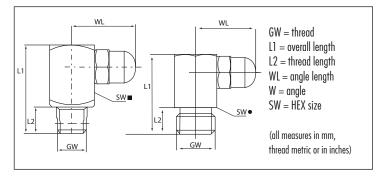
GW

L2

M 10 x 1.0

SW

WL



Ref.- No.:

Brass

SST303

SST316L

Steel

GW	M	6 x	1.0		Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
18	5.5	13	90°	9 mm SQ. ■	2304504			
GW	M	8 x	1.0		Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
18	5.5	13	90°	9 mm SQ. ■	2304507			
GW	M	8 x	1.25		Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
18	5.5	13	90°	9mm SQ. ■	2304508			
18	5.5	13	90°	9mm HEX		2111461	*	
19	5.5	13	90°	11mm HEX 🖝		2111468	*	

18	5.5	14	90°	11mm SQ. ■	2304709			
GW	M	10 x	1.5	(cyl.)	Ref No.:			
L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
19	5.5	13	90°	11mm HEX 🖜		2111469	*	
GW	R	1/8,	1/8	- 28 BSP	Ref No.:			
L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
18	5.5	14	90°	11mm SQ. ■	2304756			
GW	R	1/4,	1/4	- 19 BSP	Ref No.:			
L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
22.5	6.5	15	90°	14mm HEX 🔷	2301457			



UMETA BALL-TYPE GREASE NIPPLES - DRIVE-IN VERSION

APPLICATION AREA

By using UMETA grease nipples with drive-in shank, you effectively save the thread-cutting process in the borehole.

VERSIONS

Drive-in nipples as standard version are with plain shank, made of steel, zinc-plated and passivated. Upon request, UMETA manufactures drive-in grease nipples in other versions, with respect to the following:

- · dimension
- · material
- · shank length
- · shank type (e. g. serrated ridge)
- · shank diamter
- · surface colour
- · further surface treatment

MOUNTING INSTRUCTIONS

For straight-type grease nipples, we recommend using the drive-in tool, with which the nipple can

be driven-in effectively and with care.
The exact size of the core hole
depends on the material and
must be determined by
mounting tests.
The standard gauge for the
installation bore diameter

to the nominal width of the shank \emptyset .

corresponds

the core hole aterial and ed by the for the siameter of the si

Drive-in type hydraulic grease nipples should only be lubricated by a hydraulic nozzle.



RECOMMENDATION

Drive-in type grease nipples are only suitable for low pressures. Please check whether they can be replaced by self-forming nipples for a better fit.



OPERATING INSTRUCTIONS

Since this type of grease nipple is only driven in, it may get loose by

- strong vibrations
- high back-pressure when greasing with automatic guns
- · pulling off the hydraulic coupler.

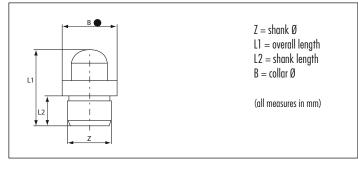


Type K1a

Ball-Type Grease Nipples - Drive-in Version



- · according to former DIN 3402
- · straight version A/180°
- · drive-in-type with plain shank
- · standard versions according to DIN are made of steel, zinc-plated and passivated
- · for other types and materials, please see table, or upon request



Z	6n	nm Ø	Ref No.:						
L1	L2	В	Steel	Brass	SST303	SST316L			
14	5.5	8 •	2100186	2110186	2120186				
15	6.5	8 •		2110187					
7	8n	nm Ø	Ref No.:						
Ll	L2	В	Steel	Brass	SST303	SST316L			
14	5.5	10 •	2100288	2110288	2120288				

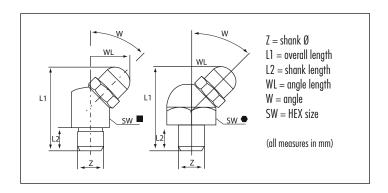
Z	10)mm Ø	Ref No.:			
L1	L2	В	Steel	Brass	SST303	SST316L
14	5.5	12 •	2100389			

Type K2a

Ball-Type Grease Nipples - Drive-in Version



- \cdot according to former DIN 3402
- \cdot angled version B/45 $^{\circ}$
- · drive-in-type with plain shank
- · standard versions according to DIN are made of steel, zinc-plated and passivated



Z	6n	nm Ø			Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
19	5.5	9	45°	9mm SQ. ■	2204586			
21	7	9	45°	9mm HEX		2111467		

Z	10mm Ø				Ref No	Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L	
19	5.5	9.5	45°	11mm SQ. ■	220478	19			

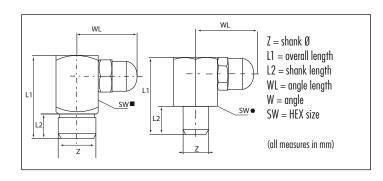
7	8r	nm Ø			Ref No.:			
L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
19	5.5	9	45°	9mm SQ. ■	2204588			
21	7	9	45°	9mm HEX		2111466		

Type K3a

Ball-Type Grease Nipples - Drive-in Version



- \cdot according to former DIN 3402
- \cdot angled version C/90 $^{\circ}$
- · drive-in-type with plain shank
- standard versions according to DIN are made of steel, zinc-plated and passivated



Z	6n	nm Ø			Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
18	5.5	13	90°	9mm SQ. ■	2304586			
18	5.5	13	90°	9mm HEX 👄		2111462		
19	5.5	13	90°	11mm HEX 🕳		2111463		

7	8r	nm Ø			Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
18	5.5	13	90°	9mm SQ. ■	2304588			
19	5.5	13	90°	11mm HEX ●		2111464		



UMETA FLUSH-TYPE GREASE NIPPLES ACCORDING TO DIN 3405

APPLICATION AREA

Flush-type grease nipples are particularly suitable for installations where extending or protruding nipples cannot be used.

VERSIONS

In general, our flush-type grease nipples according to DIN are made of steel, zinc-plated and passivated, and they are featured with a cylind-rical thread. Of course, our flush-type nipples are also available in different angle versions, with a self-forming thread, or as drive-in type. We offer various standard types also in brass or stainless steel 1.4305 ~ ASTM 303 (V2A).

Upon request, UMETA manufactures flush-type grease nipples

in other versions, with respect to the following:

- dimension
- · material
- · thread size
- · thread form (e. g. with tapered thread)
- · opening pressure

· surface colour (e. g. yellow passivated)







Flush-type nipples are only suitable for pressgreasing by means of a UMETA extension tube or a UMETA push-type grease gun with pin-pointed, pointed, or combi-nozzle.



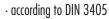






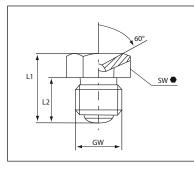
Type D1

Flush-Type Grease Nipples





- standard versions according to DIN are made of steel, zinc-plated and passivated, with cylindrical thread
- · for other types and materials, please see table, or upon request



GW = thread L1 = overall length L2 = thread length SW = HEX size

(all measures in mm, thread metric or in inches)

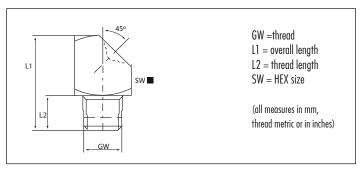
GW	M	5 x	0.8	Ref No.:			
L1	L2	SW		Steel	Brass	SST303	SST316L
9	6		7mm HEX ◆	3100721			
GW	M	6 v	0.75	Ref No.:			
LI	L2	SW	0.73	Steel	Brass	SST303	SST316L
		344	7 IIFV =		DIUSS	331303	331310L
9	6		7mm HEX ●	3100723			
GW	M	6 x	1.0	Ref No.:			
Ll	L2	SW		Steel	Brass	SST303	SST316L
9	6		7mm HEX ◆	3100724	3110724	3120724	
GW	M	8 x	1.0	Ref No.:			
L1	L2	SW		Steel	Brass	SST303	SST316L
9.5	6.5		9mm HEX ◆	3100925	3110925	3120925	
GW	M	8 x	1.25	Ref No.:			
Ll	L2	SW		Steel	Brass	SST303	SST316L
9.5	6.5		9mm HEX ◆	3100926	3110926	3120926	
0111							
GW	M	10	x 1.0	Ref No.:			
LI	L2	SW		Steel	Brass	SST303	SST316L
9.5	6.5		11mm HEX ◆	3101127	3111127	3121127	

GW	M	10 x 1.5	Ref No.:			
L1	L2	SW	Steel	Brass	SST303	SST316L
9.5	6.5	11mm HEX ◆	3101128			
GW	M	12 x 1.5	Daf Na.			
$\overline{}$			Ref No.:			
L1	L2	SW	Steel	Brass	SST303	SST316L
14	9.5	14mm HEX ◆	3101431			
CW	G	1/8, 1/8 - 28 BSPP	D. C. M.			
$\overline{}$			Ref No.:			
L1	L2	SW	Steel	Brass	SST303	SST316L
9.5	6.5	11mm HEX ◆	3101161	3111161	3121161	
GW	G	1/4, 1/4 - 19 BSPP	D. C. M.			
$\overline{}$	_		Ref No.:		CCTOOO	6670171
L1	L2	SW	Steel	Brass	SST303	SST316L
14	9.5	14mm HEX ◆	3101462	3111462	3121462	
CM	C	2/0 2/0 10 DCDD	D (11			
GW		3/8, 3/8 - 19 BSPP	Ref No.:			
L1	L2	SW	Steel	Brass	SST303	SST316L
14.5	9	17mm HEX ◆	3101763			
GW	1./	'4" - 28 NF/UNF/SAE	n.f. N.			
			Ref No.:		CCTOOO	6670171
L1	L2	SW	Steel	Brass	SST303	SST316L
9	6	7mm HFX	3100742			

Type D2

Flush-Type Grease Nipples

- \cdot according to DIN 3405
- \cdot angled version B/45 $^\circ$
- · standard versions according to DIN are made of steel, zinc-plated and passivated, with tapered thread



GW	M	6 x 1	.0		Ref No.:			
Ll	L2	W	SW		Steel	Brass	SST303	SST316L
15	5.5	45°		9mm SQ. ■	3204504	3214504		

GW	M	8 x 1	1.0		Ref No.:			
Ll	L2	W	SW		Steel	Brass	SST303	SST316L
15	5.5	45°		9mm SQ. ■	3204507			

(GW	M	8 x	1.25		Ref No	:		
L1	L2	W	SW		Steel	Brass	SST303	SST316L
15	5.5	/5°		0mm C0 =	320450	Q		

GW	M	10 x	1.0	Ref No	.:		
L1	L2	W	SW	Steel	Brass	SST303	SST316L
15	5.5	45°	11mm SQ. ■	320470	19		

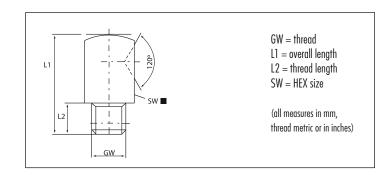
GW	R	1/8,	1/8 - 28 BSP	Ref No.:			
Ll	L2	W	SW	Steel	Brass	SST303	SST316L
15	5.5	45°	11mm SQ. ■	3204756			

Type D3



Flush-Type Grease Nipples

- \cdot according to DIN 3405
- \cdot angled version C/90 $^\circ$
- · standard versions according to DIN are made of steel, zinc-plated and passivated, with tapered thread



(GW	M	6 x 1	1.0		Ref No.:			
	L1	L2	W	SW		Steel	Brass	SST303	SST316L
	18	5.5	90°		9mm SQ. ■	3304504			
(GW	M	8 x 1	1.0		Ref No.:			
	L1	L2	W	SW		Steel	Brass	SST303	SST316L
	18	5.5	90°		9mm SQ. ■	3304507			
(GW	M	8 x 1	1.25		Ref No.:			
	L1	L2	W	SW		Steel	Brass	SST303	SST316L
	18	5.5	90°		9mm SQ. ■	3304508			

GW	M	10 x	1.0	Ref No.:			
L1	L2	W	SW	Steel	Brass	SST303	SST316L
18	5.5	90°	11mm SQ. ■	3304709			
0111	_	- /0	- /0 00 DCD	_			
GW	K	I/8,	1/8 - 28 BSP	Ref No.:			
GW L1	L2	1/8, ₩	1/8 - 28 BSP SW	Ref No.: Steel	Brass	SST303	SST316L
_			•		Brass	SST303	SST316L
L1	L2	W	SW	Steel	Brass	SST303	SST316L



FLUSH-TYPE GREASE NIPPLES WITH SELF-FORMING THREAD

APPLICATION AREA

By using UMETA grease nipples with self-forming thread (SFT / SFG) you effectively save the thread-cutting process in the borehole.

VERSIONS

For safety reasons and in order to avoid abrasion wear, the DIN standard for grease nipples with self-forming thread demands a specific surface hardness of 650 HV minimum as well as a particularly wide flank angle of 105° at the thread. Therefore, we operate this decisive process in our own curing oven. For a better visual distinction, UMETA self-forming grease nipples are yellow passivated. Upon request, they are also available in another surface colour, e. g. blue passivated = silver coloured.



The special thread angle and the specific hardness level allow these grease nipples to be driven and screwed into holes without prior thread cutting. Thus, the thread of the grease nipple forms its counter thread. Later, the grease nipple can easily be screwed out and be replaced by a standard grease nipple. The exact size of the core hole depends on the material and must be determined by mounting tests. The consistency of the receiving material is decisive. The standard gauge for the installation bore diameter of 0.4-0.5 mm (0.02") below nominal width have proved in daily use.

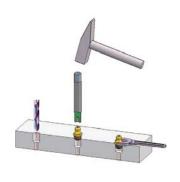
OPERATING INSTRUCTIONS

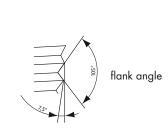
As suitable lubricating nozzle, we recommend our pointed nozzles.









