



Industry & Facilities Division
Third Party Inspection Report

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INSPECTION REPORT No. INS/ER/MSS-24/064-20240627-01	Revision No. 0
☐ Initial ☐ Interim ☒ Final ☐ Resident ☐ Remote	
Inspection requested by: HEBEI YONGQIAN TRADING CO.,LTD.	
Inspection performed as Recognised Authority: ☐ Yes, :(Recognition) ☒ No	
BV Job Nr:INS/ER/MSS-24/064	

Project: TPI for Ductile iron pipe fittings	IPO Ref (If applicable):N/A (BV internal P/o)
BV Client: HEBEI YONGQIAN TRADING CO.,LTD.	P/o nr:INS/ER/MSS-24/064 (client to BV)
Manufacturer/Vendor: HEBEI YONGQIAN TRADING CO.,LTD.	P/o nr:N/A (client to Manufacturer)
Sub-Vendor (If applicable):N/A	
Inspection Location (Address):Jiaocheng County, Shanxi Province, China	Previous Inspection (If applicable):N/A (Date)
Inspection Location (GPS Coordinates):Jiaocheng County, Shanxi Province, China	Next Inspection (If applicable):N/A (Date)
Inspection performed on:Jun.27, 2024	Total No. of Inspection Days: 1

MATERIAL / SUBJECT OF INSPECTION	ITEM / TAG Nr	QTY As per P/O	QTY Offered for inspection
☐ Refer to attachment section J instead (Indicate if separate material list is provided in attachment)			
Refer to checking list	/	1923pcs	1923pcs

A – INSPECTION RESULT		
☒ Satisfactory (Without comments)	☐ Satisfactory with comments (Any of trailing Punch or Non Conformity items is still open)	☐ Not Satisfactory (NCR raised during the inspection)
Inspection Summary: (for details refer to section E) BV inspector performed the following inspection randomly as client requirement, The result was acceptable. 1. Dimensional check 2. Witness water pressure test 3. Coating thickness check 4. Witness mechanical performance testing 5. Document review		
Open Non Conformities:	☐ Yes, details in section G	☒ No
Open Punch List Items:	☐ Yes, details in section H	☒ No
Release Note Issued:	☐ Yes, number(s): (Release Note number)	☒ No
BV Traceability Stamping:	☐ Yes,	☒ No



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BV Inspector: Gao Yanbin (Name and Signature)	BV Coordinator: (Name and Signature)	
BV Office: Shanghai	Inspection Report Date: Jun.27, 2024	
Distribution: ☒ CLIENT ☒ BV ☐ MANUFACTURER ☐ OTHER:	Attachments Report: ☐ Yes, details in section J ☒ No	

B - REFERENCE DOCUMENTATION:					
☐ Refer to attachment section J instead (Indicate if separate document list is provided in attachment)					
Title	Reference n°	Rev.	Approval status	Approved by	Date
Ductile iron pipes,fittings,accessories and their joints for water applications	ISO2531	/	As final	ISO	2009

C – ATTENDEES		
Name	Position	Representing
Gao Yanbin	Inspector	BV
MS.Li	Manufacturer	HEBEI YONGQIAN TRADING CO.,LTD.

D - MEASURING & TESTING EQUIPMENT USED			
☐ Refer to attachment section J instead (Indicate if separate equipment list is provided in attachment)			
Equipment Type	Equipment Identity n°	Last Calibration Date	Expiry Date
Vernier caliper(0-300mm)	320905	2024.02.23	2025.02.22
Universal testing machine	38	2024.02.23	2025.02.22
Coating thickness gauge	K00315100813	2024.02.23	2025.02.22

E - INSPECTION DETAILS
E – General
According to the client's requirement, BV inspector performed the inspections for Ductile iron pipe fittings at HEBEI YONGQIAN TRADING CO.,LTD. The result is acceptable.
E1 – Details of Witness (W) & Hold (H) Inspection Points



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When the BV inspector arrived at the manufacturer, all the productions were ready for inspection.

