

Division of ITT

Valve Description	10"C37R304 VLV ASY

ARTHOMSON-DELTA/S

Order Number: 190056511

FUNCTIONAL CHECKS INCLUDE: Threads, holes, flanges, gates, seats, stroke, and alignment.

Inspection items will be classified: acceptable (acc)

HYDROSTATIC TESTS

Shell Test PSI

Seat Test PSI's

NO LEAKAGE	ACCEPTABLE
MAXIMUM ALLOWABLE LEAKAGE	
400 CC/MIN	

FINAL CHECK INCLUDES: Paint, general appearance, functional check stamp, and hydrostatic test results.

[illegible]

FOR CERTIFICATION TESTING

Product Assurance Specialist :

Study of Hood

Date: 6/22/2023

Witnessed By:



ITT

ITT Engineered Valves
1110 Bankhead Av.
Amory, MS 38821
tel 662-257-6928
fax 662-256-7932

CERTIFICATE OF COMPLIANCE

A R THOMSON - DELTA/S

P.O. NUMBER: 4500210916

FABRI-VALVE ORDER NUMBER: 190056511

EQUIPMENT NUMBER: 300263652, 300263653, 300263654, 300263655

**WE CERTIFY THAT THE VALVE SUPPLIED ON THE SUBJECT ORDER
COMPLIES WITH THE REQUIREMENTS STATED ON THE ORDER AND TO
FABRI-VALVE'S DESIGN AND QUALITY REQUIREMENTS.**

Andy Hood 6/22/2023

Andy Hood

Product Assurance Specialist III





Vital Inspection Professionals, Inc. 180 Airpark Industrial Road Alabaster, AL 35007 Phone (205) 620-0460 Fax (205) 620-0407

Order No	V-534	PO No.	4500086166	Job No.	23-0290	Date	6/9/2023
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LIQUID PENETRANT REPORT

CLIENT: ITT ENGINEERED VALVES LOCATION: VIP Shop / Alabaster, AL

PROJECT: 10" Valve Casting Bodies

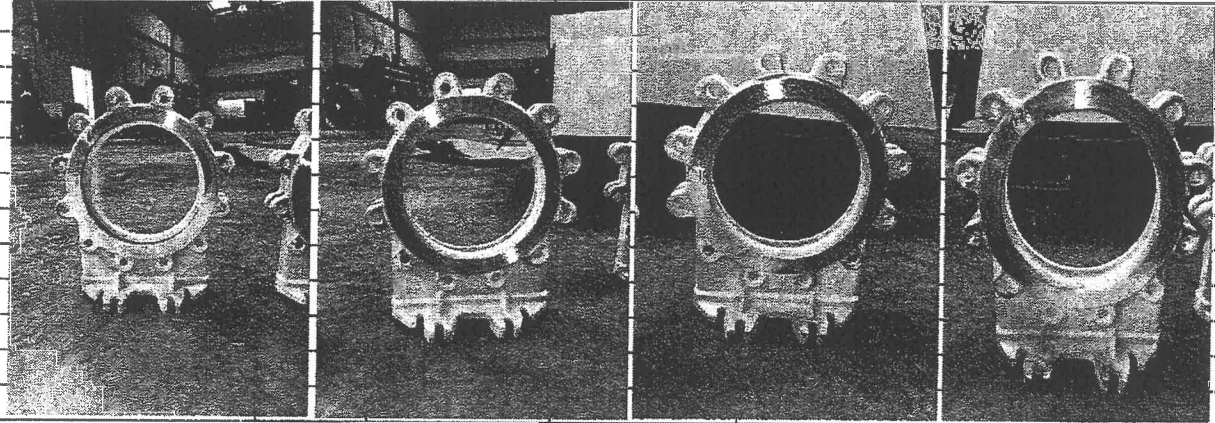
TECHNIQUE/VIP PROCEDURE: In accordance with ASME Section V Article 6 and VIP-PT-V1 Rev. 8

ACCEPTANCE CRITERIA: ASME VIII Division 1, Appendix 7 Paragraph 7-3(a)(4)

