

Information on the Pressure Equipment Directive $Promass \ 40$

The following information relates to devices which have been examined in accordance with the guidelines of the Pressure Equipment Directive 97/23/EC.

Type code

The code on the nameplate of the measuring device indicates whether the device in question has been examined in accordance with the Pressure Equipment Directive:

Type code	Definition
Promass 40E**-P/R*********	P/R = Approved in accordance with Pressure Equipment Directive, Category III

Classification

The classification of the measuring device as per Art. 3 Par. 3, Cat. I/II or III is in accordance with the PED 97/23/EC, Annex II, Tables 6 to 9.

Taking the flange-independent maximum pressure of the Promass 40E into account, the following is the maximum classification:

Dev	Device Application					
Туре	Nominal diameters	Stable gases and liquids			Unstable gases	
		Piping for gases, steams and liquids with a vapor pressure > 0.5 bar		Piping for liquids with a vapor pressure < 0.5 bar		
	DN	Group 1 fluids	Group 2 fluids	Group 1 fluids	Group 2 fluids	
Promass 40E	40 to 80	Kat. II	Kat. I	Kat. II	Art. 3 Abs. 3	Kat. III

- Group 1 fluids: explosive, flammable, toxic or oxidising media
- Group 2 fluids: non-explosive, non-flammable, non-toxic and non-oxidising media

Additional informations

All measuring devices undergo a pressure unit test with at least 1.5 times the maximum pressure rating. The test pressure, please refer to the nameplate. The sensor housing protects the inner electronics and mechanics and is filled with dry nitrogen. It does not serve as secondary containment.

A pressure of 15 bar for pressure resistance can be given as guidance for the housing.



Warning!

In case a danger of measuring tube failure exists due to process characteristics, e.g. with corrosive process fluids, a mechanical overload of the housing can occur which could lead to a housing failure and accordingly is connected with an increased danger potential. It is therefore of high importance to clarify the compatibility of process fluid with the measuring tube material and to observe the specified maximum process pressure.



Approval number

The following approval number for the type examination in accordance with Stoomwezen B.V. applies to the Promass measuring system: **PED/B/8035592**.



Note! Labeling of pressure equipment

The following additional labeling is used to make it easier to identify devices bearing the CE mark on account of the Pressure Equipment Directive:



Material load diagrams of process connections



The following material load curves refer to the entire sensor and not just the process connection.

Flange connec	tion according
to EN 1092-1 ((DIN 2501)

Flange material: 1.4404/316L



Flange connection according to ASME B16.5







Flange connection to

JIS B2220

Flange material: 1.4404/316L



Connection material: 1.4404/316L



DIN 11851 allows for applications up to +140 °C (+284 °F) if suitable sealing materials are used. Please take this into account when selecting seals and counterparts as these components can limit the pressure and temperature range.

Process connection to SMS 1145

Connection material: 1.4404/316L



SMS 1145 allows for applications up to 6 bar (87 psi) if suitable sealing materials are used. Please take this into account when selecting seals and counterparts as these components can limit the pressure and temperature range.

Tri-Clamp process connection	The Clamp connections are suited up to a maximum pressure of 16 bar (232 psi). Please observe the operating limits of the clamp and seal used as they could be under 16 bar (232 psi). The clamp and the seal are not included in the scope of supply.		
Threaded hygienic connection to DIN 11864-1 Form A	Connection material: 1.4404/316L		
	-80 -40 0 40 80 120 160 200 240 280 320 360 400 [°F]		

Flange connection to DIN 11864-2 Form A

Flange material: 1.4404/316L





Threaded hygienic connection to ISO 2853

Connection material: 1.4404/316L



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