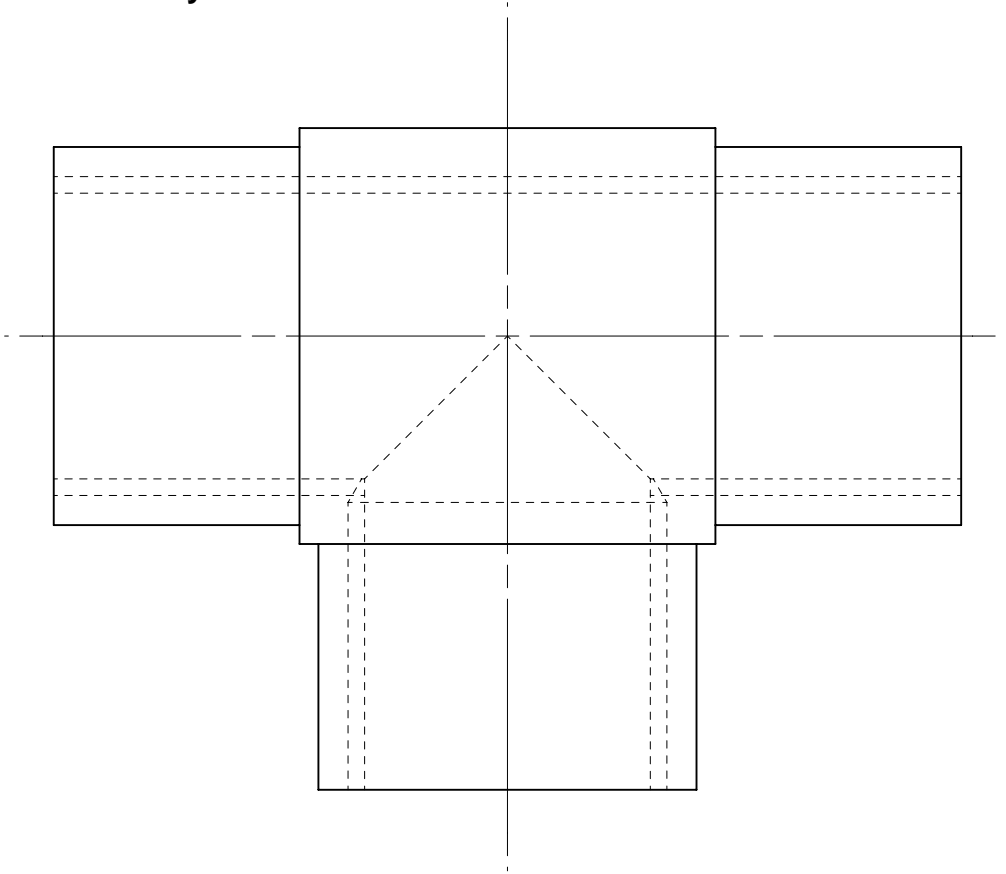
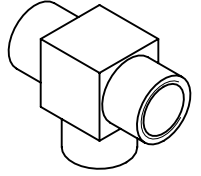


5102232/2026/O/o Dy.CEE/DKAE/CLW



REF.NO.	THREAD BSP
1.	1 1/4" FTT
2.	1 1/2" FTT

NOTE:-






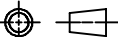
1. REMOVE ALL BURRS & SHARP EDGES.

