



QUALITY CERTIFICATE

PS07/F2
Rev.15

PURCHASER PETROCHEM
PO.NR PO0119345

DATE 31/01/25
JC Ref. JCB2500513



CERT NO 2-60306
ISSUED 21/02/25

JC Fábrica de Válvulas S.A.U. (JCFV S.A.U) CERTIFIES that the manufacture of the valves and/or fittings mentioned, delivered on account of your referenced order, has been fulfilled according to the specifications indicated.

PRODUCT DESCRIPTION

PRODUCT TYPE V.B. SIDE ENTRY FLOATING. ASME. SOFT	SIZE 4"	ENDS RF
ARTICLE 515QIIF100	BORE FULL BORE	ITEM 1
DESIGN STD , EN ISO 17292	CLASS 150#	QTY 3

TYPE MATERIAL

BODY	ASTM A351 GR. CF8M(-100)	CONNECTOR	ASTM A351 GR. CF8M(-100)
BALL	ASTM A182 GR. F316	STEM	ASTM A182 GR. F51
SEAT	TFM	GASKET	316L+PTFE+GRAPHITE
PACKING	GRAPHITE	O-RING	-
NUT	N/A	BOLT/STUD	ASTM A193 GR.B8M CL.1

TEST DESCRIPTION

TESTING STANDARD EN 12266-1, API 598, API 6D
HYDRAULIC (BARG) SHELL: 30

JC STANDARD PS07/11

OTHER N/A

SEAT: 22

PNEUMATIC (BARG) SHELL: - **SEAT:** 6

- Test Results: Satisfactory, seats tightness as per leakage ISO 5208.
- Testing duration as per applicable standard.

MARKING AND TRACEABILITY OF PRESSURE RETAINING PARTS Main Pressure-retaining parts. (cert. 3.1 enclosed)

Serial. Nr.	BODY		CONNECTOR		BALL		STEM	
	Heat Nr.	Certificate Nr.	Heat Nr.	Certificate Nr.	Heat Nr.	Certificate Nr.	Heat Nr.	Certificate Nr.
2-60306-1	4D012	SH052226-1	4C103	SH052225-1	BS1-452	SH052227-1	12F804	SH052228-1
2-60306-2	4D012	SH052226-1	4C103	SH052225-1	BS1-452	SH052227-1	12F804	SH052228-1
2-60306-3	4D012	SH052226-1	4C103	SH052225-1	BS1-452	SH052227-1	12F804	SH052228-1

FOR OTHER ITEMS (CERT. 2.2 NON-ENCLOSED)

COMPONENT	HEAT N°	CERTIFICATE N°	COMPONENT	HEAT N°	CERTIFICATE N°
SEAT	-	6874093	GASKET	-	749/20 - 19-1904
PACKING	-	297/23	O-RING	-	-
NUT	-	-	BOLT/STUD	-	34981.1

TAGS/CODE/CUSTOMER REFERENCES

-

REMARKS

-

NOTES

Fire Safe design tested acc. API 6FA, ISO 10497, API 607 / These supply materials are in accordance with NACE MR0175/ISO15156 & NACE MR0103/ISO17945 / Visual and control dimensional results satisfactory as per GAD / Marking according MSS SP-25.

EU DECLARATION OF CONFORMITY

JC FÁBRICA DE VÁLVULAS S.A.U. DECLARES THAT:

The referred ball valves, classified as pressure accessories, have been designed and manufactured in accordance with the requirements of the Pressure Equipment Directive 2014/68/EU and are in conformity with national implementing legislation. This declaration of conformity is issued under the sole responsibility of the manufacturer.

NOTIFIED BODY WHICH CARRIED OUT THE INSPECTION:

BUREAU VERITAS INSPECCIÓN Y TESTING, S.L. (Notified Body nr **0056**)

Camí de Ca n'Ametller, 34, 08195 Sant Cugat del Vallés - Barcelona - Spain

Reference number of the Certificate of Quality System Approval **CE-0056-PED-H1-JCV 001-23-ESP**

For Category I Notified Body is not required.

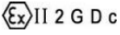
ASSESSMENT OF CONFORMITY PROCEDURE FOLLOWED

MODULE H1 of ANNEX III of DIRECTIVE 2014/68/EU

CE marking must not be affixed for SEP equipment.

The object of the declaration described above is in conformity with the relevant Union harmonization legislation:

Basics standards apply EN 12266-1:2012, API 598 ed.11, EN ISO 17292:2015, ASME B16.34-2020, ASME B16.10-2022, ASME B16.5-2020, ASME B16.25-2022, EN 558-2022, API 6D ed.25 and all its addendums, API 600 ed.14, API 6FA ed.5, ISO 10497:2022, API 607 ed.8, EN 1983:2013, ISO 5211:2023, AD 2000-Merkblatt W0/A4. For specific standards of each figure type, please see JC datasheets.

