

Information on the Pressure Equipment Directive

Proline Promass 80, 83, 84

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	
Promass 80F**-P/R/S/T/V/2/4*****	Promass 83O**-N/Q*****
Promass 83F**-P/R/S/T/V/2/4*****	Promass 84O**-N/Q*****
Promass 84F**-P/R/N*****	Promass 80P**-P/R/8*****
Promass 80E/I/S**-P/R*****	Promass 83P**-P/R/8*****
Promass 83E/I/S**-P/R*****	Promass 83X**-p*****
Promass 80H**-J/L/U/W*****	Promass 84X**-p*****
Promass 83H**-J/L/U/W*****	
Definition: J/L/N/P/Q/R/S/T/U/V/W/2/4/8 = 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 into account, the following is the maximum classification:

Device Type	Nominal diameter	Application				
		Stable gases and fluids				Unstable gases
		Piping for gases, steams and 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	
Promass F	DN 40 to 100	Kat. II	Kat. I	Kat. II	Art. 3 Abs. 3	Kat. III
Promass F	DN 150 to 200	Kat. III	Kat. II	Kat. II	Art. 3 Abs. 3	Kat. III
Promass F	DN 250 to 300	Kat. III	Kat. II	Kat. II	Kat. I	Kat. III
Promass F (HT)	DN 50, 80	Kat. II	Kat. I	Kat. II	Art. 3 Abs. 3	Kat. III
Promass E/I/M	DN 40 to 80	Kat. II	Kat. I	Kat. II	Art. 3 Abs. 3	Kat. III
Promass H/S/P	DN 40 to 50	Kat. II	Kat. I	Kat. II	Art. 3 Abs. 3	Kat. III
Promass O	DN 80 to 100	Kat. II	Kat. I	Kat. II	Art. 3 Abs. 3	Kat. III
Promass O	DN 150	Kat. III	Kat. II	Kat. II	Art. 3 Abs. 3	Kat. III
Promass X	DN 300 to 400	Kat. III	Kat. III	Kat. II	Kat. I	Kat. III
Group 1 fluids: explosive, flammable, toxic or oxidising media						
Group 2 fluids: non-explosive, non-flammable, non-toxic and non-oxidising media						

Pressure and temperature Material load diagrams of process connections

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:

- Promass E

→ 

3
- Promass F

→ 

6
- Promass H

→ 

11
- Promass I

→ 

12
- Promass O

→ 

15
- Promass P

→ 

16
- Promass S

→ 

19
- Promass X

→ 

22

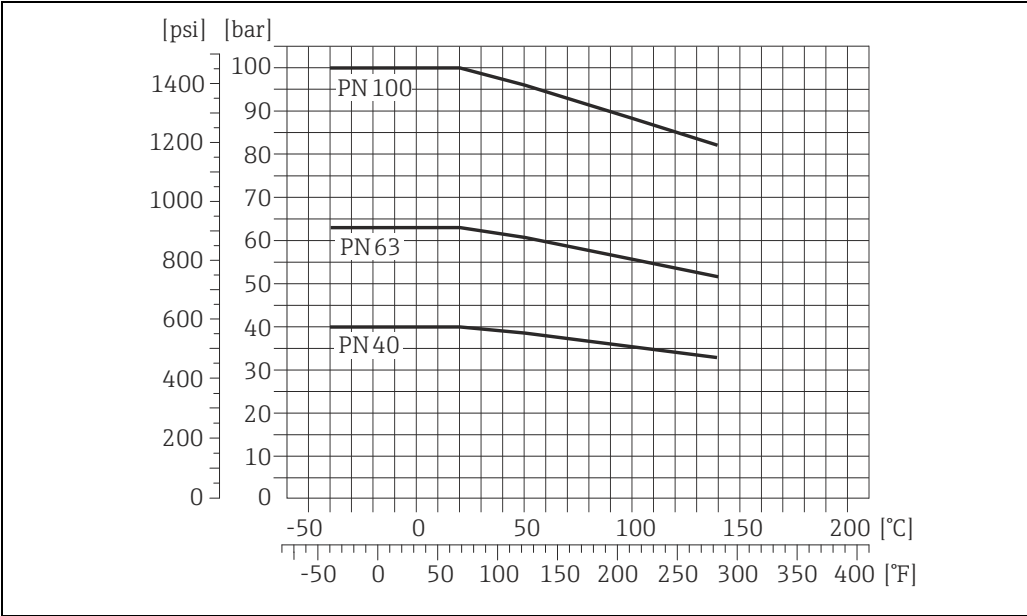


Warning!
The following pressure and temperature material load curves refer to the entire sensor and not just the process connection.