2. REF.1 IS APPLICABLE FOR WAP/5 AND

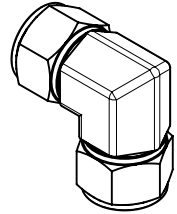
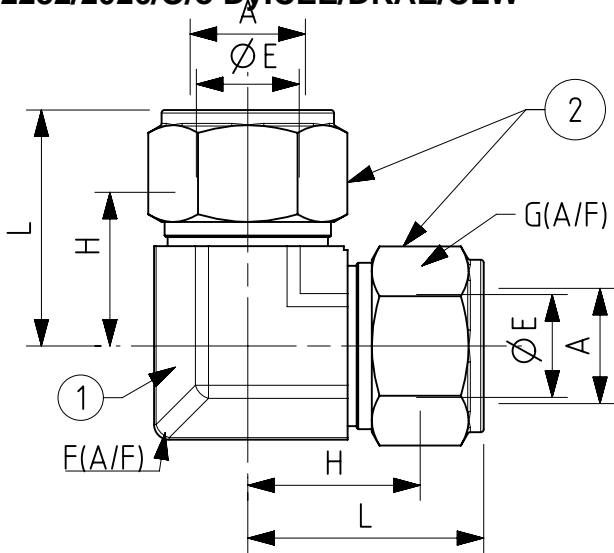
REF 1&2 ARE APPLICABLE FOR WAG/9 ONLY.

USED FOR LOCOS WAP-5,WAG-9

2		BSP THREADED TEE FTT	3	ST.ST.	GR. 316	
1		BSP THREADED TEE FTT	3	STAINLESS STEEL	GR. 316	
निर्देश संख्या	अंग आरेखण संख्या	वर्णन	मात्रा	पदार्थ	विशिष्टि	प्रति भार कि. ग्रा.
REF. NO.	PART DRG. NO.	DESCRIPTION	QTY./ LOCO	MATL	SPECN	WT. EACH IN K.G.

												अधिकृत DGN		 चित्तरंजन रेलइंजन कारखाना CHITTARANJAN LOCOMOTIVE WORKS, INDIA									
2		REDRAWN IN NX WITH 3RD ANGLE PROJECTION.								10-06-11		जॉचा व.अ.अ. CHD SSE				ALOKE KUMAR CHAKRA BORTY <small>Digitally signed by ALOKE KUMAR CHAKRA BORTY DN: cn=ALOKE KUMAR CHAKRA BORTY, o=INDIAN RAILWAYS, email=aloke.kumar@railways.gov.in, c=IN</small>							
1		AME/D&D		NOTE 2 AND CLASS OF LOCO WAP/5 ADDED.								19-04-99				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 Khatana <small>Digitally signed by Pradeep Khatana DN: cn=Pradeep Khatana, o=INDIAN RAILWAYS, email=pradeep.khatana@railways.gov.in, c=IN</small>		विशिष्टि SPECN					
सतह - रूखाता का मान मा. 3073 / अ. मा. सं. 1302 <small>SURFACE ROUGHNESS VALUE TO IS:3073 / ISO:1302</small>				अनिर्दिष्ट सद्य - सीमा मा. 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 <small>Digitally signed by ARUP KUMAR MITRA DN: cn=ARUP KUMAR MITRA, o=INDIAN RAILWAYS, email=arup.kumar@railways.gov.in, c=IN</small>		वर्णन DESCRIPTION					
घातु-वेल्डन चिन्ह मा. मा. : 813 / अ. मा. सं. : 2553 <small>WELDING SYMBOLS TO IS:813 / ISO:2553</small>														दिनांक DATE		24-09-20		BSP THREADED TEE FTT					
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	रेखिक अनुपात SCALE		1:1		आरेखण संख्या DRAWING NO.					
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					1209-18.406-037					
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. 182-00417		ALT -							
														परिवर्तन संख्या ALTERATION. NO.		2		पृष्ठ SHEET		1 OF 1		A4	

~~5102232/2026/O/o Dy.CEE/DKAE/CLW~~










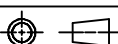
SL.NO	A' TUBE OD IN	L	Ø E MIN	F (A/F)	G (A/F)	H
1	1-1/2"	78	34	55	57	50.8