The inspection scope and result as below :

1. Dimensional check

BV inspector performed the dimension check for the Ductile iron pipe fittings according to the drawing including Ductile iron pipe fittings OD/ID/Thickness/Length and so on. There were total of 56 specifications of ductile iron pipe fittings in this batch, and one piece of each specification is randomly selected for inspection. The result was acceptable.

The details are as follows: (unit: mm)

Table 1

ITEM	Description	OD	PCD	Dia of hole	Height
1	CODO HD BRIDADO DN50 mmX 45° ISO PN16	165.2 165.3	125.0 125.3	19.0 19.0	151.0
2	CODO HD BRIDADO DN80mm X45° ISO PN16	200.3 200.2	160.2 160.3	19.0 19.0	131.0
3	CODO HD BRIDADO DN 100mm X45° ISO PN16	220.5 220.3	180.2 180.2	19.0 19.0	140.9
4	CODO HD BRIDADO DN 150mm X45° ISO PN16	285.5 285.6	240.3 240.3	23.0 23.0	160.8
5	CODO HD BRIDADO DN 200mm X45° ISO PN16	340.3 340.5	295.2 259.3	23.0 23.0	180.5
6	CODO HD BRIDADO DN 250mm X45° ISO PN16	400.2 400.4	355.2 355.2	28.0 28.0	350.7
7	CODO HD BRIDADO DN 300mm X45° ISO PN16	455.2 455.4	410.0 410.2	28.0 28.0	400.8
8	CODO HD BRIDADO DN50 mmX 90° ISO PN16	165.2 165.3	125.0 125.3	19.0 19.0	150.5
9	CODO HD BRIDADO DN80mm X90° ISO PN16	200.3 200.2	160.2 160.3	19.0 19.0	165.9
10	CODO HD BRIDADO DN 100mm X90° ISO PN16	220.5 220.3	180.2 180.2	19.0 19.0	180.5
11	CODO HD BRIDADO DN 150mm X90° ISO PN16	285.5 285.6	240.3 240.3	23.0 23.0	221.0
12	CODO HD BRIDADO DN 200mm X90° ISO PN16	340.3 340.5	295.2 259.3	23.0 23.0	260.7
13	CODO HD BRIDADO DN 250mm X90° ISO PN16	400.2 400.4	355.2 355.2	28.0 28.0	350.8



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14	CODO HD BRIDADO DN 300mm X90° ISO PN16	455.2 455.4	410.0 410.2	28.0 28.0	400.5
15	REDUCCIÓN HD BRIDADO DN80 A DN50, ISO PN16	200.5 165.3	160.2 125.1	19.0 19.0	200.7
16	REDUCCIÓN HD BRIDADO DN100 A DN50, ISO PN16	220.4 165.4	180.1 125.2	19.0 19.0	301.0
17	REDUCCIÓN HD BRIDADO DN100 A DN80, ISO PN16	220.5 200.3	180.2 160.0	19.0 19.0	200.9
18	REDUCCIÓN HD BRIDADO DN150 A DN50, ISO PN16	285.5 165.3	240.4 125.5	23.0 19.0	170.7
19	REDUCCIÓN HD BRIDADO DN150 A DN80, ISO PN16	285.0 200.4	240.2 160.3	23.0 19.0	401.0
20	REDUCCIÓN HD BRIDADO DN150 A DN100, ISO PN16	285.3 220.2	240.2 180.1	23.0 19.0	300.6
21	REDUCCIÓN HD BRIDADO DN200 A DN100, ISO PN16	340.5 220.5	295.3 180.2	23.0 19.0	601.0
22	REDUCCIÓN HD BRIDADO DN200 A DN150, ISO PN16	340.0 285.5	295.1 240.0	23.0 23.0	300.5
23	REDUCCIÓN HD BRIDADO DN250 A DN100, ISO PN16	400.5 220.3	355.3 180.0	28.0 19.0	601.0
24	REDUCCIÓN HD BRIDADO DN250 A DN150, ISO PN16	400.5 285.5	355.0 240.2	28.0 23.0	600.8
25	REDUCCIÓN HD BRIDADO DN250 A DN200, ISO PN16	400.3 340.3	355.1 295.2	28.0 23.0	300.5
26	REDUCCIÓN HD BRIDADO DN300 A DN150, ISO PN16	455.2 285.0	410.2 240.1	28.0 23.0	600.6
27	REDUCCIÓN HD BRIDADO DN300 A DN200, ISO PN16	455.2 340.2	410.0 295.2	28.0 23.0	600.5
28	REDUCCIÓN HD BRIDADO DN300 A DN250, ISO PN16	455.5 400.3	410.2 355.1	28.0 28.0	300.4
29	TEE HD BRIDADO DN50mm X DN50 mm, ISO PN16	165.0 165.1 165.1	125.2 125.0 125.0	19.0 19.0 19.0	300.7
30	TEE HD BRIDADO DN80mm X DN50 mm, ISO PN16	200.0 200.2 165.3	160.3 160.5 125.2	19.0 19.0 19.0	331.0
31	TEE HD BRIDADO DN80mm X DN80 mm, ISO PN16	200.2 200.2 200.5	160.0 160.2 160.2	19.0 19.0 19.0	330.5
32	TEE HD BRIDADO DN100mm X DN50 mm, ISO PN16	220.3 220.2 165.3	180.5 180.3 125.3	19.0 19.0 19.0	360.3