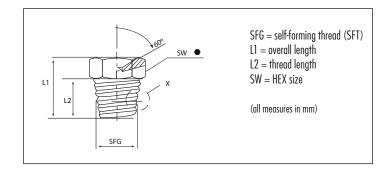


Type D1/S

Flush-Type Grease Nipples with Self-Forming Thread



- according to DIN 3405straight version A/180°
- · with self-forming thread, tapered
- standard version made of steel, case-hardened according to DIN (650HV) and yellow passivated



SFG	S	6 x 1		Ref No.:	
L1	L2	SW		Steel	not available in other materials
8.5	5.5		7mm HEX 👄	3100774	
SFG	S	Q v 1		Ref No.:	
	9	U A I		Kel No.:	
L1	L2	SW		Steel	not available in other materials

SFG	S	10 x 1	Ref No.:	
L1	L2	SW	Steel	not available in other materials
8.5	5.5	11mm HEX 🕳	3101176	

FLUSH-TYPE GREASE NIPPLES - DRIVE-IN VERSION

APPLICATION AREA

By using UMETA grease nipples with drive-in shank, you effectively save the thread-cutting process in the borehole.

VERSIONS

Drive-in nipples as standard version are with plain shank, made of steel, zinc-plated and passivated. Upon request, UMETA manufactures drive-in grease nipples in other versions, with respect to the following:

- dimension
- · material
- · shank length
- · shank type (e. g. serrated ridge)
- · shank diamter
- · surface colour
- · further surface treatment

MOUNTING INSTRUCTIONS

The exact size of the core hole depends on the material and must be determined by mounting tests. The standard gauge for the installation bore diameter corresponds to the nominal width of the shank Ø.

RECOMMENDATION

Drive-in type grease nipples are only suitable for low pressures. Please check whether they can be replaced by self-forming nipples for a better fit.

OPERATING INSTRUCTIONS

Since this type of grease nipple is only driven in, it may get loose by

- · strong vibrations
- high back-pressure when greasing with automatic guns

Drive-in type grease nipples, flush-type, should only be lubricated by a pointed nozzle.



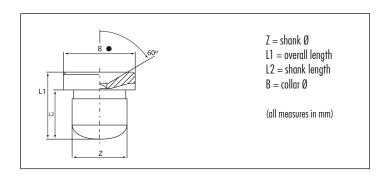


Type Dla

Flush-Type Grease Nipples - Drive-in Version



- · according to DIN 3405
- · straight version A/180°
- · drive-in-type with plain shank
- standard versions according to DIN are made of steel, zinc-plated and passivated
- · for other types and materials, please see table, or upon request



Z	5n	nm	Ø	Ref No.:			
L1	L2	В		Steel	Brass	SST303	SST316L
7.5	5.5	8	•	3100185			
	6mm Ø						
Z	6n	nm	Ø	Ref No.:			
Z L1	6n L2	nm B	Ø	Ref No.: Steel	Brass	SST303	SST316L
_			Ø	Steel			SST316L

Z	6.	35n	nm, 1,	4"Ø Ref No.	:		
Ll	L2	В		Steel	Brass	SST303	SST316L
7.5	5.5	8	•	310018	7		

7	8n	ım Ø	Ref No.:			
L1	L2	В	Steel	Brass	SST303	SST316L
9.5	6.5	10 •	3100288	3110288	3120288	
Z	10	mm Ø	Ref No.:			
Z	10 L2	mm Ø	Ref No.: Steel	Brass	SST303	SST316L
Z L1 9.5	L2		Steel	Brass 3110389	SST303	SST316L

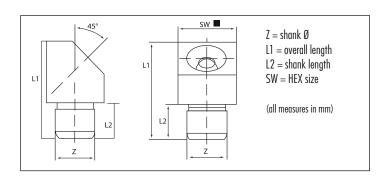


Type D2a

Flush-Type Grease Nipples - Drive-in Version



- \cdot according to DIN 3405
- \cdot angled version B/45 $^{\circ}$
- · drive-in-type with plain shank
- · standard versions according to DIN are made of steel, zinc-plated and passivated



Z	10	Omm (Ø	Ref No.:				
L1	L2	W	SW	Steel	Brass	SST303	SST316L	
15	5.5	45°	11mm S0 ■	320478	39			

Z	6mm Ø			Ref No	ı.:		
Ll	L2	W	SW	Steel	Brass	SST303	SST316L
15	5.5	45°	9mm SQ. ■	320458	36		

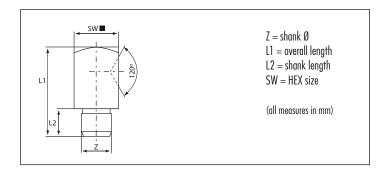
Z	8r	nm Ø		Ref No.:				
Ll	L2	W	SW	Steel	Brass	SST303	SST316L	
15	5.5	45°	9mm SQ	32045	88			

Type D3a

Flush-Type Grease Nipples - Drive-in Version



- \cdot according to DIN 3405
- \cdot angled version C/90 $^{\circ}$
- · drive-in-type with plain shank
- · standard versions according to DIN are made of steel, zinc-plated and passivated



Z	6n	nm Ø		Ref No.:			
L1	L2	W	SW	Steel	Brass	SST303	SST316L
18	5.5	90°	9mm SQ. ■	330458	6		

Z	8r	nm Ø			Ref No.:				
Ll	L2	W	SW		Steel	Brass	SST303	SST316L	
18	5.5	90°		9mm \$0.	330458	18			

Z	10mm Ø			Ref No.:			
LI	L2	W	SW	Steel	Brass	SST303	SST316L
18	5.5	90°	11mm SQ. ■	330478	9		

FLUSH-TYPE GREASE NIPPLES - SPECIAL DESIGNS

VERSIONS

The following types are representing only the most commonly used special-type nipples. For individual applications, UMETA manufactures flush-type grease nipples with special equipment in other versions, with respect to the following:

- · dimension
- · material
- · thread size
- · thread form (e. g. with tapered thread)
- · length

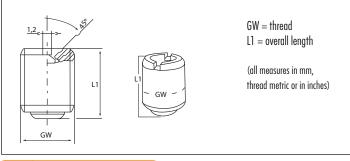


Type DV1

Flush-Type Grease Nipples



- · for even mounting without projection
- · straight version A/180°
- · made of steel, zinc-plated and passivated, with cylindrical thread



GW	M 8 x 1.0	Ref No.:	
L1		Steel Bras	s SST303 SST316L
10		5243010	5243069 5243021
GW	M 10 x 1.0	Ref No.:	
LI	M IV X I.V	Steel Bras	s SST303 SST316L
LI		Sieel Drus	2 221210 221210F
10		5243018	5800039

GW	G 1/8, 1/8 - 1	28 BSPP Ref No.:			
L1		Steel	Brass	SST303	SST316L
10		5243019		5243068	
GW	G 1/4	Ref No.:			
L1		Steel	Brass	SST303	SST316L
13		5243020			

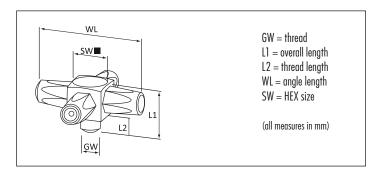
Type D3 quattro 90°

Flush-Type Grease Nipples

 made of steel, zinc-plated and passivated, with tapered thread



GW	M	6 x	1.0		Ref No.	:		
L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
15.5	5.5	33	90°	11mm SQ. ■	524418	5		





UMETA BUTTON-HEAD GREASE NIPPLES ACCORDING TO DIN 3404

APPLICATION AREA

UMETA button-head grease nipples are particularly suitable for lubricating points with a big grease volume because of their specific high flow-rate of grease. As another result of the robust construction, these grease nipples are preferably used in the construction machinery.

VERSIONS

The UMETA button-head grease nipples are available in four different sizes:

 \cdot head Ø 10 mm = M4

 \cdot head Ø 16 mm = M1

 \cdot head Ø 22 mm = M22

 \cdot head hexagon-type, Hex size 15 mm = T1

In general, our button-head grease nipples according to DIN are made of steel, zinc-plated and passivated, and they are featured with a cylindrical thread. We offer various standard types also in brass or stainless steel $1.4305 \sim \text{ASTM } 303$ and $1.4404 \sim \text{ASTM } 316L \text{ (V2A/V4A)}$.

Upon request, UMETA manufactures button-head grease nipples in other versions, with respect to the following:

- dimension
- · material
- · thread size
- · thread form (e. g. with tapered thread)
- · opening pressure
- · surface colour (e. g. yellow passivated)
- · further surface treatment
- · etc.

MOUNTING INSTRUCTIONS

In order to allow for a proper lubrication with all common grease guns, the head space, which is necessary for installation, should be considered (please see table with dimensions).

OPERATING INSTRUCTIONS

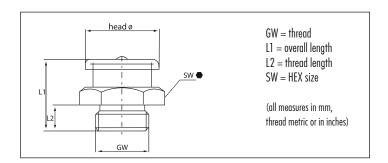
As suitable lubricating nozzle, we recommend our button-head coupler.



Type M4



- · head Ø 10 mm
- · according to DIN 3404
- \cdot straight version A/180 $^\circ$
- standard versions according to DIN are made of steel, zinc-plated and passivated, with cylindrical thread
- · for other types and materials, please see table, or upon request

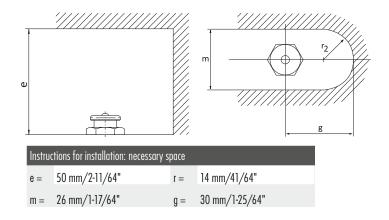


(GV	V	M	6 x 1.0	Ref No.:			
L1		2	SW	Steel	Brass	SST303	SST316L
13.	.5 (6	11mm HEX ●	4201104			

GW	W M 8 x 1.0			Ref No.:				
Ll	L2	SW	Steel	Brass	SST303	SST316L		
13.5	6	11mm HEX ●	420110	7				

GW	M	10 x 1.0	Ref No.	:		
Ll	L2	SW	Steel	Brass	SST303	SST316L
13.5	6	11mm HEX ●	4201109)		

GW	G	1/8, 1/8 - 28 BSPP	Ref No.:			
L1	L2	SW	Steel	Brass	SST303	SST316L
13.5	6	11mm HEX ◆	4201161		4221161	

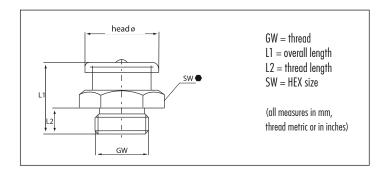


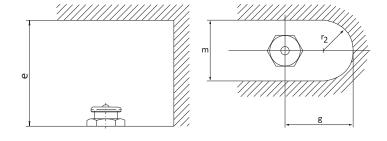


Type M1



- · head Ø 16 mm
- \cdot according to DIN 3404
- · straight version A/180°
- standard versions according to DIN are made of steel, zinc-plated and passivated, with cylindrical thread
- · for other types and materials, please see table, or upon request





Instru	Instructions for installation: necessary space								
e =	55 mm/2-11/64"	r =	16 mm/41/64"						
m =	32 mm/1-17/64"	g =	35 mm/1-25/64"						

GW	M	6 x 1.0	Ref No.:			
L1	L2	SW	Steel	Brass	SST303	SST316L
17	6	17mm HEX 🕳	4101704	4111704	4121704	4141704

(GW		M 8 x 1.0	Ref No.:				
	L1	L2	. SW	Steel	Brass	SST303	SST316L	
	17	6	17mm HEX ●	4101707	4111707	4121707	4141707	

G	W	M	8 x 1.25	Ref No.:			
L1		L2	SW	Steel	Brass	SST303	SST316L
17	7	6	17mm HEX 🕳	4101708	4111708	4121708	

GW	M	10 x 1.0	Ref No.:			
L1	L2	SW	Steel	Brass	SST303	SST316L
17	6	17mm HEX ◆	4101709	4111709	4121709	4141709
20	9	17mm HEX	4101713			

(GW	M	10 x 1.5	Ref No.:			
	L1	L2	SW	Steel	Brass	SST303	SST316L
	17	6	17mm HEX ●	4101711	4111711	4121711	

GW	M	12 x 1.0	Ref No.	:		
Ll	L2	SW	Steel	Brass	SST303	SST316L
17	6	17mm HEX ◆	4101732	2		

GW	M	12 x 1.5	Ref No.:			
L1	L2	SW	Steel	Brass	SST303	SST316L
17	6	17mm HEX ■	4101714	4111714	4121714	

GW	M	12 x 1.75	Ref No.	:		
Ll	L2	SW	Steel	Brass	SST303	SST316L
17	6	17mm HEX ●	410171	5	4121715)

GW	M	14 x 1.5	Ref No.	Ref No.:			
Ll	L2	SW	Steel	Brass	SST303	SST316L	
17	6	17mm HEX 🕳	4101717	7	4121716)	

GW	M	16 x 1.5	Ref No.:	Ref No.:					
LI	L2	SW	Steel	Brass	SST303	SST316L			
18	7	17mm HEX ●	4101719	4111715					

GW	G	1/8, 1/8 - 28 BSP	P Ref No.:			
Ll	L2	SW	Steel	Brass	SST303	SST316L
17	6	17mm HEX ●	4101761	4111761	4121761	4141761

G	W	G 1	/4, 1/4 - 19 BSPP	Ref No.:			
Ľ	1 L	2	SW	Steel	Brass	SST303	SST316L
1.7	7 6	,)	17mm HEX ◆	4101762	4111762	4121762	4141762

GW	G	3/8, 3/8 - 19 BSPP	Ref No.:			
Ll	L2	SW	Steel	Brass	SST303	SST316L
18	7	17mm HEX ◆	4101763	4111763	4121763	4141763

