GREASE NIPPLES

Maintaining permanent motion!

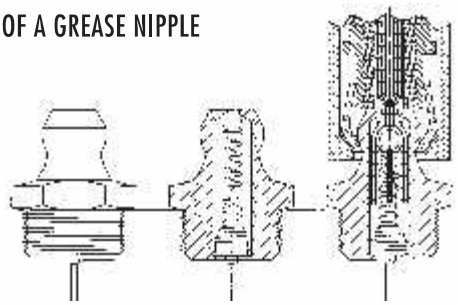
They are small and inconspicuous, but responsible for keeping machines and all kinds of equipment in motion - whether in a harvester in Russia, a pipeline in Alaska, or a brewery in Australia. There is a UMETA Grease Nipple for every application purpose in most sizes, types and composition. With a range 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

FUNCTION OF A GREASE NIPPLE



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

- steel: 1.0718 (11SMnPb30+C) SAE 12L13
- stainless steel: 1.4305 ~ ASTM303 (SST303); 1.4401, 1.4404 ~ ASTM316, 316L (SST316L)
- brass: CuZn39 Pb3 (CW614N)

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 ~ ASTM 303 and 1.4404 ~ ASTM 316L (V2A/V4A). Of course, our hydraulic-type 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:

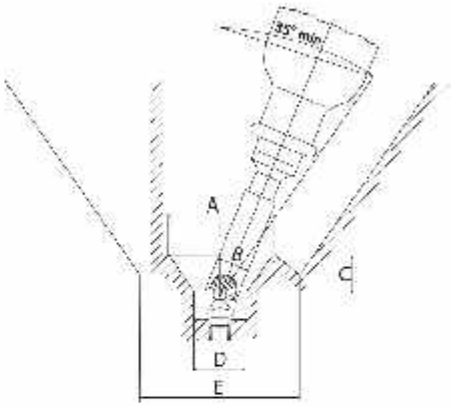
- dimension
- material
- thread size
- thread form (e. g. with cylindrical thread)
- opening pressure
- surface colour (e. g. yellow passivated)
- further surface treatment
- unhardened
- etc.

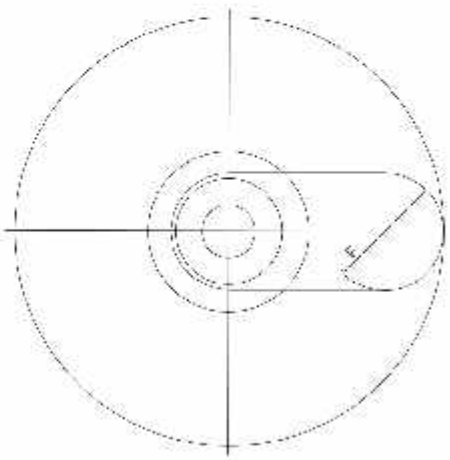
MOUNTING INSTRUCTIONS

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 hydraulic couplers.



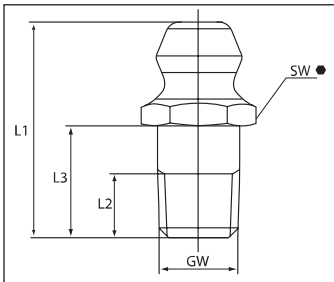


Head space			
A =	50 mm (1.97")	D =	25 mm (0.98" - 63/64")
B =	16.5 mm (0.65")	E =	75 mm (3")
C =	19 mm (0,75" - ¾")	F =	55 mm (2.16" - 2 1/8")

Type H1

Hydraulic-Type Grease Nipples

- according to DIN 71412
- straight version A/180°
- 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 = thread
L1 = overall length
L2 = thread length
L3 = shank length
SW = HEX size

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

GW M 5 x 0.8

L1	L2	L3	SW	Ref.- No.: Steel	Brass	SST303	SST316L
15	5.5		7mm HEX ⬣	1100701	1110701	1120701	

GW M 6 x 0.75

L1	L2	L3	SW	Ref.- No.: Steel	Brass	SST303	SST316L
15	5.5		7mm HEX ⬣	1100703	1110703	1120703	
24	6	14	7mm HEX ⬣	5241056			
29	8.3	19	7mm HEX ⬣	5241059			

GW M 6 x 1.0

L1	L2	L3	SW	Ref.- No.: Steel	Brass	SST303	SST316L
13.5	4		7mm HEX ⬣	5241007	5241101	5241102	
15	5.5		7mm HEX ⬣	1100704	1110704	1120704	1140704
17.3	5.6	8.5	7mm HEX ⬣	5241038			
24	6	14	7mm HEX ⬣	5241057			
29	8.3	19	7mm HEX ⬣	*5241060			
41	6	31	7mm HEX ⬣	5313742			
15	5.5		11mm HEX ⬣	1101104		1121104	

GW M 7 x 1.0

L1	L2	L3	SW	Ref.- No.: Steel	Brass	SST303	SST316L
15	5.5		9mm HEX ⬣	1100905			

GW M 8 x 0.75

L1	L2	L3	SW	Ref.- No.: Steel	Brass	SST303	SST316L
15	5.5		9mm HEX ⬣	1100906			

GW M 8 x 1.0

L1	L2	L3	SW	Ref.- No.: Steel	Brass	SST303	SST316L
15	5.5		9mm HEX ⬣	1100907	1110907	1120907	1140907
18.5	8.5		9mm HEX ⬣	5241009			

GW M 8 x 1.25

L1	L2	L3	SW	Ref.- No.: Steel	Brass	SST303	SST316L
15	5.5		9mm HEX ⬣	1100908	1110908	1120908	1140908

GW M 10 x 1.0

L1	L2	L3	SW	Ref.- No.: Steel	Brass	SST303	SST316L
15	5.5		11mm HEX ⬣	1101109	1111109	1121109	1141109
17.5	7.5		11mm HEX ⬣	5241074			

GW M 10 x 1.25

L1	L2	L3	SW	Ref.- No.: Steel	Brass	SST303	SST316L
15	5.5		11mm HEX ⬣	1101110			

GW M 10 x 1.5

L1	L2	L3	SW	Ref.- No.: Steel	Brass	SST303	SST316L
15	5.5		11mm HEX ⬣	1101111	1111111	1121111	1141111

GW M 12 x 1.0

L1	L2	L3	SW	Ref.- No.: Steel	Brass	SST303	SST316L
17.5	6.5		14mm HEX ⬣	1101412			

GW M 12 x 1.25

L1	L2	L3	SW	Ref.- No.: Steel	Brass	SST303	SST316L
17.5	6.5		14mm HEX ⬣	1101413			

GW M 12 x 1.5

L1	L2	L3	SW	Ref.- No.: Steel	Brass	SST303	SST316L
17.5	6.5		14mm HEX ⬣	1101414	1111414	1121414	

GW M 12 x 1.75

L1	L2	L3	SW	Ref.- No.: Steel	Brass	SST303	SST316L
17.5	6.5		14mm HEX ⬣	1101415		1121415	

GW M 14 x 1.5

L1	L2	L3	SW	Ref.- No.: Steel	Brass	SST303	SST316L
17.5	6.5		14mm HEX ⬣	1101417			

GW M 14 x 2.0

L1	L2	L3	SW	Ref.- No.: Steel	Brass	SST303	SST316L
17.5	6.5		14mm HEX ⬣	1101418			

GW M 16 x 1.5

L1	L2	L3	SW	Ref.- No.: Steel	Brass	SST303	SST316L
18	7		17mm HEX ⬣	1101719			

*unhardened

GW R 1/8, 1/8 - 28 BSP

Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
43	6	33**	9mm HEX ⬣	5241070			
15	5.5		11mm HEX ⬣	1101156	1111156	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	1111457	1121457	1141457
19	8		14mm HEX ⬣	5241071			

GW R 3/8, 3/8 - 19 BSP

Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
18	7		17mm HEX ⬣	1101758		1121758	

GW 1/8" - 27 NPT/PTF

Ref.- No.:

L1	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	1111167		
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" - 18 NPT/PTF

Ref.- No.:

L1	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" - 28 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" - 26 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" BSW

Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
15	5.5		7mm HEX ⬣	1100750			

GW 5/16" - 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	L3	SW	Steel	Brass	SST303	SST316L
15	5.5		9mm HEX ⬣	1100945			