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33	TEE HD BRIDADO DN100mm X DN80 mm, ISO PN16	220.5 220.5 200.3	180.3 180.3 160.2	19.0 19.0 19.0	360.9
34	TEE HD BRIDADO DN100mm X DN100 mm, ISO PN16	220.0 220.2 220.2	180.0 180.0 180.1	19.0 19.0 19.0	360.5
35	TEE HD BRIDADO DN150mm X DN50 mm, ISO PN16	285.2 285.3 165.2	240.3 240.3 125.1	23.0 23.0 19.0	441.0
36	TEE HD BRIDADO DN150mm X DN80 mm, ISO PN16	285.3 285.3 200.1	240.2 240.2 160.2	23.0 23.0 19.0	441.0
37	TEE HD BRIDADO DN150mm X DN100 mm, ISO PN16	285.4 285.3 220.2	240.0 240.1 180.2	23.0 23.0 19.0	440.3
38	TEE HD BRIDADO DN150mm X DN150 mm, ISO PN16	285.2 285.3 285.3	240.0 240.0 240.2	23.0 23.0 23.0	441.0
39	TEE HD BRIDADO DN200mm X DN50 mm, ISO PN16	340.0 340.0 165.3	295.3 295.2 125.2	23.0 23.0 19.0	521.0
40	TEE HD BRIDADO DN200mm X DN80 mm, ISO PN16	340.2 340.3 200.2	295.3 295.3 160.2	23.0 23.0 19.0	521.0
41	TEE HD BRIDADO DN200mm X DN100 mm, ISO PN16	340.0 340.0 220.1	295.3 295.2 180.0	23.0 23.0 19.0	520.2
42	TEE HD BRIDADO DN200mm X DN150 mm, ISO PN16	340.2 340.1 285.1	295.2 295.3 240.1	23.0 23.0 23.0	520.8
43	TEE HD BRIDADO DN200mm X DN200 mm, ISO PN16	340.0 340.2 340.3	295.2 295.2 295.1	23.0 23.0 23.0	521.0
44	TEE HD BRIDADO DN250mm X DN80 mm, ISO PN16	400.3 400.5 200.4	355.2 355.3 160.2	28.0 28.0 19.0	701.0
45	TEE HD BRIDADO DN250mm X DN100 mm, ISO PN16	400.3 400.3 220.1	355.1 355.2 180.3	28.0 28.0 19.0	700.8
46	TEE HD BRIDADO DN250mm X DN150 mm, ISO PN16	400.5 400.3 285.3	355.2 355.3 240.2	28.0 28.0 23.0	701.0
47	TEE HD BRIDADO DN250mm X DN200 mm, ISO PN16	400.2 400.3 340.1	355.3 355.1 295.0	28.0 28.0 23.0	700.5
48	TEE HD BRIDADO DN250mm X DN250 mm, ISO PN16	400.1 400.2 400.2	355.1 355.1 355.2	28.0 28.0 28.0	701.0
49	TEE HD BRIDADO DN300mm X DN50 mm, ISO PN16	455.5 455.3 165.2	410.2 410.3 125.2	28.0 28.0 19.0	800.5
50	TEE HD BRIDADO DN300mm X DN80 mm, ISO PN16	455.2 455.5 200.3	410.1 410.2 160.3	28.0 28.0 19.0	800.5
51	TEE HD BRIDADO DN300mm X DN100 mm, ISO PN16	455.2 455.2 220.3	410.3 410.3 180.2	28.0 28.0 19.0	800.9



