

promag 23/50/51/53

Information on the Pressure Equipment Directive

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
Promag 23 P**-****P/R***** Promag 23 H**-****P/R***** Promag 50 W**-****P/R***** Promag 50 P**-****P/R***** Promag 50 H**-****P/R***** Promag 51 W**-****P/R***** Promag 51 P**-****P/R***** Promag 53 W**-****P/R***** Promag 53 P**-****P/R***** Promag 53 H**-****P/R*****	P/R = Approved in accordance with Pressure Equipment Directive, Category II resp. 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 Promag into account, the following is the maximum classification:

Device		Application			
Type	Nominal diameters	Liquids			
		Piping for liquids with a vapour pressure > 0.5 bar		Piping for liquids with a vapour pressure < 0.5 bar	
		Group 1 fluids	Group 2 fluids	Group 1 fluids	Group 2 fluids
Promag W/P	DN 32	Cat. II	Art. 3 Par. 3	Art. 3 Par. 3	Art. 3 Par. 3
	DN 40...50	Cat. II	Cat. I	Art. 3 Par. 3	Art. 3 Par. 3
	DN 65...100	Cat. II	Cat. I	Cat. II	Art. 3 Par. 3
	DN 125...200	Cat. III	Cat. II	Cat. II	Art. 3 Par. 3
	DN 250	Cat. III	Cat. II	Cat. II	Cat. I
Promag H	DN 300...600	Cat. III	Cat. III	Cat. II	Cat. I
	DN 40...50	Cat. I	Art. 3 Par. 3	Art. 3 Par. 3	Art. 3 Par. 3
	DN 65...100	Cat. II	Kat. I	Art. 3 Par. 3	Art. 3 Par. 3

Group 1 fluids: explosive, flammable, toxic or oxidising media

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

Endress + Hauser

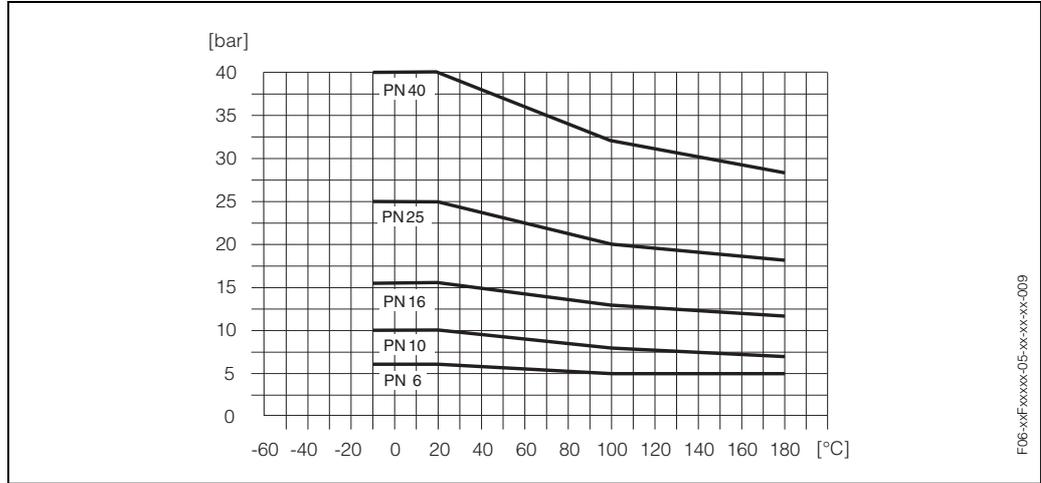
The Power of Know How



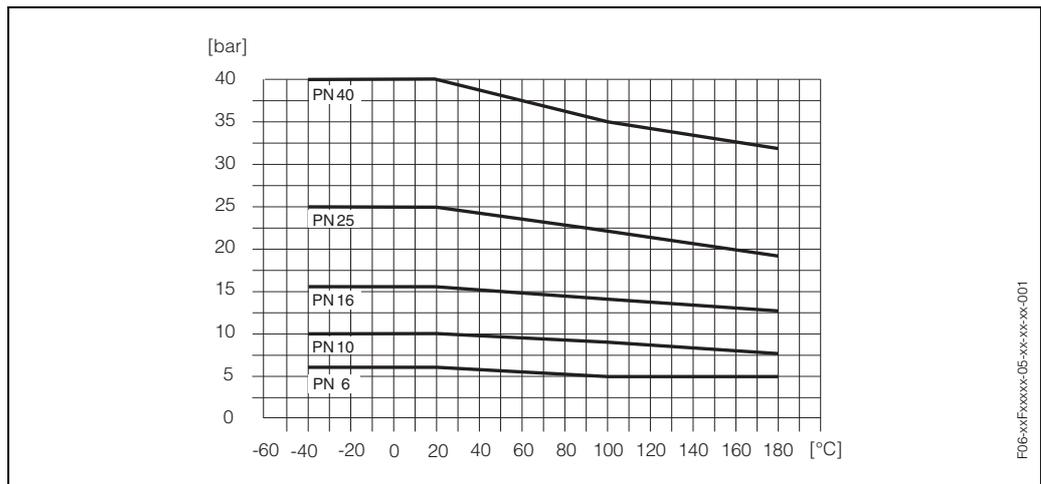
Material load diagrams of process connections

Promag W/P: Flange connection to EN 1092-1 (DIN 2501)

Flange material: S235JRG2 (RSt 37-2)