GW 5/16" BSW

Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
15	5.5		9mm HEX ⬣	1100951			

GW 3/8" - 18 NPT/PTF

Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
18	7		17mm HEX ⬣	1101769			

GW 3/8" - 20 BSF

Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
15	5.5		11mm HEX ⬣	1101146			

GW 3/8" - 24 NF/UNF/SAE

Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
15	5.5		11mm HEX ⬣	1101139	1111139	1121139	

GW 3/8" BSW

Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
15	5.5		11mm HEX ⬣	1101152			

GW 1/2" - 20 UNF/NF/SAE

Ref.- No.:

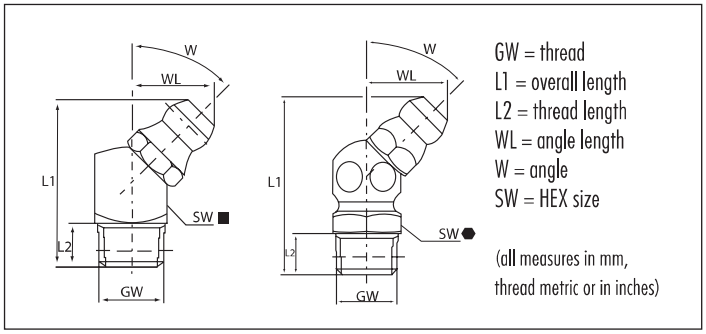
L1	L2	L3	SW	Steel	Brass	SST303	SST316L
17.5	6.5		14mm HEX ⬣	1101440			

** 2-parts

Type H2

Hydraulic-Type Grease Nipples

- according to DIN 71412
- angled version B/45° /67°
- 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

L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
23.5	5.5	10.5	45°	9mm HEX ⬣	1200901			

GW M 6 x 0.75

L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
20.5	5.5	10.5	45°	9mm SQ. ■	1204503			
23.5	5.5	10.5	45°	9mm HEX ⬣	1200903			

GW M 6 x 1.0

L1	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

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

L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
23.5	5.5	10.5	45°	9mm HEX ⬣	1200906			

GW M 8 x 1.0

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

L1	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

L1	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

L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
25	5.5	11.5	45°	11mm HEX ⬣	1201110			

GW M 10 x 1.5

L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
25	5.5	11.5	45°	11mm HEX ⬣	1201111		1221111	

GW M 12 x 1.0

L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
22.5	6.5	12	45°	14mm HEX ⬣	1201412			

GW M 12 x 1.5

L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
22.5	6.5	12	45°	14mm HEX ⬣	1201414			

GW M 12 x 1.75

L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
22.5	6.5	12	45°	14mm HEX ⬣	1201415			

GW M 14 x 1.5

L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
22.5	6.5	12	45°	14mm HEX ⬣	1201417			

GW M 16 x 1.5

L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
25.5	7	13.5	45°	17mm HEX ⬣	1201719			

GW R 1/8, 1/8 - 28 BSP

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
20.5	5.5	11	45°	11mm SQ. ■	1204756			
25	5.5	11.5	45°	11mm HEX ⬣	1201156	1211156	1221156	1241156
28.5	9	11.5	45°	11mm HEX ⬣	5241236			
36	5.5	11	45°	11mm SQ. ■	5242087			
25	5.5	11.5	67°	11mm HEX ⬣	1401156			

GW R 1/4, 1/4 - 19 BSP

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
22.5	6.5	12	45°	14mm HEX ⬣	1201457	1211457	1221457	1241457

GW R 3/8, 3/8 - 19 BSP

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
25.5	7	13.5	45°	17mm HEX ⬣	1201758			

GW 1/8" - 27 NPT/PTF

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
20.5	5.5	11	45°	11mm SQ. ■	1204767			
27	7	11.5	45°	11mm HEX ⬣	5242104			
24	7	14	67°	11mm HEX ⬣	5242105			

GW 1/4" - 18 NPT/PTF

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
22.5	6.5	12	45°	14mm HEX ⬣	1201468			

GW 1/4" - 26 BSF

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
23.5	5.5	10.5	45°	9mm HEX ⬣	1200944		1220944	
20.5	5.5	12.2	67°	9mm HEX ⬣	1400944			

GW 1/4" - 28 NF/UNF/SAE

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
23.5	5.5	10.5	45°	9mm HEX ⬣	1200937	1210937	1220937	
20.5	5.5	12.2	67°	9mm HEX ⬣	1400937			

GW 1/4" - BSW

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
23.5	5.5	10.5	45°	9mm HEX ⬣	1200950			

GW 5/16" - 22 BSF

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
23.5	5.5	10.5	45°	9mm HEX ⬣	1200945			
20.5	5.5	12.2	67°	9mm HEX ⬣	1400945			

GW 5/16" - 24 NF/UNF/SAE

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
23.5	5.5	10.5	45°	9mm HEX ⬣	1200938	1210938	1220938	
20.5	5.5	12.2	67°	9mm HEX ⬣	1400938			

GW 5/16" - BSW

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
23.5	5.5	10.5	45°	9mm HEX ⬣	1200951			

GW 3/8" - NPT/PTF

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
25.5	7	13.5	45°	17mm HEX ⬣	1201769			

GW 3/8" - 20 BSF

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
25	5.5	11.5	45°	11mm HEX ⬣	1201146			
25	5.5	11.5	67°	11mm HEX ⬣	1401140			

GW 3/8" - 24 NF/UNF/SAE

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
25	5.5	11.5	45°	11mm HEX ⬣	1201139			
25	5.5	11.5	67°	11mm HEX ⬣	1401139			

GW 3/8" BSW

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
25	5.5	11.5	45°	11mm HEX ⬣	1201152			

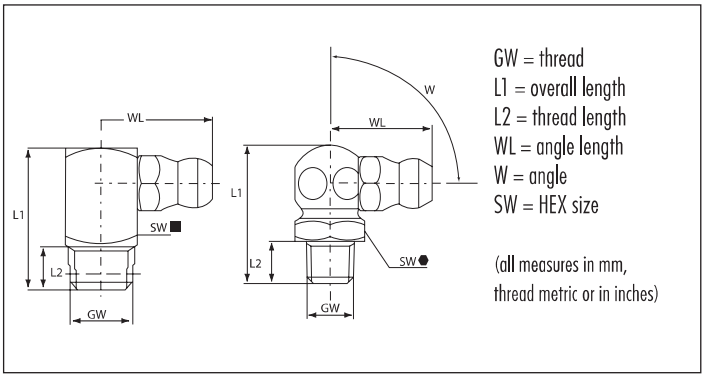
GW 1/2" - 20 UNF/NF/SAE

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
22.5	6.5	12	45°	14mm HEX ⬣	1201440			

Type H3

Hydraulic-Type Grease Nipples

- according to DIN 71412
- angled version C/90°
- 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

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
18	5.5	13	90°	9mm HEX ⬣	1300901			

GW M 6 x 0.75

L1	L2	WL	W	SW	Ref.- No.: 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

L1	L2	WL	W	SW	Ref.- No.: 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

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
18	5.5	13	90°	9mm HEX ⬣	1300905			

GW M 8 x 0.75

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
18	5.5	13	90°	9mm HEX ⬣	1300906			

GW M 8 x 1.0

L1	L2	WL	W	SW	Ref.- No.: 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

L1	L2	WL	W	SW	Ref.- No.: 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

L1	L2	WL	W	SW	Ref.- No.: 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

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
20	5.5	14	90°	11mm HEX ⬣	1301110			

GW M 10 x 1.5

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
20	5.5	14	90°	11mm HEX ⬣	1301111		1321111	

GW M 12 x 1.0

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
22	6.5	14	90°	14mm HEX ⬣	1301412			

GW M 12 x 1.5

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
22	6.5	14	90°	14mm HEX ⬣	1301414			

GW M 12 x 1.75

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
22	6.5	14	90°	14mm HEX ⬣	1301415			1341415

GW M 14 x 1.5

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
22	6.5	14	90°	14mm HEX ⬣	1301417			

GW M 14 x 2.0

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
22	6.5	14	90°	14mm HEX ⬣	1301419			

GW R 1/8, 1/8 - 28 BSP

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
18	5.5	15	90°	11mm SQ. ■	1304756			
20	5.5	14	90°	11mm HEX ⬣	1301156	1311156	1321156	1341156
42	7	15	90°	11mm SQ. ■	5242093			

GW R 1/4, 1/4 - 19 BSP

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
22	6.5	14	90°	14mm HEX ⬣	1301457	1311457	1321457	1341457

GW R 3/8, 3/8 - 19 BSP

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
20	7	19	90°	17mm HEX ⬣	1301758			