Method Used:	Water Washable / Color / Visible Dye; (Method A Type 2)		
Consumable	Manufacturer	Part Number	Batch Number
Penetrant	Magnaflux	WKL-WP	17A05K
Cleaner	Magnaflux	SKC-S	
Developer	Magnaflux	SKD-S2	17D12K
Temp. of Item Inspected:	85 °	Date and Time of Inspection	6/9/23 / 12 PM
		Light Source:	AAA LED Flashlight

RESULTS

Item	Material	Size / Thickness	Results	Size and Location of Indications
Casting #3 JY 1277-1	CF8	Various	Acceptable	No relevant indications noted
Casting #4 JZ 629-1	CF8	Various	Acceptable	No relevant indications noted
Casting #5 JZ 655-1	CF8	Various	Acceptable	No relevant indications noted
Casting #6 JZ 654-1	CF8	Various	Acceptable	No relevant indications noted



REMARKS:

TECHNICIANS: Julian Dela Cruz LEVEL: II
Luis Dela Cruz LEVEL: II

James A. Dumas

VITAL INSPECTION PROFESSIONALS, INC.

The undersigned of Vital Inspection Professionals to perform the services under this contract, purchase order or other similar agreements extends only to those services requested therein. Under no circumstances shall such services extend beyond the performance of the requested inspection of specific equipment and the preparation of reports or similar documents reflecting the inspection data obtained or the opinion furnished on the basis of such inspection. It is expressly understood that all dimensions, nomenclature and expensures of opinion reflect the opinion or observation of the undersigned and are not intended nor can they be construed as representations or warranties as to the actual circumstances in performing the service requested. Vital Inspection Professionals is equal in design, care and skill ordinarily exercised under similar circumstances by others performing such services in the same or similar locality. No other warranty, expressed or implied, is made or intended by Vital Inspection Professionals, Inc.



SRI RANGANATHAR INDUSTRIES (P) LTD - UNIT II

KAREKOUNDANPALAYAM (POST), POGALUR(VIA), COIMBATORE, 641 697, India
Phone: +91-422-4335999 / 4254-4277800, email: sri2@sriindia.net, Website: www.sriindia.net

INSPECTION CERTIFICATE

EN 10204 3.1-2004

Customer : ITT ENGINEERED VALVES, LLC

1110 BANKHEAD AVE
AMORY, MS 38821 US
UNITED STATES OF AMERICA

T.C. No : 010112
T.C. Date : 10-AUG-22

Heat No : JY1277

Pour Date : 23/06/2022

P.Order No. : 4500072351 Dt: 26-APR-22

Material Specification : ASTM A351 - 18e1 Gr. CF8

CASTING PROCESSED BY INDUCTION MELTING
FOUNDRY IDENTIFICATION : SRI2

CHEMICAL COMPOSITION %

Element	C	Si	Mn	S	P	Cr	Ni	Mo
Minimum	---	---	---	---	---	18.000	8.000	---
Maximum	0.080	2.000	1.500	0.040	0.040	21.000	11.000	0.500
Actual	0.034	0.949	0.969	0.004	0.027	18.099	8.163	0.102

HEAT
TREATMENT

SOLUTION ANNEALING : RAISED TO 1100°C SOAKED FOR 2 HOURS AND THEN WATER QUENCHED.

ASTM A370-21

MECHANICAL PROPERTIES

Requirements	Yield Strength		Tensile Strength		%Elongation	%Reduction	Hardness	Bend Test	Impact Test in (J)			
	ksi	MPa	ksi	MPa	GL : 50 mm	of Area	HBW	At	(10mm X 10mm X 55mm)			
	0.2%RP		---		---	---	QTC	---	ISO 148 - 1 , CVN 2 mm			
Minimum	30	205	70	485	35.00	---	---	---				
Maximum	---	---	---	---	---	---	---	---	1	2	3	Avg
Actual	40.5	279	83.1	573	54.52	---	160	---	---	---	---	---

SL. No	PO. SLNo	Description Part No.	Raw Casting Drawing No.	Mach Drawing No.	Qty
1	200	10" C37 FV-1342 SHORT BODY INVESTMENT FMC MAT NO F159011	D-90-214 REV.10	D91-0064 REV.9 / A-95-586 REV.4	3

Remarks : Visual Inspection Carried Out As Per MSS SP -55-2011.

