		L&T VALVES LIMITED  KANCHIPURAM		QUALITY ASSURANCE PLAN			Procedure No.	Rev.No.	Prepared By	Appvd By	DATE	PAGE
PRODUCT: BUTTERFLY VALVES					Size : 50 mm to 900 mm		BFV/SO	0	DMS	SGK	17.10.2013	1 OF 1
Customer:								P.O.:	Scope of Inspection		tion	
								1.0			эсоре от тарес	
SL.NO	STAGE	SECTION	COMPONENT	CHARACTERISTICS	METHOD OF CHECK	QUANTUM OF CHECK BY L&T	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	RECORD	SUB VENDOR	L&T	EXT.INSP./ CUSTOMER
	Incoming Material	Raw Material	Castings ( Body & Disc )	Surface Quality	Visual	5% or 10 Nos max.	Material Std	Material Std	GRN	100%	Sampling	-
				Dimensions	Measurement	5% or 10 Nos max.	L&T Drawings	L&T Drawings	GRN	Sampling	Sampling	-
				Chemical ,Mechanical & Heat Treatment Properties( steel cast)	Review of vendor TC	All Heats	Relevant Standards	Relevant Standards	Vendor test certificate	100%	Review	Review
1				Mechanical Properties ( other cast)	Review of vendor TC	100% (Supplier to furnish tc once in 3 months)	Relevant Standards	Relevant Standards	Vendor test certificate	100%	Review	Review (*)
				Magnetic Particle Inspection ( Body)	Dry / Wet method	100%	Relevant Standards	Relevant Standards	MPI report	100%	Review	Review
		Bought Out Finished & Sub contract Items	Machined	Surface Defects	Visual	Sampling plain ANSI /ASQC Z1.4 1993 AQL 4.0 ( tighten inspn)	L&T drawings/ Relevant standards & Material specs		GRN	100%	Sampling	-
				Dimensions	Measurement				GRN	100%	Sampling	-
				Chemical, Mechanical Properties (#)	Review of TC's				Vendor TC	100%	Review	Review(*)
2	Inprocess Control	Line Inspection	Components Processed In- house	Surface Defects & Dimensional	Visual, Measurement	Sampling plain ANSI /ASQC Z1.4	L&T Dray	rings / SPEC L&T Report	-	Sampling	-	
-		Body seat	Synthetic Rubber	Hardness	Micro Tester	1993 AQL 4.0 ( tighten inspn)	Ext Statings, 5, 22				Lat Report	-
3	Product Evaluation	Testing	Finished valves	Shell Test	Hydrostatic	100%	Production Test asper Relevant Standards		Valve Test Report	-	100% Inspection	Witness 10 % per Size
				Seat Test	Hydrostatic							
	Final Inspection	Stores Credit Note	Valves	Visual, TC verification Requirements of S.O.Availability of all parts etc.	Visual	100%	L&T Drawings / Part List		Stores Credit Note	-	100% Inspection	Review
4				Dimensions	Measurement	At Random	L&T Drawings		Stores Credit Note	-	100% Inspection	10 % W
				Positive Material Identification ( PMI ) For bottom shaft	Measurement	At Random	L&T Spec.	L&T Spec.	PMI report	-	Review	10 % W (Size up to 12")
5	Painting	Stores Credit	Valves	Visual &Coating thickness	Standard Measuring Instrument	At Random	L&T Spec.	L&T Spec.	L&T Report	-	At Random	-
6	Inspection Do	spection Documents			Review	100%	Asper QAP,PO and SPEC		Inspection Reports	-	100%	R
7	Inspection Re	nspection Release Note Corwit			Review	100%	Ası	per PO	IRN	-	100%	Н

ABBREVIATION USED: GRN: Goods received note (\*) - No Correlation \* - Critical Dimensions, # - Top Shaft, R - review, W- Witness, H-Hold