

SL. NO.	'T' TUBE O.D.	'P' (THREAD TAPER MALE TO ISO 7/1)	A	L	Ø E1	Ø E2	A/F	S	S1
1	1-1/2"	1-1/4"	91.2	23.8	27.6	33.1	50	50	15.7
2	1"	1"	66.0	23.8	16	20.4	36	30	13
3	1"	3/4"	58.7	19.1	16	20.4	28.5	30	13
4	1-1/2"	1"	92.1	23.1	27.6	33.1	50	50	15.7

NOTES:-

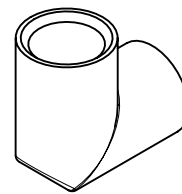
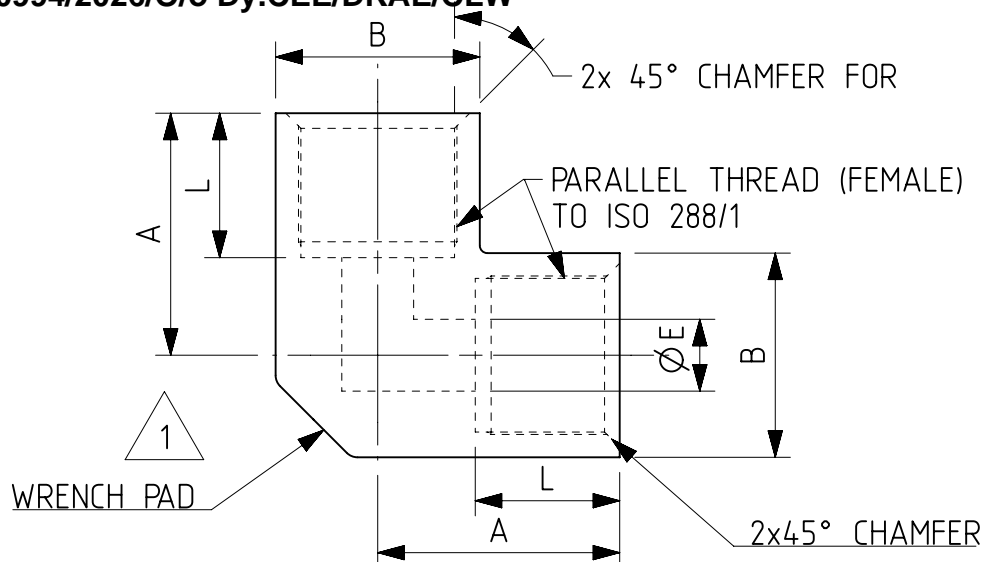
1. REMOVE ALL BURRS & SHARP EDGES.
2. BODY & BACK NUT ARE TO BE ZINC PLATED (10µ)/PASSIVATED.
3. ALL DIMENSIONS ARE IN mm EXCEPT OTHERWISE STATED.
4. GENERAL TOLERANCE ON DIMENSIONS:
 - (a) BELOW 25mm $\pm \begin{smallmatrix} 0.5 \\ 0 \end{smallmatrix}$
 - (b) ABOVE 25mm $\pm \begin{smallmatrix} 1.0 \\ 0 \end{smallmatrix}$ EXCEPT T.P.
5. ISO 7/1 & ISO 228/1 FOR TAPER AND PARALLEL THREADS RESPECTIVELY.

ORIGINAL SUPPLIER-SWAGELOK/USA
USED FOR LOCO - WAG-9 & WAP-5

5		REDRAWN IN NX WITH 3RD ANGLE	27-08-09
4	DY.CEE/P ROJ/CON	ITEM 4 ADDED FOR CCB BREAK SYSTEM	17-01-14
3	AME/D&D -II	DIMENSION A/F (ACROSS FLAT) WAS 'F'. DIMENSION 50, 36 & 28.5 WERE 2-1/2", 1-3/8", 1-1/16" RESPECTIVELY.	28-01-03
2	AME/D&D -II	PREVIOUS VIEW & TABLE REF NOS 2 & 3 DELETED. REF NO. 1 WAS NEW VIEW & TABLE, NOTE 3 TO 5 ADDED.	07-09-01
1	AME/D&D	THD. WAS BSP PASSIVATED ADDED.	19-08-98
परिवर्तन संख्या ALT.NO.	प्राधिकार AUTHY	वर्णन DESCRIPTION	दिनांक DATED INITIAL
सतह - रूखाता का मान या. मा. 3073 / अ. मा. सं. 1302	अनिर्दिष्ट सद्य - सीमा या. मा. : 2102 / अ. मा. सं. : 2768	UNSPECIFIED TOLERANCE TO IS : 2102 / ISO : 2768	TOL. CLS.
सुराह-रेखन चिह्न या. मा. : 813 / अ. मा. सं. : 2553	WELDING SYMBOLS TO IS:813 / ISO:2553		
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
Ra	0.025	0.05	0.1
चिह्न SYMBOL			