We confirm that the material was manufactured, sampled, tested and inspected in accordance with above material specification and was found to meet the requirements and also compliance to the purchase order.

For SRI RANGANATHAR INDUSTRIES (P) LTD - UNIT II

QUALITY CONTROL

**SRI RANGANATHAR INDUSTRIES (P) LTD - UNIT II**

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INSPECTION CERTIFICATE

EN 10204 3.1-2004

Customer : ITT ENGINEERED VALVES, LLC

1110 BANKHEAD AVE
AMORY, MS 38821 US
UNITED STATES OF AMERICA

T.C. No : 008668**T.C. Date : 14-MAY-22****P.Order No. : 4500068866 Dt: 02-FEB-22****Heat No : JZ654****Material Specification : ASTM A351 - 18a1 Gr. CF8****Pour Date : 05/04/2022**

CASTING PROCESSED BY INDUCTION MELTING
FOUNDRY IDENTIFICATION : SRI2

CHEMICAL COMPOSITION %

Element	C	Si	Mn	S	P	Cr	Ni	Mo
Minimum	---	---	---	---	---	18.000	8.000	---
Maximum	0.080	2.000	1.500	0.040	0.040	21.000	11.000	0.500
Actual	0.024	1.030	1.069	0.003	0.027	18.541	8.389	0.251

HEAT TREATMENT**SOLUTION ANNEALING : RAISED TO 1100°C SOAKED FOR 2 HOURS AND THEN WATER QUENCHED.****ASTM A370-21****MECHANICAL PROPERTIES**

Requirements	Yield Strength		Tensile Strength		%Elongation	%Reduction	Hardness	Bend Test	Impact Test in (J)			
	ksi	MPa	ksi	MPa	GL :50 mm	of Area	HBW	At	(10mm X 10mm X 55mm)			
	0.2%RP		---		---	---	QTC	---	ISO 148 - 1 , CVN 2 mm			
Minimum	30	205	70	485	35.00	---	---	---				
Maximum	---	---	---	---	---	---	---	---	1	2	3	Avg
Actual	31.3	216	80	551	51.60	---	152	---	--	--	--	--

SL. No	PO. SLNo	Description Part No.	Raw Casting Drawing No.	Mach Drawing No.	Qty
1	100	10" C37 FV-1342 SHORT BODY INVESTMENT FMC MAT NO F159011	D-90-214 REV.10	D91-0064 REV.9 / A-95-586 REV.4	3

Remarks : Visual Inspection Carried Out As Per MSS SP -55-2011.

We confirm that the material was manufactured, sampled, tested and inspected in accordance with above material specification and was found to meet the requirements and also compliance to the purchase order.

For SRI RANGANATHAR INDUSTRIES (P) LTD - UNIT II


QUALITY CONTROL

**SRI RANGANATHAR INDUSTRIES (P) LTD - UNIT II**

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INSPECTION CERTIFICATE

EN 10204 3.1-2004

Customer : ITT ENGINEERED VALVES, LLC

1110 BANKHEAD AVE
AMORY, MS 38821 US
UNITED STATES OF AMERICA

T.C. No : 008661**T.C. Date : 14-MAY-22****Heat No : JZ629****Pour Date : 02/04/2022****Material Specification : ASTM A351 - 18e1 Gr. CF8****CASTING PROCESSED BY INDUCTION MELTING****FOUNDRY IDENTIFICATION : SRI2****CHEMICAL COMPOSITION %**

Element	C	Si	Mn	S	P	Cr	Ni	Mo
Minimum	---	---	---	---	---	18.000	8.000	---
Maximum	0.080	2.000	1.500	0.040	0.040	21.000	11.000	0.500
Actual	0.024	0.946	1.135	0.003	0.029	18.561	8.232	0.402