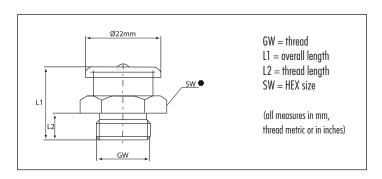
GW	1,	/4" - 18 NPT/PTF	Ref No.:	Ref No.:		
L1	L2	SW	Steel	Brass	SST303	SST316L
21	10	17mm HEX ◆	4101768			
21.5	11	17mm HEX ◆				4141768

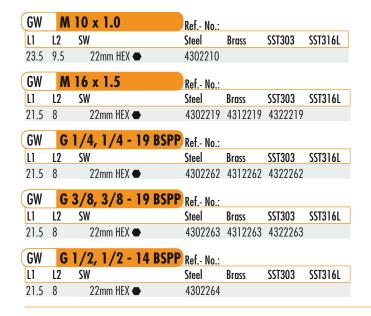
Type M22

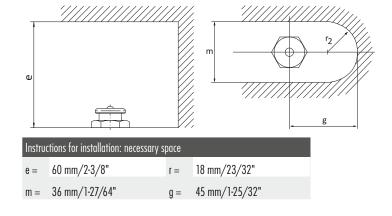
Button-Head Grease Nipples



- · head Ø 22 mm
- · according to DIN 3404
- · straight version A/180°
- standard versions according to DIN are made of steel, zinc-plated and passivated, with cylindrical thread
- · for other types and materials, please see table, or upon request



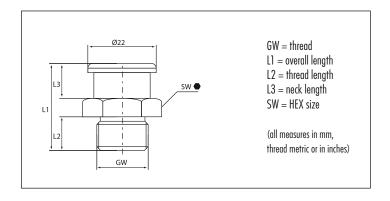




Type M22/L



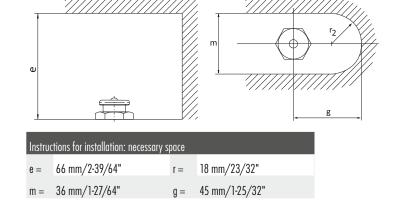
- · head Ø 22 mm
- · with extended neck
- according to DIN 3404
- · straight version A/180°
- standard versions according to DIN are made of steel, zinc-plated and passivated, with cylindrical thread
- · for other types and materials, please see table, or upon request





GW	G	3/8	, 3/8 - 19 BSPI	P Ref No.:	:		
Ll	L2	L3	SW	Steel	Brass	SST303	SST316L
28	11.5	11	22mm HEX	4402263	}		

	GW	G 1	/2,	1/2 - 14 BSPP	Ref No.:			
Ì	L1	L2	L3	SW	Steel	Brass	SST303	SST316L
	28	11.5	11	22mm HEX	4402264			

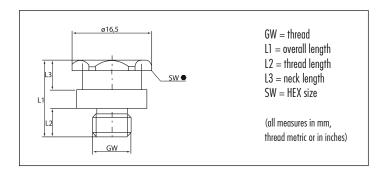




Type T1



- hexagonal head form, Hex size 15 mm
- · round collar, Ø 14.5 mm
- \cdot straight version A/180 $^\circ$
- · standard version made of steel, zinc-plated and passivated, with cylindrical thread
- · for other types and materials, please see table, or upon request





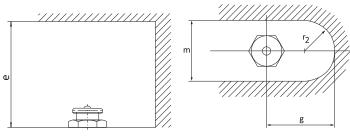
GW	M	M 8 x 1.0			Ref No.:				
Ll	L2	L3	SW	Steel	Brass	SST303	SST316L		
16	6	6.2	15mm HEX ◆	4501507	7				

GW	M	M 8 x 1.25			Ref No.:				
Ll	L2	L3	SW	Steel	Brass	SST303	SST316L		
16	6	6.2	15mm HEX ◆	450150	8				

GW	M	10 x	1.0	Ref No	.:		
L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6.2	15mm HEX ●	450150	9		

GW	M	M 10 x 1.5			Ref No.:					
L1	L2	L3	SW	Steel	Brass	SST303	SST316L			
16	6	6.2	15mm HEX	450151	1					

GW	G	1/8,	1/8 - 28 BSPP	Ref No.:				
Ll	L2	L3	SW	Steel	Brass	SST303	SST316L	
16	6	6.2	15mm HEX ■	4501561	4611560			



Instructions for installation: necessary space									
e =	55 mm/2-11/64"	r =	16 mm/41/64"						
m =	32 mm/1-17/64"	g =	35 mm/1-25/64"						

GW	G	1/4,	1/4 - 19 BSPP	Ref No.	.:		
L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6.2	15mm HEX ◆	450156	2		

GW	1,	/4" -:	28 NF/UNF/SAE	Ref No.	:		
L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6.2	15mm HEX ●	450153	7		

Type T1B



- · hexagonal head and collar, Hex size 15 mm
- \cdot straight version A/180 $^\circ$
- · standard versions according to DIN are made of steel, zinc-plated and passivated, with cylindrical thread
- · for other types and materials, please see table, or upon request

GW	M	6 x	1.0	Ref No.:					
L1	L2	L3	SW	Steel	Brass	SST303	SST316L		
16	6	6	15mm HEX ◆	4601504	4611504				

GW	M	8 x	1.0	Ref No.:				
L1	L2	L3	SW	Steel	Brass	SST303	SST316L	
16	6	6	15mm HEX ■	4601507	4611507			

GW	M	8 x	1.25	Ref No.:					
L1	L2	L3	SW	Steel	Brass	SST303	SST316L		
16	6	6	15mm HFX	4601508	4611508				

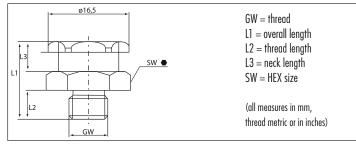
GW	GW M 10 x 1.0				Ref No.:				
Ll	L2	L3	SW	Steel	Brass	SST303	SST316L		
16	6	6	15mm HEX ●	4601509	4611509	4621509			

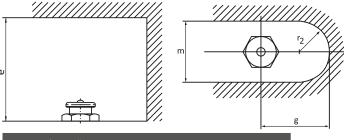
GW	M	10)	c 1.5	Ref No.:			
L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6	15mm HFX	4601511	4611511		

GW		N	112 x	1.5	Ref No.:					
	L1	L2	L3	SW	Steel	Brass	SST303	SST316L		
	16	6	6	15mm HFX -	4601514	4611514	4621514			

GW	M	12 x	1.75	Ref No	.:		
L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6	15mm HEX ●	460151	6		

GW	G	1/8,	1/8 - 28 BSPP	Ref No.:			
L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6	15mm HFX	4601561	4611561	4621561	4641561





Instru	Instructions for installation: necessary space								
e =	55 mm/2-11/64"	r =	16 mm/41/64"						
m =	32 mm/1-17/64"	g =	35 mm/1-25/64"						

GW	G	1/4,	1/4 - 19 BSPP	Ref No.:			
Ll	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6	15mm HEX ●	4601562	4611562	4621562	4641562

GW	GW G 3/8, 3/8 - 19 BSPP				Ref No.:				
L1	L2	L3	SW	Steel	Brass	SST303	SST316L		
16	6	6	15mm HFX	5372717	,				

GW	1	/8" -	27 NPT/PTF	Ref No	ı.:		
L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6	15mm HEX ●				4641567

GW	1,	/4" -	28 NF/UNF/SAI	Ref No	.:		
L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6	15mm HEX ■	460153	17		

(GW	3/	8" -	24 NF/UNF/SAE	Ref No.:			
	L1	L2	L3	SW	Steel	Brass	SST303	SST316L
	16	6	6	15mm HEX ◆	4601539			



BUTTON-HEAD GREASE NIPPLES - SPECIAL DESIGNS

The following types are representing only the most commonly used special-type nipples. For individual applications, UMETA manufactures button-head grease nipples with special equipment in other versions, with respect to the following:

- · dimension
- · material



Button head grease nipple with check valve

Type M1 or Type M22



- Type M1, head-Ø 16 mm or Type M22, head-Ø 22 mm
- · straight version A/180°
- · made of steel, zinc-plated and passivated, with tapered thread
- · as high-pressure version with pin valve upon request

GW = thread, L1 = overall length, L2 = thread length, W = angle, SW = HEX size (all measures in mm, thread metric or in inches)

APPLICATION AREA

Due to the special check valve, the lubricating point will be sealed hermetically after the greasing operation. As a result, internal impulse-like pressures up to 1.000 bar (14,500 PSI) can be attained, depending on the respective application. Particularly suitable for the Heavy Industry, Heavy Vehicle Industry.

CW	88	1/	1.5				
GW	IAI	16 x	1.3		Ref No.:		
L1	L2	W	Тур	SW	Steel	Brass	SST303
32	12		M 22	22mm HEX	5240013		
70	20		M 1	22mm HEX	5240020		
GW	R	1/4,	1/4	- 19 BSP	Ref No.:		
L1	L2	W	Тур	SW	Steel	Brass	SST303
22	11.5		M 1	17mm HEX 🕳	5376214		
GW	G	3/8,	3/8	- 19 BSPP	Ref No.:		
L1	L2	W	Тур	SW	Steel	Brass	SST303
23	13		M 1	17mm HEX 🕳	5376314		
33	13	60°	M 22	22mm HFX -	5240048		

OPERATING INSTRUCTIONS

ATTENTION! During dismantling, utmost caution is required because of the possible pressure load. Dismantling should be done by experienced personnel only!

GW	1/	4" -	18 NI	PTF	Ref No.:		
Ll	L2	W	Тур	SW	Steel	Brass	SST303
21	10.7		M 1	17mm HEX	5240046		
35	15	30°	M 22	22mm HEX	5240061		
GW	3/	8" -	18 NI	PT/PTF	Ref No.:		
L1	L2	W	Тур	SW	Steel	Brass	SST303
33	14	60°	M 22	22mm HEX	5240062		
GW	1/	′2" -	14 NF	T	Ref No.:		
L1	L2	W	Тур	SW	Steel	Brass	SST303
29	13		M 22	22mm HEX 👄	5240063		
41.5	19	60°	M 22	22mm HEX	5240009		

Button-head grease nipple with screwable protection cap Type M1

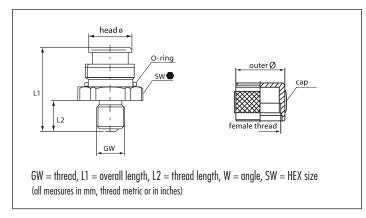
- · head Ø 16 mm
- · straight version A/180°
- · with o-ring for sealing against dust and humidity
- · with cylindrical thread











APPLICATION AREA

For additional locking against internal pressure and as protection against contamination. Particularly suitable for plant engineering valves and for exposed lubricating points.

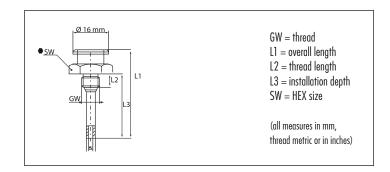
GW	M	10 x 1.0	Ref No.:
Ll	L2	SW	Steel Brass SST303 SST316L
31	11.5	22mm HEX	5544057 5544053
GW	W	12 x 1.5	Ref No.:
Ll	L2	SW	Steel Brass SST303 SST316L
31	11.5	22mm HEX ●	5544056

GW	R 1	/4, 1/4 - 19 BSP	Ref No	.:		
L1	L2	SW	Steel	Brass	SST303	SST316L
31	11.5	22mm HEX ■	554405	4		

Button head grease nipple with extension Type M1



- · head Ø 16 mm
- \cdot straight version A/180 $^\circ$
- made of steel, zinc-plated and passivated
- head hardened according to DIN with cylindrical thread
- · with press-fitted extension for exact grease flow



APPLICATION AREA

For deep seated lubrication points, which can be serviced sufficiently through the extension, e. g. for drive shafts.

GW		N 8 x	1.0		Ref No.:			
L1	L2	L3	SW		Steel	Brass	SST303	SST316L
40	6	23	1	7mm HEX 🗢	5240067			



UMETA BAYONET GREASE NIPPLES

APPLICATION AREA

An especially strong and reliable connection with the grease nipple will be achieved by using the bayonet coupler. The construction design also results in a specific high flow-rate of grease. Particularly suitable for the Heavy Industry, for example Ship Building.

OPERATING INSTRUCTIONS

As suitable lubricating nozzle, we recommend our bayonet coupler.



VERSIONS

In general, our bayonet nipples are made of steel, zinc-plated and passivated, and they are featured with a tapered thread. We offer various standard types also in brass or stainless steel 1.4305 ~ ASTM 303 (V2A). Upon request, UMETA manufactures bayonet grease nipples

in other versions, with respect to the following:

- · dimension
- · material
- · thread size
- · thread form (e. g. with cylindrical thread)
- · opening pressure
- $\cdot \text{ etc.}$







Type B1



Bayonet Grease Nipples

- · head Ø 9.9 mm
- · straight version A/180°
- · standard version made of steel, zinc-plated and passivated, with tapered thread
- · for other types and materials, please see table, or upon request

Ø 9,9 mm	GW = thread L1 = overall length L2 = thread length SW = HEX size
L2	(all measures in mm, thread metric or in inches)

GW	M	16 x 1.5	Ref No	.:		
Ll	L2	SW	Steel	Brass	SST303	SST316L
25	6.5	17mm HEX ●	914941	8		

GW	R	1/8, 1/8 - 28 BSP	Ref No.:			
Ll	L2	SW	Steel	Brass	SST303	SST316L
24	5.5	11mm HEX ◆	9149415	9155416	9157420	

GW	R	1/4, 1/4 - 19 BSP	Ref No.:			
Ll	L2	SW	Steel	Brass	SST303	SST316L
25	6.5	14mm HEX 👄	9149416	9156416	9157421	

GW	R 3	/8, 3/8 - 19 BSP	Ref No.:			
Ll	L2	SW	Steel	Brass	SST303	SST316L
25	6.5	17mm HEX 👄	9149417	9157416		

GW	1/4" - 18 NPT/PTF	Dof No.			
11	12 CW	Ctool	Drace	CCTONO	CCT2141

Steel

SST303

SST316L

- (UW	1/	4 - IONFI/FIF	Ret No	.:		
	L1	L2	SW	Steel	Brass	SST303	SST316L
	25	6.5	14mm HEX ◆		9109416		

UMETA GREASE NIPPLE ASSORTMENTS

UMETA's variety of grease nipple attachments can be trusted to always have the right one available. The kits carry an assortment that should cover all application purposes. In case you require a different assortment, UMETA will be happy to handle this on a case to case basis requiring a minimum order.