GW 1/8" - 27 NPT/PTF

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
18	5.5	15	90	11mm SQ. ■	1304767			

GW 1/4" - 18 NPT/PTF

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
22	6.5	14	90	14mm HEX ⬣	1301468			

GW 1/4" - 26 BSF

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
18	5.5	13	90°	9mm HEX ⬣	1300944	1310944	1320944	

GW 1/4" - 28 NF/UNF/SAE

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
18	5.5	13	90°	9mm HEX ⬣	1300937	1310937	1320937	

GW 1/4" BSW

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
18	5.5	13	90°	9mm HEX ⬣	1300950		1320945	

GW 5/16" - 22 BSF

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
18	5.5	13	90°	9mm HEX ⬣	1300945			

GW 5/16" - 24 NF/UNF/SAE

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
18	5.5	13	90°	9mm HEX ⬣	1300938			

GW 5/16" BSW

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
18	5.5	13	90°	9mm HEX ⬣	1300951			

GW 3/8" - 18 NPT/PTF

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
20	7	19	90°	17mm HEX ⬣	1301760			

GW 3/8" - 20 BSF

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
20	5.5	14	90°	11mm HEX ⬣	1301146			

GW 3/8" - 24 NF/UNF/SAE

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
20	5.5	14	90°	11mm HEX ⬣	1301139			

GW 3/8" BSW

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
20	5.5	14	90°	11mm HEX ⬣	1301152			

GW 1/2" - 20 UNF/NF/SAE

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
22	6.5	14	90°	14mm HEX ⬣	1301440			

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

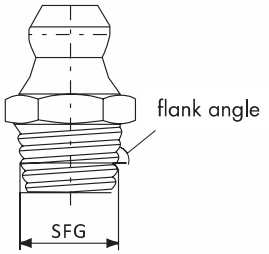
For safety reasons and in order to avoid abrasion wear, the DIN standard for grease nipple with self-forming thread demands a specific surface hardness of 650 HV minimum as well as a particularly wide flank angle of 105° at the thread. For a better visual distinction, UMETA self-forming grease nipples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

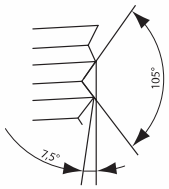
MOUNTING INSTRUCTIONS

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.

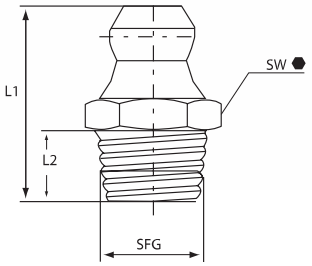




Type H1/S

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 = self-forming thread (SFT)
L1 = overall length
L2 = thread length
SW = HEX size

(all measures in mm)

SFG S 6 x 1

L1	L2	SW	Ref.- No.: Steel	not available in other materials
13.5	4	7mm HEX ⬣	5317443	
15	5.5	7mm HEX ⬣	1100774	
17.5	5.5	7mm HEX ⬣	5241135	

SFG S 8 x 1

L1	L2	SW	Ref.- No.: Steel	not available in other materials
15	5.5	9mm HEX ⬣	1100975	
17	7	9mm HEX ⬣	5317541	

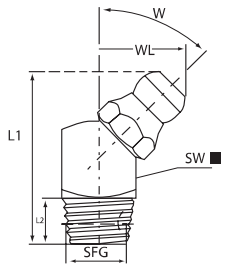
SFG S 10 x 1

L1	L2	SW	Ref.- No.: 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
- angled version B/45°
- 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 = self-forming thread(SFT)
L1 = overall length
L2 = thread length
WL = angle length
W = angle
SW = HEX size

(all measures in mm)

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.:

L1	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.:

L1	L2	WL	W	SW	Steel	not available in other materials
20.5	5.5	11	45°	11mm SQ. ■	1204776	

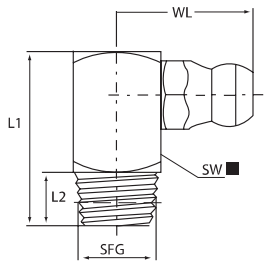
SFG S 1/4" - 28 — Ref.- No.:

L1	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
- 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 = self-forming thread (SFT)
L1 = overall length
L2 = thread length
WL = angle length
W = angle
SW = HEX size

(all measures in mm)

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
- 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.

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 auto-matic guns
- pulling off the hydraulic coupler

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

RECOMMENDATION

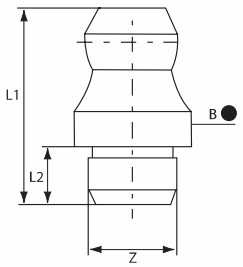
Drive-in type grease nipples are only suitable for low pressures. Please check whether they can be replaced by self-forming nipples for a better fit.

Drive-in tool

Type H1a

Hydraulic-Type Grease Nipples - Drive-in Version

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



Z = shank Ø
L1 = overall length
L2 = shank length
B = collar Ø

(all measures in mm, shank Ø metric or in inches)

Z 5mm Ø Ref.- No.:

L1	L2	B	Steel	Brass	SST303	SST316L
15	5.5	8 ●	1100185			

Z 6mm Ø Ref.- No.:

L1	L2	B	Steel	Brass	SST303	SST316L
14	4	8 ●	5241040		5241097	
15	5.5	8 ●	1100186	1110186	1120186	1140186
21	11	10 ●	5241029			

Z 6.35mm, 1/4" Ø Ref.- No.:

L1	L2	B	Steel	Brass	SST303	SST316L
15	5.5	8 ●	1100187			

Z 8mm Ø Ref.- No.:

L1	L2	B	Steel	Brass	SST303	SST316L
15	5.5	10 ●	1100288	1110288	1120288	
30	5.5	10 ●	1100289			

Z 10mm Ø Ref.- No.:

L1	L2	B	Steel	Brass	SST303	SST316L
15	5.5	12 ●	1100389			

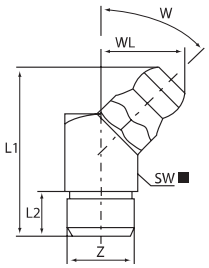
Z 5/16" Ø Ref.- No.:

L1	L2	B	Steel	Brass	SST303	SST316L
15	5.5	10 ●	1100290			

Type H2a

Hydraulic-Type Grease Nipples - Drive-in Version

- according to DIN 71412
- angled version B/45°
- drive-in-type with plain shank
- standard versions according to DIN are made of steel, zinc-plated and passivated, head case-hardened



Z = shank Ø
L1 = overall length
L2 = shank length
WL = angle length
W = angle
SW = HEX size

(all measures in mm)

Z 6mm Ø

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
20.5	5.5	10.5	45°	9mm SQ. ■	1204586			

Z 10mm Ø

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
20.5	5.5	10.7	45°	11mm SQ. ■	1204789			

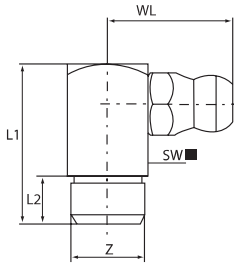
Z 8mm Ø

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
20.5	5.5	10.5	45°	9mm SQ. ■	1204588			

Type H3a

Hydraulic-Type Grease Nipples - Drive-in Version

- according to DIN 71412
- angled version C/90°
- drive-in-type with plain shank
- standard versions according to DIN are made of steel, zinc-plated and passivated, head case-hardened



Z = shank Ø
L1 = overall length
L2 = shank length
WL = angle length
W = angle
SW = HEX size

(all measures in mm)

Z 6mm Ø

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
18	5.5	14	90°	9mm SQ. ■	1304586			

Z 10mm Ø

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
18	5.5	15	90°	11mm SQ. ■	1304789			

Z 8mm Ø

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
18	5.5	14	90°	9mm SQ. ■	1304588			

UMETA HYDRAULIC-TYPE GREASE NIPPLES - SPECIAL DESIGNS

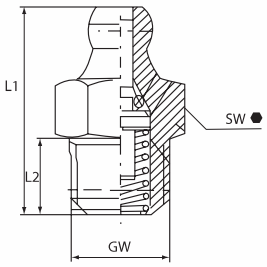
The following types are representing only the most commonly used special-type nipples. For individual applications, UMETA manufactures hydraulic-type grease nipples with special equipment in other versions, with respect to the following:

- 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.



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

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

APPLICATION AREA
Heavy Industry, Heavy Vehicle Industry.