Promass E

Promass E:
Flange according to
EN 1092-1 (DIN 2501)

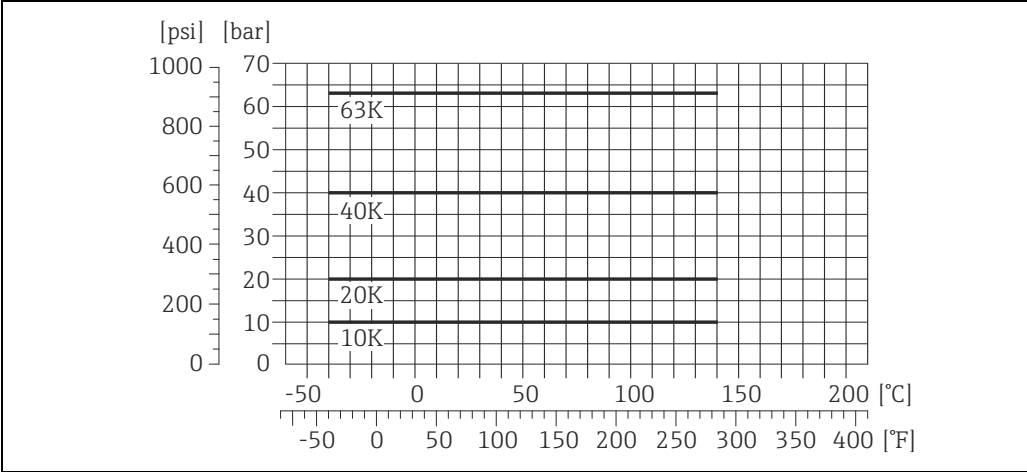
Flange material: 1.4404 (F316L/F316L)



A0020972-EN

Promass E:
JIS B2220, flange

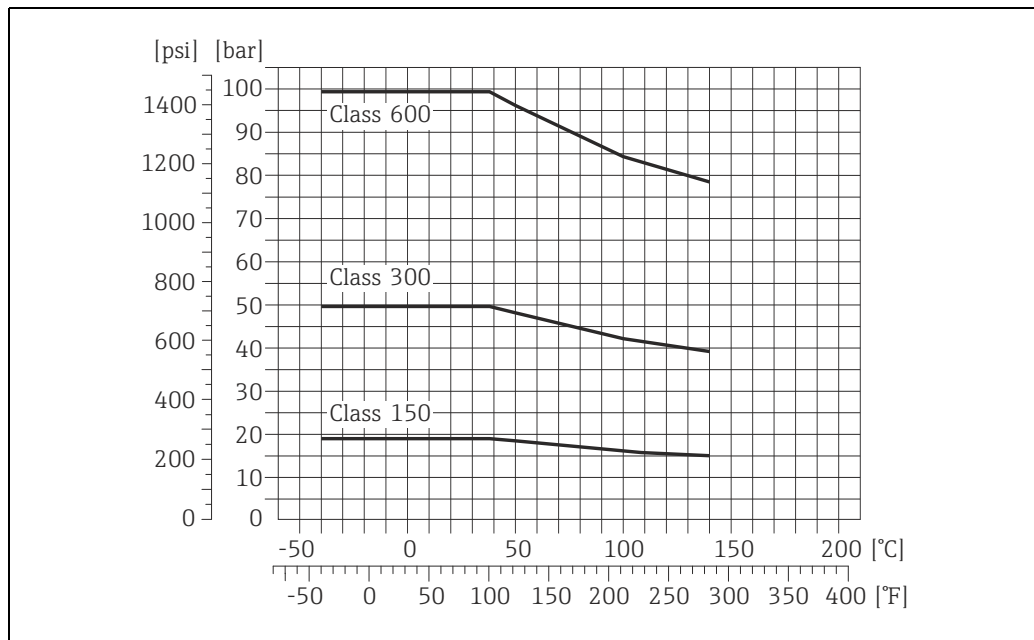
Flange material: 1.4404 (F316L/F316L)