Sort 170

Steel, zinc-plated and passivated

consisting of:	UMETA T	Sort 80	Sort 170	Sort 350
Ref No.:	UMETA-Type	6008100	6017140	6035140
1100704	H 1, M 6 x 1.0	15	40	50
1100907	H 1, M 8 x 1.0	15	30	40
1101109	H 1, M 10 x 1.0	10	20	35
1101156	H 1, R 1/8"	10	15	30
1101457	H 1, R 1/4"	_	10	15
1204504	H 2, M 6 x 1.0	5	5	25
1204507	H 2, M 8 x 1.0	5	5	20
1204709	H 2, M 10 x 1.0	5	5	15
1204756	H 2, R 1/8"	_	5	15
1201457	H 2, R 1/4"	_	_	10
1304504	H 3, M 6 x 1.0	5	5	20
1304507	H 3, M 8 x 1.0	5	5	15
1304709	H 3, M 10 x 1.0	5	5	15
1304756	H 3, R 1/8"	_	5	15
1301457	H 3, R 1/4"	_	_	15
4101709	M 1, M 10 x 1.0	_	5	5
4101761	M 1, G 1/8"	_	5	_
4101762	M 1, G 1/4"	_	5	_
4302262	M 22, G 1/4"	_	_	5
7351311	515/G, M 10 x 1.0	_	_	2
Total number of pi	eces	80	170	350

Stainless steel SST303 (V2A)

consisting of: Ref No.:	UMETA-Type	Sort 80 6008102	Sort 170 6017141	Sort 350 upon request
1120704	H 1, M 6 x 1.0	15	40	
1120907	H 1, M 8 x 1.0	15	30	
1121109	H 1, M 10 x 1.0	10	20	
1121156	H 1, R 1/8"	10	15	
1121457	H 1, R 1/4"	_	10	
1220904	H 2, M 6 x 1.0	5	5	
1220907	H 2, M 8 x 1.0	5	5	
1221109	H 2, M 10 x 1.0	5	5	
1221156	H 2, R 1/8"	_	5	
1320904	H 3, M 6 x 1.0	5	5	
1320907	H 3, M 8 x 1.0	5	5	
1321109	H 3, M 10 x 1.0	5	5	
1321156	H 3, R 1/8"	_	5	
4121709	M 1, M 10 x 1.0	_	5	
4121761	M 1, G 1/8"	_	5	
4121762	M 1, G 1/4"	_	5	
Total number of p	ieces	80	170	

dimension (L x W x H) in cm: Sort $80 = 17.0 \times 11.5 \times 3.0$ Sort $170 = 21.0 \times 13.0 \times 3.5$ Sort $350 = 25.0 \times 18.0 \times 4.5$



UMETA ACCESSORIES FOR GREASE NIPPLES



UMETA Plastic Protection Caps

- · suitable for grease nipples with hydraulic head according to DIN 71412
- \cdot suitable for a temperatur of approx. 70°C up to + 85°C

The protection caps are available with or without straps and in various colours. They are used for protecting the lubricating point against contamination and for indicating the lubricating intervals by colour coding.

Туре		Ref No.:
SK-R	*	9500110
SK-RL		9500111
SK-V		9500120
SK-VL		9500121

Туре		Ref No.:
SK-G	8	9500130
SK-GL		9500131
SK-B	*	9500140
SK-BL	-	9500141



UMETA Rubber Protection Caps

· suitable for grease nipples with button head M1 according to DIN 3404

suitable for grease nipples with	Ref No.:
button head M1 according to DIN 3404	9500210



UMETA Alu Protection Caps

- · suitable for grease nipples with hydraulic-type or button-head according to DIN 71412 and DIN 3404
- \cdot suitable for a temperatur of 30°C up to + 120°C

For an especially easy clip-on and take-off. Optionally our aluminium protection caps can be anodised in colours for indicating the lubricating intervals.

suitable for grease nipples with	Ref No.:
hydraulic head according to DIN 71412	9500200
button head M1 according to DIN 3404	9500201



UMETA Drive-in Tool

· for safe drive-in of straight drive-in or serrated ridge nipples

suitable for grease nipples with	Ref No.:
ball-type or hydraulic head according to DIN	5800058
ball-type or hydraulic head according to SAE	5800059



UMETA GREASE FITTINGS ACCORDING TO SAE J-534

VERSIONS

In general, our grease fittings according to SAE are made of steel, case hardened, zinc-plated, passivated and featured with a special surface treatment. For safety reasons and in order to avoid abrasion wear, the standard for SAE-grease fittings demands a specific surface hardness of 83 HR15 N minimum according to Rockwell hardness test procedure.

SPECIAL INFORMATION

For a better overview we added the international Alemite-reference numbers to our grease fittings. A general comparison of the relevant types you will find on page 78.

UMETA HYDRAULIC-TYPE GREASE FITTINGS ACCORDING TO SAE J-534



The SAE-standard for hydraulic-type grease fittings requires a tapered thread. The standard head- \emptyset is 6.6 (+/- 0.3) mm / 0.26" (+/- 0.012").

OPERATING INSTRUCTIONS

As suitable lubricating nozzle for our hydraulic-type fittings, we recommend our hydraulic couplers.

Type H1



Hydraulic-Type Grease Fittings

- · according to SAE J-534
- · straight version A/180°
- standard versions according to SAE are made of steel, hardened, zinc plated, passivated and top coated
- · salt spray resistance > 72 hours

SW. SW.	GW = thread L1 = overall length L2 = thread length L3 = shank length SW = HEX size
----------	--

(GW	1/8" PTF				Ref No.:		
	L1	L2	L3	SW		Steel	SST303	Alemite
	11/16"	5/32"	19/64"		7/16"HEX ●	5546006		1610-BL
	9/16"	5/32"	15/64"		7/16"HEX ●	5546008		1644-B
	1 1/4"	5/16"	25/32"		7/16"HEX ●	5546010		1607-B
	1 3/4"	5/16"	1 17/64"		7/16"HEX ●	5546012		1669-B
	2 5/8"	5/16"	2 3/16"		3/8"HEX ●	5546014		1684-B
	3/4"	3/16"	5/16"		7/16"HEX ●		5546086	1961-S
	1"	9/32"	5/16"		1/2"HEX ●	*1) 5546016		1618-B

GW	1/4" PTF			Ref No.:		
Ll	L2	L3	SW	Steel	SST303	Alemite
7/8"	15/64"	27/64"	9/16"HEX ●	5546028		1627-B
7/8"	25/64"	27/64"	15 mm HEX		5546154	-

GW	1/4" - 28	B SAE-LT		Ref No.:	
L1	L2	L3	SW	Steel	SST303 Alemite
35/64"	7/64"	3/16"	5/16"HEX ●	5546030	1641-B
11/16"	13/64"	23/64"	5/16"HEX ●	5546032	1652-B
31/32"	13/64"	5/8"	5/16"HEX ●	5546034	1680-B
1 1/8"	13/64	25/32"	5/16"HEX ●	5546036	1698-B
1 5/8"	13/64"	1 9/32"	5/16"HEX ●	5546038	3014-B
17/32"	7/64"	3/16"	5/16"HEX ●		5546087 1966-S

(GW	1/4" - 2	28 UNF-2	A		Ref	No.:		
	Ll	L2	L3	SW		Stee		SST303	Alemite
	33/64"	5/64"	5/32"		9/32"HEX ●	554	6106		1792-B

(GW	3/8" - 1	8 NPTF		Ref No.:			
	[]	L2	L3	SW	Steel	SST303	Alemite	
	20 mm	8 mm		17 mm HEX 🕳	*2) 5547001			

(GW	6/40"	UNF-2A			Ret No.:			
Ll	L2	L3	SW		Steel	SST303	Alemite	
1/2"	7/64"	1/8"		1/4"HEX ●	*3) 5546507		3018	

GW	10/32"	UNF-ZA			Kei No		
L1	L2	L3	SW		Steel	SST303	Alemite
1/2"	7/64"	1/8"		1/4"HEX ●	*3) 5546503		3016

Dot No

Type H1 Hydraulic-Type Grease Fitting with pin valve, leakproof

GW	1/8" PTF			Ref No.:		
Ll	L2	L3	SW	Steel	SST303	Alemite
3/4"	17/64"	5/16"	7/16"HEX ●	5546110		1650

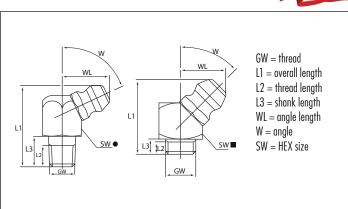
- *1) female thread
- *2) molybdenum-surface finish
- *3) no ball check



Type H2

Hydraulic-Type Grease Fittings

- \cdot according to SAE J-534
- \cdot elbow version B 30°/45°/65°/67°
- · optionally available with square or hexagonal body
- standard versions according to SAE are made of steel, zinc-plated, passivated and top coated, head hardened
- \cdot salt spray resistance > 72 hours



(GW	1/8" P	TF					Ref No.:		
Ll	L2	L3	WL	W	SW		Steel	SST303	Alemite
29/32"	19/64"	19/64"	11/32"	30°		7/16" HEX ●	5546152		1611-B
29/32"	19/64"	19/64"	11/32"	30°		7/16" HEX ●		5546153	1921-S
57/64"	3/16"	19/64"	29/46"	45°		7/16" HEX ●	5546017		1688-B
27/32"	3/16"	19/64"	1/2"	65°		7/16" HEX ●	5546018		1612-B
17/32"	3/16"	9/16"	1/2"	65°		7/16" HEX ●	5546020		1623-B
2 3/4"	11/32"	2 1/4"	1/2"	65°		3/8" HEX ●	5546022		1649-B
61/64"	7/32"	11/32"	1/2"	67°		7/16" HEX ●		5546090	1922-S

GW	W 1/4" - 28 SAE-LT						Ref No.:		
L1	L2	L3	WL	W	SW		Steel	SST303	Alemite
13/16"	7/64"	13/64"	13/32"	45°		3/8" HEX ●	5546040		1637-B1
25/32"	13/64"	19/64"	15/32"	65°		3/8" HEX ●	5546042		3010-B1
13/16"	13/64"	13/64"	19/32"	45°		3/8" HEX ●		5546085	1968-S

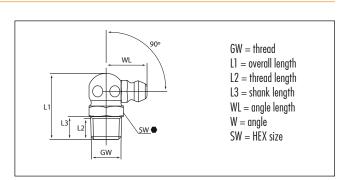
GW	1/4" -	- 28 UI	NF-2A		Ref No.:						
L1	L2	L3	WL	W	SW		Steel	SST303	Alemite		
39/64"	5/64"	1/8"	13/32"	45°		*9 mm SQ ■	5546108		1770-B1		

Type H3



Hydraulic-Type Grease Fittings

- · according to SAE J-534
- · elbow version C/90°
- standard versions according to SAE are made of steel, zinc-plated, passivated and top coated, head hardened
- \cdot salt spray resistance > 72 hours



(GW	1/8" P	TF				Ref No.:		
Ll	L2	L3	WL	W	SW	Steel	SST303	Alemite
27/32"	3/16"	19/64"	17/32"	90°	7/16" HEX ●	5546024		1613-B
1 13/16	5" 5/16"	1 1/4"	17/32"	90°	7/16" HEX ●	5546026		1606-B
7/8"	7/32"	11/32"	17/32"	90°	7/16" HEX ●		5546088	1923-S

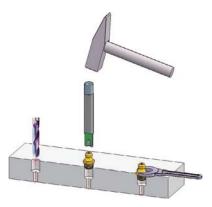
GW	GW 1/4" - 28 SAE-LT					Ref No.:		
L1	L2	L3	WL	W S	W	Steel	SST303	Alemite
3/4"	7/64"	13/64"	1/2"	90°	3/8" HEX 🔷	5546044		1911-B1
3/4"	7/64"	13/64"	1/2"	90°	3/8" HEX ●		5546089	1969-S



HYDRAULIC GREASE FITTINGS WITH SELF-FORMING THREAD ACCORDING TO SAE J-534

VERSIONS

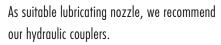
For safety reasons and in order to avoid abrasion wear, the standard for SAE-grease fittings demands a specific surface hardness of 83 HR15 N minimum according to Rockwell hardness test procedure. Furthermore, a particularly wide flank angle of 90° at the thread is stipulated therein. For a better visual distinction, UMETA self-forming grease fittings are yellow passivated. Upon request, they are also available in another surface colour, e. g. blue passivated = silver coloured.



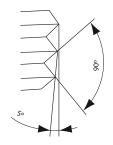
MOUNTING INSTRUCTIONS

The exact size of the core hole depends on the material and must be determined by mounting tests. The consistency of the receiving material is decisive. The standard gauge for the installation bore diameter of 0.4-0.5~mm~(0.02") below nominal width have proved in daily use. The recommended borehole \emptyset is listed with the part number.