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

GW M 10 x 1.0 Ref.- No.:

L1	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.:

L1	L2	SW	Steel	Brass	SST303	SST316L
21	7.5	11mm HEX ⬢	5800054		5800051	
21	9	11mm HEX ⬢	5800053			

GW G 1/8, 1/8 - 28 BSPP Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
21	7	13mm HEX ⬢	5800056			

GW G 1/4, 1/4 - 19 BSPP Ref.- No.:

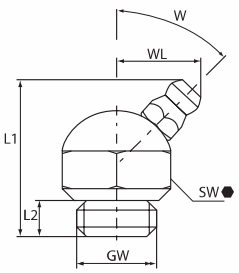
L1	L2	SW	Steel	Brass	SST303	SST316L
21	7	13mm HEX ⬢			5800057	

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
- head hardened according to DIN
- with cylindrical thread
- with sintered sealing element under the collar



GW = thread
L1 = overall length
L2 = thread length
WL = angle length
W = angle
SW = HEX size

(all measures in mm)

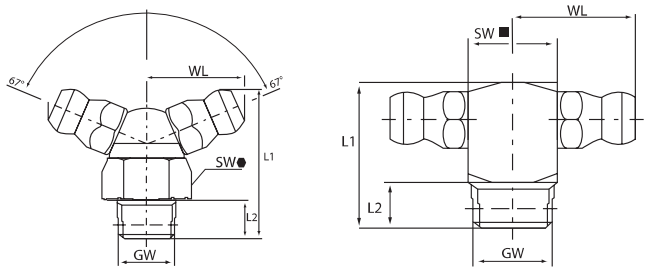
APPLICATION AREA
Heavy Industry, Heavy Vehicle Industry.

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 ⬢	5242042			

Hydraulic-type nipple, double headed

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



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 1.0 — Ref.- No.:

L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
18	5.5	14.5	90°	9mm SQ. ■	5244179			

GW M 8 x 1.0 — Ref.- No.:

L1	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	90°	9mm SQ. ■	5244033			

GW M 10 x 1.0 — Ref.- No.:

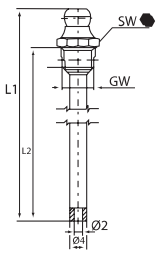
L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
18	5.5	15	90°	11mm SQ. ■	5244094		5244134	
20	5.5	13.5	67°	11mm HEX ⬣	5244161			
22	7	13.5	67°	11mm HEX ⬣	5244163			

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			
20	5.5	13.5	67°	11mm HEX ⬣	5244162			

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



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

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

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.:

L1	L2	SW	Steel	Brass	SST303	SST316L
75	65	9mm HEX ⬣	5241130			
130	120	9mm HEX ⬣	5241133			

GW M 10 x 1.0 — Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
59	49	11mm HEX ⬣	5241140			
75	65	11mm HEX ⬣	5241132			

GW M 8 x 1.25 — Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
32	22	9mm HEX ⬣	5241213			

GW 5/16" - 24 NF/UNF/SAE — Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
75	65	9mm HEX ⬣	5241131			

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.

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 guns type A+B.

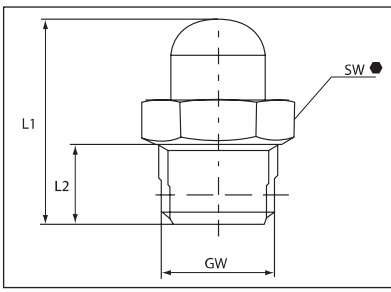
VERSIONS

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.

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 = 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
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 M 7 x 1.0 Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
14	5.5	9mm HEX ⬣	2100905			

GW M 8 x 1.0 Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
14	5.5	9mm HEX ⬣	2100907	2110907	2120907	

GW M 8 x 1.25 Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
14	5.5	9mm HEX ⬣	2100908			

GW M 10 x 1.0 Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
14	5.5	11mm HEX ⬣	2101109			

GW M 10 x 1.5 Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
14	5.5	11mm HEX ⬣	2101111			

GW R 1/8, 1/8 - 28 BSP Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
14	5.5	11mm HEX ⬣	2101156	2111156		

GW R 1/4, 1/4 - 19 BSP Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
16	6.5	14mm HEX ⬣	2101457	2111457		

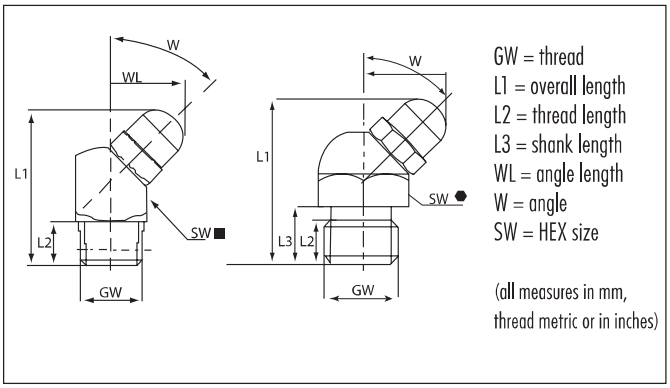
GW R 3/8, 3/8 - 19 BSP Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
17.5	8	17mm HEX ⬣	2101758			

Type K2

Ball-Type Grease Nipples

- according to former DIN 3402
- angled version B/45°
- standard versions according to DIN are made of steel, zinc-plated and passivated, with tapered thread



GW M 6 x 1.0

L1	L2	L3	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
19	5.5		9	45°	9 mm SQ. ■	2204504			

GW M 8 x 1.0

L1	L2	L3	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
19	5.5		9	45°	9 mm SQ. ■	2204507			

GW M 8 x 1.25

L1	L2	L3	WL	W	SW	Ref.- No.: 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

L1	L2	L3	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
14	5.5		9.5	45°	11mm SQ. ■	2204709			

GW M 10 x 1.5

L1	L2	L3	WL	W	SW	Ref.- No.: 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

L1	L2	L3	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
14	5.5		9.5	45°	11mm SQ. ■	2204756			
14	5.5		9.5	45°	11mm HEX ⬢		2111460		

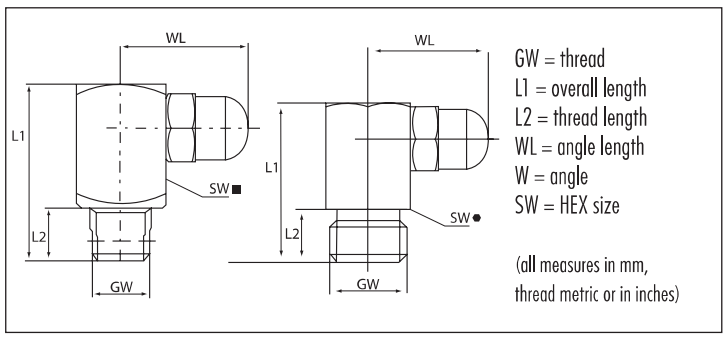
GW R 1/4, 1/4 - 19 BSP

L1	L2	L3	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
22	6.5		11.5	45°	14mm HEX ⬢	2201457			

Typ K3

Ball-Type Grease Nipples

- according to former DIN 3402
- elbow version C/90°
- standard versions according to DIN are made of steel, zinc-plated and passivated, with tapered thread



GW M 6 x 1.0

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
18	5.5	13	90°	9 mm SQ. ■	2304504			

GW M 8 x 1.0

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
18	5.5	13	90°	9 mm SQ. ■	2304507			

GW M 8 x 1.25

L1	L2	WL	W	SW	Ref.- No.: 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*		

GW M 10 x 1.0

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
18	5.5	14	90°	11mm SQ. ■	2304709			

GW M 10 x 1.5 (cyl.)

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
19	5.5	13	90°	11mm HEX ⬢		2111469*		

GW R 1/8, 1/8 - 28 BSP

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
18	5.5	14	90°	11mm SQ. ■	2304756			

GW R 1/4, 1/4 - 19 BSP

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
22.5	6.5	15	90°	14mm HEX ⬢	2301457			

* cylindric

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

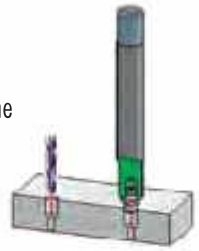
Drive-in nipples as standard version are with plain shank, made of steel, zinc-plated and passivated. Upon request, UMETA manufactures drive-in grease nipples in other versions, with respect to the following:

- 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 corresponds to the nominal width of the shank Ø.



Drive-in tool

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.