A0020974-EN

Promass E:
Flange according to
ASME B16.5

Flange material: 1.4404 (F316/F316L)



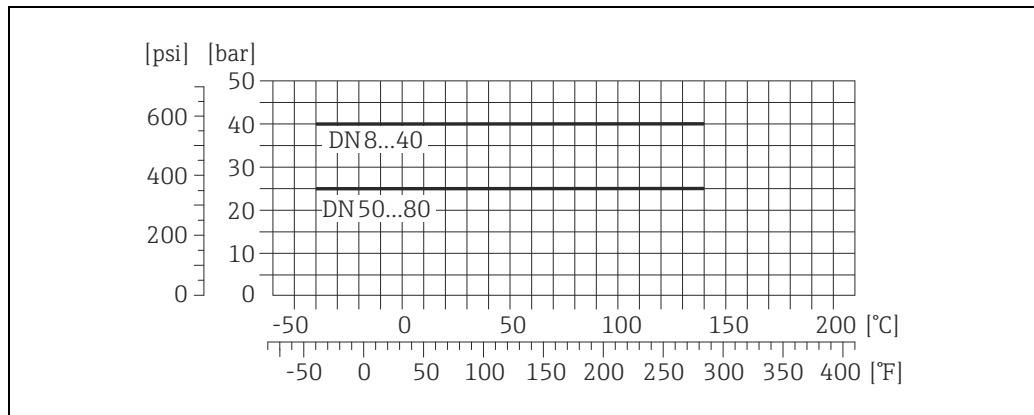
A0020973-EN

Promass E:
Tri-Clamp

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.

Promass E:
DIN 11851, thread

Connection material: 1.4404 (316/316L)

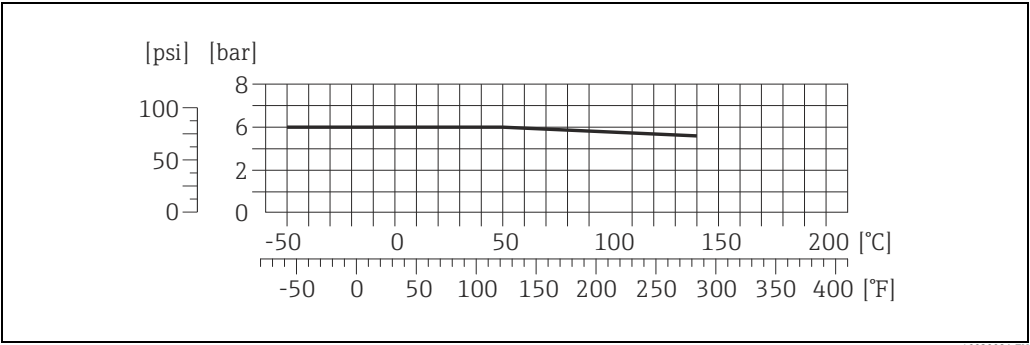


A0020976-EN

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.

Promass E:
SMS 1145, thread

Connection material: 1.4404 (316/316L)