OPERATING INSTRUCTIONS







flank angle (X)

Type H1/S



Hydraulic-Type Grease Fittings with Self-Forming Thread

- \cdot according to SAE J-534
- · straight version A/180°
- · with self-forming thread, tapered
- standard version made of steel, according to SAE hardened, yellow passivated and top coated
- \cdot salt spray resistance > 72 hours

L1 SW •	SFG = self-forming thread (SFT) L1 = overall length L2 = thread length SW = HEX size X = flank angle
---------	--

SFG	1/8" Spe	ecial Taper Pip	e Thread	Ref No.:	
L1	L2	for bore-Ø S	W	Steel	Alemite
5/8"	15/16"	0.373-0.380"	7/16" HEX 🕳	5546052	1720-B

SFG	1/4" - 28	8 Special Tapeı	r Thread	Ref No.:	
L1	L2	for bore-Ø SW	1	Steel	Alemite
37/64"	13/64"	0.230"-0.235"	5/16" HEX ●	5546046	3038-B

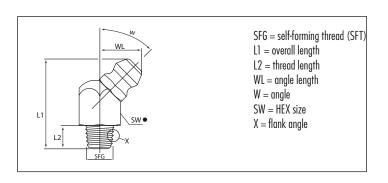
Type H2/S



Hydraulic-Type Grease Fittings with Self-Forming Thread

- · according to SAE J-534
- · elbow version B 45°/65°
- · with self-forming thread, tapered
- · standard version made of steel, according to SAE hardened, yellow passivated and top coated
- · salt spray resistance > 72 hours

(SFG	1/8" S	pecial '	Taper	Pipe Threa	d		Ref No.:	
	Ll	L2	WL	W	for bore-Ø	SW		Steel	Alemite
	3/4"	13/64"	1/2"	65°	0.373-0.380"	7/16"	HEX 🕳	5546054	1722-B



(SFG 1/4" - 28 Special				8 Special Taper Thread			Ref No.:		
					for bore-Ø S			Steel	Alemite	
	13/16"	13/64"	25/64"	45°	0.230"-0.235"	3/8" I	HEX 🕳	5546048	3053-B	



Type H3/S



Hydraulic-Type Grease Fittings with Self-Forming Thread

- · according to SAE J-534
- · elbow version C/90°
- · with self-forming thread, tapered
- standard version made of steel, according to SAE hardened, yellow passivated and top coated
- \cdot salt spray resistance > 72 hours

UL 90° WL 90° SW.●	SFG = self-forming thread (SFT) L1 = overall length L2 = thread length WL = angle length W = angle SW = HEX size X = flank angle
--------------------	--

SFG	1/8" \$	pecial	Taper	Pipe Threa	d		Ref No.:	
L1	L2	WL	W	for bore-Ø	SW		Steel	Alemite
49/64"	13/64"	17/32"	90°	0.373-0.380"	7/16"	HEX $lacktrian$	5546056	1723-B

SFG	1/4" -	28 Sp	ecial	Taper Thread		Ref No.:	
Ll	L2	WL	W	for bore-Ø S	SW .	Steel	Alemite
3/4"	13/64"	1/2"	90°	0.230"-0.235"	3/8" H	EX - 5546050	3054-B

UMETA HYDRAULIC-TYPE GREASE FITTINGS - DRIVE-IN VERSION (USA VERSION)

VERSIONS

Drive-in fittings as standard version are made of steel, case-hardened, zinc-plated, passivated and top coated.

MOUNTING INSTRUCTIONS

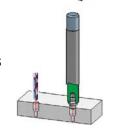
The exact size of the core hole depends on the material and must be determined by mounting tests. The standard gauge for the installation bore diameter corresponds to the nominal width of the serrated ridge-Ø.

OPERATING INSTRUCTIONS

Since this type of grease fitting is only driven in, it may get loose by

- strong vibrations
- · high back-pressure when greasing with automatic guns
- · pulling off the hydraulic coupler.

Drive-in type hydraulic grease fittings should only be lubricated by a hydraulic nozzle.





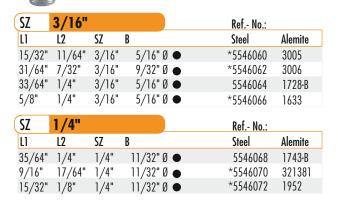
Type H1a

Hydraulic-Type Grease Fittings - Drive-in Type



- · with serrated ridge
- standard version made of steel, according to SAE hardened, zinc plated, passivated and top coated
- · salt spray resistance > 72 hours

L1 L2 SZ	SZ = drill size L1 = overall length L2 = shank length B = collar Ø
----------	---



SZ	5/16"				Ref No.:	
L1	L2	SZ	В		Steel	Alemite
35/64"	1/4"	5/16"	3/8" Ø	•	5546074	1608-B
5/8"	7/32"	5/16"	3/8" Ø	•	*5546076	1699
(a=						
(SZ	6.35 m	m, 1/	4" Ø		Ref No.:	
L1	L2	SZ		В	Steel	Alemite
15 mm	6.3 mm	6.35 m	m, 1/4" Ø	8 mm Ø ●	5241043	
(SZ	3/8"				Ref No.:	
L1	L2	SZ	В		Steel	Alemite
37/64"	7/32"	3/8"	7/16" Ø		*5546078	1666

*no ball check

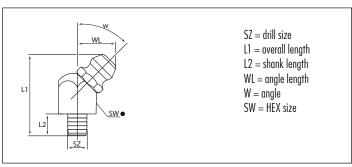


Type H2a



Hydraulic-Type Grease Fittings - Drive-in Type

- · elbow version B/45°/67°
- · with serrated ridge
- · standard version made of steel, according to SAE zinc plated, passivated and top coated, head hardened
- \cdot salt spray resistance > 72 hours

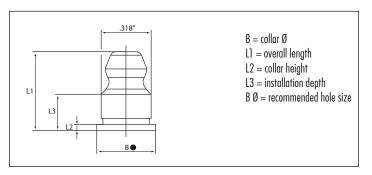


(SZ	3/16"					Ref No.:	
L1	L2	WL	W	SZ	SW	Steel	Alemite
53/64"	7/32"	13/32"	45°	3/16"	3/8" HEX ●	5546080	1992-B1
45/64"	7/32"	1/2"	65°	3/16"	3/8" HEX ●	5546082	1646-B1



Hydraulic-Type Grease Fittings

- Rivet Type
- · designed for mounting on the back side of thin-walled sheet metal
- · standard version made of steel, according to SAE hardened, zinc plated, passivated and top coated
- \cdot salt spray resistance > 72 hours



B Ø	5/16"				Ref No.:	
Ll	L2	L3	for bore Ø	В	Steel	Alemite
1/2"	5/128"	15/64"	5/16"	3/8"∅ ●	5546122	1675-B

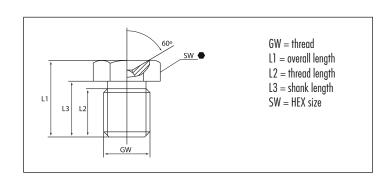
UMETA FLUSH-TYPE GREASE FITTINGS (USA VERSION)

Type D1

Flush-Type Grease Fittings



- · made of steel, zinc plated, passivated and top coated
- · salt spray resistance > 72 hours





GW	1/4" -	28 NF		Ref No.:	
L1	L2	L3	SW	Steel	Alemite
13/32"	3/16"	19/64"	5/16" HEX 🖜	5546130	1851





Type DV1

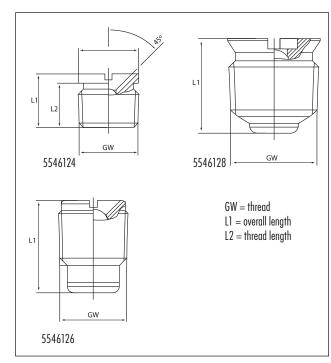
Flush-Type Grease Fittings



- · for even mounting without projection
- · straight version A/180°
- · made of steel, zinc-plated, passivated and top coated
- \cdot salt spray resistance > 72 hours

GW	1/8" NPTF	Ref No.:	
L1	L2	Steel	Alemite
23/64"	19/64"	5546124	1815
17/32"	•	5546126	1452

GW	1/4" NPTF	Ref No.:	
Ll	L2	Steel	Alemite
9/16"		5546128	Z741-A



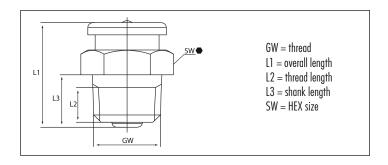
UMETA BUTTON-HEAD GREASE FITTINGS ACCORDING TO SAE J-534

Type M1

Button-Head Grease Fittings



- · head Ø 15.5 mm (5/8")
- · according to SAE J-534
- · straight version A/180°
- · standard versions according to SAE are made of steel, hardened, zinc plated, passivated and top coated
- · salt spray resistance > 72 hours





GW	GW 1/8" PTF				Ref No.:		
Ll	L2	L3	SW		Steel	SST303	Alemite
3/4"	3/16"	11/32"		5/8" HEX ●	5546112		1184-B

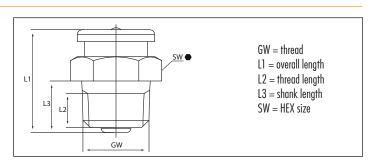
GW	1/4" NI	PTF		Ref No.:	Ref No.:			
L1	L2	L3	SW	Steel	SST303	Alemite		
53/64"	17/64"	27/64"	5/8" HEX	*55461	14	A1186		
53/64"	17/64"	27/64"	5/8" HEX	55461	16	1186-B		

Type M1 according to ISO 2768-m - stainless steel

Button-Head Grease Fittings

- \cdot head Ø 15.5 mm (5/8")
- · according to ISO 2768 m
- · straight version A/180°
- · made of stainless steel 1.4305 ~ ASTM 303 (V2A)

(GW	1/8" PT	F		Ref No.:		
	L1	L2	L3	SW	Steel	SST303	Alemite
	18 mm	4.8 mm	7.5 mm	17 mm HEX 🕳		5547020	-
1	2111	- /					
	GW	1/4" - 1	8 NPTF		Ref No.:		
	L1	L2	L3	SW	Steel	SST303	Alemite
	21 mm	6.75 mm	10.7 mm	17 mm HFX		5547021	



G	W 3	3/8" N	IPTF		Ref No.:				
Ľ	1	L2	L3	SW	Steel	SST303	Alemite		
2	3.5 mm	13 mm	13 mm	19 mm HEX 🕳		5547022			

*with plunger check

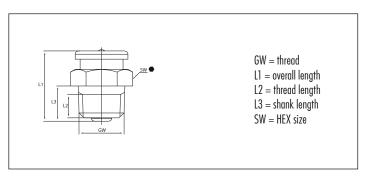


Type M22

Umeta Button-Head Grease Fittings with plunger check



- · head Ø 21.9 mm (7/8")
- · according to SAE J-534
- · straight version A/180°
- standard versions according to SAE are made of steel, hardened, zinc plated, passivated and top coated
- \cdot salt spray resistance > 72 hours



GW 1/2" N.PTF				Ref No.:				
L1	L2	L3	SW		Steel	SST303	Alemite	
1 1/6"	25/64"	1/2"	7/8" HEX	•	*5546120		1820-1	

*with plunger check

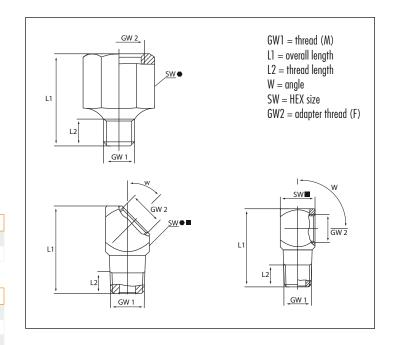
UMETA ADAPTER (USA VERSION)

Adapters / elbow bodies



- \cdot elbow version $180^{\circ}/45^{\circ}/90^{\circ}$
- · optionally available with square or hexagonal body
- · standard version made of steel, according to SAE zinc plated, passivated and top coated
- · salt spray resistance > 72 hours

	GW1 (M)	1/8"	- 27	NPT/PTF			Ref No.:	
	L1	L2	W	GW2 (F)	SW		Steel	Alemite
	1"	7/32"	45°	1/8" - 27 NPT/PTF	1/2" SQ		5546134	43716
	1 1/8"	17/64"	90°	1/8" - 27 NPT/PTF	1/2" SQ		5546132	43706
	0117 (11) 2 (41) 00 117 (11) 2 (42)							
	GW1 (M)	1/4"	- 28	NF/UNF/SAE			Ref No.:	
(GW1 (M) Li	1/4" L2	- 28 W	NF/UNF/SAE GW2 (F)	SW		Ref No.: Steel	Alemite
						•		Alemite 51942
	L1 3/4"	L2	W	GW2 (F)	SW	•	Steel	
	L1 3/4"	L2 13/64"	W 180°	GW2 (F) 1/8"-NPTF	SW 1/2" HEX	•	Steel 5546135	51942



UMETA GREASE FITTING ASSORTMENTS ACCORDING TO SAE J-534

UMETA's grease fitting assortments ensure you always have the right one available. The kits carry an assortment that should cover all application purposes.

