

# INTERPLANT STANDARD — STEEL INDUSTRY



## SPECIFICATION FOR HOSE-NIPPLES

IPSS: 1-02-022-84

CORRESPONDING INDIAN STANDARD DOES NOT EXIST

AUTHENTICATED

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### 0. Foreword

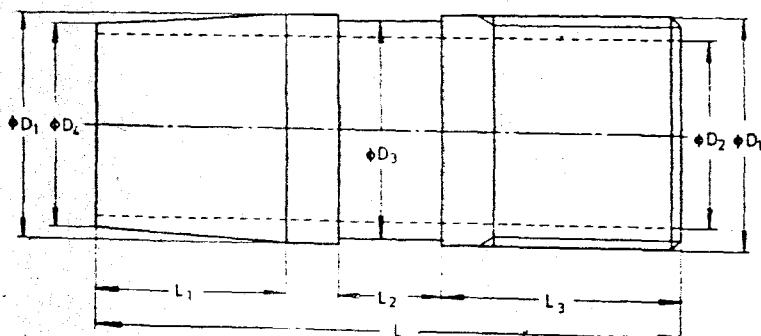
**0.1** Interplant standardization activity in steel industry has been initiated under the aegis of the Indian Standards Institution (ISI) and the Steel Authority of India Limited (SAIL). This Interplant Standard, prepared by the Standards Committee on Basic Standards and Hydraulic, Pneumatic and Lubricating Equipment, IPSS 1:2, with the active participation of the representatives of all the steel plants and established manufacturers of hose nipples was adopted by the Approval Committee on Consumable Stores and General Equipment, IPSS 1, on 31 October 1984.

**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 the requirement of hose-nipples to be used for connecting water quality hoses covered by IPSS: 1-02-021-84 'Specification for water hoses of rubber with braided textile reinforcement exposed to high temperature conditions'.

**2. Shape and Sizes**—The shape and sizes shall be as specified in Table 1.

**TABLE 1 SHAPE AND SIZE OF STEEL HOSE-NIPPLE**



Nominal Size, mm	Outside Diameter $D_1$ Min	Diameter $D_1$	Diameter $d$ IS : 554-1975	Diameter $D_2$	$L_1$	$L_2$	$D_4$	$L_3$	$L$	Nominal Bore of Hoses*
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
8	13.2	7.4	R 1/2	12.5	20	20	11	15	60	12
15	21.0	14.5	R 3/4	20.3	29	20	19	20	79	20
20	26.4	19.9	R 1	25.7	38	20	23.6	30	98	25
25	33.2	25.1	R 1 1/4	32	38	20	29.6	40	108	31.5
32	41.0	33.8	R 1 1/2	40	35	20	38	45	110	38
40	54.0	39.7	R 2	46	35	20	44	45	110	50
50	67.0	50.6	R 2 1/2	58	40	20	55.5	50	120	60

\*The suitable bores of the hoses to be used in conjunction with the nominal sizes of the hose-nipples (col 11) are given in col 11.

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

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

**3. Material** — The ladle analysis of the steel when made according to IS : 228 (Part 3)-1972 'Methods for chemical analysis of steels: Part 3 Determination of phosphorus by alkalimetric method (second revision)' and IS : 228 (Part 9)-1975 'Methods for chemical analysis of steels: Part 9 Determination of sulphur in plain carbon steels by evolution method (second revision)', shall not show sulphur and phosphorus in amount exceeding 0.05 percent each.

**4. Marking** — In addition to other visual markings, the size of hose-nipple shall be legibly marked on the body.

**5. Packing** — The hose nipples shall be suitably treated and packed such that they remain protected against corrosion and external damages.