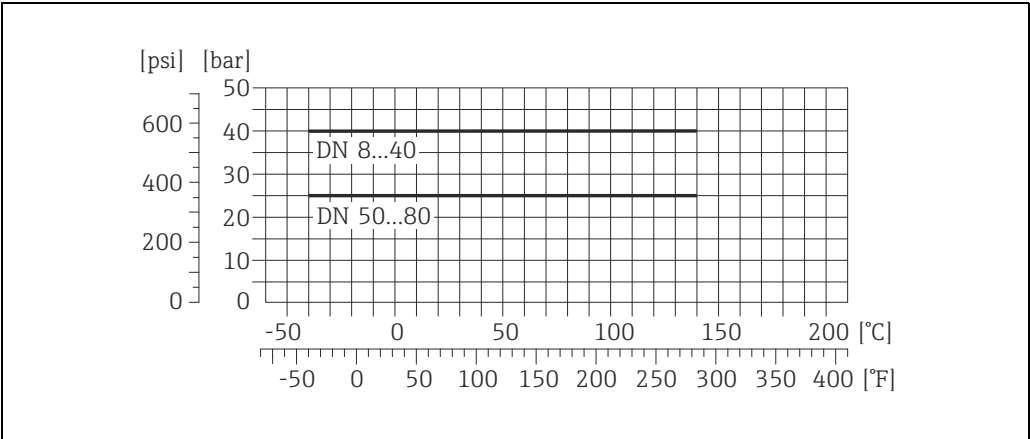


A0020986-EN

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.

Promass E:
DIN 11864-1 Form A, thread

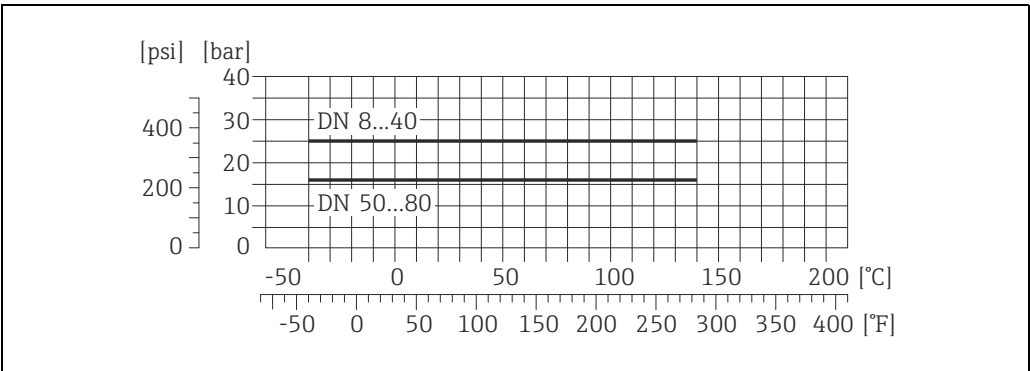
Connection material: 1.4404 (316/316L)



A0020977-DE

Promass E:
DIN 11864-2 Form A, flange

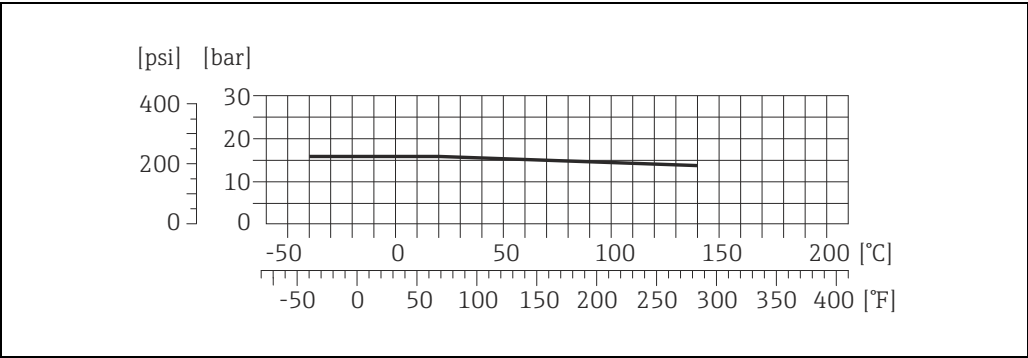
Flange material: 1.4404 (316/316L)



A0020978-EN

Promass E:
ISO 2853, thread

Connection material: 1.4404 (316/316L)

