## **VS FORGED FITTINGS**

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Product Stage				QUALITY ASSURANCE PLAN						Doc Ref No	QF/QC/09
Control Plan Number: CP -01			QUILLI I ASSONINGE I EM					(Rev.) :	00		
CONTROL NUMBER OF VI			Kev						Date	18-08-17	
Part Name High Presssu		sure Pipe Fittings		Mr. I	Punya <b>G</b> upta - 9999889008						
				Contact / Phone :							
Plant	JALANDHAR										
Part	Process	Machine,			Characteristics			Methods			
Process	Name/Operation	Device , Jig	Produc		D 1 ./D		Measurement		Sample	Control	Reaction
Number	Description	, .		t	Product/Process		Technique	Size	Frequency	Method	Plan
					Burr Free					D 11: D	
1		-	Visually		Burr Free Fine Surface Finish No Crack, No Fold		Visually	100%	On Receipt of Raw Material	Recorded in Receipt Inspection report QF/7/28 Rev . 00	if not ok material found , then hold the material and intimate to the reporting officer for the further action.
	Raw Material Incoming Inspection Round/Billet	-	Dimensionally		( Round/ Billet )Tol. ± 1 mm		Vernier Calliper	As per S-1 Sampling Plan 1 % AQL	On Receipt of Raw Material	Recorded in Receipt Inspection report QF/7/28 Rev . 00	if not ok material found, then hold the material and intimate to the reporting officer and if deviation is given by prod or quality manager then it's ok .otherwise reject the material.
		-	specification		As per ASME B16.11 C -0.35 Max Mn -0.6-1.05 S -0.040 Max P -0.035 Max. Si -0.1-0.35 Cu -0.40 Max. Ni -0.40 Max. Cr -0.30 Max. Mo -0.12 Max. V -0.08 Max.	As per IS 1239 Part -2 S -0.050 Max P -0.050 Max.		As per QP/QC/01 Rev - 01	On Receipt of Raw Material	100% Test Certificates from Supplier End / And chemical analysis performed from NABLregistered lab. One out of each five heats if material received from RASHTARIYE ISHPAT. Otherwise each heat spectro done received from any other vendor.	if not ok material found , then reject the material and mark red colour on it or return the material to vendor.Intimate to Prod.&Q.C Mgr.
		UTM M/C			As per ASME B16.11 Tensile Strength - 0.485 KN/MM <sup>2</sup> Min. Yield Strength - 0.250 KN/MM <sup>2</sup> Min Elongation - 22% Min	As per 1S 1239 Part -2 Tensile Strength - 0.320 KN/MM <sup>2</sup> Min.	UTM Machine	As per QP/QC/01 Rev - 01	On Receipt of Raw Material	Recorded in Mechanical Test Record of each heat	if not ok material found , then reject the material and mark red colour on it or return the material to vendor.Intimate to Prod.&Q.C Mgr.
	Raw Material Incoming Inspection Zinc	Min 98.5		%						Test Certificate from Supplier	Intimate to Prod.&Q.C Mgr. for any disposition action.
2	Blank Cutting	Blanking Press	Blank W	t.	Blank Wt. Should be as per Specified in Blank Charts		Digital Weighing Scale	Avg. of 5 Pcs	Set up Aproval.	Recorded in Production Log Book QFM/PROD/01 Rev . 03	Intimate to Prod.&Q.C Mgr. for any disposition action.
3	Forging	Forging Press/Hammer	Dimensiona	ally.	As per Drawing Manual Std. Ref. ASME B16.11 IS 1239 Part -2		Vernier Calliper	03 pc.	Two times a day.	Recorded In process Inspection Report Forging QF/QC/01 Rev 03	Intimate to Prod.&Q.C Mgr. for any disposition action.
4	Stamping/Marking	Stamping M/C	Marking of VS Bran Name and S Letters should I	Size	(1) No (		Visually	03 pc.	Two times a day.	Recorded In process Inspection Report Forging QF/QC/01 Rev 03	Intimate to Prod.&Q.C Mgr. for any disposition action.