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

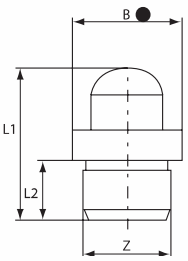
RECOMMENDATION

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.

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 = shank Ø
L1 = overall length
L2 = shank length
B = collar Ø

(all measures in mm)

Z 6mm Ø Ref.- No.:

L1	L2	B	Steel	Brass	SST303	SST316L
14	5.5	8 ●	2100186	2110186	2120186	
15	6.5	8 ●		2110187		

Z 8mm Ø Ref.- No.:

L1	L2	B	Steel	Brass	SST303	SST316L
14	5.5	10 ●	2100288	2110288	2120288	

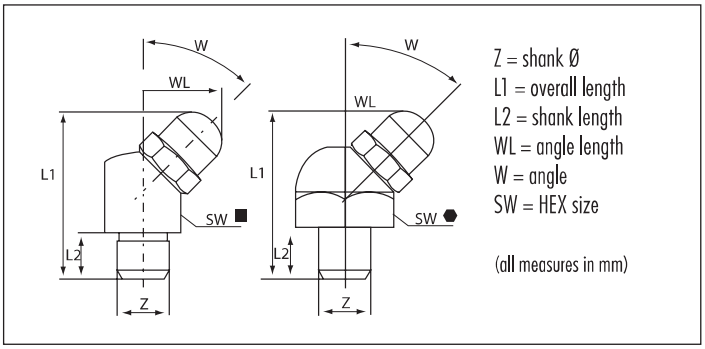
Z 10mm Ø Ref.- No.:

L1	L2	B	Steel	Brass	SST303	SST316L
14	5.5	12 ●	2100389			

Type K2a

Ball-Type Grease Nipples - Drive-in Version

- according to former DIN 3402
- angled version B/45°
- drive-in-type with plain shank
- standard versions according to DIN are made of steel, zinc-plated and passivated



Z 6mm Ø

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
19	5.5	9	45°	9mm SQ. ■	2204586			
21	7	9	45°	9mm HEX ⬣		2111467		

Z 10mm Ø

L1	L2	WL	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
19	5.5	9.5	45°	11mm SQ. ■	2204789			

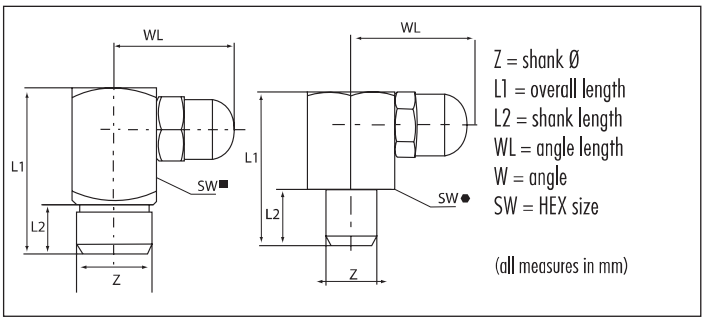
Z 8mm Ø

L1	L2	WL	W	SW	Ref.- No.: 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

- according to former DIN 3402
- angled version C/90°
- drive-in-type with plain shank
- standard versions according to DIN are made of steel, zinc-plated and passivated



Z 6mm Ø

L1	L2	WL	W	SW	Ref.- No.: 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		

Z 8mm Ø

L1	L2	WL	W	SW	Ref.- No.: 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 cylindrical 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)
- further surface treatment
- etc.

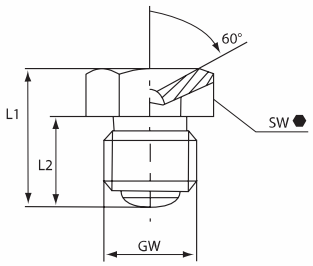
OPERATING INSTRUCTIONS

Flush-type nipples are only suitable for press-greasing 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

- according to DIN 3405
- 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 = thread
L1 = overall length
L2 = thread length
SW = HEX size

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

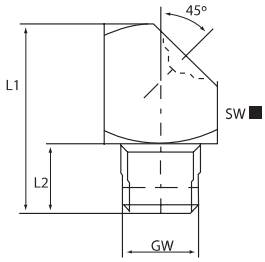
GW	L1	L2	SW	Ref.- No.: Steel	Brass	SST303	SST316L
M 5 x 0.8	9	6	7mm HEX ⬢	3100720			
M 6 x 0.75	9	6	7mm HEX ⬢	3100723			
M 6 x 1.0	9	6	7mm HEX ⬢	3100724	3110724	3120724	
M 8 x 1.0	9.5	6.5	9mm HEX ⬢	3100925	3110925	3120925	
M 8 x 1.25	9.5	6.5	9mm HEX ⬢	3100926	3110926	3120926	
M 10 x 1.0	9.5	6.5	11mm HEX ⬢	3101127	3111127	3121127	

GW	L1	L2	SW	Ref.- No.: Steel	Brass	SST303	SST316L
M 10 x 1.5	9.5	6.5	11mm HEX ⬢	3101128			
M 12 x 1.5	14	9.5	14mm HEX ⬢	3101431			
G 1/8, 1/8 - 28 BSPP	9.5	6.5	11mm HEX ⬢	3101161	3111161	3121161	
G 1/4, 1/4 - 19 BSPP	14	9.5	14mm HEX ⬢	3101462	3111462	3121462	
G 3/8, 3/8 - 19 BSPP	14.5	9	17mm HEX ⬢	3101763			
1/4" - 28 NF/UNF/SAE	9	6	7mm HEX ⬢	3100742			

Type D2

Flush-Type Grease Nipples

- according to DIN 3405
- angled version B/45°
- standard versions according to DIN are made of steel, zinc-plated and passivated, with tapered thread



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

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

GW M 6 x 1.0 Ref.- No.:

L1	L2	W	SW	Steel	Brass	SST303	SST316L
15	5.5	45°	9mm SQ. ■	3204504	3214504		

GW M 8 x 1.0 Ref.- No.:

L1	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	45°	9mm SQ. ■	3204508			

GW M 10 x 1.0 Ref.- No.:

L1	L2	W	SW	Steel	Brass	SST303	SST316L
15	5.5	45°	11mm SQ. ■	3204709			

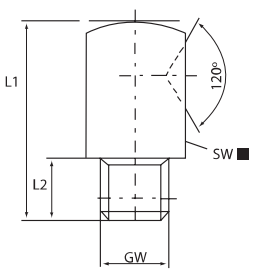
GW R 1/8, 1/8 - 28 BSP Ref.- No.:

L1	L2	W	SW	Steel	Brass	SST303	SST316L
15	5.5	45°	11mm SQ. ■	3204756			

Type D3

Flush-Type Grease Nipples

- according to DIN 3405
- angled version C/90°
- standard versions according to DIN are made of steel, zinc-plated and passivated, with tapered thread



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

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

GW M 6 x 1.0 Ref.- No.:

L1	L2	W	SW	Steel	Brass	SST303	SST316L
18	5.5	90°	9mm SQ. ■	3304504			

GW M 8 x 1.0 Ref.- No.:

L1	L2	W	SW	Steel	Brass	SST303	SST316L
18	5.5	90°	9mm SQ. ■	3304507			

GW M 8 x 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			

GW R 1/8, 1/8 - 28 BSP Ref.- No.:

L1	L2	W	SW	Steel	Brass	SST303	SST316L
18	5.5	90°	11mm SQ. ■	3304756			

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

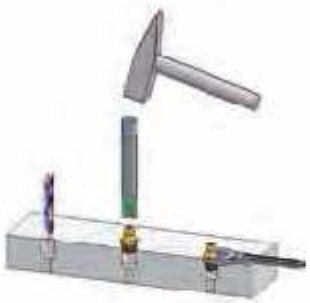
For safety reasons and in order to avoid abrasion wear, the DIN standard for grease nipples with self-forming thread demands a specific surface hardness of 650 HV minimum as well as a particularly wide flank angle of 105° at the thread. Therefore, we operate this decisive process in our own curing oven. 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.

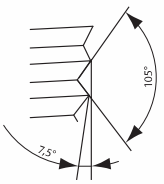
MOUNTING INSTRUCTIONS

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 pointed nozzles.



