

MATERIAL TEST CERTIFICATE

Inspection Certificate : As per BS EN 10204 : 2004 3.1



(An ISO 9001 : 2008 Certified Co.)

ANOOP FORGINGS PVT. LTD.

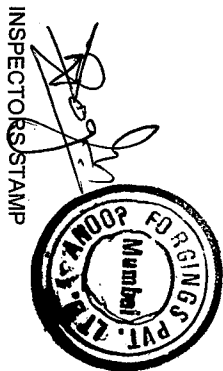
J-56, Add. MIDC, Village- Kudawali, Tal. Murbad, Dist. Thane 421401 (India)
 PH (Factory) : ++ 9423839547 / 9423839587
 Fax : 91-22-2164 1741 E-mail : anoopforgings@vsnl.com / anoopforgings@sancharnet.in

| | | | |
|------------------|---------------------------|----------------------------------|---------------------|
| CUSTOMER: | FLOW TECHNOLOGY LTD | MTR NO. | 09 / EXP / 13-14 |
| | HALF HOUSE LANE. | DATE | 22.08.2013 |
| | HOVE EDGE, WEST YORKSHIRE | MATERIAL SPECIFICATION | ASTM A182 |
| | BRIGHOUSE, HD6 2PH, UK | GRADE | F316L |
| | | DIMENSIONAL SPECIFICATION | As per your Drawing |
| | | STAINLESS STEEL FORGINGS | TEES & ELBOWS |

ORDER NO.: 008046 / JS DT. 29.04.2013 & 008261 / JS DT. 24.06.2013

| CHEMICAL ANALYSIS | | | | | | | | | | | | | |
|-------------------|---------------------------------------|-------------------|-----|-------|-------|-------|-------|-------|--------|--------|-------|-----|--------|
| Sr. No. | Item Description | Heat No. /lot No. | Qty | C% | Mn% | Si% | S% | P% | Ni% | Cr% | Mo% | Ti% | N2% |
| | | | | | | | | | | | | | |
| 1 | 1-5/16" 90 Deg. Elbow Forging (S2314) | HS-7321/3000 | 846 | 0.027 | 1.660 | 0.300 | 0.020 | 0.039 | 10.030 | 16.600 | 2.020 | -- | 0.0550 |
| 2 | 1-5/8" TEE Forging (S2326) | HS-7321/3000 | 531 | 0.027 | 1.660 | 0.300 | 0.020 | 0.039 | 10.030 | 16.600 | 2.020 | -- | 0.0550 |
| 3 | 1-5/16" TEE Forging (S2315) | RSL-391/3018 | 772 | 0.026 | 1.700 | 0.370 | 0.019 | 0.040 | 10.080 | 16.580 | 2.050 | -- | 0.0615 |

| MECHANICAL PROPERTIES | | | | | | | | | | | | |
|-----------------------|---------------------------------------|--------------------------|-----------------|----------------|---------------------|------------------|------------------|-------------------------------------|--------|--------|--------|--------------|
| Heat No. /lot No. | Item Description | Tensile Strength (N/mm2) | Proof Stress | | % Elongation %L0=5D | % Reduction Area | Test Temp Deg. C | Impact Test Charpy V-Notch (Joules) | | | | Hardness BHN |
| | | | Rp=0.2% (N/mm2) | Rp= 1% (N/mm2) | | | | I | II | III | Avg. | |
| HS-7321/3000 | 1-5/16" 90 Deg. Elbow Forging (S2314) | 580.05 | 350.39 | 375.83 | 58.29 | 69.90 | 20° | 178.00 | 162.00 | 172.00 | 170.66 | 153.00 |
| HS-7321/3000 | 1-5/8" TEE Forging (S2326) | 580.05 | 350.39 | 375.83 | 58.29 | 69.90 | 20° | 178.00 | 162.00 | 172.00 | 170.66 | 153.00 |
| RSL-391/3018 | 1-5/16" TEE Forging (S2315) | 563.19 | 284.73 | 315.05 | 51.86 | 68.05 | 20° | 186.00 | 160.00 | 168.00 | 171.33 | 156.00 |



INSPECTOR'S STAMP

REV 0

F10368
 3/8" NPT Male x Female 90° Elbow 10K

01.04.02

FLOW TECHNOLOGY LTD
 TEST CERTIFICATE
 VERIFIED TRUE
 COPY OF ORIGINAL

Signature

WORKS AUTHORISED INSPECTOR

QAE/FR/12

PAGE 1 OF 2