HEAT TREATMENT**SOLUTION ANNEALING : RAISED TO 1100°C SOAKED FOR 2 HOURS AND THEN WATER QUENCHED.****ASTM A370-21****MECHANICAL PROPERTIES**

Requirements	Yield Strength		Tensile Strength		%Elongation	%Reduction	Hardness	Bend Test	Impact Test in (J)			
	ksi	MPa	ksi	MPa	GL :50 mm	of Area	HBW	At	(10mm X 10mm X 55mm)			
	0.2%RP		---		---	---	QTC	---	ISO 148 - 1 , CVN 2 mm			
Minimum	30	205	70	485	35.00	---	---	---				
Maximum	---	---	---	---	---	---	---	---	1	2	3	Avg
Actual	38.4	265	80.5	555	57.80	---	156	---	--	--	--	---

SL No	PO, SLNo	Description Part No.	Raw Casting Drawing No.	Mach Drawing No.	Qty
1	100	10" C37 FV-1342 SHORT BODY INVESTMENT FMC MAT NO F159011	D-90-214 REV.10	D91-0064 REV.9 / A-95-586 REV.4	3

Remarks : Visual Inspection Carried Out As Per MSS SP -55-2011.

We confirm that the material was manufactured, sampled, tested and inspected in accordance with above material specification and was found to meet the requirements and also compliance to the purchase order.

For SRI RANGANATHAR INDUSTRIES (P) LTD - UNIT II


QUALITY CONTROL

**SRI RANGANATHAR INDUSTRIES (P) LTD - UNIT II**

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Phone: +91-422-4335999 / 4254-4277800, email: sri2@sriindia.net, Website: www.sriindia.net

INSPECTION CERTIFICATE

EN 10204 3.1-2004

Customer : ITT ENGINEERED VALVES, LLC

1110 BANKHEAD AVE
AMORY, MS 38821 US
UNITED STATES OF AMERICA

T.C. No : 008669**T.C. Date :** 14-MAY-22**Heat No :** JZ655**Pour Date :** 05/04/2022**P.Order No. :** 4500068866 **.Dt:** 02-FEB-22**Material Specification :** ASTM A351 - 18e1 Gr. CF8

CASTING PROCESSED BY INDUCTION MELTING

FOUNDRY IDENTIFICATION : SRI2

CHEMICAL COMPOSITION %

Element	C	SI	Mn	S	P	Cr	Ni	Mo
Minimum	---	---	---	---	---	18.000	8.000	---
Maximum	0.080	2.000	1.500	0.040	0.040	21.000	11.000	0.500
Actual	0.026	1.033	1.060	0.003	0.027	18.314	8.274	0.147

HEAT TREATMENT

SOLUTION ANNEALING : RAISED TO 1100°C SOAKED FOR 2 HOURS AND THEN WATER QUENCHED.

ASTM A370-21**MECHANICAL PROPERTIES**

Requirements	Yield Strength		Tensile Strength		%Elongation	%Reduction	Hardness	Bend Test	Impact Test in (J)			
	ksi	MPa	ksi	MPa	GL :50 mm	of Area	HBW	At	(10mm X 10mm X 55mm)			
	0.2%RP		---		---	---	QTC	---	ISO 148 - 1 , CVN 2 mm			
Minimum	30	205	70	485	35.00	---	---	---				
Maximum	---	---	---	---	---	---	---	---	1	2	3	Avg
Actual	37	254	82	565	55.40	---	156	---	--	--	--	--

SL. No	PO. SLNo	Description Part No.	Raw Casting Drawing No.	Mach Drawing No.	Qty
1	100	10" C37 FV-1342 SHORT BODY INVESTMENT FMC MAT NO F159011	D-90-214 REV.10	D91-0064 REV.9 / A-95-586 REV.4	3

Remarks : Visual Inspection Carried Out As Per MSS SP -55-2011.

We confirm that the material was manufactured, sampled, tested and inspected in accordance with above material specification and was found to meet the requirements and also compliance to the purchase order.