Sort 110



- standard version according to SAE, made of steel, hardened, zinc plated, passivated and top coated
- · salt spray resistance > 72 hours

Sort 110 consisting of: Ref No.:	UMETA-Type	Alemite-Type	6110100 Steel Quantity
5546006	H1, 1/8" PTF, 11/16"	1610-BL	25
5546040	H2, 1/4" - 28 SAE-LT, 13/16"	1637-B1	15
5546024	H3, 1/8" PTF, 27/32"	1613-B	15
5546030	H1, 1/4" - 28 SAE-LT, 35/64"	1641-B	25
5546017	H2, 1/8" PTF, 57/64"	1688-B	15
5546044	H3, 1/4" - 28 SAE-LT, 3/4"	1911-B1	15
Total number of	pieces		110





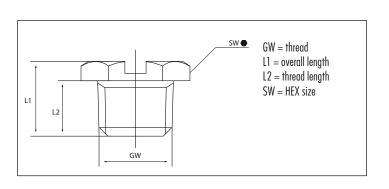
UMETA TURNED PARTS ACCORDING TO SAE J-534

Plugs



- · according to SAE J-534
- · for subsequent closing of boreholes
- · made of steel, zinc-plated, passivated and top coated
- \cdot salt spray resistance > 72 hours

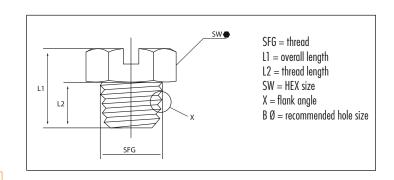
GW	1/4" -	28 UNF-2A	Ref No.:	
Ll	L2	Thread	Steel	Alemite
1/4"	3/16"	5/16" HEX ●	5546138	328224



Plugs with Self-Forming Thread

- · according to SAE J-534
- · with self-forming thread, tapered
- · standard version made of steel, hardened according to SAE (650HV) and yellow passivated
- $\cdot \text{ salt spray resistance} > 72 \text{ hours}$
- $\cdot \mbox{ recommanded hole size} = 0.02 \mbox{" below} \\ \mbox{ nominal width}$

SFG	1/4" -	28 Special Tap	er Thread	Ref No.:	
L1	L2	for bore-Ø SV	N	Steel	Alemite
21/64"	3/16"	0.230"-0.235"	5/16" HEX ●	5546140	328435



International Reference Chart

Ref No.	:	Page	5546052	1720-B	73	5546120	1820-1	77
UMETA	Alemite		5546054	1722-B	73	5546122	1675-B	75
5241043		74	5546056	1723-B	74	5546124	1815	76
5546006	1610-BL	71	5546060	3005	74	5546126	1452	76
5546008	1644-B	71	5546062	3006	74	5546128	Z741-A	76
5546010	1607-B	71	5546064	1728-B	74	5546130	1851	75
5546012	1669-B	71	5546066	1633	74	5546132	43706	77
5546014	1684-B	71	5546068	1743-B	74	5546134	43716	77
5546016	1618-B	71	5546070	321381	74	5546135	51942	77
5546017	1688-B	72	5546072	1952	74	5546138	328224	78
5546018	1612-B	72	5546074	1608-B	74	5546140	328435	78
5546020	1623-B	72	5546076	1699	74	5546152	1611-B	72
5546022	1649-B	72	5546078	1666	74	5546153	1921-S	72
5546024	1613-B	72	5546080	1992-B1	75	5546154		71
5546026	1606-B	72	5546082	1646-B1	75	5546157	310912	77
5546028	1627-B	71	5546085	1968-S	72	5546159	51943	77
5546030	1641-B	71	5546086	1961-S	71	5546503	3016	71
5546032	1652-B	71	5546087	1966-S	71	5546507	3018	71
5546034	1680-B	71	5546088	1923-S	72	5547001		71
5546036	1698-B	71	5546089	1969-S	72	5547020		76
5546038	3014-B	71	5546090	1922-S	72	5547021		76
5546040	1637-B1	72	5546106	1792-B	71	5547022		76
5546042	3010-B1	72	5546108	1770-B1	72	6110100		77
5546044	1911-B1	72	5546110	1650	71			
5546046	3038-B	73	5546112	1184-B	76			
5546048	3053-B	73	5546114	A1186	76			

5546116 1186-B

76

1452 5546126 76 1627-B 5546028 71 1633 5546066 74 1637-B1 5546040 72 1650 5546110 71 1641-B 5546030 71 1666 5546078 74 1644-B 5546082 75 1699 5546076 74 1646-B1 5546082 75 1815 5546124 76 1649-B 5546022 72 1851 5546130 75 1652-B 5546032 71 1952 5546072 74 1669-B 5546012 71 3005 5546060 74 1675-B 5546122 75 3016 5546503 71 1684-B 5546014 71 3018 5546507 71 1688-B 5546014 71 43706 5546132 77 1698-B 5546036 71 43716 5546134 77 1720-B 5546052 73 5194						
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1633 5546066 74 1637-B1 5546040 72 1650 5546110 71 1641-B 5546030 71 1666 5546078 74 1644-B 5546008 71 1699 5546076 74 1646-B1 5546022 72 1815 5546124 76 1649-B 5546022 72 1851 5546130 75 1652-B 5546032 71 1952 5546072 74 1669-B 5546012 71 3005 5546060 74 1675-B 5546122 75 3016 5546503 71 1680-B 5546014 71 3018 5546507 71 1688-B 5546014 71 43706 5546132 77 1698-B 5546036 71 43716 5546134 77 1720-B 5546052 73 51942 5546135 77 1723-B 5546054 74 118	Alemite	UMETA		1623-B	5546020	72
1650 5546110 71 1641-B 5546030 71 1666 5546078 74 1644-B 5546008 71 1699 5546076 74 1646-B1 5546082 75 1815 5546124 76 1649-B 5546022 72 1851 5546130 75 1652-B 5546032 71 1952 5546072 74 1669-B 5546012 71 3005 5546060 74 1675-B 5546122 75 3016 5546503 71 1688-B 5546014 71 3018 5546507 71 1688-B 5546014 71 43706 5546132 77 1698-B 5546036 71 43716 5546134 77 1720-B 5546052 73 51942 5546135 77 1723-B 5546054 73 51943 5546159 77 1723-B 5546064 74 118	1452	5546126	76	1627-B	5546028	71
1666 5546078 74 1644-B 5546008 71 1699 5546076 74 1646-B1 5546082 75 1815 5546124 76 1649-B 5546022 72 1851 5546130 75 1652-B 5546032 71 1952 5546072 74 1669-B 5546012 71 3005 5546060 74 1675-B 5546122 75 3006 5546050 74 1680-B 5546034 71 3018 5546507 71 1688-B 5546017 72 43706 5546132 77 1698-B 5546052 73 51942 5546134 77 1720-B 5546052 73 51942 5546135 77 1722-B 5546054 73 51943 5546159 77 1723-B 5546064 74 1184-B 5546112 76 1728-B 5546064 74 1	1633	5546066	74	1637-B1	5546040	72
1699 5546076 74 1646-B1 5546082 75 1815 5546124 76 1649-B 5546022 72 1851 5546130 75 1652-B 5546032 71 1952 5546072 74 1669-B 5546012 71 3005 5546060 74 1675-B 5546122 75 3006 5546062 74 1680-B 5546034 71 3016 5546503 71 1688-B 5546014 71 3018 5546507 71 1688-B 5546017 72 43706 5546132 77 1698-B 5546052 73 51942 5546134 77 1720-B 5546052 73 51943 5546159 77 1723-B 5546054 74 1184-B 5546112 76 1728-B 5546064 74 1186-B 5546016 76 1743-B 5546068 74	1650	5546110	71	1641-B	5546030	71
1815 5546124 76 1649-B 5546022 72 1851 5546130 75 1652-B 5546032 71 1952 5546072 74 1669-B 5546012 71 3005 5546060 74 1675-B 5546122 75 3006 5546062 74 1680-B 5546034 71 3016 5546503 71 1688-B 5546014 71 3018 5546507 71 1688-B 5546017 72 43706 5546132 77 1698-B 5546036 71 43716 5546134 77 1720-B 5546052 73 51942 5546135 77 1722-B 5546054 73 1184-B 5546112 76 1728-B 5546066 74 1186-B 5546116 76 1743-B 554606 74 1607-B 5546006 72 1770-B1 5546106 71 <td< td=""><td>1666</td><td>5546078</td><td>74</td><td>1644-B</td><td>5546008</td><td>71</td></td<>	1666	5546078	74	1644-B	5546008	71
1851 5546130 75 1652-B 5546032 71 1952 5546072 74 1669-B 5546012 71 3005 5546060 74 1675-B 5546122 75 3006 5546062 74 1680-B 5546034 71 3016 5546503 71 1688-B 5546014 71 3018 5546507 71 1688-B 5546036 71 43706 5546132 77 1698-B 5546036 71 43716 5546134 77 1720-B 5546052 73 51942 5546135 77 1722-B 5546054 73 51943 5546159 77 1723-B 5546056 74 1184-B 5546112 76 1728-B 5546064 74 1186-B 5546116 76 1743-B 5546068 74 1607-B 5546010 71 1792-B 5546120 77 <t< td=""><td>1699</td><td>5546076</td><td>74</td><td>1646-B1</td><td>5546082</td><td>75</td></t<>	1699	5546076	74	1646-B1	5546082	75
1952 5546072 74 1669-B 5546012 71 3005 5546060 74 1675-B 5546122 75 3006 5546062 74 1680-B 5546034 71 3016 5546503 71 1688-B 5546014 71 3018 5546507 71 1688-B 5546036 71 43706 5546132 77 1698-B 5546036 71 43716 5546134 77 1720-B 5546052 73 51942 5546135 77 1722-B 5546054 73 51943 5546159 77 1723-B 5546056 74 1184-B 5546112 76 1728-B 5546064 74 1186-B 5546116 76 1743-B 5546068 74 1607-B 5546010 71 1792-B 5546120 77 1608-B 5546006 71 1820-1 5546120 77	1815	5546124	76	1649-B	5546022	72
3005 5546060 74 1675-B 5546122 75 3006 5546062 74 1680-B 5546034 71 3016 5546503 71 1688-B 5546014 71 3018 5546507 71 1688-B 5546017 72 43706 5546132 77 1698-B 5546036 71 43716 5546134 77 1720-B 5546052 73 51942 5546135 77 1722-B 5546054 73 51943 5546159 77 1723-B 5546056 74 1184-B 5546112 76 1728-B 5546064 74 1186-B 5546116 76 1743-B 5546068 74 1607-B 5546026 72 1770-B1 5546108 72 1607-B 55460074 74 1820-1 5546120 77 1610-BL 5546006 71 1911-B1 5546044 72	1851	5546130	75	1652-B	5546032	71
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3016 5546503 71 1684-B 5546014 71 3018 5546507 71 1688-B 5546017 72 43706 5546132 77 1698-B 5546036 71 43716 5546134 77 1720-B 5546052 73 51942 5546135 77 1722-B 5546054 73 51943 5546159 77 1723-B 5546056 74 1184-B 5546112 76 1728-B 5546064 74 1186-B 5546116 76 1743-B 5546068 74 1607-B 5546026 72 1770-B1 5546108 72 1608-B 5546010 71 1792-B 5546120 77 1610-BL 5546006 71 1911-B1 5546044 72 1611-B 5546152 72 1921-S 5546153 72 1612-B 5546018 72 1922-S 5546090 72	3005	5546060	74	1675-B	5546122	75
3018 5546507 71 1688-B 5546017 72 43706 5546132 77 1698-B 5546036 71 43716 5546134 77 1720-B 5546052 73 51942 5546135 77 1722-B 5546054 73 51943 5546159 77 1723-B 5546056 74 1184-B 5546112 76 1728-B 5546064 74 1186-B 5546116 76 1743-B 5546068 74 1606-B 5546026 72 1770-B1 5546108 72 1607-B 5546010 71 1792-B 5546106 71 1608-B 5546006 71 1911-B1 5546044 72 1611-B 5546152 72 1921-S 5546153 72 1612-B 5546018 72 1922-S 5546090 72	3006	5546062	74	1680-B	5546034	71
43706 5546132 77 1698-B 5546036 71 43716 5546134 77 1720-B 5546052 73 51942 5546135 77 1722-B 5546054 73 51943 5546159 77 1723-B 5546056 74 1184-B 5546112 76 1728-B 5546064 74 1186-B 5546116 76 1743-B 5546068 74 1606-B 5546026 72 1770-B1 5546108 72 1607-B 5546010 71 1792-B 5546106 71 1608-B 5546006 71 1911-B1 5546044 72 1611-B 5546152 72 1921-S 5546153 72 1612-B 5546018 72 1922-S 5546090 72	3016	5546503	71	1684-B	5546014	71
43716 5546134 77 1720-B 5546052 73 51942 5546135 77 1722-B 5546054 73 51943 5546159 77 1723-B 5546056 74 1184-B 5546112 76 1728-B 5546064 74 1186-B 5546116 76 1743-B 5546068 74 1606-B 5546026 72 1770-B1 5546108 72 1607-B 5546010 71 1792-B 5546106 71 1608-B 5546074 74 1820-1 5546120 77 1610-BL 5546152 72 1921-S 5546153 72 1612-B 5546018 72 1922-S 5546090 72	3018	5546507	71	1688-B	5546017	72
51942 5546135 77 1722-B 5546054 73 51943 5546159 77 1723-B 5546056 74 1184-B 5546112 76 1728-B 5546064 74 1186-B 5546116 76 1743-B 5546068 74 1606-B 5546026 72 1770-B1 5546108 72 1607-B 5546010 71 1792-B 5546106 71 1608-B 5546074 74 1820-1 5546120 77 1610-BL 5546152 72 1921-S 5546153 72 1612-B 5546018 72 1922-S 5546090 72	43706	5546132	77	1698-B	5546036	71
51943 5546159 77 1723-B 5546056 74 1184-B 5546112 76 1728-B 5546064 74 1186-B 5546116 76 1743-B 5546068 74 1606-B 5546026 72 1770-B1 5546108 72 1607-B 5546010 71 1792-B 5546120 71 1608-B 5546074 74 1820-1 5546120 77 1610-BL 5546152 72 1921-S 5546153 72 1612-B 5546018 72 1922-S 5546090 72	43716	5546134	77	1720-B	5546052	73
1184-B 5546112 76 1728-B 5546064 74 1186-B 5546116 76 1743-B 5546068 74 1606-B 5546026 72 1770-B1 5546108 72 1607-B 5546010 71 1792-B 5546120 71 1608-B 5546074 74 1820-1 5546120 77 1610-BL 5546006 71 1911-B1 5546044 72 1611-B 5546152 72 1921-S 5546153 72 1612-B 5546018 72 1922-S 5546090 72	51942	5546135	77	1722-B	5546054	73
1186-B 5546116 76 1743-B 5546068 74 1606-B 5546026 72 1770-B1 5546108 72 1607-B 5546010 71 1792-B 5546106 71 1608-B 5546074 74 1820-1 5546120 77 1610-BL 5546006 71 1911-B1 5546044 72 1611-B 5546152 72 1921-S 5546153 72 1612-B 5546018 72 1922-S 5546090 72	51943	5546159	77	1723-B	5546056	74
1606-B 5546026 72 1770-B1 5546108 72 1607-B 5546010 71 1792-B 5546106 71 1608-B 5546074 74 1820-1 5546120 77 1610-BL 5546006 71 1911-B1 5546044 72 1611-B 5546152 72 1921-S 5546153 72 1612-B 5546018 72 1922-S 5546090 72	1184-B	5546112	76	1728-B	5546064	74
1607-B 5546010 71 1792-B 5546106 71 1608-B 5546074 74 1820-1 5546120 77 1610-BL 5546006 71 1911-B1 5546044 72 1611-B 5546152 72 1921-S 5546153 72 1612-B 5546018 72 1922-S 5546090 72	1186-B	5546116	76	1743-B	5546068	74
1608-B 5546074 74 1820-1 5546120 77 1610-BL 5546006 71 1911-B1 5546044 72 1611-B 5546152 72 1921-S 5546153 72 1612-B 5546018 72 1922-S 5546090 72	1606-B	5546026	72	1770-B1	5546108	72
1610-BL 5546006 71 1911-B1 5546044 72 1611-B 5546152 72 1921-S 5546153 72 1612-B 5546018 72 1922-S 5546090 72	1607-B	5546010	71	1792-B	5546106	71
1611-B 5546152 72 1921-S 5546153 72 1612-B 5546018 72 1922-S 5546090 72	1608-B	5546074	74	1820-1	5546120	77
1612-B 5546018 72 1922-S 5546090 72	1610-BL	5546006	71	1911-B1	5546044	72
	1611-B	5546152	72	1921-S	5546153	72
1613-B 5546024 72 1923-S 5546088 72	1612-B	5546018	72	1922-S	5546090	72
	1613-B	5546024	72	1923-S	5546088	72

