

**MATERIAL TEST CERTIFICATE**



**ANOOP FORGINGS PVT. LTD.**

( An ISO 9001:2000 Certified Co. )

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<b>CUSTOMER:</b>	<b>PED 97/23/EC and AD 2000 - Merkblatt W0</b>	MTR NO.	15/EXP/10-11
FLOW TECHNOLOGY LTD	<b>Certificate No. 07 202 1423 WZ 0847/10</b>	DATE	22.11.2010
HALF HOUSE LANE,	<b>Directive 97/23/EC, Annex 1, Sect 4.3</b>	MATERIAL SPECIFICATION	ASTM A182
HOVE EDGE, WEST YORKSHIRE	AD 2000 - Merkblatt W0 Certificate No. 07 202 1423 WP 0847 10	GRADE	F 316L
BRIGHOUSE. HD6 2PH, UK	Technical Requirements	DIMENSIONAL SPECIFICATION	As per your Drawing & B16.5
	AD MERKBLATTER W2	Stainless Steel Forgings - Tees & Elbows and Machined Flanges	
ORDER NOS.: 002717 / DW DT. 07.06.10 & 002980 / SD DT. 19.07.10			

**CHEMICAL ANALYSIS**

Sr. No.	Item Description	Heat No. /Lot No.	Qty	C%	Mn%	Si%	S%	P%	Ni%	Cr%	Mo%	Ti%	N2%
	<b>STAINLESS STEEL FORGINGS - TEES &amp; ELBOWS AND MACHINED FLANGES</b>												
1	7/8" 90 Deg. Elbow Forging	G-696/2495	1233	0.025	1.510	0.340	0.022	0.038	10.060	16.760	2.020	-	0.0550
2	1-7/8" 90 Deg. Elbow Forging	G-42/2496	253	0.018	1.800	0.390	0.022	0.043	10.100	16.540	2.010	-	0.0550
3	1-5/8" 90 Deg. Elbow Forging	G-42/2496	317	0.018	1.800	0.390	0.022	0.043	10.100	16.540	2.010	-	0.0550
4	3/4" TEE Forging	G-696/2495	835	0.025	1.510	0.340	0.022	0.038	10.060	16.760	2.020	-	0.0550
5	1-5/8" TEE Forging	G-42/2496	258	0.018	1.800	0.390	0.022	0.043	10.100	16.540	2.010	-	0.0550
6	1" NB ASA 300LB RF SLIP ON (422-C-349)	G-664/2497	104	0.020	1.510	0.360	0.025	0.037	10.030	16.520	2.100	-	0.0522

**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.	
G 696/2495	7/8" 90 Deg. Elbow Forging	588.96	416.15	433.08	48.85	69.42	20°	180.00	205.00	195.00	193.33	153.00
G-42/2496	1-7/8" 90 Deg. Elbow Forging	539.34	409.62	425.32	55.71	74.06	20°	150.00	205.00	178.00	177.66	153.00
G-42/2496	1-5/8" 90 Deg. Elbow Forging	539.34	409.62	425.32	55.71	74.06	20°	150.00	205.00	178.00	177.66	153.00
G 696/2495	3/4" TEE Forging	588.96	416.15	433.08	48.85	69.42	20°	180.00	205.00	195.00	193.33	153.00
G-42/2496	1-5/8" TEE Forging	539.34	409.62	425.32	55.71	74.06	20°	150.00	205.00	178.00	177.66	153.00

INSPECTORS STAMP

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WORKS AUTHORIZED INSPECTOR



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**F11850 - 3/4" JIC ALL SWIVEL TEE 10K 316L**