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52	TEE HD BRIDADO DN300mm X DN150 mm, ISO PN16	455.3 455.3 285.3	410.2 410.2 240.1	28.0 28.0 23.0	801.0
53	TEE HD BRIDADO DN300mm X DN200 mm, ISO PN16	455.1 455.5 340.2	410.2 410.3 295.2	28.0 28.0 23.0	801.0
54	TEE HD BRIDADO DN300mm X DN250 mm, ISO PN16	455.2 455.3 340.1	410.2 410.4 355.1	28.0 28.0 28.0	801.1
55	TEE HD BRIDADO DN300mm X DN300 mm, ISO PN16	455.5 455.5 455.3	410.2 410.2 410.0	28.0 28.0 28.0	800.8
56	TEE HD BRIDADO DN350mm X DN350 mm, ISO PN16	520.2 520.1 520.5	470.1 470.1 470.3	28.0 28.0 28.0	850.6

2. Witness water pressure test

BV inspector witnessed the factory conducting a water pressure test on one ductile iron pipe fitting of each specification. The result was acceptable.

The details are as follows:

Table 2

ITEM	Description	Water pressure	Time	QTY	Result
1	CODO HD BRIDADO DN50 mmX 45° ISO PN16	2.5Mpa	15Sec	1	Accept
2	CODO HD BRIDADO DN80mm X45° ISO PN16	2.5Mpa	15Sec	1	Accept
3	CODO HD BRIDADO DN 100mm X45° ISO PN16	2.5Mpa	15Sec	1	Accept
4	CODO HD BRIDADO DN 150mm X45° ISO PN16	2.5Mpa	15Sec	1	Accept
5	CODO HD BRIDADO DN 200mm X45° ISO PN16	2.5Mpa	15Sec	1	Accept
6	CODO HD BRIDADO DN 250mm X45° ISO PN16	2.5Mpa	15Sec	1	Accept
7	CODO HD BRIDADO DN 300mm X45° ISO PN16	2.5Mpa	15Sec	1	Accept
8	CODO HD BRIDADO DN50 mmX 90° ISO PN16	2.5Mpa	15Sec	1	Accept
9	CODO HD BRIDADO DN80mm X90° ISO PN16	2.5Mpa	15Sec	1	Accept
10	CODO HD BRIDADO DN 100mm X90° ISO PN16	2.5Mpa	15Sec	1	Accept
11	CODO HD BRIDADO DN 150mm X90° ISO PN16	2.5Mpa	15Sec	1	Accept
12	CODO HD BRIDADO DN 200mm X90° ISO PN16	2.5Mpa	15Sec	1	Accept
13	CODO HD BRIDADO DN 250mm X90° ISO PN16	2.5Mpa	15Sec	1	Accept
14	CODO HD BRIDADO DN 300mm X90° ISO PN16	2.5Mpa	15Sec	1	Accept
15	REDUCCIÓN HD BRIDADO DN80 A DN50, ISO PN16	2.5Mpa	15Sec	1	Accept