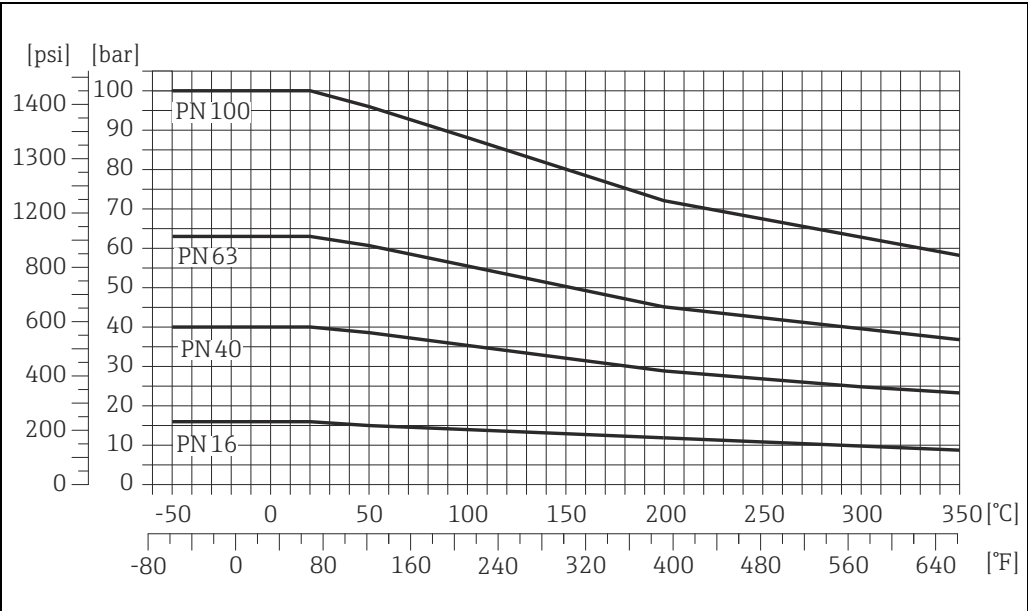


A0020988-EN

Promass F

Promass F:
Flange according to
EN 1092-1 (DIN 2501)

Flange material: 1.4404 (316/316L), Alloy C-22

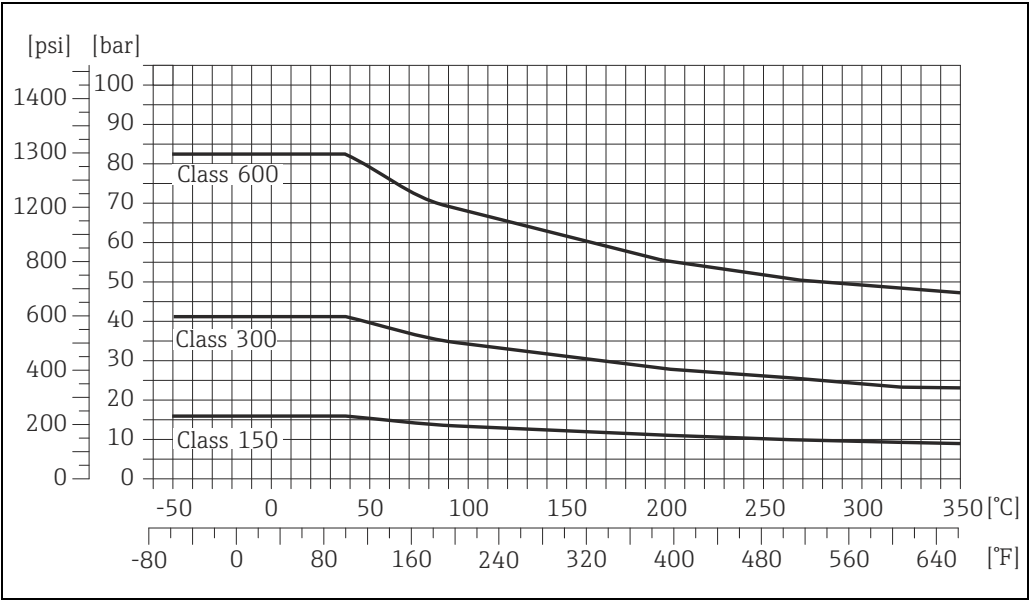


A0022596-EN

The values for the temperature range from +200 °C to +350 °C (+392 °F to +662 °F) are exclusively valid for the high-temperature version.

