QUALITY CERTIFICATE Nº PV23089

GENERAL INFORMATION:

DATE: 10/05/2023
CERTIFICATION: **QUALITY OF COMPLIANCE FOR MATERIAL EN 10204 3.1**
REF.: 22083123- 1 1/2”
Serial number: **G07060181 /G07060188 / G07060186 / G07060185**

CUSTOMER: PONTONES GUILLAMON, S.L. **REF.** 2300000638
MANUFACTURER: ENGINEERING FLUID SOLUTIONS S.L. **REF.** PV23089

EQUIPMENT DESCRIPTION / TYPE CERTIFICATE EN 10204 3.1:

QUANTITY: 4 SET
PRODUCT NAME: Válvula de bola 3pcs paso total cuerpo A8905A asiento RPTFE palanca 800# SW 1 1/2" HSCODE:84818081

SIZE: SIZE: 1 1/2“
MATERIAL: BODY: A8905A

PRESSURE TEST RECORD
Test standard API 598

SERIAL Nº	QT	SHELL TEST (Hydraulic test)		SEAT TEST (Hydraulic test)		Seat test (Air test)	
		Medium water		Medium water		Medium air	
		Mpa	Q pcs	Mpa	Q pcs	Mpa	Q pcs
G07060181	1	20.5	1	15	1	0,6	1
G07060188	1	20.5	1	15	1	0,6	1
G07060186	1	20.5	1	15	1	0,6	1
G07060185	1	20.5	1	15	1	0,6	1

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MATERIAL TEST CERTIFICATE

EN 10204-3.1

Serial No.	Description	Product Code	QTY	Purchaser	Page
G07060181 G07060188, G07060186 G07060185	BALL V AL VE,NPT ENDS,3PC 800LB BODY/BONNET:5A,BALL/STEM: F53 LEVER OP.	Q11F-800LB-1 1/2"	4 SETS	EFS ENINEERING FLUID SOLUTIONS REF.: 22083123. PO Nº: PV23089	1/1

CHEMICAL ANALYSIS AND PHYSICAL PROPERTIES CERTIFIATE EN 10204-3.1

Part Name	Material	Heat No.	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	N	Fe	Tensile Strength MPa	Yield Point MPa	Elongation δ%	Dimension
Body	5A	W1H07	0.018	0.76	0.74	0.032	0.013	25.40	7.64	4.580	\	0.210	BAL	775	528	29	Qualified
Bonnet	5A	W1H07	0.018	0.76	0.74	0.032	0.013	25.40	7.64	4.580	\	0.210	BAL	775	528	29	Qualified
Ball	F53	A21069	0.020	0.51	0.92	0.027	0.006	24.30	6.20	3.30	0.217	0.26	BAL	845	612	26	Qualified
Stem	F53	A21069	0.020	0.51	0.92	0.027	0.006	24.30	6.20	3.30	0.217	0.26	BAL	845	612	26	Qualified

Visual Inspection	Pressure Test					Test Standard	API 598-2016 10TH
						Test Duration	
	Hydrostatic Test(MPa)			Air Test(MPa)	Result	Shell	Closure
	Shell	Seat	Back Seat	Seat		≤2" :min 60 seconds	≤2" :min 60seconds
The casting surface is not obvious defects according to the MSS SP-55; The forging surface is not obvious defects according to the ASME V Article 9.	20.5	15.0	/	0.6	Qualified	2 1/2"-6" :min 60 seconds 8"-12" :min 120 seconds ≥14" :min 300 seconds	2 1/2"-6" :min 60 seconds 8"-12" :min 120 seconds ≥14" :min 120 seconds

CHEMICAL&PHYSICAL SPECIFICATIONS

Material	Standard	C	Si	Mn	P	S	Cr	Ni	Mo	Cu	N	Fe	Tensile Strength MPa	Yield Point MPa	Elongation δ%
5A	ASTM A890/A890M-2018a	Max 0.03	Max 1.00	Max 1.50	Max 0.040	Max 0.040	24.0~ 26.0	6.0~ 8.0	4.0~ 5.0	\	0.10~ 0.30	BAL	Min.690	Min.515	Min.18
F53	ASTM A182/A182M-2021\6	Max 0.03	Max 0.80	Max 1.20	Max 0.035	Max 0.020	24.0~ 26.0	6.0~ 8.0	3.0~ 5.0	Max 0.50	0.24~ 0.32	BAL	Min.800	Min.550	Min.15

We hereby certify that the materials described herein has been made in accordance to the above specification and also with requirement called for above order.

Date: 2022.10.5

efs engineering fluid solutions, s.l.
N/F: B-63559819