

# GREASE NIPPLES

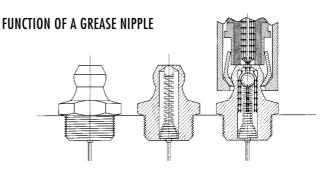
#### Maintaining permanent motion!

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

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



#### 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

· etc.

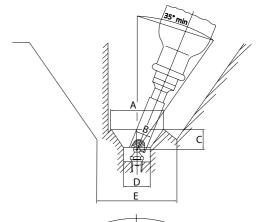
### MOUNTING INSTRUCTIONS

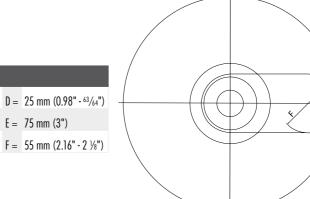
In order to allow for a proper lubrication with all common grease guns, the head space, which is necessary for installation, should be considered (please see table with dimensions).

#### OPERATING INSTRUCTIONS

As suitable lubricating nozzle, we recommend our hydraulic couplers.









A = 50 mm (1.97")

 $B = 16.5 \, \text{mm} \, (0.65")$ 

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



E = 75 mm (3")



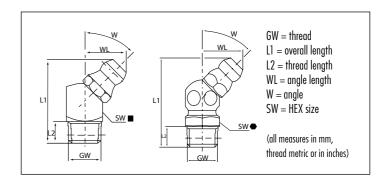


# Type H2



## **Hydraulic-Type Grease Nipples**

- according to DIN 71412
- $\cdot$  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.			Ref No.:			
Ll	L2	WL	W	SW		Steel	Brass	SST303	SST316L
23.5	5.5	10.5	45°		9mm HEX ●	1200901			
GW	AA	4 0	75						
$\overline{}$		6 x 0		CW		Ref No.:	D	CCTOOO	CCT01/1
L1	L2	WL	W	SW	0 00 -	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			Ref No.:			
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	AA	7 x 1	Λ			D.C. N.			
LI	L2	WL	W	SW		Ref No.: Steel	Brass	SST303	SST316L
23.5	5.5	10.5	45°	JVV	9mm HEX ●	1200905	DIUSS	331303	331310L
20.5	5.5	10.5	43		/IIIIII IILA 🖜	1200703			
(GW	M	8 x 0	.75			Ref No.:			
Ll	L2	WL	W	SW		Steel	Brass	SST303	SST316L
23.5	5.5	10.5	45°		9mm HEX ●	1200906			
CW		0 1	^			D ( 11			
GW L1		8 x 1	W	SW		Ref No.:	Duman	CCT202	SST316L
	L2			244	0	Steel	Brass	SST303	331310L
20.5 23.5	5.5 5.5	10.5	45° 45°		9mm SQ. ■ 9mm HEX ●	1204507	1210007	1220907	1240007
17.5	5.5	10.5 12.3	45 67°		9mm SQ. ■	1200907 1404507	121070/	122070/	1240707
20.5	5.5	12.3	67°		9mm HEX ◆	1404507			
20.3	ງ.ງ	12.2	07		/IIIIII IIEA 🖶	1400707			
GW	M	8 x 1	.25			Ref No.:			
Ll	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.:			
LI	L2	WL	W	SW	Steel	Brass	SST303	SST316L
20.5	5.5	11	45°	11mm SQ. ■	1204709	2		
25	5.5	11.5	45°	11mm HEX ●		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	DIUJJ	331000	3310101
LJ	5.5	11.3	43	I IIIIIII IILA 🖝	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	
GW	AA	12 x	1 0		D.C. N.			
Ll	L2	WL	W	SW	Ref No.: Steel	Brass	SST303	SST316L
22.5	6.5	12	45°	14mm HEX ●	1201412	DIUSS	331303	331310L
22.3	0.5	ΙZ	43	14IIIIII IIEA	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			
GW	88	10	1 75					
_	L2	12 x WL	W	SW	Ref No.:		CCTOOO	CCT01/I
L1			₩ 45°		Steel	Brass	SST303	SST316L
22.5	6.5	12	45	14mm HEX ●	1201415			
GW	M	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	AA	16 x	1.5		И 1. п			
LI	L2	WL	W	SW	Ref No.: Steel	Brass	SST303	SST316L
25.5	7	13.5	45°	17mm HEX ●	1201719	לכטוע	331303	33131UL
LJ.J	1	10.0	43	17 IIIIII IIEA 😈	1201/17			

