

SL. NO.	T TUBE O.D.	T _k PIPE O.D.	'A'	'H'	'G' A/F	'F' A/F	Ø E OPENING (MIN)
1.	1"	1½"	89.2	77.0	38.1	41.3	22.3
2.	½"	1"	60.2	50.0	22.2	27.0	10.4

NOTES:-

1. REMOVE ALL BURRS & SHARP EDGES.
 2. ALL DIMENSIONS ARE IN mm EXCEPT OTHERWISE STATED.
 3. DIMENSION A IS TYPICAL FINGER TIGHT.
 4. BODY & BACKNUT ARE TO BE ZINC PLATED (10M) & CHROME PASSIVATED.
 5. GENERAL TOLERANCES ON DIMENSIONS: (i) BELOW 25 mm - ± 0.5 (ii) ABOVE 25 mm - ± 1.0 EXCEPT 'T' & 'Tx'.
 6. THIS FITTING IS TO BE SWAGED ON S.S. TUBES (Gr. 304) OF HARDNESS 90 HRB MAXIMUM.
 7. ALL PARTS OF THE FITTING SHOULD BE CONCENTRIC AND BE CAPABLE OF SELF-ALIGNMENT WHEN ASSEMBLED.
 8. NUTS & FERRULES OF PARTICULAR SIZE SHALL BE INTERCHANGEABLE FOR EACH TYPE.
- | | | | |
|----|--------------|---|-----------------|
| 4. | BACK FERRULE | 1 | STAINLESS STEEL |
|----|--------------|---|-----------------|

4.	BACK FERRULE	1	STAINLESS STEEL	GR. 316	
3.	FRONT FERRULE	1	33	33	
2.	BACK NUT	1	STEEL	ASTM A108	
1.	BODY	1	STEEL	ASTM A108	

[illegible]

F

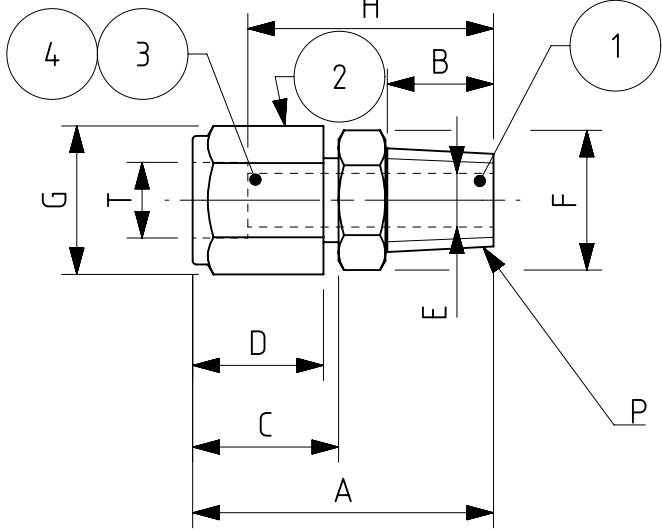
E

D

C

B

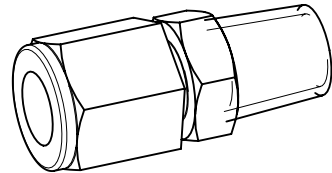
A



ORIGINAL
SUPPLIER : SWAGELOK / USA

NOTE:-

1. REMOVE ALL BURRS AND SHARP EDGES.
2. BODY & BACK NUT SHOULD BE ZINC COATED (PLATED)(10MICRONS PASSIVATED)
3. ALL DIMENSIONS ARE IN mm EXCEPT OTHERWISE STATED.
4. GENERAL TOLERANCES ON DIMENSIONS:(a)BELOW 1": $\begin{matrix} +0.02'' \\ -0 \end{matrix}$ (b)ABOVE 1": $\begin{matrix} +0.04'' \\ -0 \end{matrix}$
5. DIMENSIONS A,C,D ARE TYPICAL FINGER-TIGHT.
6. ISO 7/1 & ISO228/1 FOR TAPER AND PARALLEL THREADS RESPECTIVELY.
7. THIS FITTING IS TO BE SWAGED ON S.S.TUBES(Gr.304)OF HARDNESS 90HRB(MAX.)
8. ALL THE PARTS OF THE FITTINGS SHOULD BE CONCENTRIC AND BE CAPABLE OF SELF ALLIGNMENT WHEN ASSEMBLED WITH PROPER SIZE TUBING.
9. NUTS & FERRULES OF PARTICULAR SIZE SHALL BE INTERCHANGEABLE FOR EACH TYPE.