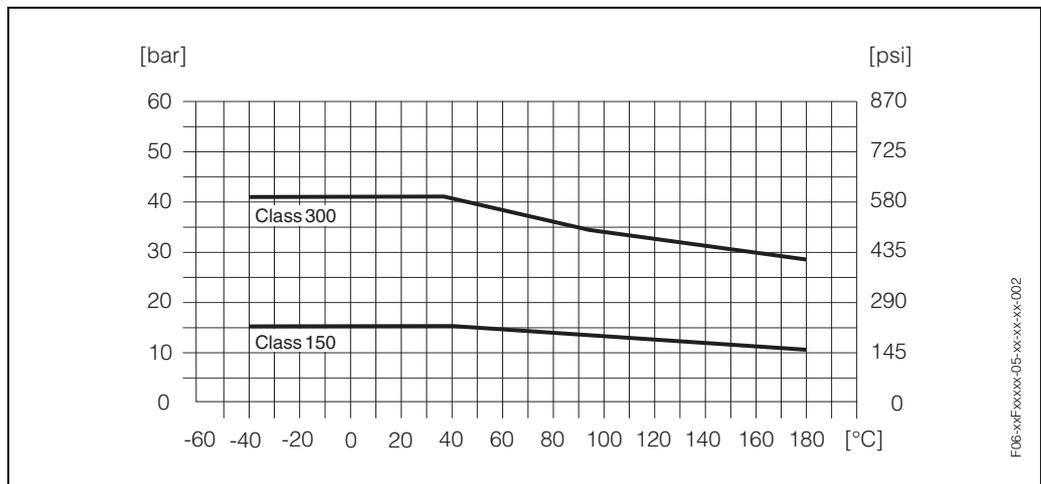


Flange material: 1.4571

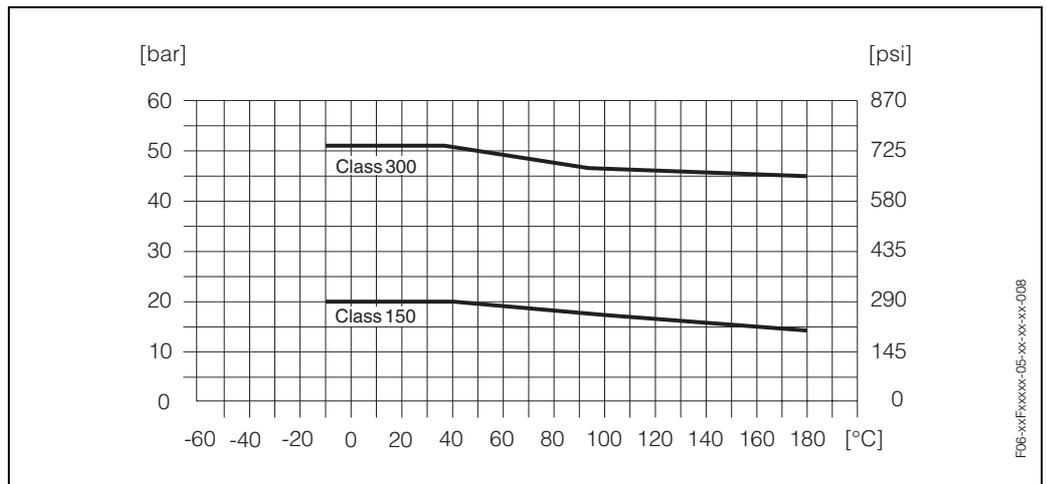


Promag W/P: Flange connection to ANSI B16.5

Flange material: 316L

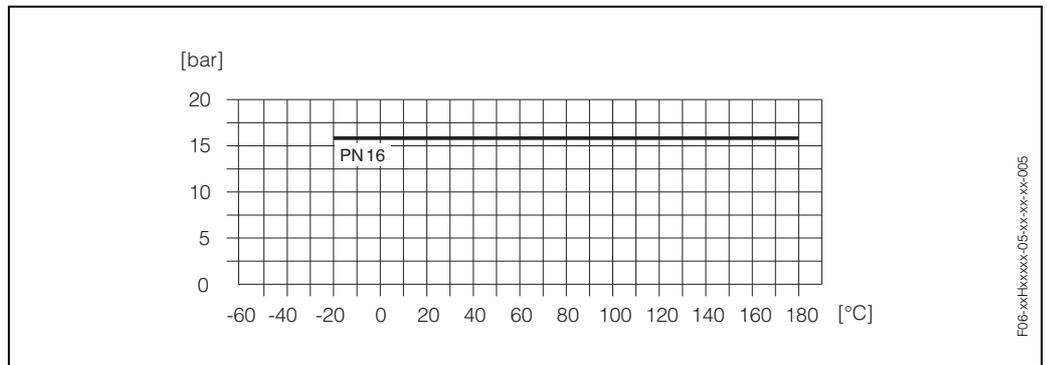


Flanschwerkstoff: Stahl A105



Promag H: Weld nipple to DIN 11850, ODT

Weld nipple material: 1.4404/316L (with gasket seal)



Additional information

All measuring devices undergo a pressure unit test with at least 1.5 times the maximum pressure rating. For more details, please refer to the 2.3 certificate provided.

If the device is delivered with detached process connections (only for Promag H), these connections have to be included in the piping pressure test.

Note for Sensors Promag 50/51/53 WP

The casing of sensors DN > 300 serves to protect the internal measuring system and fulfils no additional second containment function. A pressure rating of 5 bar can be given as a nominal value. In the event danger of damage to the liner or electrodes exists, e.g. due to process conditions such as corrosive or abrasive fluids or equalising currents, overpressure of the casing due to leakage could occur. This can lead to an undefined burst of the casing, which in turn can lead to additional danger. Verification of the process fluid compatibility with the wetted materials, and the observation of the maximum process pressure are therefore of utmost importance. In case of doubt, contact your E+H representative for further clarification.

Approval number

The following approval number for the type examination in accordance with Stoomwezen B.V. applies to all the Promag measuring systems listed: **PED/B/8035591**

