








REF. No.	P BSPP (F) (INCH)	P1 BSPT (M) (INCH)	B	B1	Ø E	F A/F	Hx	Hy	WEIGHT (gm)
1	1.1/4	1.1/4	26.5	25	27.6	55	44	57	1357.59

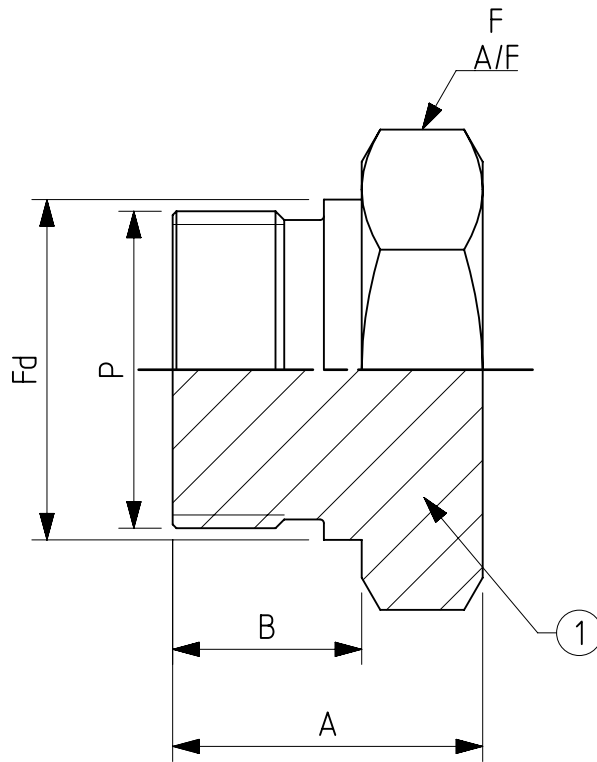
## NOTE:-

1. ALL DIMENSIONS ARE IN MM EXCEPT OTHERWISE NOTED.
2. REMOVE ALL BURRS AND SHARP EDGES.
3. TO BE Zn PLATED (10  $\mu$ ) / PASSIVATED

USED FOR LOCO

WAP-5 , WAP-7 , WAG-9

1												REDRAWN IN NX WITH 3RD ANGLE PROJECTION		26-05-18		अभिकल्पित DGN		 चित्तरंजन रेलइंजन कारखाना CHITTARANJAN LOCOMOTIVE WORKS, INDIA			
परिवर्तन संख्या ALT. NO.		प्राधिकार AUTHY		वर्णन DESCRIPTION				दिनांकित बाह्य DATED INITIAL		समीक्षित स.वि.अ. / व.वि.अ. REVIEWED AEE / SEE		MANOJ KUMAR SAGAR Digitally signed by Manoj Kumar Sagar DN: cn=Manoj Kumar Sagar, o=CLW, ou=CLW, email=manoj.sagar@clw.co.in		पदार्थ MATL		प्रति भार कि. ग्रा. WT. EACH IN KG					
सतह - रूखाता का मान या. मा. 3073 / अ. मा. सं. 1302		अनिर्दिष्ट सद्य - सीमा या. मा. : 2102 / अ. मा. सं. : 2768				TOL. CLS.		अनुमोदित स.वि.अ. APPROVED DYCEE		Pradeep Khatana Digitally signed by Pradeep Khatana DN: cn=Pradeep Khatana, o=CLW, ou=CLW, email=pradeep.khatana@clw.co.in		विशिष्ट SPECN		ASTM: A108							
सतह - रूखाता का मान या. मा. 3073 / अ. मा. सं. 1302		अनिर्दिष्ट सद्य - सीमा या. मा. : 2102 / अ. मा. सं. : 2768				TOL. CLS.		अनुमोदित स.वि.अ. APPROVED DYCEE		SYAMA PRASAD PATRA Digitally signed by Syama Prasad Patra DN: cn=Syama Prasad Patra, o=CLW, ou=CLW, email=syama.patra@clw.co.in		वर्णन DESCRIPTION		ELBOW BSPT (M) X BSPP (F)							
सतह - रूखाता का मान या. मा. 3073 / अ. मा. सं. 1302		अनिर्दिष्ट सद्य - सीमा या. मा. : 2102 / अ. मा. सं. : 2768				TOL. CLS.		अनुमोदित स.वि.अ. APPROVED DYCEE		SYAMA PRASAD PATRA Digitally signed by Syama Prasad Patra DN: cn=Syama Prasad Patra, o=CLW, ou=CLW, email=syama.patra@clw.co.in		दिनांक DATE		24-09-20							
पदांक GRADE NO.		सं1 N1	सं2 N2	सं3 N3	सं4 N4	सं5 N5	सं6 N6	सं7 N7	सं8 N8	सं9 N9	सं10 N10	सं11 N11	सं12 N12	रैखिक अनुपात SCALE		1:1		आरेखण संख्या DRAWING NO.		1209-07.429-117	
Rz		0.16-0.3	0.5-0.7	0.9-1.1	1.5-2.0	2.5-3.8	5.0-6.3	9.0-12	16-25	30-40	50-63	75-100	160-250	संदर्भ / REF.		ALT. -		परिवर्तन संख्या ALTERATION. NO.		1	
Ra $\mu$ m		0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50	परिवर्तन संख्या ALTERATION. NO.		1		पृष्ठ SHEET		1 OF 1	
चिन्ह SYMBOL														परिवर्तन संख्या ALTERATION. NO.		1		पृष्ठ SHEET		1 OF 1	


