

1. SCOPE

The parts described in this standard are metric conical head lubricating fittings. This standard may differ in some respects with certain segments of national standards. In recognition of these differences, the dimensions used were established in an effort to meet user needs and enable the use of commercially available items, dimensionally interchangeable worldwide.

2. CONTENTS[TABLE 1- STRAIGHT CONICAL HEAD LUBRICATING FITTINGS](#)[TABLE 2-ANGLED CONICAL HEAD LUBRICATING FITTINGS](#)[TABLE 3-90° CONICAL HEAD LUBRICATING FITTINGS](#)**3. RELATED DOCUMENTS****3.1 REFERENCE STANDARDS**

ISO 6392-1—Earth Moving Equipment – Lubrication Fittings
CNH STPA020—Fastener Finishes and Material Specifications
DIN 158-1—Metric taper external and mating parallel internal screw threads
DIN 71412—Lubricating Nipples – cone type
DIN 50133— Testing metallic materials; hardness test by the Vickers method
NFR 16-521—Road Vehicles-Lubricating spherical heads with short conical screw threads
Fiat 14639—Ball Tip Grease Fittings for pressure lubrication

3.2 REPLACED STANDARDS

Case LM-005—Conical Head Lubricating Fittings Metric Series

4. REQUIREMENTS**4.1 DIMENSIONS**

Reference DIN 71412 for all dimensions not specified in this document. All dimensions in this standard are in millimetres.

4.2 MATERIAL

Steel of property class 5.8 to DIN ISO 898 Part 1.

Surface hardness to DIN 50133 :

- 550 HV min. for tapered lubrication nipples with metric thread or with Whitworth pipe thread (only conical head each)
- 650 HV min. for self-forming thread (with conical head and thread).
- Case depth: 0.08 – 0.15 mm.

For part that specify Fiat standard 14639 the material is steel per Fiat 52605/02 R 50 IND

AUTHOR	APPROVED BY	ECO	PART NUMBER
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Standard Part

Metric Lubrication Fittings

STPL570

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Rev R

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4.3 FINISH

The external surfaces and threads on all fittings shall have a minimum plating thickness of 5µm minimum of zinc and chromate standard with the manufacturer.”

4.4 THREADS

Threads are to be metric tapered screw thread, taper 1:16, similar to DIN 158-1 except short type with thread runout of 1mm max.

4.5 CHECK VALVE

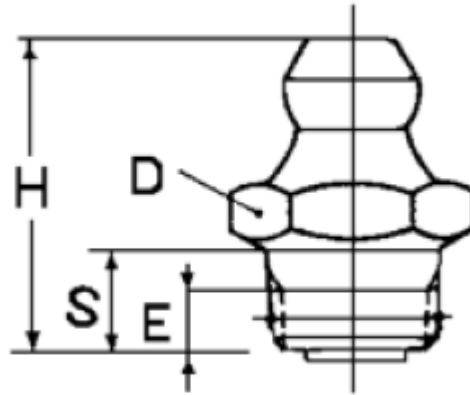
The lubricating fittings specified in this standard shall be supplied with ball check valves which will provide a seal against the ingress of foreign matter, but will admit lubricant under pressure and prevent its escape.

4.6 WORKMANSHIP

Fittings shall be free from burrs, loose scale, sharp edges, and all other conditions that might affect their intended lubrication function.

5. CROSS REFERENCE

For cross-reference listing of company part numbers, go to [CNH Catalogue](#).