USED FOR LOCO WAG-9, WAP-7 & WAP-5

5 4

5

6

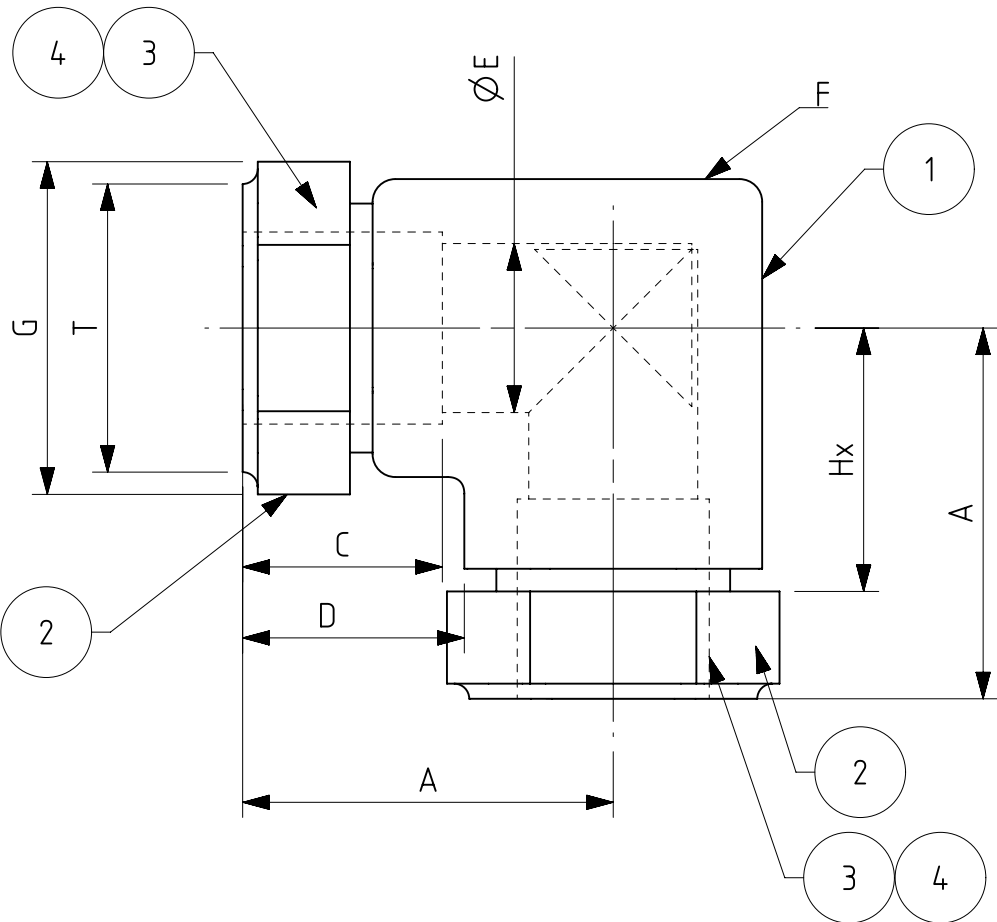
6

PART NO.	T TUBE O.D.	P TAPER THREAD (MALE) TO ISO 7/1	A	B	C	D	E MINIMUM OPENING	F HEX. FLAT	G HEX.FLAT	H (BODY)
1209-18.306-026-001	10 mm	1/4"	1.57"	0.56"	0.76"	0.66"	0.28"	5/8"	11/16"	1.28"
1209-18.306-026-002	1/2"	1/2"	1.93"	0.75"	0.86"	0.90"	0.41"	7/8"	7/8"	1.53"
1209-18.306-026-003	1"	3/4"	2.26"	0.75"	1.04"	1.23"	0.62"	1 3/8"	1 1/2"	1.78"
1209-18.306-026-004	1"	1"	2.45"	0.94"	1.04"	1.23"	0.88"	1 3/8"	1 1/2"	1.97"
1209-18.306-026-005	1 1/2"	1 1/4"	3.5"	0.94"	1.53"	1.62"	1.08"	2.16"	2.24"	2.33"
1209-18.306-026-006	1/2"	1/4"	1.71"	0.56"	0.86"	0.90"	0.28"	13/16"	7/8"	1.31"
1209-18.306-026-007	1 1/2"	1 1/2"	3.5"	0.94"	1.53"	1.62"	1.08"	2.16"	2.24"	2.33"
1209-18.306-026-008	10	M14	1.93"	0.75"	0.86"	0.90"	0.41"	7/8"	7/8"	1.53"

4			BACK FERRULE	1	STAINLESS STEEL	GR.316	
3			FRONT FERRULE	1	STAINLESS STEEL	GR.316	
2			BACK-NUT	1	CARBON STEEL	ASTM A 108	
1			BODY	1	CARBON STEEL	ASTM A 108	
निर्देश संख्या	लागत एवं वितरण संख्या	अंग आरेखण संख्या	वर्णन	मात्रा	पदार्थ	विशिष्टि	प्रति भार कि. ग्रा.