अधिकृत DGN		चित्ररंजन रेलइंजन कारखाना CHITTARANJAN LOCOMOTIVE WORKS, INDIA
जोधा व.अ. CHD SSE	ALOK KUMAR CHAKRA BORTY	प्रति भार कि. ग्रा. WT. EACH IN KG
समीक्षित स.वि.अ. / व.वि.अ. REVIEWED AEE / SEE	Pradeep Khatang	विशिष्ट SPECN
अनुमोदित स.वि.अ. APPROVED DYCEE	ARUP KUMAR MITRA	वर्णन DESCRIPTION
दिनांक DATE	24-09-20	MALE ADAPTER
रेखिक अनुपात SCALE	1:1	आरेखण संख्या DRAWING NO.
संदर्भ / REF.	182-00525	परिवर्तन संख्या ALTERATION. NO.
ALT.		5
		पृष्ठ SHEET
		1 OF 1
		A4

5070994/2026/O/o Dy.CEE/DKAE/CLW



NOTE:








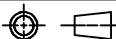
1. REMOVE ALL BURRS AND SHARP EDGES.
2. TO BE Zn. PLATED (10/4)/PASSIVED.
3. ALL DIMENSIONS ARE IN mm. EXCEPT OTHERWISE STATED.
4. ISO 7/1 & ISO 228/1 FOR TAPER AND PARALLEL THREADS RESPECTIVELY.
5. ELBOWS ARE TO BE MACHINED FROM FORGED BLANK AND NOT TO BE CAST.
6. GENERAL TOLERANCE:

a) BELOW 25mm: $^{+0.5}_{-0}$, b) ABOVE 25mm: $^{+1.0}_{-0}$

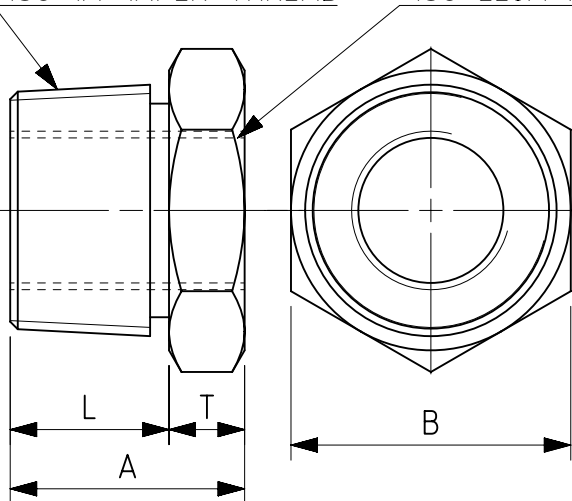
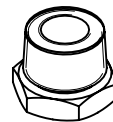
USED FOR LOCO WAG-9, WAP-5

REF. NO.	NOMINAL SIZE mm.	'B' $^{+0.5}_{-0}$ MINIMUM OUTSIDE DIA. mm.	'A' $^{+0.5}_{-0}$ MINIMUM LENGTH CENTRE TO FACE mm.	L (MIN.)	Ø E MINIMUM OPENING
1	15(1/2")	27.0	32.0	19.1	9.5
2	25(1")	39.5	43.0	23.8	22.3
3	8(1/4")	18.5	32.0	14.2	4.8
4	20(3/4")	32.5	35.0	19.1	15.9

4			ELBOW F&F FITTING	-	STEEL	ASTM A108	
3			ELBOW F&F FITTING	-	STEEL	ASTM A108	
2			ELBOW F&F FITTING	-	STEEL	ASTM A108	
1			ELBOW F&F FITTING	-	STEEL	ASTM A108	
निर्देश संख्या	लागत एवं वितरण संख्या	अंग आरेखण संख्या	वर्णन	मात्रा	पदार्थ	विशिष्ट	प्रति भार कि. ग्रा.
REF. NO.	C&D NO.	PART DRG. NO.	DESCRIPTION	QTY.	MATL	SPECN	WT. EACH IN K.G.