For SRI RANGANATHAR INDUSTRIES (P) LTD - UNIT II


QUALITY CONTROL



MILL TEST CERTIFICATE
(INSPECTION CERTIFICATE)
In Accordance with IS 10204 : 2004 Type 3.1

Jindal Stainless Limited,
Jajpur, Odisha



4500068227

CHL-5000068227

CUSTOMER : SALEM STAINLESS STEEL SUPPLIERS		CERTIFICATE NO. : JSU-JRD/JA2021-22/000001/20376	
CITY : CHENNAI		DATE : 04.01.2022	
P.O. NO. : 1361		VEHICLE NO. : AGN187462	
CUSTOMER REGISTRATION : As per OAP/PO requirement		SALES ORDER NO. : QB20038012	
		MATERIAL (PRODUCT) NO. : 4500068227 NET WT (MT) : 4.117	
Material Description/Product		Grade / Type	Material Specifications
STAINLESS STEEL		1.2017304	EN 10088-3:1996 10088-3-10, ASTM A276/A276M-20, ASME SA-276/SA-276M, 2003 SEC. II, PART 4, 1997 1.2017 304L
Process Route		BAP-AOI-CRP-CCS	
PHYSICAL DESCRIPTION			
SR NO.	BATCH NO.	PARENT COIL NO. (PLATE NO.)	PRIME COIL NO.
1	4500068227	0900742704	304321
2	4500068227	0900742704	304321
3	4500068227	0900742704	304321
4	4500068227	0900742704	304321
CHEMICAL ANALYSIS (TABLE)			
HEAT NO.	%C	%Mn	%S
12104421	0.063	0.04	0.008
12104421	0.049	0.04	0.008
MECHANICAL PROPERTIES (SAMPLE DIRECTION - TRANSVERSE)			
SR NO.	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation (%)
1	200	351	60.7
2	200	351	60.7
3	200	351	60.7
4	200	351	60.7
ADDITIONAL INFORMATION			
<p>1. THE ABOVE MATERIAL HAS BEEN SOLID SOLUTION ANNEALED AT 1050°C & QUENCHED IN WATER.</p> <p>2. ABOVE MATERIAL ALSO CONFORMS TO IS 6912:2017 AND 2.000001.</p> <p>PART NO : F175055</p> <p>HEAT NO : 12104421</p> <p>PART DESCRIPTION : 10" X37T 304SS GATE</p> <p>PCV INVOICE NO : EXP-021</p> <p>PCV INVOICE DATE : 23/06/2022</p> <p>IT PO NO : 4500068227</p>			
<p>THE ABOVE MATERIAL FULLY CONFORMS TO IS 6912:2017 AND 2.000001 & MECHANICAL PROPERTIES OF PRODUCT AS TESTED IN ACCORDANCE WITH THE SCHEME OF TESTING & INSPECTION (CONTINUED)</p> <p>IN HIS CERTIFICATE</p> <p>NOTE: ROLLING FINISHES: 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2200, 2300, 2400, 2500, 2600, 2700, 2800, 2900, 3000, 3100, 3200, 3300, 3400, 3500, 3600, 3700, 3800, 3900, 4000, 4100, 4200, 4300, 4400, 4500, 4600, 4700, 4800, 4900, 5000, 5100, 5200, 5300, 5400, 5500, 5600, 5700, 5800, 5900, 6000, 6100, 6200, 6300, 6400, 6500, 6600, 6700, 6800, 6900, 7000, 7100, 7200, 7300, 7400, 7500, 7600, 7700, 7800, 7900, 8000, 8100, 8200, 8300, 8400, 8500, 8600, 8700, 8800, 8900, 9000, 9100, 9200, 9300, 9400, 9500, 9600, 9700, 9800, 9900, 10000, 10100, 10200, 10300, 10400, 10500, 10600, 10700, 10800, 10900, 11000, 11100, 11200, 11300, 11400, 11500, 11600, 11700, 11800, 11900, 12000, 12100, 12200, 12300, 12400, 12500, 12600, 12700, 12800, 12900, 13000, 13100, 13200, 13300, 13400, 13500, 13600, 13700, 13800, 13900, 14000, 14100, 14200, 14300, 14400, 14500, 14600, 14700, 14800, 14900, 15000, 15100, 15200, 15300, 15400, 15500, 15600, 15700, 15800, 