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16	REDUCCIÓN HD BRIDADO DN100 A DN50, ISO PN16	2.5Mpa	15Sec	1	Accept
17	REDUCCIÓN HD BRIDADO DN100 A DN80, ISO PN16	2.5Mpa	15Sec	1	Accept
18	REDUCCIÓN HD BRIDADO DN150 A DN50, ISO PN16	2.5Mpa	15Sec	1	Accept
19	REDUCCIÓN HD BRIDADO DN150 A DN80, ISO PN16	2.5Mpa	15Sec	1	Accept
20	REDUCCIÓN HD BRIDADO DN150 A DN100, ISO PN16	2.5Mpa	15Sec	1	Accept
21	REDUCCIÓN HD BRIDADO DN200 A DN100, ISO PN16	2.5Mpa	15Sec	1	Accept
22	REDUCCIÓN HD BRIDADO DN200 A DN150, ISO PN16	2.5Mpa	15Sec	1	Accept
23	REDUCCIÓN HD BRIDADO DN250 A DN100, ISO PN16	2.5Mpa	15Sec	1	Accept
24	REDUCCIÓN HD BRIDADO DN250 A DN150, ISO PN16	2.5Mpa	15Sec	1	Accept
25	REDUCCIÓN HD BRIDADO DN250 A DN200, ISO PN16	2.5Mpa	15Sec	1	Accept
26	REDUCCIÓN HD BRIDADO DN300 A DN150, ISO PN16	2.5Mpa	15Sec	1	Accept
27	REDUCCIÓN HD BRIDADO DN300 A DN200, ISO PN16	2.5Mpa	15Sec	1	Accept
28	REDUCCIÓN HD BRIDADO DN300 A DN250, ISO PN16	2.5Mpa	15Sec	1	Accept
29	TEE HD BRIDADO DN50mm X DN50 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
30	TEE HD BRIDADO DN80mm X DN50 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
31	TEE HD BRIDADO DN80mm X DN80 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
32	TEE HD BRIDADO DN100mm X DN50 mm, ISO PN16	2.5Mpa	15Sec	1	Accept



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33	TEE HD BRIDADO DN100mm X DN80 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
34	TEE HD BRIDADO DN100mm X DN100 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
35	TEE HD BRIDADO DN150mm X DN50 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
36	TEE HD BRIDADO DN150mm X DN80 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
37	TEE HD BRIDADO DN150mm X DN100 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
38	TEE HD BRIDADO DN150mm X DN150 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
39	TEE HD BRIDADO DN200mm X DN50 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
40	TEE HD BRIDADO DN200mm X DN80 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
41	TEE HD BRIDADO DN200mm X DN100 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
42	TEE HD BRIDADO DN200mm X DN150 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
43	TEE HD BRIDADO DN200mm X DN200 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
44	TEE HD BRIDADO DN250mm X DN80 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
45	TEE HD BRIDADO DN250mm X DN100 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
46	TEE HD BRIDADO DN250mm X DN150 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
47	TEE HD BRIDADO DN250mm X DN200 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
48	TEE HD BRIDADO DN250mm X DN250 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
49	TEE HD BRIDADO DN300mm X DN50 mm, ISO PN16	2.5Mpa	15Sec	1	Accept



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50	TEE HD BRIDADO DN300mm X DN80 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
51	TEE HD BRIDADO DN300mm X DN100 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
52	TEE HD BRIDADO DN300mm X DN150 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
53	TEE HD BRIDADO DN300mm X DN200 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
54	TEE HD BRIDADO DN300mm X DN250 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
55	TEE HD BRIDADO DN300mm X DN300 mm, ISO PN16	2.5Mpa	15Sec	1	Accept
56	TEE HD BRIDADO DN350mm X DN350 mm, ISO PN16	1.6Mpa	15Sec	1	Accept

3. Coating thickness check

BV inspector witnessed the factory conducting a coating thickness inspection on the surface of ductile iron pipe fittings. There are a total of 56 specifications of ductile iron cast steel pipes in this batch, and one piece of each specification is randomly selected for inspection. The surface coating thickness is greater than 250um. The result is acceptable.

4. Witness mechanical performance testing

BV inspector witnessed the mechanical performance testing of 5 batches of samples. The sample is prepared by the manufacturer. The result is acceptable.

The details are as follows:

Table 3

MATERIAL	Heat No.	Rm(MPa) ≥420	A(%)≥5	HBW≤250
GGG500-7	2024051902	528	12.0	208
	2024052003	550	14.0	219
	2024052203	523	12.4	197
	2024052402	520	13.0	193
	2024052602	508	13.8	184

5. Document review



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BV inspection to review 100% Mill Inspection Report according to specification, the result was acceptable.