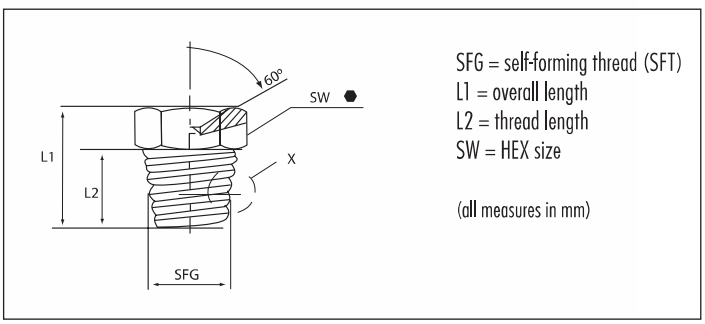


flank angle

Type D1/S

Flush-Type Grease Nipples with Self-Forming Thread

- according to DIN 3405
- 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.- No.:	
L1	L2	SW	Steel	not available in other materials
8.5	5.5	7mm HEX ⬣	3100774	

SFG S 8 x 1			Ref.- No.:	
L1	L2	SW	Steel	not available in other materials
8.5	5.5	9mm HEX ⬣	3100975	

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.

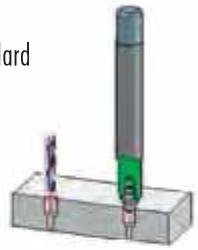
VERSIONS

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

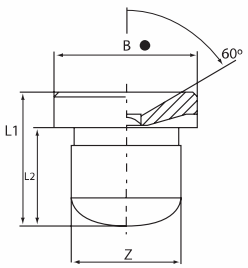
- strong vibrations
- high back-pressure when greasing with automatic guns

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

Type D1a

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 = shank Ø
L1 = overall length
L2 = shank length
B = collar Ø

(all measures in mm)

Z 5mm Ø Ref.- No.:

L1	L2	B		Steel	Brass	SST303	SST316L
7.5	5.5	8	●	3100185			

Z 6mm Ø Ref.- No.:

L1	L2	B		Steel	Brass	SST303	SST316L
7.5	5.5	8	●	3100186	3110186	3120186	

Z 6.35mm, 1/4" Ø Ref.- No.:

L1	L2	B		Steel	Brass	SST303	SST316L
7.5	5.5	8	●	3100187			

Z 8mm Ø Ref.- No.:

L1	L2	B		Steel	Brass	SST303	SST316L
9.5	6.5	10	●	3100288	3110288	3120288	

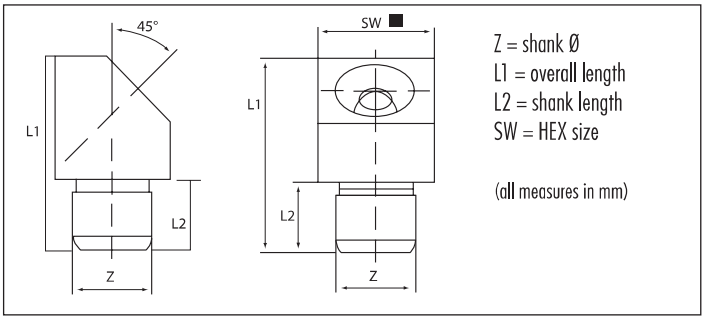
Z 10mm Ø Ref.- No.:

L1	L2	B		Steel	Brass	SST303	SST316L
9.5	6.5	12	●	3100389	3110389		

Type D2a

Flush-Type Grease Nipples - Drive-in Version

- according to DIN 3405
- angled version B/45°
- drive-in-type with plain shank
- standard versions according to DIN are made of steel, zinc-plated and passivated



Z 6mm Ø

L1	L2	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
15	5.5	45°	9mm SQ. ■	3204586			

Z 8mm Ø

L1	L2	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
15	5.5	45°	9mm SQ. ■	3204588			

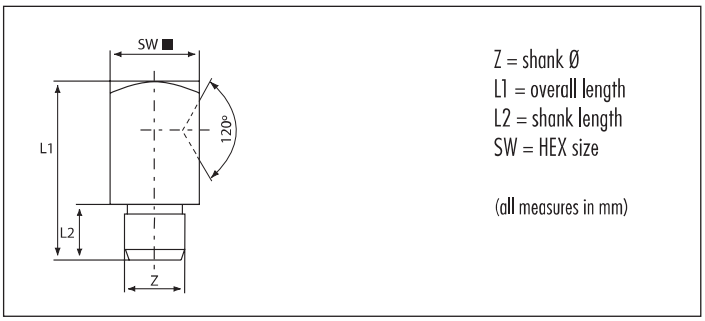
Z 10mm Ø

L1	L2	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
15	5.5	45°	11mm SQ. ■	3204789			

Type D3a

Flush-Type Grease Nipples - Drive-in Version

- according to DIN 3405
- angled version C/90°
- drive-in-type with plain shank
- standard versions according to DIN are made of steel, zinc-plated and passivated



Z 6mm Ø

L1	L2	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
18	5.5	90°	9mm SQ. ■	3304586			

Z 8mm Ø

L1	L2	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
18	5.5	90°	9mm SQ. ■	3304588			

Z 10mm Ø

L1	L2	W	SW	Ref.- No.: Steel	Brass	SST303	SST316L
18	5.5	90°	11mm SQ. ■	3304789			

FLUSH-TYPE GREASE NIPPLES - SPECIAL DESIGNS

VERSIONS

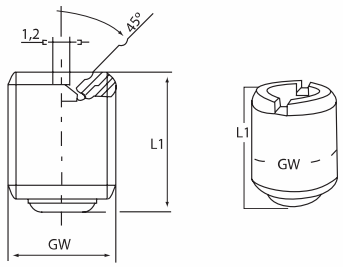
The following types are representing only
the most commonly used special-type nipples.
For individual applications, UMETA manufactures
flush-type grease nipples with special equipment
in other versions, with respect to the following:

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

Type DV1

Flush-Type Grease Nipples

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



GW = thread
L1 = overall length

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

GW M 8 x 1.0 Ref.- No.:

L1	Steel	Brass	SST303	SST316L
10	5243010		5243069	5243021

GW M 10 x 1.0 Ref.- No.:

L1	Steel	Brass	SST303	SST316L
10	5243018		5243067	

GW G 1/8, 1/8 - 28 BSPP Ref.- No.:

L1	Steel	Brass	SST303	SST316L
10	5243019		5243068	

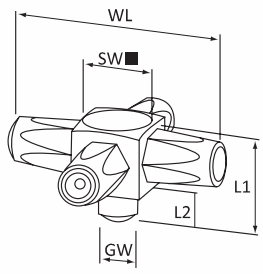
GW G 1/4 Ref.- No.:

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 = thread
L1 = overall length
L2 = thread length
WL = angle length
SW = HEX size

(all measures in mm)

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. ■	5244185			

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:

- head Ø 10 mm = M4
- head Ø 16 mm = M1
- head Ø 22 mm = M22
- 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 ~ ASTM 303 and 1.4404 ~ ASTM 316L (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).

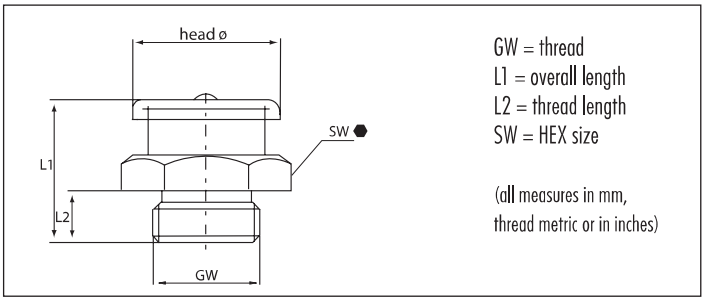
OPERATING INSTRUCTIONS

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

Type M4

Button-Head Grease Nipples

- head Ø 10 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



GW M 6 x 1.0 Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
13.5	6	11mm HEX ⬣	4201104			

GW M 8 x 1.0 Ref.- No.:

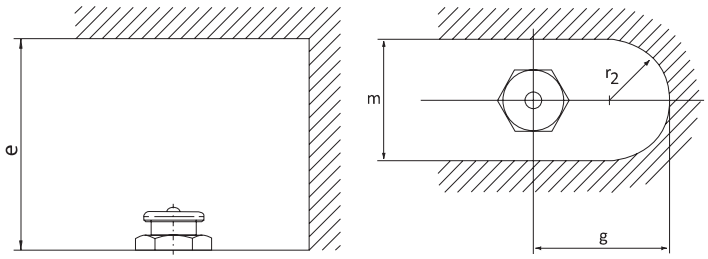
L1	L2	SW	Steel	Brass	SST303	SST316L
13.5	6	11mm HEX ⬣	4201107			

