



0056 QUALITY CERTIFICATE
EN-10204 / 2.2

ICP Valves S.A. CERTIFIES that the manufacture of the valves and/or fittings mentioned below has been fulfilled according to the specifications indicated.

PRODUCT DESCRIPTION

Article Forged Check Valves Fig.R150RF **Size**-1/2" to 2" **Class** 150
Forged Check Valves Fig.R300RF **Size**-1/2" to 2" **Class** 300

(Size 1/2" to 1 1/4" CEmarking must not be affixed)

TYPE MATERIAL

| | | | |
|--------------------------|----------|-------------|------------|
| BODY & BONNET | A105 | SEAT | A105 + STL |
| TRIM N° | NO. 5# | BOLT | A193 B7 |
| PISTON DISC | A276 420 | | |

TEST DESCRIPTION

Testing Std.: API 548**YES**..... DIN 3230 Teil..... ICP Std**PS07/I1**.....Other.....

Class 150: Hydraulic(barg): Shell **32** Seat/Backseat **22** / Pneumatic(barg): Shell... Seat **6** / Functional.

Class 300: Hydraulic(barg): Shell **79** Seat/Backseat **56** / Pneumatic(barg): Shell... Seat **6** / Functional.

Results: Satisfactory, seats tightness as per API 598

| CHEMICAL COMPOSITION : | | | | | | | | | |
|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| C | Mn | S | P | Si | Cr | Ni | Mo | Cu | V |
| 0.217 | 0.800 | 0.012 | 0.020 | 0.430 | 0.068 | 0.009 | 0.005 | 0.046 | 0.010 |

| PHYSICAL PROPERTIES: | | | | |
|----------------------|-------------|------------|-------------------|-------|
| Yield St. 0.2% | Tensile St. | Elongation | Impact Test ISO V | T. °C |
| 327 | 516 | 29.5 | 54-62-60 | -29 |

NOTES

Visual and control dimensional results satisfactory.....**X**...

ICP Valves S.A. DECLARES that the ICP valves covered by this certificate have been designed and manufactured in accordance with the requirements of the following European Directives:

- Pressure Equipment Directive 2014/68/EU:
- Directive 2014/34/EU "ATEX", classification Group II Cat 2,

Harmonised and non-harmonised technical standards applied:

- PED: EN 10213:2007, EN 12266:2013, 10222:1998, 10204:2004, 1983:2006, 19:2002, EN ISO 17292:2004, for others, please see the ICP catalogue and ICP Instructions Manual.

Electrical and mechanical accessories are not covered by this declaration and must have their own declaration in order for them to be assembled into ICP valves.

See the corresponding Operating Manual.

Jaikanna Raghupathy
Quality Manager

Sant Boi de LI. (Barcelona), marzo 20, 2017
Purchaser inspection/Third part



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Article Forged Check Valves Fig.R150RF **Size**-1/2" to 2" **Class** 150
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(Size 1/2" to 1 1/4" CE marking must not be affixed)

TYPE MATERIAL

| | | | |
|--------------------------|------------|-------------|------------------|
| BODY & BONNET | A182 F316L | SEAT | A182 F316L + STL |
| TRIM Nº | NO. 12# | BOLT | A193 B8M |
| PISTON DISC | A182 F316L | | |

TEST DESCRIPTION

Testing Std.: API 548**YES**..... DIN 3230 Teil..... ICP Std**PS07/I1**.....Other.....

Class 150: Hydraulic(barg): Shell **32** Seat/Backseat **22** / Pneumatic(barg): Shell... Seat **6** / Functional.

Class 300: Hydraulic(barg): Shell **79** Seat/Backseat **56** / Pneumatic(barg): Shell... Seat **6** / Functional.

Results: Satisfactory, seats tightness as per API 598

| CHEMICAL COMPOSITION : | | | | | | | | |
|------------------------|-------|-------|-------|-------|-------|------|------|------|
| C | Mn | S | P | Si | Cr | Ni | Mo | Cu |
| 0.052 | 0.940 | 0.007 | 0.032 | 0.640 | 18.30 | 9.18 | 2.16 | 0.18 |

| PHYSICAL PROPERTIES: | | | | | |
|----------------------|-------------|------------|----------|-------------------|-------|
| Yield St. 0.2% | Tensile St. | Elongation | Hardness | Impact Test ISO V | T. °C |
| 237 | 539 | 39 | 141 | 123-142-141 | -50 |

NOTES

Visual and control dimensional results satisfactory.....**X**...

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