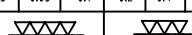


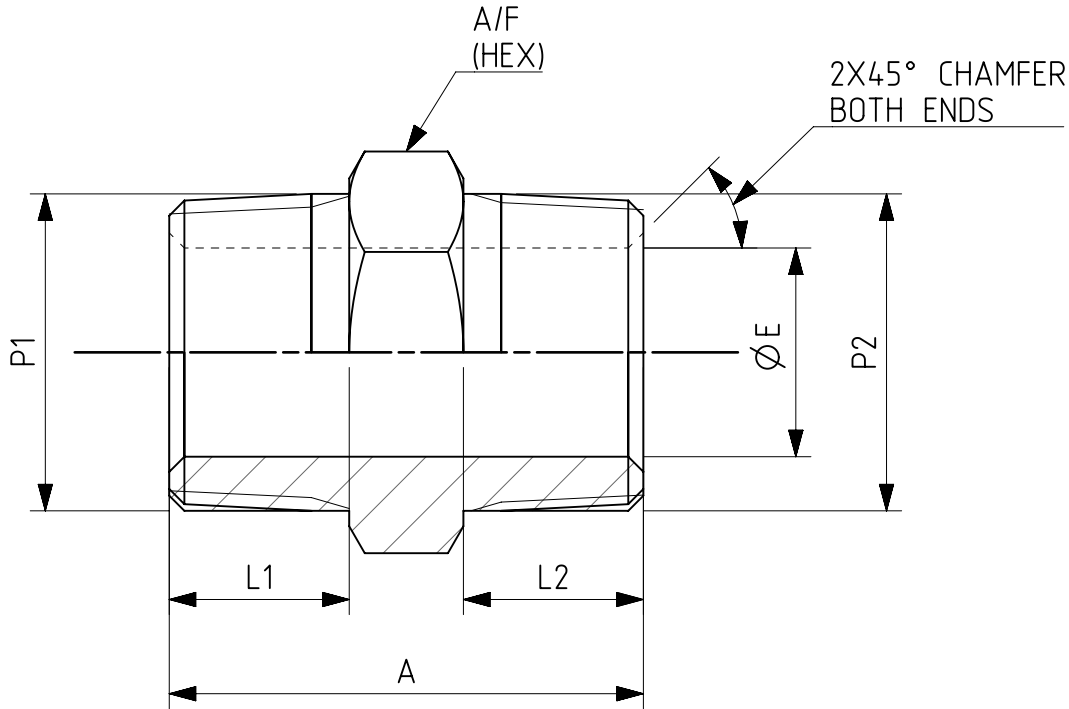
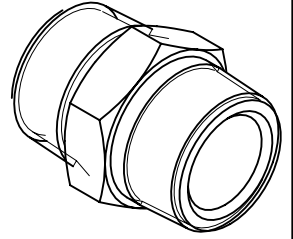
REF. No.	P BSPP (M) (INCH)	A	B	Fd	F A/F	WEIGHT (gm)
1	1 1/4	41	20	49	55	614.26