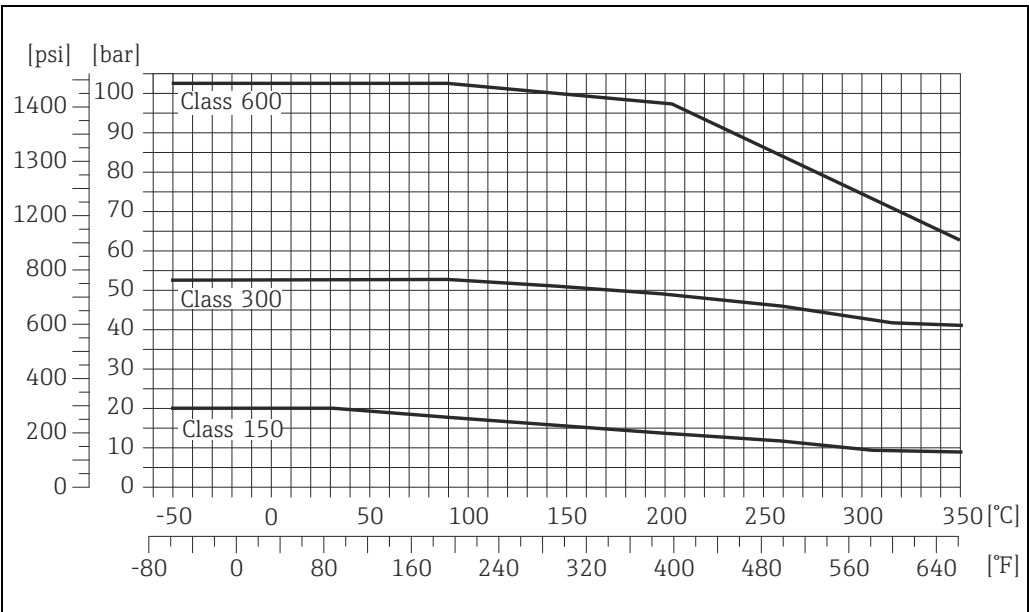
Promass F:
Flange according to
ASME B16.5

Flange material: 1.4404 (316/316L), Alloy C-22



The values for the temperature range from +200 °C to +350 °C (+392 °F to +662 °F) are exclusively valid for the high-temperature version.

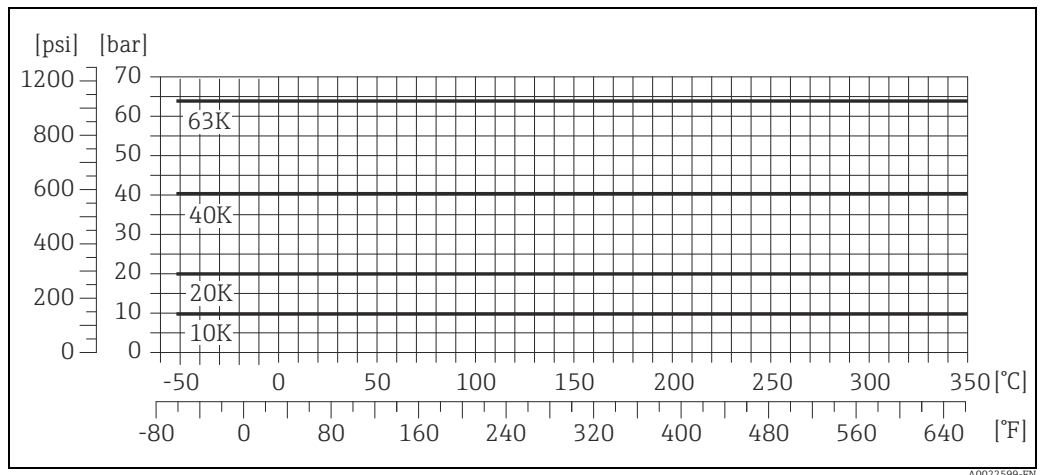
Flange material: Alloy C-22



The values for the temperature range from +200 °C to +350 °C (+392 °F to +662 °F) are exclusively valid for the high-temperature version.