E2 – Details of Monitoring and Surveillance Patrols

☐ Tick if conducted during the visit

➤ Results of Inspection steps

No.	BV Scope of Work	Satisfactory	Unsatisfactory	Findings
1	Dimensional check	☒	☐	/
2	Witness water pressure test	☒	☐	/
3	Coating thickness check	☒	☐	/
4	Witness mechanical performance testing	☒	☐	/
5	Document review	☒	☐	/

The inspection result was satisfactory.

E3 – Details of Certificates Review

☐ Tick if conducted during the visit

BV inspector reviewed the calibration certificate of measuring tool instrument and found that it was acceptable within the validity period.

F – HEALTH, SAFETY & ENVIRONMENT COMMENTS

(Comment on Observations and Actions Taken During the Inspection)

1. Comply with Bureau Veritas Cardinal Safety Rules.
2. Wear the required PPE for the work.
3. Respect and comply with the customer safety rules when presented.
4. Conduct “2 minutes for safety” when entering working site and confirm safety consideration to the customer.

G- NON CONFORMITIES

☐ Refer to attachment section J instead

(Indicate if separate punch list is provided in attachment)

Item	Description	Status	Raised on	Report Nr.	Closed on	Report Nr.	Comments
/	/	/	/	/	/	/	



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H – PUNCH LIST ITEMS							
☐ Refer to attachment section J instead <i>(Indicate if separate punch list is provided in attachment)</i>							
Item	Description	Status	Raised on	Report Nr.	Closed on	Report Nr.	Comments
/	/	/	/	/	/	/	

I - DIGITAL PICTURES

	
Description: Dimensional check	Description: Dimensional check
	
Description: Dimensional check	Description: Dimensional check



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Description: Dimensional check		Description: Dimensional check
		
Description:Witness water pressure test		Description:Witness water pressure test
		
Description:Witness water pressure test		Description:Witness water pressure test



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	Description:Witness water pressure test	
	Description:Witness water pressure test	
	Description: Coating thickness check	
	Description:Coating thickness check	
	Description: Coating thickness check	
	Description:Coating thickness check	



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Description: Coating thickness check	Description:Witness testing	
		
Description:Witness tensile testing	Description:Witness tensile testing	
		
Description:Witness hardness testing	Description:Witness hardness testing	



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J – ATTACHMENTS			
Item	Attachment Name	Total Pages	Description
1	Attachmen1-Mill Inspection Report	3	Mill Inspection Report

Annex: Checking List

ITEM	Description	Length mm	Heat number	QTY pcs
1	CODO HD BRIDADO DN50 mmX 45° ISO PN16	150	2024051902	100
2	CODO HD BRIDADO DN80mm X45° ISO PN16	130	2024051902	80
3	CODO HD BRIDADO DN 100mm X45° ISO PN16	140	2024051902	120
4	CODO HD BRIDADO DN 150mm X45° ISO PN16	160	2024051902	80
5	CODO HD BRIDADO DN 200mm X45° ISO PN16	180	2024051902	30
6	CODO HD BRIDADO DN 250mm X45° ISO PN16	350	2024051902	10
7	CODO HD BRIDADO DN 300mm X45° ISO PN16	400	2024051902	6
8	CODO HD BRIDADO DN50 mmX 90° ISO PN16	150	2024051902	200
9	CODO HD BRIDADO DN80mm X90° ISO PN16	165	2024051902	100
10	CODO HD BRIDADO DN 100mm X90° ISO PN16	180	2024052003	250
11	CODO HD BRIDADO DN 150mm X90° ISO PN16	220	2024052003	80
12	CODO HD BRIDADO DN 200mm X90° ISO PN16	260	2024052003	40
13	CODO HD BRIDADO DN 250mm X90° ISO PN16	350	2024052003	20
14	CODO HD BRIDADO DN 300mm X90° ISO PN16	400	2024052003	8
15	REDUCCIÓN HD BRIDADO DN80 A DN50, ISO PN16	200	2024052003	40
16	REDUCCIÓN HD BRIDADO DN100 A DN50, ISO PN16	300	2024052003	50
17	REDUCCIÓN HD BRIDADO DN100 A DN80, ISO PN16	200	2024052003	30
18	REDUCCIÓN HD BRIDADO DN150 A DN50, ISO PN16	170	2024052003	20
19	REDUCCIÓN HD BRIDADO DN150 A DN80, ISO PN16	400	2024052003	15
20	REDUCCIÓN HD BRIDADO DN150 A DN100, ISO PN16	300	2024052203	25
21	REDUCCIÓN HD BRIDADO DN200 A DN100, ISO PN16	600	2024052203	20
22	REDUCCIÓN HD BRIDADO DN200 A DN150, ISO PN16	300	2024052203	10
23	REDUCCIÓN HD BRIDADO DN250 A DN100, ISO PN16	600	2024052203	20