NOTE:-

1. ALL DIMENSIONS ARE IN MM EXCEPT OTHERWISE NOTED.
2. REMOVE ALL BURRS AND SHARP EDGES.
3. TO BE Zn PLATED (10  $\mu$ ) / PASSIVATED

USED FOR LOCO	WAG-9 WAP-5 WAP-7
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REDRAWN IN NX WITH 3RD ANGLE PROJECTION												10-05-19		अभिकल्पित DGN		 चित्तरंजन रेलइंजन कारखाना CHITTARANJAN LOCOMOTIVE WORKS, INDIA			
परिवर्तन संख्या ALT. NO.	प्राधिकार AUTHY	वर्णन DESCRIPTION										दिनांकित बाह्य DATED INITIAL	समीक्षित स.वि.अ. / व.वि.अ. REVIEWED AEE / SEE	MANOJ KUMAR SAGAR Digitally signed by MANOJ KUMAR SAGAR DN: cn=MANOJ KUMAR SAGAR, o=INDIAN RAILWAYS, ou=CHITTARANJAN LOCOMOTIVE WORKS, email=MANOJ.KUMAR.SAGAR@irco.co.in, c=IN 2023.05.13 15:25:52 +05'30'	पदार्थ MATL	प्रति भार कि. ग्रा. WT. EACH IN KG			
सतह - रूखाता का मान या. मा. 3073 / अ. मा. सं. 1302	अतिरिक्त सद्य - सीमा या. मा. : 2102 / अ. मा. सं. : 2768	UNSPECIFIED TOLERANCE TO IS : 2102 / ISO : 2768										TOL. CLS.	अनुमोदित उ.यु.वि.अ. APPROVED DYCEE	Pradeep Khatana Digitally signed by Pradeep Khatana DN: cn=Pradeep Khatana, o=INDIAN RAILWAYS, ou=CHITTARANJAN LOCOMOTIVE WORKS, email=PRADEEP.KHATANA@irco.co.in, c=IN 2023.05.16 17:00:36 +05'30'	विशिष्ट SPECN	ASTM A108			
घातु-वेल्डन चिन्ह या. मा. : 813 / अ. मा. सं. : 2553	WELDING SYMBOLS TO IS:813 / ISO:2553											दिनांक DATE	26-05-18	वर्णन DESCRIPTION	PLUG HEX 1 1/4"				
पदांक GRADE NO.	सं1 N1	सं2 N2	सं3 N3	सं4 N4	सं5 N5	सं6 N6	सं7 N7	सं8 N8	सं9 N9	सं10 N10	सं11 N11	सं12 N12	रैखिक अनुपात SCALE	N.T.S	आरेखण संख्या DRAWING NO.	1209-07.429-119			
Rz	0.16-0.3	0.5-0.7	0.9-1.1	1.5-2.0	2.5-3.8	5.0-6.3	9.0-12	16-25	30-40	50-63	75-100	160-250							
Ra $\mu$ m	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50							
चिन्ह SYMBOL													संदर्भ / REF.	ALT. - 0	परिवर्तन संख्या ALTERATION. NO.	1	पृष्ठ SHEET	1 OF 1	A4










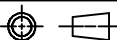
SL.NO.	P1 MALE TAPER TO ISO 71	P2 MALE TAPER TO ISO 71	L1	L2	A	Ø E MIN. OPENING	A/F (HEX)
1.	1.1/4"	1.1/4"	23.8	23.8	62.7	27.6	46