3		REDRAWN IN NX WITH 3RD ANGLE PROJECTION.	24-05-09	अधिकृत DGN			चितरंजन रेलइंजन कारखाना CHITTARANJAN LOCOMOTIVE WORKS, INDIA								
2	DY CEE/D1	WAP-5 ADDED					पदार्थ MATL	प्रति भार कि. ग्रा. WT. EACH IN KG							
1	AME/D&D	VIEW MODIFIED. NOTE:3 TO 6 ADDED. NO./LOCOS COLUMN DELETED. DIMENSION 32 WAS 22.	30-07-04	जॉचा व.अ. CHD SSE	SUBHAN KAR KUMBHAKAR Digitally signed by SUBHAN KAR DN: cn=SUBHAN KAR, o=Chittaranjan Locomotive Works, email=Subhan.Kar@clw.co.in, c=IN Date: 2023.11.09 16:28:11 +05'30'										
परिवर्तन संख्या ALT.NO.	प्राधिकार AUTHY	वर्णन DESCRIPTION	दिनांक DATED INITIAL	समीक्षित स.वि.अ. / व.वि.अ. REVIEWED AEE / SEE	Pradeep Khatana Digitally signed by Pradeep Khatana DN: cn=Pradeep Khatana, o=Chittaranjan Locomotive Works, email=Pradeep.Khatana@clw.co.in, c=IN Date: 2023.11.16 11:49:08 +05'30'										
सतह — रूखाता का मान या. मा. 3073 / अ. मा. सं. 1302 SURFACE ROUGHNESS VALUE TO IS:3073 / ISO:1302		अतिरिक्त सतह — सीमा या. मा. : 2102 / अ. मा. सं. : 2768 UNSPECIFIED TOLERANCE TO IS : 2102 / ISO : 2768		TOL. CLS.	अनुमोदित उ.मु.वि.अ. APPROVED DYCEE	ARUP KUMAR MITRA	वर्णन								
		धातु-वेल्डन चिन्ह या. मा. : 813 / अ. मा. सं. : 2553 WELDING SYMBOLS TO IS:813 / ISO:2553			दिनांक DATE	23-09-20	DESCRIPTION								
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 μm	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.				182-00273		ALT.- 0					
										परिवर्तन संख्या ALTERATION. NO.		2	पृष्ठ SHEET	1 OF 1	A4

INTERNAL FEMALE
ISO 228/1 PARALLEL THREAD




5. ISO 7/1 & ISO 228/1 FOR TAPER
AND PARALLEL THREADS RESPECTIVELY.

SL.NO.	NOMINAL SIZE PARALLEL TAPER x	L (MIN)	T (MIN)	A (MIN)	B A/FLAT
1	1" x 1/2"	21.0	10 $\begin{smallmatrix} +.2 \\ -0 \end{smallmatrix}$	31.0 $\begin{smallmatrix} +.5 \\ -0 \end{smallmatrix}$	37 $\begin{smallmatrix} +.5 \\ -0 \end{smallmatrix}$
2	1 1/4" x 3/4"	24.0	11 $\begin{smallmatrix} +.2 \\ -0 \end{smallmatrix}$	35.0 $\begin{smallmatrix} +.5 \\ -0 \end{smallmatrix}$	47 $\begin{smallmatrix} +.5 \\ -0 \end{smallmatrix}$
3	1 1/4" x 1"	24.0	11 $\begin{smallmatrix} +.2 \\ -0 \end{smallmatrix}$	35.0 $\begin{smallmatrix} +.5 \\ -0 \end{smallmatrix}$	47 $\begin{smallmatrix} +.5 \\ -0 \end{smallmatrix}$
4	3/4" x 1/2"	19.0	10 $\begin{smallmatrix} +.2 \\ -0 \end{smallmatrix}$	29 $\begin{smallmatrix} +.5 \\ -0 \end{smallmatrix}$	27 $\begin{smallmatrix} +.5 \\ -0 \end{smallmatrix}$
5	1/2" x 1"	24.0	13 $\begin{smallmatrix} +.2 \\ -0 \end{smallmatrix}$	37 $\begin{smallmatrix} +.5 \\ -0 \end{smallmatrix}$	52 $\begin{smallmatrix} +1.0 \\ -0 \end{smallmatrix}$
6	1" x 3/4"	21.0	10 $\begin{smallmatrix} +.2 \\ -0 \end{smallmatrix}$	31 $\begin{smallmatrix} +.5 \\ -0 \end{smallmatrix}$	37 $\begin{smallmatrix} +.5 \\ -0 \end{smallmatrix}$
7	1/2" x 3/8"	17.5	8 $\begin{smallmatrix} +.2 \\ -0 \end{smallmatrix}$	25.5 $\begin{smallmatrix} +.2 \\ -0 \end{smallmatrix}$	22 $\begin{smallmatrix} +.5 \\ -0 \end{smallmatrix}$
8	3/4" x 3/8"	19.0	10 $\begin{smallmatrix} +.2 \\ -0 \end{smallmatrix}$	29 $\begin{smallmatrix} +.5 \\ -0 \end{smallmatrix}$	27 $\begin{smallmatrix} +.5 \\ -0 \end{smallmatrix}$