GW M 10 x 1.0 Ref.- No.:

L1	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	

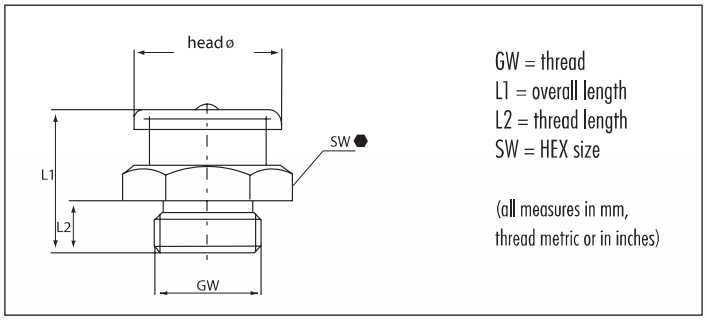


Instructions for installation: necessary space			
e =	50 mm/2-11/64"	r =	14 mm/41/64"
m =	26 mm/1-17/64"	g =	30 mm/1-25/64"

Type M1

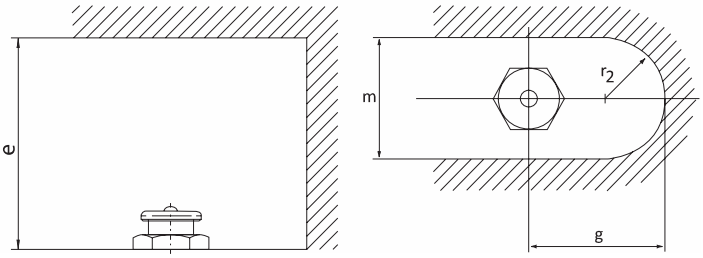
Button-Head Grease Nipples

- head Ø 16 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



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

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



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

GW M 8 x 1.25 Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
17	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.:

L1	L2	SW	Steel	Brass	SST303	SST316L
17	6	17mm HEX ⬢	4101732			

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.:

L1	L2	SW	Steel	Brass	SST303	SST316L
17	6	17mm HEX ⬢	4101715		4121715	

GW M 14 x 1.5 Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
17	6	17mm HEX ⬢	4101717		4121716	

GW M 16 x 1.5 Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
18	7	17mm HEX ⬢	4101719	4111715		

GW G 1/8, 1/8 - 28 BSPP Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
17	6	17mm HEX ⬢	4101761	4111761	4121761	4141761

GW G 1/4, 1/4 - 19 BSPP Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
17	6	17mm HEX ⬢	4101762	4111762	4121762	4141762

GW G 3/8, 3/8 - 19 BSPP Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
18	7	17mm HEX ⬢	4101763	4111763	4121763	4141763

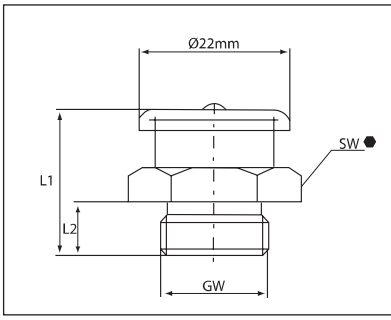
GW 1/4" - 18 NPT/PTF Ref.- No.:

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



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

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

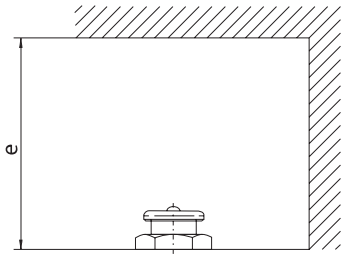
GW	M 10 x 1.0		Ref.- No.:			
L1	L2	SW	Steel	Brass	SST303	SST316L
23.5	9.5	22mm HEX ⬣	4302210			

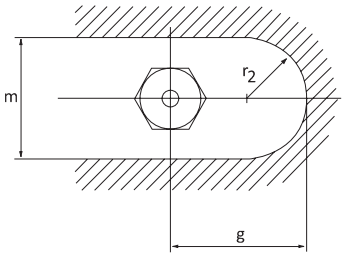
GW	M 16 x 1.5		Ref.- No.:			
L1	L2	SW	Steel	Brass	SST303	SST316L
21.5	8	22mm HEX ⬣	4302219	4312219	4322219	

GW	G 1/4, 1/4 - 19 BSPP		Ref.- No.:			
L1	L2	SW	Steel	Brass	SST303	SST316L
21.5	8	22mm HEX ⬣	4302262	4312262	4322262	

GW	G 3/8, 3/8 - 19 BSPP		Ref.- No.:			
L1	L2	SW	Steel	Brass	SST303	SST316L
21.5	8	22mm HEX ⬣	4302263	4312263	4322263	

GW	G 1/2, 1/2 - 14 BSPP		Ref.- No.:			
L1	L2	SW	Steel	Brass	SST303	SST316L
21.5	8	22mm HEX ⬣	4302264			



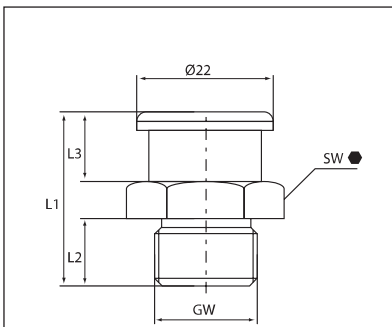


Instructions for installation: necessary space			
e =	60 mm/2-3/8"	r =	18 mm/23/32"
m =	36 mm/1-27/64"	g =	45 mm/1-25/32"

Type M22/L

Button-Head Grease Nipples

- 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



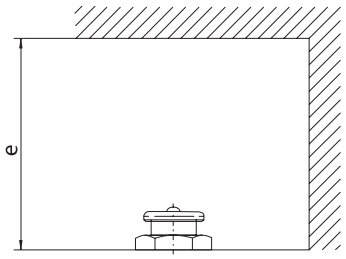
GW = thread
L1 = overall length
L2 = thread length
L3 = neck length
SW = HEX size

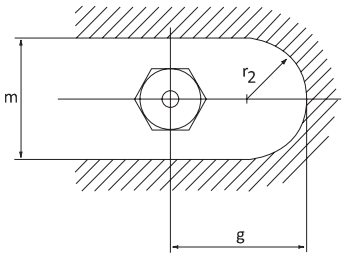
(all measures in mm, thread metric or in inches)

GW	G 1/4, 1/4 - 19 BSPP			Ref.- No.:			
L1	L2	L3	SW	Steel	Brass	SST303	SST316L
28	11.5	11	22mm HEX ⬣	4402262			

GW	G 3/8, 3/8 - 19 BSPP			Ref.- No.:			
L1	L2	L3	SW	Steel	Brass	SST303	SST316L
28	11.5	11	22mm HEX ⬣	4402263			

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



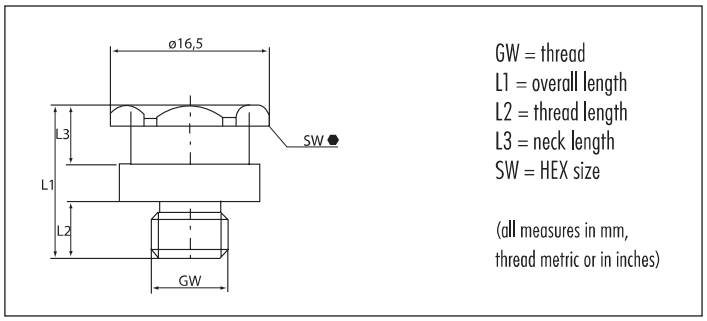


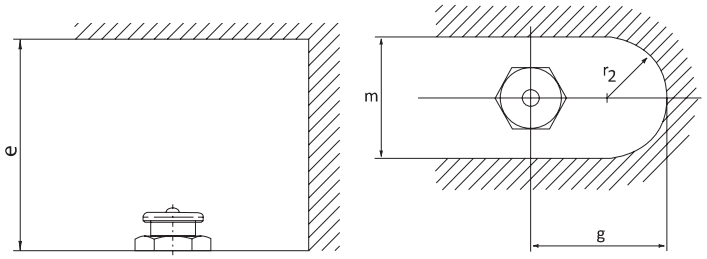
Instructions for installation: necessary space			
e =	66 mm/2-39/64"	r =	18 mm/23/32"
m =	36 mm/1-27/64"	g =	45 mm/1-25/32"