15900, 16000, 16100, 16200, 16300, 16400, 16500, 16600, 16700, 16800, 16900, 17000, 17100, 17200, 17300, 17400, 17500, 17600, 17700, 17800, 17900, 18000, 18100, 18200, 18300, 18400, 18500, 18600, 18700, 18800, 18900, 19000, 19100, 19200, 19300, 19400, 19500, 19600, 19700, 19800, 19900, 20000, 20100, 20200, 20300, 20400, 20500, 20600, 20700, 20800, 20900, 21000, 21100, 21200, 21300, 21400, 21500, 21600, 21700, 21800, 21900, 22000, 22100, 22200, 22300, 22400, 22500, 22600, 22700, 22800, 22900, 23000, 23100, 23200, 23300, 23400, 23500, 23600, 23700, 23800, 23900, 24000, 24100, 24200, 24300, 24400, 24500, 24600, 24700, 24800, 24900, 25000, 25100, 25200, 25300, 25400, 25500, 25600, 25700, 25800, 25900, 26000, 26100, 26200, 26300, 26400, 26500, 26600, 26700, 26800, 26900, 27000, 27100, 27200, 27300, 27400, 27500, 27600, 27700, 27800, 27900, 28000, 28100, 28200, 28300, 28400, 28500, 28600, 28700, 28800, 28900, 29000, 29100, 29200, 29300, 29400, 29500, 29600, 29700, 29800, 29900, 30000, 30100, 30200, 30300, 30400, 30500, 30600, 30700, 30800, 30900, 31000, 31100, 31200, 31300, 31400, 31500, 31600, 31700, 31800, 31900, 32000, 32100, 32200, 32300, 32400, 32500, 32600, 32700, 32800, 32900, 33000, 33100, 33200, 33300, 33400, 33500, 33600, 33700, 33800, 33900, 34000, 34100, 34200, 34300, 34400, 34500, 34600, 34700, 34800, 34900, 35000, 35100, 35200, 35300, 35400, 35500, 35600, 35700, 35800, 35900, 36000, 36100, 36200, 36300, 36400, 36500, 36600, 36700, 36800, 36900, 37000, 37100, 37200, 37300, 37400, 37500, 37600, 37700, 37800, 37900, 38000, 38100, 38200, 38300, 38400, 38500, 38600, 38700, 38800, 38900, 39000, 39100, 39200, 39300, 39400, 39500, 39600, 39700, 39800, 39900, 40000, 40100, 40200, 40300, 40400, 40500, 40600, 40700, 40800, 40900, 41000, 41100, 41200, 41300, 41400, 41500, 41600, 41700, 41800, 41900, 42000, 42100, 42200, 42300, 42400, 42500, 42600, 42700, 42800, 42900, 43000, 43100, 43200, 43300, 43400, 43500, 43600, 43700, 43800, 43900, 44000, 44100, 44200, 44300, 44400, 44500, 44600, 44700, 44800, 44900, 45000, 45100, 45200, 45300, 45400, 45500, 45600, 45700, 45800, 45900, 46000, 46100, 46200, 46300, 46400, 46500, 46600, 46700, 46800, 46900, 47000, 47100, 47200, 47300, 47400, 47500, 47600, 47700, 47800, 47900, 48000, 48100, 48200, 48300, 48400, 48500, 48600, 48700, 48800, 48900, 49000, 49100, 49200, 49300, 49400, 49500, 49600, 49700, 49800, 49900, 50000, 50100, 50200, 50300, 50400, 50500, 50600, 50700, 50800, 50900, 51000, 51100, 51200, 51300, 51400, 51500, 51600, 51700, 51800, 51900, 52000, 52100, 52200, 52300, 52400, 52500, 52600, 52700, 52800, 52900, 53000, 53100, 53200, 53300, 53400, 53500, 53600, 53700, 53800, 53900, 54000, 54100, 54200, 54300, 54400, 54500, 54600, 54700, 54800, 54900, 55000, 55100, 55200, 55300, 55400, 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