5	Drilling	Drilling M/c	Compone Should be OK as per inspect Bore Gaug	ion with Plug	Bore Size as per	Vernier Caliper	Vernier Caliper	03 pc.	Two times a day.	Recorded In process Inspection Report M/C QFM/QC/03 Rev - 04	Intimate to Prod.&Q.C Mgr. for any disposition action.

6	Facing and Chamferring	Chamferring M/c Or CNC	Dim. Of Side Length/Total Length		As per Drawing Manual Std. Ref. ASME B16.11 IS 1239 Part -2	Vernier Calliper and Visually.	03 pc.	Two times a day.	Recorded In process Inspection Report M/C QFM/QC/03 Rev - 04	Intimate to Prod.&Q.C Mgr. for any disposition action.	
7	Zinc Coating	Lab Equipments	Mass of Zinc Coating		As per Clause 13 of IS 1239 Part - 2	Chemicals for Lab Test	As per S-1 Sampling Plan 1 % AOL	on Galvanising of Lot	Recorded in QF/QC/08 Rev. 00	Intimate to Prod.&Q.C Mgr. for any disposition action.	
8	Threading	Threading M/c Or CNC	Componets Should be OK as per inspection with Plug Bore Gauge.		Thread as per Thread Gauge Std. Ref. as per IS 554 : 1999	Thread Gauge.	03 pc.	Two times a day.	Recorded In process Inspection Report M/C QFM/QC/03 Rev - 04	Intimate to Prod.&Q.C Mgr. for any disposition action.	
9	Alignment/Rt. Angle	Gauges	Alignment should be Ok as per Checking with Try Square			Try Square	03 pc.	Two times a day. Note: Hourly Inspection Pcs from each Product also Done and Checked OK Pcs are put on Inspection Table	Recorded In process Inspection Report M/C QFM/QC/03 Rev - 04	Intimate to Prod.&Q.C Mgr. for any disposition action.	
			(1) Dim (2) Alignment (3) Fine Surface Finish (4) Letters Should be Clear.		As per Drawing Manual Std. Ref. ASME B16.11 IS 1239 Part -2	Vernier Calliper Plug Bore Gauge Try Square Visually	As per S-1 Sampling Plan 1 % AQL	One time a Day	Recorded Final Inspection Report QF/QC/02 Rev 02	Intimate to Prod.&Q,C Mgr. for any disposition action.	
10	Inspection of Finished Product		(1) Components Should be ok as per inspection with Thread Gauge.		Thread as per Thread Gauge Std. Ref. as per IS 554 : 1999	Thread Gauge.	As per S-1 Sampling Plan 1 % AQL	One time a Day	Recorded Final Inspection Report QF/QC/02 Rev 02	Intimate to Prod.&Q.C Mgr. for any disposition action.	
			Hydraulic Pressure Test		As per IS 1239 Part -2	Hydraulic Pressure Testing Machine	As per S-1 Sampling Plan 1 % AQL	One time a Day	Recorded Final Inspection Report QF/QC/02 Rev 02	Intimate to Prod.&Q.C Mgr. for any disposition action.	
			Pneumatic Pressure Test		As per IS 1239 Part -2	Pneumatic Pressure Testing Machine	100%	One time a Day	Recorded Final Inspection Report QF/QC/02 Rev 02	Intimate to Prod.&Q.C Mgr. for any disposition action.	
11	Washing	Washing M/c	Just Clean		Just Clean Fine Surface Finish Marking should be Clear	Visually	100%	On Receipt of Component from Final Inspection		Intimate to Prod.&Q.C Mgr. for any disposition action.	
12	Storage of Finished goods in Packing Section	Manually	Storage of Components with clear identification of Item , Size and Lot No.			Visually	100%	On Receipt of Component from Final Inspection	Recorded in Checked OK Card Code : QF/ST/05 Rev : 01	Intimate to Packing/Q.C I/C for any disposition action	
Prepared By:				Checked By:				Naux Que			