GW	R	1 /2	1 /2	- 28 BSP	Ref No.:			
LI	L2	WL			Steel	Brass	SST303	SST316L
		11					331000	3310102
25		11.5				1211156	1221156	1241156
28.5	9		45°		5241236	1211130	1221130	1211130
36	5.5			11mm SQ. ■	5242087			
25	5.5		67°	11mm HEX ●	1401156			
	0.0		0.					
GW	R	1/4.	1/4	- 19 BSP	Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
22.5			45°	14mm HEX ●				
	0.0				.201.07	.2		
0111		0 /0	0 /0	10.000				
GW				- 19 BSP	Ref No.:			
Ll	L2	WL	W	SW	Steel	Brass	SST303	SST316L
25.5	7	13.5	45°	17mm HEX ◆	1201758			
GW	1/	/8" -	27 N	PT/PTF	Ref No.:			
LI	L2	WL	W	SW	Steel	Brass	SST303	SST316L
		11				Diass	331000	3310101
27	7			11mm HEX				
24	7		67°					
	•		0,		02.12.00			
GW	1.	/ <b>/</b> " -	12 N	PT/PTF	Ref No.:			
LI	L2	WL	W	SW	Steel	Brass	SST303	SST316L
22.5	6.5	12	45°	14mm HEX ●	1201468	Diass	331000	3310101
LL.J	0.5	12	13	T IIIIII IIEX	1201100			
<b>2111</b>			o / D	_				
GW	_	/4" -			Ref No.:			
L1	L2		W	SW	Steel	Brass	SST303	SST316L
	5.5						1220944	
20.5	5.5	12.2	67°	9mm HEX ◆	1400944			
GW	1/	/4" -	28 N	F/UNF/SAE	Ref No.:			
LI	L2	WL		SW	Steel	Brass	SST303	SST316L
				9mm HEX ●		1210937		
20.5		12.2		9mm HEX ●	1400937		,	
0111		/ a II	D. 614.5					
GW			<b>BSW</b>		Ref No.:			
1.0	_			CILL	6. 1			CCTO- ''
L1	L2	WL	W	SW	Steel	Brass	SST303	SST316L
L1 23.5	L2	WL		SW 9mm HEX ◆	Steel 1200950	Brass	SST303	SST316L
	L2	WL	W			Brass	SST303	SST316L
23.5	<b>L2</b> 5.5	WL 10.5	<b>W</b> 45°	9mm HEX ●	1200950		SST303	SST316L
23.5 <b>GW</b>	L2 5.5	WL 10.5	W 45° - <b>22</b>	9mm HEX ●	1200950 Ref No.:			
23.5 GW L1	L2 5.5 <b>5</b> / L2	WL 10.5 /16" · WL	W 45° - <b>22</b> I W	9mm HEX <b>●</b> BSF SW	1200950 Ref No.: Steel		SST303 SST303	SST316L SST316L
23.5 GW L1 23.5	5.5 5.5 L2 5.5	WL 10.5 /16" · WL 10.5	W 45° - <b>22</b> I W 45°	9mm HEX ◆  BSF SW 9mm HEX ◆	1200950  Ref No.: Steel 1200945			
23.5 GW L1	L2 5.5 <b>5</b> / L2	WL 10.5 /16" · WL 10.5	W 45° - <b>22</b> I W	9mm HEX <b>●</b> BSF SW	1200950 Ref No.: Steel			
23.5 GW L1 23.5 20.5	5.5 5.5 5.5 5.5 5.5	WL 10.5 /16" - WL 10.5 12.2	W 45° - <b>22</b>   W 45° 67°	9mm HEX ●  BSF SW 9mm HEX ● 9mm HEX ●	1200950  Ref No.: Steel 1200945 1400945			
23.5 GW L1 23.5 20.5	5/ 5.5 5/ 12 5.5 5.5	WL 10.5 /16" · WL 10.5 12.2	W 45° - 22   W 45° - 67°	9mm HEX ◆ SW 9mm HEX ◆ 9mm HEX ◆	Ref No.: Steel 1200945 1400945 Ref No.:		SST303	SST316L
23.5 GW L1 23.5 20.5 GW L1	5.5 5.5 5.5 5.5 5.5 5.2	WL 10.5 /16" · WL 10.5 12.2 /16" · WL	W 45° - <b>22</b>   W 45° 67°	9mm HEX ●  SW 9mm HEX ● 9mm HEX ● SW  NF/UNF/SAE SW	Ref No.: Steel 1200945 1400945 Ref No.: Steel	Brass Brass	SST303 SST303	
23.5 GW L1 23.5 20.5 GW L1 23.5	5.5 5.5 5.5 5.5 5.5 5.5	WL 10.5 /16" · WL 10.5 12.2 /16" · WL 10.5	W 45° - 22   W 45° 67° - 24   W 45°	9mm HEX   SW 9mm HEX  9mm HEX   9mm HEX   WF/UNF/SAE SW 9mm HEX   9mm HEX	Ref No.: Steel 1200945 1400945 Ref No.: Steel 1200938	Brass	SST303 SST303	SST316L
23.5 GW L1 23.5 20.5 GW L1	5.5 5.5 5.5 5.5 5.5 5.2	WL 10.5 /16" · WL 10.5 12.2 /16" · WL 10.5	W 45° - <b>22</b>   W 45° 67°	9mm HEX ●  SW 9mm HEX ● 9mm HEX ● SW  NF/UNF/SAE SW	Ref No.: Steel 1200945 1400945 Ref No.: Steel	Brass Brass	SST303 SST303	SST316L

GW	5/	′16" ·	- BSV	V )	Ref No.:			
L1	L2	WL	W	SW	Steel	Brass	SST303	SST316I
23.5	5.5	10.5	45°	9mm HEX 🖝	1200951			
GW	3/	/8" -	NPT/	/PTF	Ref No.:			
L1	L2				Steel	Brass	SST303	SST316
25.5	7	13.5	45°	17mm HEX ●	1201769			
GW	3/	/8" -	20 B	SF	Ref No.:			
Ll	L2		W	SW	Steel	Brass	SST303	SST316
25	5.5	11.5	45°	11mm HEX ●	1201146			
25	5.5	11.5	67°	11mm HEX 🖝	1401140			
CW	2	/OII	0 / N	F /IINF /CAF	D ( 11			
GW				F/UNF/SAE	Ref No.:	n	CCTOOO	CCT01/
L1	L2				Steel	Brass	SST303	SST316
25		11.5			1201139			
25	5.5	11.5	67°	11mm HEX	1401139			
GW	3/	/8" B	SW		Ref No.:			
L1	L2	WL	W	SW	Steel	Brass	SST303	SST316
25	5.5	11.5	45°	11mm HEX 🖝	1201152			
	1.	/2" -	20 U	NF/NF/SAE	Ref No.:			
GW			W	SW	Steel	Brass	SST303	SST316
	L2	WL	YY	311				
<b>GW</b> L1 22.5		WL 12	45°	14mm HEX ◆	1201440			