REF. NO.	C&D NO.	PART DRG. NO.	DESCRIPTION	QTY.	MATL	SPECN	WT. EACH IN K.G.

अधिकृतित DGN		चिततरंजन रेलइंजन कारखाना CHITTARANJAN LOCOMOTIVE WORKS, INDIA					
जॉचा व.अ.अ. CHD SSE	SUBHANK AR KUMBHAK AR	पदार्थ MATL					
समीक्षित स.वि.अ. / व.वि.अ. REVIEWED AEE / SEE	Pradeep Khatana	प्रति भार कि. ग्रा. WT. EACH IN KG					
अनुमोदित च.यु.वि.अ. APPROVED DYCEE	ARUP KUMAR MITRA	विशिष्टि SPECN					
दिनांक DATE	23-09-20	वर्णन DESCRIPTION					
दृष्टिक अनुपात SCALE	1:1	आरेखण संख्या DRAWING NO.					
संदर्भ / REF. 182-00534	ALT-	1209-18.306-026					
परिवर्तन संख्या ALT. NO.	प्राधिकार AUTHY	वर्णन DESCRIPTION		परिवर्तन संख्या ALTERATION NO.	7	पुर्ण SHEET	1 OF 1
दिनांकित DATED INITIAL				A3			

धातु-वेल्डन चिन्ह भा. मा. : 813 / अ. मा. सं. :2553 WELDING SYMBOLS TO IS:813 / ISO:2553	अनिर्दिष्ट सद्य - सीमा मा. मा. : 2102 / अ. मा. सं. : 2768 UNSPECIFIED TOLERANCE TO IS : 2102 / ISO : 2768												TOL. CLS.
	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 μ m	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
सतह - रुक्षता का मान भा. मा. 3073 / अ. मा. सं. 1302 SURFACE ROUGHNESS VALUE TO IS:3073 / ISO:1302	चिन्ह SYMBOL												

