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TITAN RESEARCH GROUP 200-1920 YONGE STREET TORONTO ON M4S 3E6 CANADA **Date:** April 20, 2022

Account #: 60267 Journal #: 79620 Our File #: 5647208

Attn: TITAN RESEARCH GROUP

Re: Application for Design Registration

The design, as detailed in your, VEGAPULS 6X, for a Fitting is accepted for registration as follows:

Registered To: VEGA GRIESHABER KG

CRN: 0F7424.1

Drawing #: SOR-PS6X page 1 to 3 **Drawing Revision:** 0(as noted)

Conditions of Registration:

Our acceptance is based on the following conditions;

- 1). The Scope of Registration document SOR-PS6X Rev. 0 was revised to remove the design pressure of -1 bar from summary table.
- 2). Further connections and material, reflected on document SOR-PS6X, shall be within the scope of this registration only.
- 3). The proof tested vessels/parts should have been in compliance with all the requirements of UG-101, including the Duplicate Parts and/or Geometrically Similar Parts.
- 4). Fitting Registration Expiry Date; April 20, 2032.
- 5). The registration is valid until the indicated expiry date only if the Manufacturer maintains a valid quality management system approved by an acceptable third-party agency until that date. Should the approval of the quality management system lapse before the expiry date indicated above, this registration shall become void.

Contact me if you have any questions. The invoice for the registration will be forwarded under separate cover.

ALIREZA BONAKDAR, P.ENG. (778) 396-2032 Alireza.Bonakdar@technicalsafetybc.ca Design Engineer

CC:

(PROD) 30400-20 GST #: 87391 2802 RT0001



SOR-PS6X, Rev. 0: Scope of Registration Summary VEGAPULS 6x

Product Assembly Type	Example Fitting Design*	Process Connection Description	Example Materials of Construction*	Maximum Design Pressure (bar) and Temperature (°C)
VEGAPULS 6X Plastic horn antenna - type code B	ASME B16.5	≥3"	PP-C PP-GF30	-1+2 bar -40 80 °C
	EN1092-1	≥DN80		
	JIS	≥DN80		
	British Standard	≥3"		

Product Assembly Type	Example Fitting Design*	Process Connection Description	Example Materials of Construction*	Maximum Design Pressure (bar) and Temperature (°C)
VEGAPULS 6X PTFE plated flanges - type code F	EN1092-1	≥DN25	316/316L -1 +25 bar Alloy C22 (2.4602) -40 +150 / 200 °C** Duplex 22 / 1.4462 Superduplex 25 / 1.4410 6MO/SMO 254 / 1.4547 PTFE PFA	-1 +25 bar
	British Standard	≥1"		-40 +150 / 200 °C**
	ASME B16.5	≥1"		
	JIS	≥DN25		
	GOST 33259-2015	≥DN25		

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SOR-PS6X, Rev. 0: Scope of Registration Summary VEGAPULS 6x

Product Assembly Type	Example Fitting Design*	Process Connection Description	Example Materials of Construction*	Maximum Design Pressure (bar) and Temperature (°C)
Metal framed lens antenna - type code C	British Standard	≥3"	316/316L -1 +3 bar -40 +150 / 200 °C Duplex 22 / 1.4462 Superduplex 25 / 1.4410 6MO/SMO 254 / 1.4547 PEEK	-1 +3 bar
	JIS	≥DN80		-40 +150 / 200 °C**
	EN1092-1	≥DN80		
	ASME B16.5	≥3"		
	GOST 33259-2015	≥DN80		
	ASME BPE	≥3"		

Product Assembly Type	Example Fitting Design*	Process Connection Description	Example Materials of Construction*	Maximum Design Pressure (bar) and Temperature (°C)
VEGAPULS 6X Threaded types - type code T	DIN3852-A ASME B1.20.1	G-Thread ≥¾" NPT ≥¾"	316/316L Alloy C22 (2.4602) Duplex 22 / 1.4462	-1 +40 bar -40 +150 / 250 °C**
71			Superduplex 25 / 1.4410 6MO/SMO 254 / 1.4547 PEEK	

^{*}Further connections and materials are possible like:

Process connections: threaded connections, pipe connections, industrial flanges according to DIN, ASME, EN, GOST, JIS or equivalent norms and industry standards.

Materials: stainless steels according to EN 100088-1 (except 1.4305) or other standards and other corrosion resistant materials, e.g. Hastelloy, Monel, Inconel, Incoloy, Tantalum.

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SOR-PS6X, Rev. 0: Scope of Registration Summary VEGAPULS 6x

**Depends on w/ or w/o rod extension, parts under pressure are identical

I the undersigned hereby confirm that the above is accurate, correct and complete,

Approved by: Matthias Kunz

Title: Product Safety Engineer

Signed:

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Date: November 29, 2021