Type T1

Button-Head Grease Nipples

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





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	L3	SW	Steel	Brass	SST303	SST316L
16	6	6.2	15mm HEX ⬣	4501504			

GW M 8 x 1.0 Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6.2	15mm HEX ⬣	4501507			

GW M 8 x 1.25 Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6.2	15mm HEX ⬣	4501508			

GW M 10 x 1.0 Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6.2	15mm HEX ⬣	4501509			

GW M 10 x 1.5 Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6.2	15mm HEX ⬣	4501511			

GW G 1/8, 1/8 - 28 BSPP Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6.2	15mm HEX ⬣	4501561	4611560		

GW G 1/4, 1/4 - 19 BSPP Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6.2	15mm HEX ⬣	4501562			

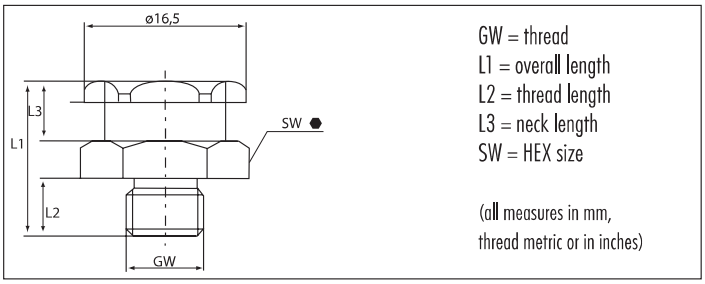
GW 1/4" -28 NF/UNF/SAE Ref.- No.:

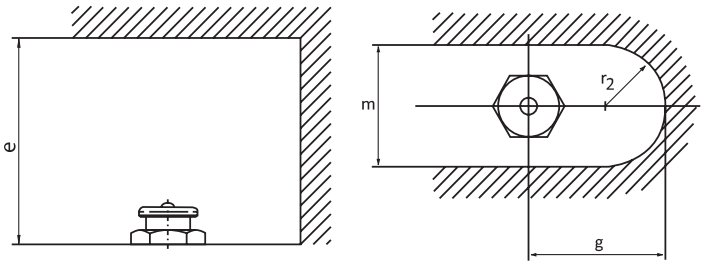
L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6.2	15mm HEX ⬣	4501537			

Type T1B

Button-Head Grease Nipples

- hexagonal head and collar, Hex size 15 mm
- 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





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	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 HEX ⬣	4601508	4611508		

GW M 10 x 1.0 Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6	15mm HEX ⬣	4601509	4611509	4621509	

GW M 10 x 1.5 Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6	15mm HEX ⬣	4601511	4611511		

GW M 12 x 1.5 Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6	15mm HEX ⬣	4601514	4611514	4621514	

GW M 12 x 1.75 Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6	15mm HEX ⬣	4601516			

GW G 1/8, 1/8 - 28 BSPP Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6	15mm HEX ⬣	4601561	4611561	4621561	4641561

GW G 1/4, 1/4 - 19 BSPP Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6	15mm HEX ⬣	4601562	4611562	4621562	4641562

GW G 3/8, 3/8 - 19 BSPP Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6	15mm HEX ⬣	5372717			

GW 1/8" - 27 NPT/PTF Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6	15mm HEX ⬣				4641567

GW 1/4" - 28 NF/UNF/SAE Ref.- No.:

L1	L2	L3	SW	Steel	Brass	SST303	SST316L
16	6	6	15mm HEX ⬣	4601537			

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

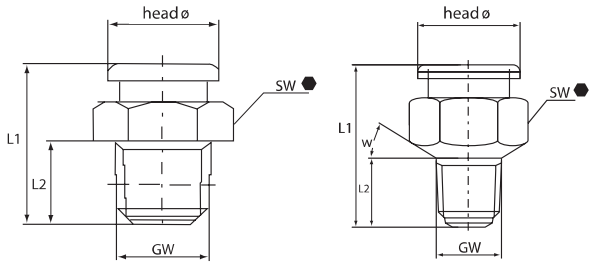
The following types are representing only the most commonly used special-type nipples.
For individual applications, UMETA manufactures button-head grease nipples with special equipment in other versions, with respect to the following:

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

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.

OPERATING INSTRUCTIONS

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

GW M 16 x 1.5 Ref.- No.:

L1	L2	W	Typ	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	Typ	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	Typ	SW	Steel	Brass	SST303
23	13		M 1	17mm HEX ⬣	5376314		
33	13	60°	M 22	22mm HEX ⬣	5240048		

GW 1/4" - 18 NPTF Ref.- No.:

L1	L2	W	Typ	SW	Steel	Brass	SST303
21	10.7		M 1	17mm HEX ⬣	5240046		
35	15	30°	M 22	22mm HEX ⬣	5240061		

GW 3/8" - 18 NPT/PTF Ref.- No.:

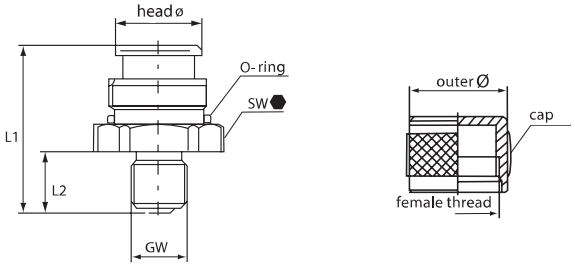
L1	L2	W	Typ	SW	Steel	Brass	SST303
33	14	60°	M 22	22mm HEX ⬣	5240062		

GW 1/2" -14 NPT Ref.- No.:

L1	L2	W	Typ	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



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

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

L1	L2	SW	Ref.- No.: Steel	Brass	SST303	SST316L
31	11.5	22mm HEX ⬣	5544057		5544053	

GW M 12 x 1.5

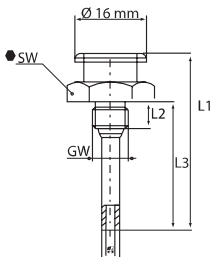
L1	L2	SW	Ref.- No.: Steel	Brass	SST303	SST316L
31	11.5	22mm HEX ⬣	5544056			

GW R 1/4, 1/4 - 19 BSP

L1	L2	SW	Ref.- No.: Steel	Brass	SST303	SST316L
31	11.5	22mm HEX ⬣	5544054			

Button head grease nipple with extension
Type M1

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



GW = thread
L1 = overall length
L2 = thread length
L3 = installation depth
SW = HEX size

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

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

L1	L2	L3	SW	Ref.- No.: Steel	Brass	SST303	SST316L
40	6	23	17mm 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

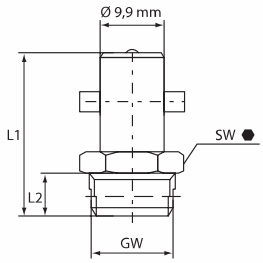
In general, our bayonet nipples are made of steel, zinc-plated and passivated, and they are featured with a tapered thread. We offer various standard types also in brass or stainless steel 1.4305 ~ ASTM 303 (V2A). Upon request, UMETA manufactures bayonet grease nipples in other versions, with respect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

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



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

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

GW M 16 x 1.5 Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
25	6.5	17mm HEX ⬢	9149418			

GW R 1/8, 1/8 - 28 BSP Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
24	5.5	11mm HEX ⬢	9149415	9155416	9157420	

GW R 1/4, 1/4 - 19 BSP Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
25	6.5	14mm HEX ⬢	9149416	9156416	9157421	

GW R 3/8, 3/8 - 19 BSP Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
25	6.5	17mm HEX ⬢	9149417	9157416		

GW 1/8" - 27 NPT/PTF Ref.- No.:

L1	L2	SW	Steel	Brass	SST303	SST316L
24	5.5	11mm HEX ⬢	9149414			

GW 1/4" - 18 NPT/PTF Ref.- 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 80

Sort 350

Sort 170

Steel, zinc-plated and passivated

consisting of: Ref.- No.:	UMETA-Type	Sort 80 6008100	Sort 170 6017140	Sort 350 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 pieces		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 pieces		80	170	

dimension (L x W x H) in cm: Sort 80 = 17.0 x 11,5 x 3.0
Sort 170 = 21.0 x 13,0 x 3.5
Sort 350 = 25.0 x 18,0 x 4.5

UMETA ACCESSORIES FOR GREASE NIPPLES

UMETA Plastic Protection Caps

· suitable for grease nipples with hydraulic head according to DIN 71412

· 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.

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

Type	Ref.- No.:
SK-G	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

· 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