1961-S	5546086	71
1966-S	5546087	71
1968-S	5546085	72
1969-S	5546089	72
1992-B1	5546080	75
3010-B1	5546042	72
3014-B	5546038	71
3038-B	5546046	73
3053-B	5546048	73
3054-B	5546050	74
A1186	5546114	76
Z741-A	5546128	76
310912	5546157	77
321381	5546070	74
328224	5546138	78
328435	5546140	78
	5241043	74
	5546154	71
	5547001	71
	5547020	76
	5547021	76
	5547022	76
	6110100	77

5546050 3054-B

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TURNED PARTS

From prototype to series production-readiness!

Umeta is the right partner for you and your turned parts projects. We support you from the very first development stage through initial sampling right up to series production-readiness.

Manufacturing special turned parts is one of our strengths, whether in small or large series. Our machinery consists of long CNC-controlled lathes and capstan lathes. We also provide assembly services and the manufacture of complete component groups as an option.

This means we can offer complex machining facilities.

You will find locking plugs and air release valves in the standard programme of our turned parts division, and we would like to show you a few samples of further production facilities below.



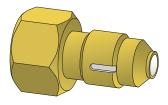
UMETA TURNED PARTS AT A GLANCE

- production batches from 1 piece
- raw material measurements from Ø 3 mm to Ø 42 mm
- turning lengths up to 600 mm
- machining of all removable materials
- high-precision production of complex contours(tolerance ranges of 0.02 mm and a surface roughness Rz of 1.0 μm are possible)
- axial and radial milling / drilling with lathing of bars
- eccentric drilling with axial machining
- extensive machining of front and back sides with lathing of bars
- changes in machining contours can be realised quickly and economically by programming the parameters

EXAMPLES OF MACHINING FACILITIES

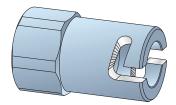
chain tensioner

(machining of front, back, air release goove)



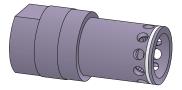
bayonet top

(radial milling of shell)



clamping hydraulic body

(radial two-step drilling/apply to spanner flat)



injection nozzle

(axial/radial machining, long turned parts, assembling)





AIR BLEED VALVES

The standard air bleed valves for venting and avoidance of undesirable pressure increases are zinc-plated and passivated, and they are featured with a tapered thread. The following types are representing a selection of the most commonly used air bleed valves.

Upon request, UMETA manufactures air bleed valves in other versions, with respect to the following:

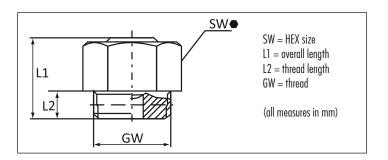
- · opening pressure
- · dimension
- · material
- · thread size
- · thread form (e. g. with cylindrical thread)
- · further surface treatment
- · etc.



Air bleed valves



- · for venting gears
- · for the avoidance of undesirable pressure increases in universal joints
- · made of steel, zinc-plated and passivated, with tapered thread
- · for other types and materials, please see table, or upon request



GW	M	6 x 1.0			Ref No.:	
L1	L2	SW	0pen	ing pressure	Steel	SST303 SST316L
11	7	7 mm HEX	appro	x. 3 bar	5270020	
11	7	7 mm HEX	appro	x. 8-12 bar	5270022	

GW	M	8 x 1.0			Ref No.:	
Ll	L2	SW		Opening pressure	Steel	SST303 SST316L
11.6	6	11 mm HFX	•	approx 2.5 har	5244082	

GW	M	10 x 1.0			Ref No.:		
L1	L2	SW		Opening pressure	Steel	SST303	SST316L
11.6	4	11 mm HEX		approx. 2.5 bar	5244084	5244083	5244088
11.6	6	11 mm HEX		approx. 5 bar		* 5244080	
11.6	6	11 mm HEX		approx. 5 bar	5244085		
11.6	6	11 mm HEX	•	approx. 7.5 bar	5244089		

GW	R	1/8, 1/8 - 2	28 BSP		Ref No.:		
L1	L2	SW	0pen	ing pressure	Steel	SST303	SST316L
11.6	6	11 mm HEX	appro	x. 2.5 bar	5800017		
11.6	6	11 mm HEX	appro	x. 5 bar	5244086	5244087	

LOCKING PLUGS

The standard locking plugs for closure of bore-holes are made of steel, zinc-plated and passivated, and they are featured with a tapered thread.

The following types are representing a selection of the most commonly used locking plugs.

Upon request, UMETA manufactures locking plugs in further versions, with respect to the following:

- dimension
- · material
- · thread size
- · thread form (e.g. with cylindrical thread)
- · length
- · etc.



Locking Plugs



- · for subsequent closing of boreholes
- made of steel, zinc-plated and passivated, with tapered thread
- for other types and materials, please see table, or upon request

SW	<u>/ ◆ </u>
L1 L2 GW	GW = thread L1 = overall length L2 = thread length SW = HEX size (all measures in mm)

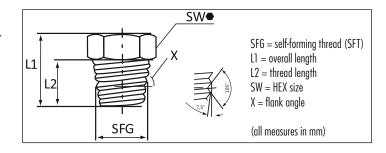
GW	M	6 x 1.0	Ref No.:		
L1	L2	SW	Steel	SST303	SST316L
8.5	5.5	7 mm HEX 👄	5180142		
GW	M	8 x 1.0	Ref No.:		
L1	L2	SW	Steel	SST303	SST316L
8.5	5.5	9 mm HEX 👄	5180117		
GW	M	10 x 1.0	Ref No.:		
L1	L2	SW	Steel	SST303	SST316L
9	5.5	11 mm HEX 👄	5581133		
8	4.5	11 mm HEX 🖝	5180125		

GW	M	12 x 1.5	Ref No.:		
Ll	L2	SW	Steel	SST303	SST316L
12	8	14 mm HEX ●	5581136		
GW	R	1/8, 1/8 - 28 BSP	Ref No.:		
Ll	L2	SW	Steel	SST303	SST316L
8.5	5.5	11 mm HEX 🕳	5180122		
			3100122		
GW	1,	/4"-28 UNF-2A	Ref No.:		
Ll	L2	SW	Steel	SST303	SST316L
8.5	5.5	7 mm HEX 👄	5180143		

Locking Plugs with Self-Forming Thread



- · for subsequent closing of boreholes
- standard version made of steel, casehardened according to DIN (650 HV) and yellow passivated
- · with self-forming thread



APPLICATION AREA

By using UMETA locking plugs with self-forming thread (SFT/SFG) you effectively save the thread-cutting process in the borehole.

MOUNTING INSTRUCTIONS

The special thread angle and the specific hardness level allow these plugs to be driven and screwed into boreholes without prior thread cutting.

SFG	S	6 x 1	Ref No.:	
Ll	L2	SW	Steel	not available in other materials
8 5	5.5	7 mm HFY 📥	5180146	

Thus, the thread of the plug forms its counterhead. Later, the plug can easily be screwed out and be replaced by a standard locking plug. The exact size of the core hole depends on the material and must be determined by mounting tests. The consistency of the receiving material is decisive. The standard gauge for the installation bore diameter of 0.4-0.5 mm (= 0.02") below nominal width have proved in daily use.

SFG	S	8 x 1	Ref No.:	
L1	L2	SW	Steel	not available in other materials
8.5	5.5	9 mm HFY	5180116	



UMETA History



Hermann Ulrichskötter



Margarete Maser-Ulrichskötter



Frank Maser



Administration



Site

1926	Company	founded h	v Hermann	Ulrichskötter
1/20	COIIIDUIIV	iooiiaca b	v Holliulli	UIIICIISKUIIGI

1953 Relocation of the company to current location in Ummeln, Bielefeld

1965 General management takeover by Margarete Maser-Ulrichskötter, daughter of Hermann Ulrichskötter

1993 Mr. Frank Maser enters the third generation of company general management

1993 Founding of a subsidiary in the USA

1994 Certification to DIN EN ISO 9001 as first company in the sector

2004 UMETA is awarded the "Bielefelder-Ökoprofit-Betrieb 2004" prize

2006 Extensive upgrade of machinery in the CNC machine sector to extend special turned part range

2007 TÜV certification to "customer satisfaction and service quality"

2011 Re-certification of our quality management to ISO 9001:2008

2011 Extensive upgrade of machinery in the CNC machine sector to extend special turned part range

Caution! Safety Information

It is imperative that you observe the following information:

UMETA grease guns can achieve a lubrication pressure of over 800 bar / 11,600 PSI.

For this reason, please ensure that all components are designed for this high pressure.

Service your UMETA products regularly!

Before using them first, check all connections for tight fit and only use components which do not show any signs of damage.

Never point the discharge opening at yourself or at other people.

Never hold onto hoses under pressure and never loosen connections which are under pressure.

Hoses are subject to a severe ageing process!

For this reason you should always replace hoses after three years at the latest.

Hoses may never be buckled or bent with force. The smallest bending radius is 100 mm.

UMETA compressed air guns may never be operated under more than 10 bar / 145 PSI air pressure.

Special lubricating nipples may be required for lubrication using automatic lubricating equipment. Always inform yourself in advance about the maximum permissible pressure!

Only use UMETA products with original UMETA accessories which are intended for this purpose. Modifications to UMETA Products can lead to severe damage or injuries. If you are injured, consult a doctor immediately!

UMETA products may never be brought into contact with hazardous or aggressive materials.

General Information

We reserve the right to make changes to products with regard to technical properties, dimensions and materials, and to remove products from our range.

Products may deviate from catalogue illustrations in their design, colour and size.

Supply of turned parts takes place in accordance with our "Technical terms of delivery for turned parts", which you can find in the download area of our Internet site.

Furthermore our General Conditions of Sale, which are on the back of our business paper and on our Internet site, apply to all deliveries.