NOTE:-

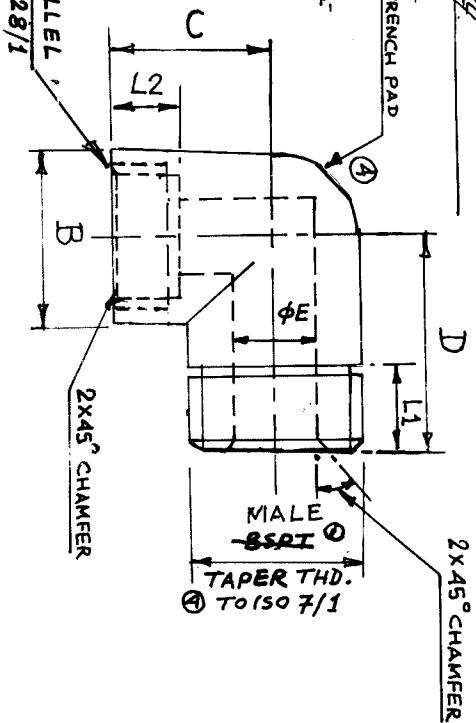
1. ALL DIMENSIONS ARE IN MM EXCEPT OTHERWISE NOTED.
2. REMOVE ALL BURRS AND SHARP EDGES.
3. TO BE Zn PLATED (10  $\mu$ ) / PASSIVATED

USED FOR LOCOS

WAP-5,WAP-7,WAG-9

<div><div>अभिकल्पित DGN</div><div>जॉचा व.अ.अ. CHD SSE</div><div>Digitally signed by MANOJ KUMAR SAGAR Date: 2023.08.20 12:20:25 +05'30'</div></div>												<div><div></div><div>चितरंजन रेलइंजन कारखाना CHITTARANJAN LOCOMOTIVE WORKS, INDIA</div></div>			
1	REDRAWN IN NX WITH 3RD ANGLE PROJECTION						10-05-19		पदार्थ MATL			प्रति भार कि. ग्रा. WT. EACH IN KG			
परिवर्तन संख्या ALT.NO.	प्राधिकार AUTHY	वर्णन DESCRIPTION				दिनांकित बाह्य DATED INITIAL	समीक्षित स.वि.अ. / व.वि.अ. REVIEWED AEE / SEE	Pradeep P Khatana	Digitally signed by Pradeep Khatana Date: 2023.07.15 12:27:38 +05'30'			विशिष्ट SPECN	ASTM A108		
सतह - रुकता का मान भा. मा. 3073 / अ. मा. सं. 1302  SURFACE ROUGHNESS VALUE TO IS:3073 / ISO:1302		अनिर्दिष्ट सह - सीमा भा. मा. : 2102 / अ. मा. सं. : 2768 UNSPECIFIED TOLERANCE TO IS : 2102 / ISO : 2768				TOL. CLS.	अनुमोदित उ.यु.वि.अ. APPROVED DYCEE	Digitally signed by SYAMA PRASAD PATRA Date: 2023.08.01 16:31:47 +05'30'			वर्णन DESCRIPTION	HEX NIPPLE BSPT X BSPT			
धातु-वेल्डन चिह्न भा. मा. : 813 / अ. मा. सं. : 2553 WELDING SYMBOLS TO IS:813 / ISO:2553							दिनांक DATE	24-09-20							
पदांक GRADE NO.	सं1 N1	सं2 N2	सं3 N3	सं4 N4	सं5 N5	सं6 N6	सं7 N7	सं8 N8	सं9 N9	सं10 N10	सं11 N11	सं12 N12			
Rz	0.16-0.3	0.5-0.7	0.9-1.1	1.5-2.0	2.5-3.8	5.0-6.3	9.0-12	16-25	30-40	50-63	75-100	160-250			
Ra $\mu m$	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50			
चिह्न SYMBOL															
संदर्भ / REF.												परिवर्तन संख्या ALTERATION. NO.	पृष्ठ SHEET	A4	
ALT -													1	1 OF 1	

