

INTERPLANT STANDARD — STEEL INDUSTRY



SPECIFICATION FOR MANUAL PORTABLE GREASE GUN

IPSS : 1-02-014-83

BASED ON IS : 7794-1975

0. Foreword

0.1 Interplant standardization activity in steel industry has been initiated under the aegis of the Indian Standards Institution (ISI) and the Steel Authority of India Limited (SAIL). This Interplant Standard, prepared by the Standards Committee on Basic Standards and Hydraulic, Pneumatic and Lubricating Equipment, IPSS 1:2, with the active participation of the representatives of all the steel plants and established manufacturers of grease gun, was adopted by the Approval Committee on Consumable Stores and General Equipment IPSS 1, on 31 March 1983.

0.2 Interplant Standards for steel industry primarily aim at achieving rationalization and unification of parts and sub-assemblies used in steel plant equipment and accessories, and provide guidance in indenting stores or equipment for existing or new installations by individual steel plants. For exercising effective control on inventories, it is advisable to select a fewer number of sizes (or types) from among those mentioned in this standard for the purpose of company standards of individual steel plants. It is not desirable to make deviations in technical requirements.

1. Scope — This Interplant Standard covers requirement of manually operated portable grease gun used in steel plants for general purpose applications and it shall be able to pump grease having work penetration at 25°C of 220 and above. It is generally based on IS : 7794-1975 'Specification for manual portable grease guns'. For convenience of reference, the clause numbers of this standard for each requirement along with the number of the matching clauses of the Indian Standard are given in Appendix A.

2. Types — Manual operated portable grease guns shall be of the following types:

- a) Push type (see Fig.1), and
- b) Lever operated with spring loaded follower (see Fig. 2).

3. Material — The material used for grease gun shall be such as to withstand normal wear and handling when used with grease up to a temperature of 60°C.

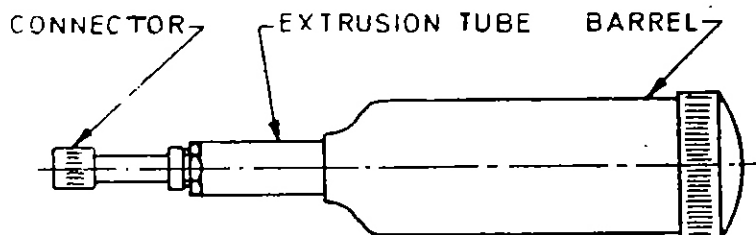


FIG. 1 PUSH TYPE GREASE GUN

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Amendments Issued (to be filled up by the user department)

No.	Date of Issue	No.	Date of Issue
1		3	
2		4	

UDC 621.896—726.7

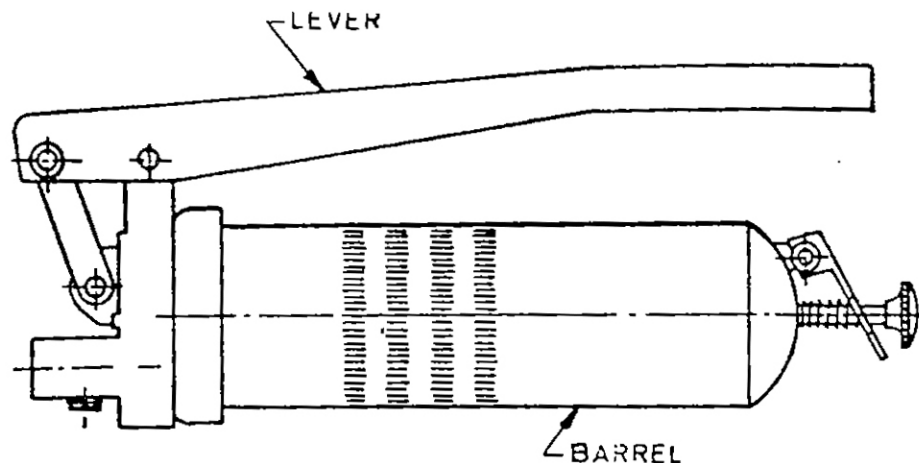


FIG. 2 LEVER TYPE GREASE GUN WITH SPRING LOADED FOLLOWER

4. Capacity — The nominal capacity, discharge per stroke, principal dimensions and operating discharge pressure shall be as given below:

Parameter	Push Type	Lever Operated	
		Type A	Type B
i) Nominal capacity of gun, cm^3	150	400	800
ii) Discharge stroke, cm^3	0.4	1.0	1.0
iii) Overall length in fully charged condition. Max, mm	325	750	900
iv) Nominal operating discharge pressure. Min, kg/cm^2	200	300	300
v) Outlet thread size female [conforming to IS : 554-1975 'Dimensions for pipe threads where pressure tight joints are required on the threads (second revision)'].	R 1/8	R 1/4	R 1/4

5. Design Features — The design features of the grease gun shall be as indicated in 6 of IS : 7794-1975.

6. Designation — The grease gun shall be designated by the following:

- Type
- Nominal capacity, and
- Number of this standard.

Example — A lever operated grease gun with spring loaded follower having a nominal capacity of 800 cm^3 shall be designated as:

LEVER OPERATED GUN, TYPE B, 800, IPSS : 1-02-014-83

7. Workmanship and Finish — This shall be as indicated in 8 of IS : 7794-1975.

8. Performance Tests — These tests shall be carried out as indicated in 9 of IS : 7794-1975.

9. Marking — The grease gun shall be marked with designation and manufacturer's trade-mark.

10. Packing — The grease gun shall be packed in accordance with the best prevalent practice or as agreed to by the purchaser and the supplier.

COMPARATIVE STUDY OF
IPSS : 1-02-014-83 'SPECIFICATION FOR MANUAL PORTABLE GREASE GUN'
AND
IS : 7794-1975 'SPECIFICATION FOR MANUAL PORTABLE GREASE GUNS'

Requirements		Clause Reference in IPSS	Clause Reference in ISS
Requirements which are identical between IPSS and ISS	Material	3	4
	Discharge stroke of grease gun	4 (ii)	5
	Overall length	4 (iii)	5
	Operating discharge	4 (iv)	5
	Design features	5	6
	Workmanship and finish	7	8
	Performance tests	8	9
	Packing	10	11
Requirements selected for steel plant use, out of several choices	Types	2	3
Supplementary requirements not contradicting ISS	Nominal capacity	4 (i)	5
	Outer pipe size	4 (v)	5
	Designation	6	7
	Marking	9	10
Deviations from ISS	Nil	—	—