Other DIRECTIVES that apply to this product: ATEX 2014/34/EU classification Group II Cat 2, for use in explosive atmospheres, zones 1, 2 and 21, 22. Evaluation of compliance according to appendix VIII. Marked  LCIE 05 AR 023. According UNE EN ISO 80079-36:2017, EN 1127-1:2012.

NOTE: When the JC Ball valve assembles accessories which require submittal to other Directives they will be labelled with CE mark and to the Declaration of Conformity of JC will be joined the declaration of Conformity of manufacturer of accessory.

Sant Boi (Barcelona) Spain
Cesar Abarca
CEO of Organization


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SUPPLIER: JCS

ISO 9001: APPROVED

2014/68/EU: APPROVED

P.O NO: JCB240666-8000

DATE: 05-03-2024

REVISION: 0

MATERIAL CERT NO: SH052226-1

DATE: 26-12-2024

REVISION: 1 BS EN ISO - 10204 3.1

ITEM CODE: 515QIIF
DRAWING NO: 0515100CNQ
COMPONENT: BODY
SIZE: 4"

CLASS: 150#
MATERIAL: ASTM A351 GR. CF8M(-100)
EDITION: 2018
HEAT NO: 4D012 **QTY:** 72

HEAT TREATMENT: SOLUTION 1080°CX2-2.5H+WATER COOLING.

MELTING PROCESS: INDUCTION

OTHER SPECS AGREED: 0

	CHEMICAL ANALYSIS							
	CARBON (C)	MANGANESE (MN)	SILICON (SI)	SULFUR (S)	PHOSPHORUS (P)	CHROMIUM (CR)	MOLYBDENUM (MO)	NICKEL (NI)
MIN	-	-	-	-	-	18.0	2.0	9.0
MAX	0.08	1.50	1.50	0.040	0.040	21.0	3.0	12.0
ACTUAL	0.043	1.305	1.267	0.033	0.006	19.29	2.086	9.162

	MECHANICAL PROPERTIES					
	TENSILE (UTS)	YIELD (YS)	ELONGATION (E)	REDUCTION AREA (RA)	HARDNESS TEST	IMPACT TEST @ @-100°C
	[MPA]	[MPA]	%	%	HB	JOULES
MIN	485	205	30	-	-	60
MAX	-	-	-	-	225	-
ACTUAL	546	280	50	-	171-170-171	199-205-207
AVERAGE	-	-	-	-	170.67	203.67

REMARKS

- VISUAL INSPECTION: ACCEPTED ACCORDING PS04/11 JC IT. OTHER INFORMATION: NO MAJOR REPAIRS CARRIED OUT.
- WE CERTIFY THAT THE ABOVE MATERIAL HAS BEEN MANUFACTURED AND PROCESSED ACCORDING TO REQUIREMENT OF THE ABOVE P.O.
- THE RESULTS ABOVE INDICATED ARE EXACT TRANSCRIPTION FROM THE CORRESPONDING CERTIFICATES, WHICH ARE FILED IN OUR FACTORY, ISSUED BY OUR HOMOLOGATED SUPPLIERS
- IN ACCORDANCE WITH NACE MR0175/ISO16166 & NACE MR0103/ISO17945


 (X)VISUAL INSPECTION:
 CASTING: MSS-SP55 AND PS04/11 JC IT
 FORGING: MATERIAL STANDARD APPLICABLE AND PS04/11 JC IT

SUPPLIER: JCS
ISO 9001: APPROVED
2014/68/EU: APPROVED

P.O NO: JCB240666-8000
DATE: 05-03-2024
REVISION: 0

MATERIAL CERT NO: SH052225-1
DATE: 26-12-2024
REVISION: 2 BS EN ISO - 10204 3.1

ITEM CODE: 515QIIF
DRAWING NO: 0515100LN
COMPONENT: CONNECTOR
SIZE: 4"

CLASS: 150#
MATERIAL: ASTM A351 GR. CF8M(-100)
EDITION: 2018
HEAT NO: 4C103 **QTY:** 63

HEAT TREATMENT: SOLUTION 1080°CX2-2.5H+WATER COOLING.