ORIGINAL SUPPLIER-SWAGELOK/USA
USED FOR LOCO WAP-5

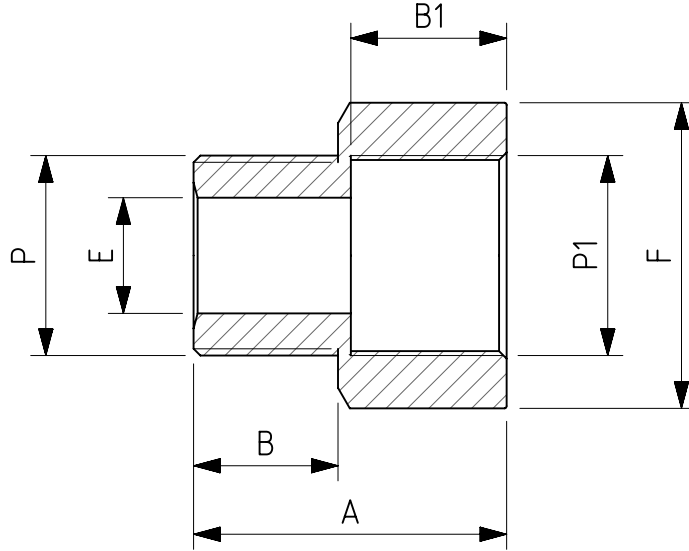
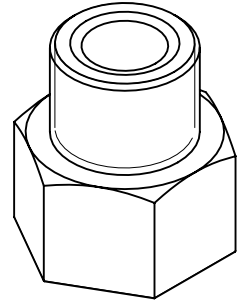
NOTE:

1. REMOVE ALL BLURR'S & SHARP EDGES.
2. ALL DIMENSIONS ARE IN mm EXCEPT OTHERWISE STATED.
3. BODY & BACKNUTS ARE TO BE ZINC PLATED(10 MICRONS)/PASSIVATED.
4. DIMENSION 'L' IS TYPICAL FINGER TIGHT.
5. GENERAL TOLERANCE ON DIMENSIONS: (a)BELOW 25 mm $\begin{matrix} +0.5 \\ -0 \end{matrix}$
(b)ABOVE 25 mm $\begin{matrix} +1 \\ -0 \end{matrix}$ EXCEPT 'A'.
6. ISO 7/1 & ISO 228/1 FOR TAPER & PARALLEL THREADS RESPECTIVELY.
7. THIS FITTINGS IS TO BE SWAGED ON S.S TUBES(GR. 304) OF HARDNESS
90HRB MAXIMUM.
8. ALL THE PARTS OF THE FITTINGS SHOULD BE CONCENTRIC AND BE CAPABLE OF
SELF-ALIGNMENT WHEN ASSEMBLED.
9. NUTS & FERRULES OF PARTICULAR SIZE SHALL BE INTERCHANGEABLE FOR
EACH TYPE.

4		FRONT FERRULE	2	S.S	GR. 316	
3		BACK FERRULE	2	S.S	GR. 316	
2		BACK NUT	2	CARBON STEEL	ASTM A108	
1		BODY	1	CARBON STEEL	ASTM A108	
निर्देश संख्या	अंग आरेखण संख्या	वर्णन	मात्रा	पदार्थ	विशिष्टि	प्रति भार कि. ग्रा.
REF. NO.	PART DRG. NO.	DESCRIPTION	QTY	MATL	SPECN	WT. EACH IN K.G.

													अभिकल्पित DGN		 <div>चितरंजन रेलइंजन कारखाना CHITTARANJAN LOCOMOTIVE WORKS, INDIA</div>													
2		REDRAWN IN NX WITH 3RD ANGLE PROJECTION										25-02-11		जॉचा व.अ.अ. CHD SSE		MANOJ KUMAR SAGAR <small>Digitally signed by MANOJ KUMAR SAGAR DN: cn=2022.04.20, 16.11.59+05'30'</small>		पदार्थ MATL		प्रति भार कि. ग्रा. WT. EACH IN KG								
1	AME/D&D	DIMENSIONS L TO H & NOTE 4 TO 9 ADDED.										17.05.04		समीक्षित स.वि.अ. / व.वि.अ. REVIEWED AEE / SEE		Pradeep Khatangia <small>Digitally signed by Pradeep Khatangia DN: cn=2022.07.16, 11.57.38+05'30'</small>		विशिष्ट SPECN										
परिवर्तन संख्या ALT.NO.	प्राधिकार AUTHY	वर्णन DESCRIPTION										दिनांकित आक्षेप DATED INITIAL		अनुमोदित उ.मु.वि.अ. APPROVED DYCEE		SYAMA PRASAD PATRA <small>Digitally signed by SYAMA PRASAD PATRA DN: cn=2022.08.03, 13.56.28+05'30'</small>		वर्णन										
सतह - रुखाता 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.		दिनांक DATE		24-09-20		DESCRIPTION		UNION ELBOW								
		धातु-वेल्डन चिह्न भा. मा. : 813 / अ. मा. सं. : 2563 WELDING SYMBOLS TO IS:813 / ISO:2553												रैखिक अनुपात SCALE		1:2		आरेखण संख्या DRAWING NO.		1209-18.406-167								
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																
चिह्न SYMBOL																												
संदर्भ / REF.													182-00412		ALT. - 0				परिवर्तन संख्या ALTERATION NO.		2		पर्ण SHEET		1 OF 1		A4	

