TECHNICAL DATA

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MATERIALS

Products	Material	Specifications
Gasket	Nickel	ASTM B-162
	316L Stainless steel	ASTM A-167
Nuts	316L Stainless steel	ASME SA-479, ASTM A-276
Glands, Bodies	316L Stainless steel low sulfur	Barstock: ASME SA-479, ASTM A-276
		Forgings: ASTM A-182
	VIM VAR 316L Stainless steel	Barstock: ASME SA-479, ASTM A-276
		Forgings: ASTM A-182

DIMENSIONS

Dimensions are in millimeters and in inches.
Dimensions are only for reference and are subject to change.

Size		Fractional						Metric					Jis	
		⅛″	¼″	⅜″	½″	¾″	1″	6 mm	8 mm	10 mm	12 mm	18 mm	¼″	⅜″
Nominal wall thickness	mm	0,71	0,89	0,89	1,25	1,25	1,65	1	1	1	1	1,5	1	1
	inch	0,028	0,035	0,035	0,049	0,049	0,065	0,039	0,039	0,039	0,039	0,059	0,039	0,039
Pressure ratings	PSIG	5100	5100	3300	3500	2400	2400	6800	4800	3500	3100	3000	5600	3300
	Bar	350	350	220	240	160	160	460	330	240	210	200	380	240

INTERNAL SURFACE FINISH

Grade	Surface finish		Electropolishing
	Ra µm	Ra µinch	
GP	0,15	5	Int. / Ext.
GS	0,40	16	Ext.

FULL TRACEABILITY

Laser etch marking identifies manufacturer, material, processes and surface levels.

PACKAGING

Double packing in class 10 clean room.

TECHNICAL DATA (continued)

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TESTING

Gazel fittings has been helium leak tested to a rate of 10 –10 std cm^3/sec.

PRESSURE RATINGS

Pressure ratings are calculated in accordance with power piping code ANSI B 31.1 for stainless steel fittings at ambient temperature.

MAX. TEMPERATURE

Material	Temperature	
	°C	°F
Nickel	315	600
316L Stainless steel VIM VAR and low sulfur	537	1000

PRODUCT INSPECTION AND TEST

Product inspection
- Dimensional inspection
- Internal and external visual
- Inspection
- Internal roughness measurement

The following tests are carried out at the request of customers:

- ESCA: Electron Spectroscopy for Chemical Analyses
- AES: Argon Electron Spectroscopy
- Corrosion test
- Internal fitting measurement

THREE STAR QUALITY PROCESS

- ISO 9001 Certification N°:DE-062832 Q1.
- Fully integrated processing (machining, electropolishing, decontamination, packaging, orbital welding).
- Fully traceability at all steps (SPC CAQS).
- Continuous monitoring of key process parameters.