MELTING PROCESS: INDUCTION

OTHER SPECS AGREED: 0

	CHEMICAL ANALYSIS							
	CARBON (C)	MANGANESE (MN)	SILICON (SI)	SULFUR (S)	PHOSPHORUS (P)	CHROMIUM (CR)	MOLYBDENUM (MO)	NICKEL (NI)
MIN	-	-	-	-	-	18.0	2.0	9.0
MAX	0.08	1.50	1.50	0.040	0.040	21.0	3.0	12.0
ACTUAL	0.043	1.305	1.267	0.033	0.006	19.29	2.086	9.162

	MECHANICAL PROPERTIES					
	TENSILE (UTS)	YIELD (YS)	ELONGATION (E)	REDUCTION AREA (RA)	HARDNESS TEST	IMPACT TEST @ @-100°C
	[MPA]	[MPA]	%	%	HB	JOULES
MIN	485	205	30	-	-	60
MAX	-	-	-	-	225	-
ACTUAL	546	280	50	-	171-170-171	199-205-207
AVERAGE	-	-	-	-	170.67	203.67

REMARKS

- VISUAL INSPECTION: ACCEPTED ACCORDING PS04/11 JC IT. OTHER INFORMATION: NO MAJOR REPAIRS CARRIED OUT.
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(X)VISUAL INSPECTION:
CASTING: MSS-SP55 AND PS04/11 JC IT
FORGING: MATERIAL STANDARD APPLICABLE AND PS04/11 JC IT

SUPPLIER: JCS

ISO 9001: APPROVED

2014/68/EU: APPROVED

P.O NO: JCB240666-8000

DATE: 05-03-2024

REVISION: 0

MATERIAL CERT NO: SH052227-1

DATE: 16-10-2024

REVISION: 0 BS EN ISO - 10204 3.1

ITEM CODE: 515QIIF
DRAWING NO: 00800311
COMPONENT: BALL
SIZE: 4"

CLASS: 150#
MATERIAL: ASTM A182 GR. F316
EDITION: 2023
HEAT NO: BS1-452 **QTY:** 15

HEAT TREATMENT: SOLUTION 1050°CX3H+WATER COOLING.

MELTING PROCESS: INDUCTION

OTHER SPECS AGREED: 0

CHEMICAL ANALYSIS

	CARBON (C)	MANGANESE (MN)	SILICON (SI)	SULFUR (S)	PHOSPHORUS (P)	CHROMIUM (CR)	MOLYBDENUM (MO)	NICKEL (NI)	NITROGEN (N)
MIN	-	-	-	-	-	16.00	2.00	10.00	-
MAX	0.08	2.00	1.00	0.03	0.045	18.00	3.00	14.00	0.10
ACTUAL	0.012	1.035	0.40	0.0015	0.03	16.75	2.01	10.038	0.042

MECHANICAL PROPERTIES

	TENSILE (UTS)	YIELD (YS)	ELONGATION (E)	REDUCTION AREA (RA)	HARDNESS TEST	IMPACT TEST @ @-50°C
	[MPA]	[MPA]	%	%	HB	JOULES
MIN	515	205	30	50	-	60
MAX	-	-	-	-	237	-
ACTUAL	580	272	65	71	168-175-173	--
AVERAGE	-	-	-	-	172.00	

REMARKS

- VISUAL INSPECTION: ACCEPTED ACCORDING PS04/11 JC IT. OTHER INFORMATION: NO MAJOR REPAIRS CARRIED OUT.
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 (X)VISUAL INSPECTION:
 CASTING: MSS-SP55 AND PS04/11 JC IT
 FORGING: MATERIAL STANDARD APPLICABLE AND PS04/11 JC IT

SUPPLIER: JCS

ISO 9001: APPROVED

2014/68/EU: APPROVED

P.O NO: JCB240666-8000

DATE: 05-03-2024

REVISION: 0

MATERIAL CERT NO: SH052228-1

DATE: 16-10-2024

REVISION: 0 BS EN ISO - 10204 3.1

ITEM CODE: 515QIIF
DRAWING NO: 054100EQ
COMPONENT: STEM
SIZE: 4"

CLASS: 150#
MATERIAL: ASTM A182 GR. F51
EDITION: 2023
HEAT NO: 12F804 **QTY:** 15

HEAT TREATMENT: SOLUTION 1040°CX4H+WATER COOLING.

MELTING PROCESS: INDUCTION

OTHER SPECS AGREED: 0

	CHEMICAL ANALYSIS								
	CARBON (C)	MANGANESE (MN)	SILICON (SI)	SULFUR (S)	PHOSPHORUS (P)	CHROMIUM (CR)	MOLYBDENUM (MO)	NICKEL (NI)	NITROGEN (N)
MIN	-	-	-	-	-	21.0	2.50	4.50	0.08
MAX	0.03	2.00	1.00	0.02	0.03	23.00	3.50	6.50	0.20
ACTUAL	0.015	1.29	0.41	0.001	0.029	22.34	3.08	4.82	0.182

	MECHANICAL PROPERTIES					
	TENSILE (UTS)	YIELD (YS)	ELONGATION (E)	REDUCTION AREA (RA)	HARDNESS TEST	IMPACT TEST @
	[MPA]	[MPA]	%	%	HB	JOULES
MIN	620	450	25	45	-	-
MAX	-	-	-	-	336	-
ACTUAL	735	576	30	62	260-252-256	--
AVERAGE	-	-	-	-	256.00	

REMARKS

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