Our 4 years guarantee is subject to our guarantee terms and conditions which can be found at www.umeta.com

We accept no liability for any errors or omissions.

www.umeta.com



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4141709	62	M1	5240046	66	M/Special	5244084	80	Valves	5546076	74	H1a/SAE	6900098	10;	75/PKU	7323911	24	Coupler
4141761	62	M1	5240048	66	M/Special	5244085	80	Valves	5546078	74	H1a/SAE	/000000	30	Wall basalas	7331911	22	Joint
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4141768	62	M1	5240063	66	M/Special	5244088	80	Valves	5546085	72	H2/SAE	7000002	12	EcoLube	7331723	22	Joint
4201104	61	M4	5240067	67	M/Special	5244089	80	Valves	5546086	71	H1/SAE	7000002	12	EcoLube	7351031	21	Nozzle
4201107	61	M4	5241007	38	H1	5244094	49	H/Special	5546087	71	H1/SAE	7000005	12	EcoLube	7351041	21	Nozzle
4201109	61	M4	5241009	38	H1	5244095	49	H/Special	5546088	72	H3/SAE	7021312	10	75/PKU	7351061	21	Nozzle
4201161	61	M4	5241014	44	H1/S	5244096	49	H/Special	5546089	72	H3/SAE	7021411	10	75/PKU	7351161	21	Nozzle
4221161	61	M4	5241024	39	H1	5244134	49	H/Special	5546090	72	H2/SAE	7091156	34	75/PKI zinc	7351261	21	Nozzle
4302210	63	M22	5241029	46	Hla	5244159	49	H/Special	5546106	71	H1/SAE	7091157	34	75/PKI zinc	7351314	21	Nozzle
4302219	63	M22	5241038	38	H1	5244160	49	H/Special	5546108	72	H2/SAE	7091312	35	75/LLI zinc	7351315	21	Nozzle
4302262	63	M22	5241040	46	Hla Hla/SAE	5244161	49	H/Special	5546110	71 74	H1/SAE	7092100	25	Wall bracket	7351316	21	Nozzle (cil)
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4601511	65	TIB	5241106	39	H1	5546016	71	H1/SAE		76	M1/Iso	7142533	16	42/NS		17	Model 21
4601516	65	TIB	5241130	49	H/Special		72	H2/SAE	5556010	28	Filling cyl.	7142733	16	42/K		17	Model 21
	65	T1B	5241131	49	H/Special		72	H2/SAE	5581133	81	Plug	7143133	18	43/S	7751511		75/PKU
4601539	65	T1B	5241132	49	H/Special	5546020	72	H2/SAE	5581136	81	Plug	7143233	18	43/H	7751611	10	75/PKU
4601561	65	T1B	5241133	49	H/Special		72	H2/SAE	5800017	80	Valves	7144133	16	44/S	7752611	10	75/PKU
4601562	65	TIB	5241135	44	H1/S		72	H3/SAE	5800040	48	H/Special	7144233	16	44/H	7759611	10	75/PKU
4611504	65	TIB	5241140	49	H/Special	5546026	72	H3/SAE	5800048	48	H/Special	7144433	16	44	9109416	68	B1
4611507	65 45	TIB	5241213	49	H/Special		71 71	H1/SAE	5800049	48	H/Special	7144533	16	44/NS	9140215	21	Nozzle
4611508 4611509	65 65	T1B T1B	5241236 5242042	41 48	H2 H/Special		71 71	H1/SAE H1/SAE	5800050 5800051	48 48	H/Special H/Special	7144753 7146113	16 17	44/K 46/S	9140216 9140217	21 21	Nozzle Nozzle
4611511	65	TIB	5242042	40	H2	5546034	71	H1/SAE	5800051	48	H/Special	7146113	17	46/3 46/H	9149414	68	B1
4611514	65	TIB	5242087	41	H2		71	H1/SAE	5800053	48	H/Special	7146313	17	46/NS	9149415	68	B1
4611560	64	TI	5242088	40	H2	5546038	71	H1/SAE	5800054	48	H/Special	7146413	17	46	9149416	68	B1
4611561	65	T1B	5242092	42	Н3		72	H2/SAE	5800056	48	H/Special	7146753	17	46/K	9149417	68	B1
4611562	65	T1B	5242093	43	Н3		72	H2/SAE	5800057	48	H/Special	7212443	28	Type 2/V	9149418	68	B1
4621509	65	T1B	5242104	41	H2	5546044	72	H3/SAE	5800058	70	Garage equ.	7222143	27	Type 2	9155416	68	B1
4621514	65	TIB	5242105	41	H2	5546046	73	H1/S/SAE	5800059	70	Garage equ.	7233113	27	Type 3	9156416	68	B1
4621561	65	TIB	5243010	59	DV1		73	H2/S/SAE	6008100	69	Assortment	7244313	28	Type 4	9157416	68	B1
4621562	65 65	T1B	5243018	59 50	DV1	5546050	74 73	H3/S/SAE	6008102	69	Assortment	7255113	29	SDG 10	9157420	68	B1
4641561	65	T1B	5243019	59	DV1	5546052	13	H1/S/SAE	6017140	69	Assortment	7256313	29	SDG 13	9157421	68	B1

Ref No.:	Page	UMETA-Type	V000223	23	360/LN	Ref No.:	Page	e UMETA-Type	V000771	13	85/PK silver	Ref No.:	Page	e UMETA-Type
9230004	24	Coupler	V000224	22	Coupler	V000431	13	85/PK zinc	V000772	13	85/PK silver	V001218	11	73/PK
9500110	70	Сар	V000227	21	Nozzle	V000432	8	75/PK zinc	V000773	11	73/PK	V001219	11	73/PK
9500111	70	Сар	V000239	22	Oil coupler	V000439	9	75/PL zinc	V000790	11	70/PK	V001220	11	73/PK
9500120	70	Сар	V000246	21	Nozzle	V000443	11	70/PK	V000803	9	75/PL zinc	V001224	11	73/PK
9500121	70	Сар	V000247	20	Nozzle tube	V000449	8	75/PK silver	V000809	13	85/PK zinc	V001227	11	73/PK
9500130	70	Cap	V000248	21	Nozzle	V000454	13	85/PK silver	V000810	9	75/PL zinc	V001229	9	75/LL zinc
9500131	70	Cap	V000250	21	Nozzle	V000456	8	75/PK silver	V000842	11	70/PK	V001232	9	75/LL zinc
9500140	70	Сар	V000252	21	Nozzle	V000457	11	73/PK	V000858	13	85/PK zinc	V001233	9	75/LL zinc
9500141	70	Сар	V000253	20	Nozzle tube	V000458	11	73/PK	V000859	12	75/PKM	V001249	8	75/PK zinc
9500200	70	Сар	V000254	21	Nozzle	V000465	23	360/L	V000860	8	75/PK zinc	V001217	8	75/PK zinc
9500201	70	Сар	V000231	8	75/PK silver	V000471	23	360/L	V000881	11	70/PK	V001251	11	70/PK
9500210	70	Сар	V000279	20	Nozzle tube	V000471	11	70/PK	V000938	9	75/LL zinc	V001231	8	75/PK zinc
9626103	33	Accessories	V000277	8	75/PK silver	V000472	23	360/L	V000730	23	360/LN	V001409	8	75/PK zinc
9626109	33		V000281	23	360/L	V000475	23		V000740	9	•	V001407	9	
		Accessories				V000478		360/LN			75/LL zinc		22	75/PL zinc
9626140	33	Accessories	V000283	23	360/LN		11	73/PK	V000952	11	70/PK	V001425		Coupler
9626396	33	Accessories	V000285	20	Nozzle tube	V000485	12	75/PKM	V000961	13	85/PK zinc	V001426	22	Coupler
9626700	32	Accessories	V000286	8	75/PK silver	V000486	9	75/PL zinc	V000978	12	75/PKM	V001440	35	75/PKI zinc
9626701	32	Accessories	V000287	8	75/PK silver	V000490	23	360/L	V000993	11	73/PK	V001460	9	75/PL zinc
9626702	32	Accessories	V000288	23	360/LN	V000495	8	75/PK silver	V000997	13	85/PK silver	V001461	9	75/PL zinc
9626705	32	Accessories	V000294	23	360/L	V000496	23	360/L	V001002	11	70/PK	V001462	9	75/PL zinc
9626708	32	Accessories	V000297	23	360/L	V000499	12	75/PKM	V001020	23	360/L	V001463	9	75/PL zinc
9626707	32	Accessories	V000298	23	360/LN	V000507	13	85/PK silver	V001024	11	73/PK	V001464	9	75/PL zinc
9626725	32	Accessories	V000301	8	75/PK zinc	V000521	23	360/L	V001028	13	85/PK zinc	V001465	9	75/PL zinc
9626800	32	Accessories	V000306	8	75/PK silver	V000524	8	75/PK silver	V001045	8	75/PK silver	V001466	11	70/PK
9626801	32	Accessories	V000308	8	75/PK silver	V000525	9	75/PL zinc	V001048	23	360/LN	V001467	11	70/PK
9626802	32	Accessories	V000309	8	75/PK zinc	V000535	8	75/PK silver	V001049	23	360/LN	V001468	11	70/PK
9626803	32	Accessories	V000310	8	75/PK zinc	V000538	13	85/PK silver	V001054	11	73/PK	V001469	13	85/PK silver
9626805	32	Accessories	V000311	23	360/L	V000545	12	75/PKM	V001093	9	75/PL zinc	V001470	13	85/PK silver
9626810	33	Accessories	V000312	23	360/LN	V000548	13	85/PK zinc	V001094	11	70/PK	V001471	13	85/PK silver
9626820	31	Oil pump	V000316	20	Nozzle tube	V000549	11	73/PK	V001095	11	70/PK	V001472	13	85/PK silver
9626825	30	Carry Lube	V000318	23	360/LN	V000550	11	70/PK	V001096	11	73/PK	V001473	13	85/PK silver
9626830	31	Oil pump	V000319	8	75/PK silver	V000550	8	75/PK zinc	V001070	11	73/PK	V001474	13	85/PK silver
9907126	24	Coupler	V000317	22	coupler	V000573	8	75/PK zinc	V001118	11	70/PK	V001474	35	75/LLI zinc
9907127	24		V000321	23	360/LN	V000373	8	75/PK silver	V001110	9	75/PL zinc	V001470	11	73/PK
		Coupler			,			,			,		11	
9907128	24	Coupler	V000325	22	coupler	V000617	13	85/PK silver	V001136	13	85/PK silver	V001480		73/PK
V000039	23	360/LN	V000326	23	360/LN	V000637	11	70/PK	V001157	13	85/PK zinc	V001481	11	73/PK
V000041	23	360/LN	V000327	23	360/LN	V000640	13	85/PK silver	V001167	8	75/PK zinc	V001482	11	73/PK
V000042	23	360/L	V000328	23	360/LN	V000645	11	70/PK	V001172	8	75/PK zinc	V001502	18	70/PKO
V000044	20	Nozzle tube	V000330	22	Oil coupler	V000647	9	75/LL zinc	V001174	8	75/PK silver	V001549	18	70/PKO
V000054	20	Nozzle tube	V000331	22	coupler	V000648	9	75/LL zinc	V001176	8	75/PK silver	V001550	18	70/PKO
V000055	20	Nozzle tube	V000332	23	360/L	V000650	23	360/LN	V001181	8	75/PK zinc	V001551	18	70/PKO
V000072	20	Nozzle tube	V000333	8	75/PK silver	V000651	23	360/LN	V001182	8	75/PK zinc	V001552	18	70/PKO
V000074	20	Nozzle tube	V000334	35	75/PKI zinc	V000652	23	360/LN	V001184	8	75/PK zinc	V001553	18	70/PKO
V000076	20	Nozzle tube	V000337	20	Nozzle tube	V000653	23	360/L	V001185	8	75/PK zinc	V001554	18	70/PKO
V000077	21	Nozzle	V000340	35	75/LLI zinc	V000662	9	75/PL zinc	V001187	13	85/PK zinc	V001555	18	70/PKO
V000084	22	Coupler	V000342	8	75/PK silver	V000666	22	coupler	V001188	13	85/PK zinc	V001557	18	70/PKO
V000085	22	Coupler	V000349	8	75/PK zinc	V000667	8	75/PK silver	V001189	13	85/PK zinc	V001558	18	70/PKO
V000088	22	Coupler	V000350	11	70/PK	V000676	13	85/PK zinc	V001190	13	85/PK zinc	V001559	18	70/PKO
V000095	22	Coupler	V000354	11	70/PK	V000682	23	360/LN	V001192	13	85/PK zinc	V001560	18	70/PKO
V000096	22	Coupler	V000358	8	75/PK zinc	V000683	23	360/LN	V001194	13	85/PK zinc	V001625	22	Coupler
V000097	22	Coupler	V000361	22	Oil coupler	V000684	23	360/LN	V001195	13	85/PK zinc	V001662	23	360/LN
V000098	22	Coupler	V000366	23	360/LN	V000685	23	360/LN	V001196	13	85/PK zinc	V001663	23	360/LN
V000070	21	Nozzle	V000369	13	85/PK zinc	V000686	23	360/LN	V001170	9	75/PL zinc	V001672	23	360/LN
V000100 V000101	20	Nozzle tube	V000387	13	85/PK silver	V000687	23	360/L	V001177	9	75/PL zinc	V001672	23	360/L
		Nozzle lube Nozzle	V000371									VUU 10/3	۷۵	300/L
V000102	21			20	Nozzle tube	V000688	23	360/L	V001199	9	75/PL zinc			
V000103	20	Nozzle tube	V000378	8	75/PK silver	V000689	23	360/L	V001200	9	75/PL zinc			
V000104	21	Nozzle	V000382	13	85/PK silver	V000691	23	360/L	V001201	9	75/PL zinc			
V000106	21	Nozzle	V000391	12	75/PKM	V000704	13	85/PK silver	V001206	23	360/L			
V000108	23	360/LN	V000392	12	75/PKM	V000712	12	75/PKM	V001207	23	360/L			
V000109	23	360/LN	V000394	23	360/LN	V000715	13	85/PK zinc	V001208	23	360/L			
V000145	23	360/LN	V000398	20	Nozzle tube	V000717	8	75/PK silver	V001209	23	360/L			
V000154	20	Nozzle tube	V000402	8	75/PK silver	V000721	13	85/PK zinc	V001210	23	360/L			
V000155	20	Nozzle tube	V000403	8	75/PK silver	V000730	13	85/PK zinc	V001211	11	70/PK			
V000200	23	360/L	V000410	23	360/L	V000741	23	360/L	V001212	9	75/LL zinc			
	13	85/PK silver	V000420	13	85/PK silver	V000761	23	360/L	V001213	9	75/LL zinc			
V000210	10	,												

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