5102232/2026/O/o Dy.CEE/DKAE/CLW














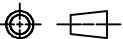


NOTE:

1. REMOVE ALL BURS & SHARP EDGES
2. DIMENSIONS ARE IN MM EXCEPT OTHERWISE STATED.
3. USED FOR LOCO WAG-9HC

INCH SIZE TUBING

DRAWING No.	P BSP (M)	P1 BSP (F)	A	B	B1	Ø E	F (A/F)
1209-18.406-176	3/4"	3/4"	41.4	19.1	20.6	15.3	35

<div>अधिकृतपत DGN</div>												<div>•</div>	<div><div>चितरंजन रेलइंजन कारखाना CHITTARANJAN LOCOMOTIVE WORKS, INDIA</div></div>										
<div>जॉचा व.अ.अ. CHD SSE</div>												<div>SUBHAN KAR KUMBH AKAR</div> <div><small>Digitally signed by SUBHAN KAR DN: cn=SUBHAN KAR, o=Chittaranjan Locomotive Works, ou=Chittaranjan Locomotive Works, email=SUBHAN.KAR@CLW.CO IN, c=IN</small></div>											
1		REDRAWN IN NX WITH 3RD ANGLE PROJECTION						27-10-10		<div>पदार्थ MATL</div> <div>STAINLESS STEEL</div>		<div>प्रति भार कि. ग्र. WT. EACH IN KG</div>											
परिवर्तन संख्या ALT.NO.	प्राधिकार AUTHY	वर्णन DESCRIPTION						दिनांकित बाह्य DATED INITIAL		समीक्षित स.वि.अ. / व.वि.अ. REVIEWED AEE / SEE		•											
<div>सतह — रूखाता का मान मा. मा. 3073 / अ. मा. सं. 1302 <small>SURFACE ROUGHNESS VALUE TO IS:3073 / ISO:1302</small></div>												<div>अनिर्दिष्ट सद्य — सीमा मा. मा. : 2102 / अ. मा. सं. : 2788 UNSPECIFIED TOLERANCE TO IS : 2102 / ISO : 2768</div>						TOL. CLS.		अनुमोदित स.मु.वि.अ. APPROVED DYCEE		<div>SYAMA PRASAD PATRA</div> <div><small>Digitally signed by SYAMA PRASAD PATRA DN: cn=SYAMA PRASAD PATRA, o=Chittaranjan Locomotive Works, ou=Chittaranjan Locomotive Works, email=SYAMA.PRASAD.PATRA@CLW.CO IN, c=IN</small></div>	
<div>धातु-वेल्डन चिन्ह मा. मा. : 813 / अ. मा. सं. : 2553 WELDING SYMBOLS TO IS:813 / ISO:2553</div>														दिनांक DATE		14-10-09		वर्णन DESCRIPTION		BSPP THREADED REDUCING BUSH (M/F)			
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	आरेखण संख्या DRAWING NO.										
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	1209-18.406-176										
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																							
<div>संदर्भ / REF.</div>														ALT. -		<div></div>		परिवर्तन संख्या ALTERATION. NO.		1	पर्ण SHEET	1 OF 1	A4