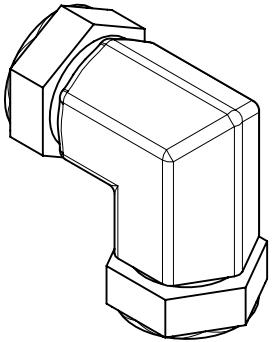


NOTES:-

- 1.REMOVE ALL BURRS AND SHARP EDGES.
- 2.BODY & BACK NUT SHOULD BE ZINC COATED (PLATED) PASSIVATED.
- 3.ALL DIMENSIONS ARE IN mm EXCEPT OTHERWISE STATED.
- 4.DIMENSIONS A,C,D ARE TYPICAL FINGER-TIGHT.
- 5.GENER TOLERANCE ON DIMENSIONS: (a)BELOW 1": $\begin{smallmatrix} +0.02 \\ -0 \end{smallmatrix}$ (b)ABOVE 1": $\begin{smallmatrix} +0.04 \\ -0 \end{smallmatrix}$ EXCEPT 'T'.
- 6.ISO 7/1 & ISO 228/1 FOR TAPER AND PARALLEL THREADS RESPECTIVELY.
- 7.ELBOW UNIONS ARE TO BE MACHINED FROM FORGED BLANK AND NOT TO BE CAST.
- 8.THIS FITTING IS TO BE SWAGED ON S.S.TUBES (Gr.304) OF HARDNESS 90 HRB MAX.
- 9.ALL THE PARTS OF THE FITTINGS SHOULD BE CONCENTRIC AND BE CAPABLE OF SELF-ALIGNMENT WHEN ASSEMBLED WITH PROPER SIZE TUBING.
- 10.NUTS & FERRULES OF PARTICULAR SIZE SHALL BE INTERCHANGEABLE FOR EACH TYPE.

SL.NO	T TUBE O.D.	A	C	D	E MINIMUM OPENING	F WRENCH PAD	G HEX. FLAT	Hx
1.	1"	1.93"	1.04"	1.23"	0.88"	1 3/8"	1 1/2"	1.45"

USED FOR LOCO WAP-5,WAG-9



ORIGINAL SUPPLIER-SWAGELOK/USA

4			BACK FERRULE	2	STAINLESS STEEL	GR.316	
3			FRONT FERRULE	2	STAINLESS STEEL	GR.316	
2			BACK NUT	2	CARBON STEEL	ASTM A 108	
1			BODY	1	CARBON STEEL	ASTM A 108	
निर्देश संख्या	लागत एवं वितरण संख्या	अंग आरेखण संख्या	वर्णन	मात्रा	पदार्थ	विशिष्टि	प्रति भार कि. ग्रा.
REF. NO.	C&D NO.	PART DRG. NO.	DESCRIPTION	QTY.	MATL	SPECN	WT. EACH IN K.G.
अधिकृतित DGN			चिततरंजन रेलइंजन कारखाना CHITTARANJAN LOCOMOTIVE WORKS, INDIA				
जोचा व.अ.अ. CHD SSE	ALOK KUMAR CHAKRABORTY		पदार्थ MATL		प्रति भार कि. ग्रा. WT. EACH IN KG		
समीक्षित स.वि.अ. / व.वि.अ. REVIEWED AEE / SEE	Pradeep Khatana		विशिष्टि SPECN				
अनुमोदित च.यु.वि.अ. APPROVED DYCEE	ARUP KUMAR MITRA		वर्णन		ELBOW UNION SPECIAL		
दिनांक DATE	24-09-20		DESCRIPTION				
रैखिक अनुपात SCALE	1:1		आरेखण संख्या		1209-18.306-027		
			DRAWING NO.				
दिनांकित आद्यक्षर DATED INITIAL	संदर्भ / REF. 182-00533	ALT-	परिवर्तन संख्या ALTERATION NO.	4	पुर्ण SHEET	1 OF 1	A3

धातु-वेल्डन चिन्ह भा. मा. : 813 / अ. मा. सं. :2553 WELDING SYMBOLS TO IS:813 / ISO:2553	अनिर्दिष्ट सद्य - सीमा मा. मा. : 2102 / अ. मा. सं. : 2768 UNSPECIFIED TOLERANCE TO IS : 2102 / ISO : 2768												TOL. CLS.
	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 μ m	0.025	0.05	0.1	0.2	0.4	0.8	1.6	3.2	6.3	12.5	25	50
सतह - रुक्षता का मान भा. मा. 3073 / अ. मा. सं. 1302 SURFACE ROUGHNESS VALUE TO IS:3073 / ISO:1302	चिन्ह SYMBOL												