TABLE 1- STRAIGHT CONICAL HEAD LUBRICATING FITTINGS


Thread/Pitch	H	D	S	E	Ref STD	Part Number
M6 X 1	16	7	5.5	4	DIN 71412	321204
M6 X 1	12	8	4.5	3		87588865
M6 X 1	12	8	4.5	3		90412846*
M6 X 1	13.5	7	5	3.75	NFR 16-521	48045770
M8 X 1	17	9	5.5	4	DIN 71412	87563868
^S8X1	16	9	5.5		DIN 71412	8412011
M8 X 1.25	15	9		3.75		87742355
M8 X 1.25	14.8	10/11 (OPT)	5	3.75	NFR 16-521	
M10 X 1	18	11	7	5	FIAT 14639	13407211
M10 X 1	18	11	7	5	FIAT 14639	13407214*
M10 X 1	14.8	11	5	3.75	NFR 16-521	
M10 X 1	18	11	5.5	3.5	DIN 71412	150021
M10 X 1**	18	11	5.5	3.5	DIN 71412	332038
M10 X 1.5	20	11	7	5.85		
M10 X 1.5	15	11	5	3.75		
M12 X 1.5	17.5	14		6.5		90478358

* DAC Finish

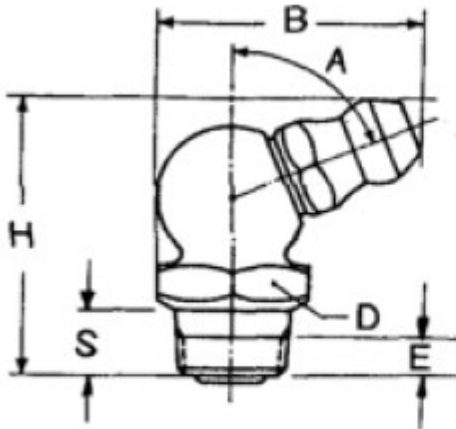
** Self Tapping

^Self-forming

TABLE 2-ANGLED CONICAL HEAD LUBRICATING FITTINGS

Hexagon Width Across Flats

Square Width Across Flats



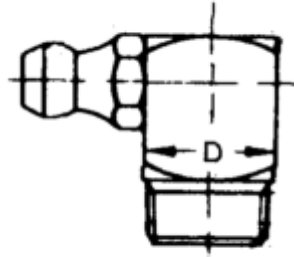
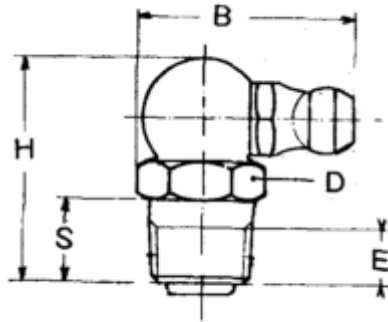
Thread/Pitch	A	B	H	D	S	E	Ref STD	Part Number
M6 X 1	45°	14.5	21	9	5.5	4	DIN 71412	84814929
M8 X 1	45°	14.5	21	9	5.5	4	DIN 71412	150024
M8 X 1	45°	17	24.5	11	5	3.75	NFR 16-521	
M8X1*	45°	14.5	21	9	5.5	4	DIN71412	1960957
M8 X 1.25	45°		21		5.5	4		278921
M8 X 1.25	67°	21	20.5	11	5	3.75		
M10 X 1*	45°	16.5	21	11	5.5	4	DIN 71412	332039
M10 X 1	45°		21	11	5.5	3.5	DIN 71412	150023
M10 X 1	45°		27	11	7	5	FIAT 14639	13407811

* Self Tapping

TABLE 3-90° CONICAL HEAD LUBRICATING FITTINGS

Hexagon Width Across Flats

Square Width Across Flats



Thread/Pitch	B	H	D	S	E	Ref STD	Part Number
M6 X 1	18.8	18	9	5.5	4	DIN 71412	323713
M8 X 1	18.8	18	9	5.5	4	DIN 71412	87010769
M8 X 1	18.8	18	9	5.5	4	DIN 71412	^51604102
M8 X 1.25		20	11		4.5		87549247
M10 X 1*	20.8	18	11	5.5	4	DIN 71412	332040
M10 X 1	13.5	21	11	7	5	FIAT 14639	13408411

* Self Tapping

^ Square Width Across Flats only