8	/		Reducing Bush		STEEL	ASTM A108	
7	/		Reducing Bush		STEEL	ASTM A108	
6	/		Reducing Bush		STEEL	ASTM A108	
5	/		Reducing Bush		STEEL	ASTM A108	
4	/		Reducing Bush		STEEL	ASTM A108	
3	/		Reducing Bush		STEEL	ASTM A108	
2	/		Reducing Bush		STEEL	ASTM A108	
1	/		Reducing Bush		STEEL	ASTM A108	
निर्देश संख्या	लागत एवं वितरण संख्या	अंग आरेखण संख्या	वर्णन	मात्रा	पदार्थ	विशिष्ट	प्रति भार कि. ग्रा.
REF. NO.	C&D NO.	PART DRG. NO.	DESCRIPTION	QTY.	MATL	SPECN	WT. EACH IN K.G

USED FOR LOCO WAG-9 / WAP-5

4		REDRAWN IN NX WITH 3RD ANGLE PROJECTION.	25-04-11	अधिकल्पित DGN	 <div>चितरंजन रेलइंजन कारखाना CHITTARANJAN LOCOMOTIVE WORKS, INDIA</div>															
3	AME/D&D	NOTE 4 DELETED. NOTES, TOLERANCES ON DIMENSIONS, ITEM SL. NOS. 3 TO 8 ADDED.	30-07-01			पदार्थ MATL प्रति भार कि. ग्रा. WT. EACH IN KG														
2	AME/D&D	NOTE 4 ADDED	*-11-94	जॉचा व.अ.अ. CHD SSE			SUBHA NKAR KUMBH AKAR <small>Digitally signed by SUBHA NKAR KUMBH AKAR Date: 2023.11.24 16:28:34 +05'30'</small>													
1	AME/D&D	WAP-5 ADDED. SL. NO. WAS REF. NO. NOTE 3 ADDED. NO/LOCO COLUME DELETED.	*-4-94																	
परिवर्तन संख्या ALT.NO.	प्राधिकार AUTHY	वर्णन DESCRIPTION	दिनांकित आश्रयकर DATED INITIAL	समीक्षित स.वि.अ. / व.वि.अ. REVIEWED AEE / SEE	Pradeep Khatana <small>Digitally signed by Pradeep Khatana Date: 2023.11.23 18:13:19 +05'30'</small>	विशिष्ट SPECN	ASTM A108													
सतह - रुखाता का मान भा. मा. 3073 / अ. मा. सं. 1302 <small>SURFACE ROUGHNESS VALUE TO IS:3073 / ISO:1302</small>		अनिर्दिष्ट सद्य - सीमा भा. मा. : 2102 / अ. मा. सं. : 2768 UNSPECIFIED TOLERANCE TO IS : 2102 / ISO : 2768	TOL. CLS.	अनुमोदित उ.मु.वि.अ. APPROVED DYCEE	ÀRUP KUMAR MITRA <small>Digitally signed by ÀRUP KUMAR MITRA Date: 2023.11.24 18:31:09 +05'30'</small>	वर्णन DESCRIPTION	Reducing Bush													
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 μm	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. 182-00278 ALT.-																परिवर्तन संख्या ALTERATION. NO.	4	पर्ण SHEET	1 OF 1	A4

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