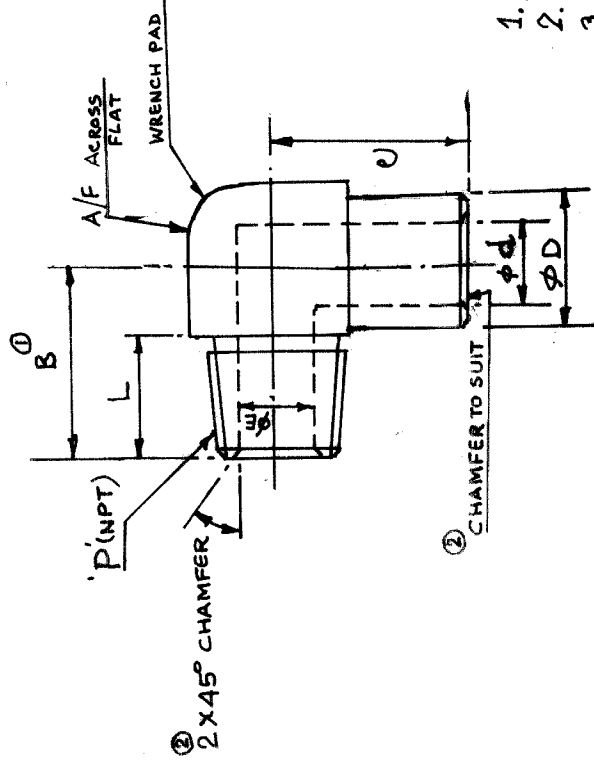
- NOTES:
1. REMOVE ALL BURRS & SHARP EDGES.
  2. ELBOW IS TO BE ZINC PLATED (100% PASSIVATED).
  3. ALL DIMS. ARE IN M.M. EXCEPT OTHERWISE STATED.
  4. ~~54. NO. 2 TO 4 ARE APPLICABLE FOR WAP-5 & 54. NO. 1 TO 5 ARE APPLICABLE FOR WAP-9. 1000 ONLY.~~
  5. GENERAL TOLERANCES ON DIMENSIONS:
    - (a) BELOW 25 mm :  $\pm 0.5$
    - (b) ABOVE 25 mm :  $\pm 1.0$
- WRENCH PAD
- ④



REF. NO. SL. NO.	NOM. MM SIZE (in)	B mm	C mm (MIN)	D mm (MIN)	L1 (MIN)	L2 (MIN)	ΦE MINIMUM OPENING
1	20 ( $3\frac{3}{4}$ ")	35	32	44	19.1	19.1	15.9
2	25 (1")	41	38	51	23.8	23.8	22.3
3	32 ( $1\frac{1}{4}$ ")	51	44	57	25.4	25.4	27.6
4	8 ( $\frac{1}{4}$ ")	19	19	29	14.2	14.2	4.8
5	13 ( $\frac{1}{2}$ ")	27	32		19.1	19.1	9.5

[illegible]

FORMAT NO :- D&D/002



SL. NO.	B	'P' THREAD NPT	φD	φd	L (MIN)	φE MIN OPENING	C MIN.	A/F
1.	51°0	1"	35.5 <sup>+0.0</sup> <sub>-0.5</sub>	1"	23.8 <sup>+0.5</sup> <sub>-0.5</sub>	22.5 <sup>+0.5</sup> <sub>-0.5</sub>	43	41 <sup>+0</sup> <sub>-0</sub>
2.	31°0	3/8"	19.5 <sup>+0.5</sup> <sub>-0.5</sub>	3/8"	14.2 <sup>+0.5</sup> <sub>-0.5</sub>	7.9 <sup>+0.5</sup> <sub>-0.5</sub>	24	22.8 <sup>+0.5</sup> <sub>-0.5</sub> ①

NOTES:-

- NOTES:
1. REMOVE ALL BURRS & SHARP EDGES.
  2. TO BE ZINC PLATED (10M) PASSIVATED.
  3. ALL DIMENSIONS ARE IN mm EXCEPT OTHERWISE STATED.

4. ELBOWS ARE TO BE MACHINED FROM FORGED BLANK  
AND NOT TO BE CAST.

[illegible]