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24	REDUCCIÓN HD BRIDADO DN250 A DN150, ISO PN16	600	2024052203	10
25	REDUCCIÓN HD BRIDADO DN250 A DN200, ISO PN16	300	2024052203	5
26	REDUCCIÓN HD BRIDADO DN300 A DN150, ISO PN16	600	2024052203	3
27	REDUCCIÓN HD BRIDADO DN300 A DN200, ISO PN16	600	2024052203	3
28	REDUCCIÓN HD BRIDADO DN300 A DN250, ISO PN16	300	2024052203	3
29	TEE HD BRIDADO DN50mm X DN50 mm, ISO PN16	300	2024052203	30
30	TEE HD BRIDADO DN80mm X DN50 mm, ISO PN16	330	2024052203	40
31	TEE HD BRIDADO DN80mm X DN80 mm, ISO PN16	330	2024052203	40
32	TEE HD BRIDADO DN100mm X DN50 mm, ISO PN16	360	2024052203	50
33	TEE HD BRIDADO DN100mm X DN80 mm, ISO PN16	360	2024052203	15
34	TEE HD BRIDADO DN100mm X DN100 mm, ISO PN16	360	2024052203	100
35	TEE HD BRIDADO DN150mm X DN50 mm, ISO PN16	440	2024052402	50
36	TEE HD BRIDADO DN150mm X DN80 mm, ISO PN16	440	2024052402	10
37	TEE HD BRIDADO DN150mm X DN100 mm, ISO PN16	440	2024052402	12
38	TEE HD BRIDADO DN150mm X DN150 mm, ISO PN16	440	2024052402	50
39	TEE HD BRIDADO DN200mm X DN50 mm, ISO PN16	520	2024052402	15
40	TEE HD BRIDADO DN200mm X DN80 mm, ISO PN16	520	2024052402	6
41	TEE HD BRIDADO DN200mm X DN100 mm, ISO PN16	520	2024052402	6
42	TEE HD BRIDADO DN200mm X DN150 mm, ISO PN16	520	2024052402	5
43	TEE HD BRIDADO DN200mm X DN200 mm, ISO PN16	520	2024052402	30
44	TEE HD BRIDADO DN250mm X DN80 mm, ISO PN16	700	2024052402	5
45	TEE HD BRIDADO DN250mm X DN100 mm, ISO PN16	700	2024052402	5
46	TEE HD BRIDADO DN250mm X DN150 mm, ISO PN16	700	2024052402	5
47	TEE HD BRIDADO DN250mm X DN200 mm, ISO PN16	700	2024052402	5
48	TEE HD BRIDADO DN250mm X DN250 mm, ISO PN16	700	2024052402	10
49	TEE HD BRIDADO DN300mm X DN50 mm, ISO PN16	800	2024052602	10
50	TEE HD BRIDADO DN300mm X DN80 mm, ISO PN16	800	2024052602	5
51	TEE HD BRIDADO DN300mm X DN100 mm, ISO PN16	800	2024052602	10
52	TEE HD BRIDADO DN300mm X DN150 mm, ISO PN16	800	2024052602	5
53	TEE HD BRIDADO DN300mm X DN200 mm, ISO PN16	800	2024052602	5
54	TEE HD BRIDADO DN300mm X DN250 mm, ISO PN16	800	2024052602	5



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55	TEE HD BRIDADO DN300mm X DN300 mm, ISO PN16	800	2024052602	8
56	TEE HD BRIDADO DN350mm X DN350 mm, ISO PN16	850	2024052602	8

END OF REPORT