**Promass F:
JIS B2220, flange**

Flange material: 1.4404 (316/316L), Alloy C-22

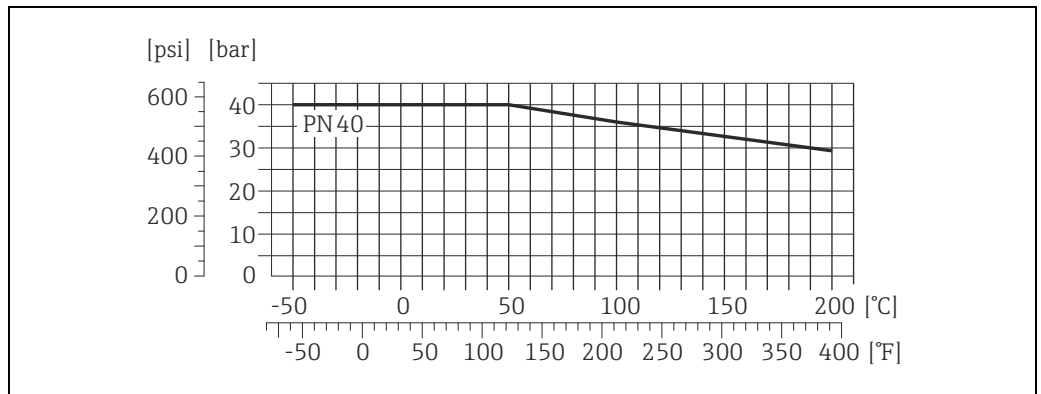


A0022599-EN

The values for the temperature range from +200 °C to +350 °C (+392 °F to +662 °F) are exclusively valid for the high-temperature version.

**Promass F:
Loose Flange according to
EN 1092-1 (DIN 2501)**

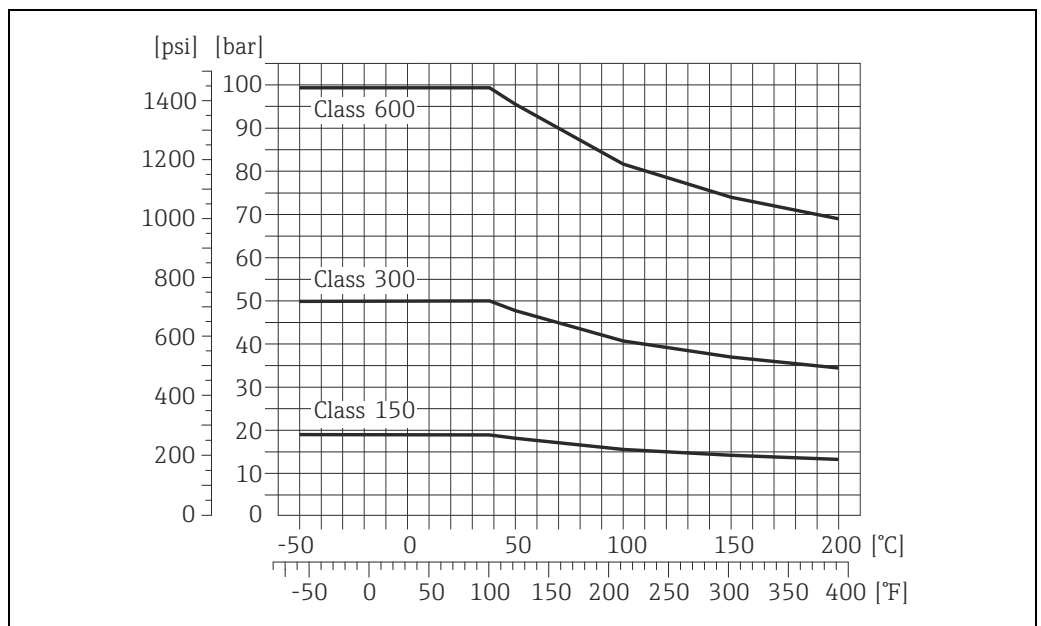
Flange material: 1.4301 (F304); fluid wetted parts: Alloy C-22



A0021313-EN

**Promass F:
Loose Flange according to
ASME B16.5**

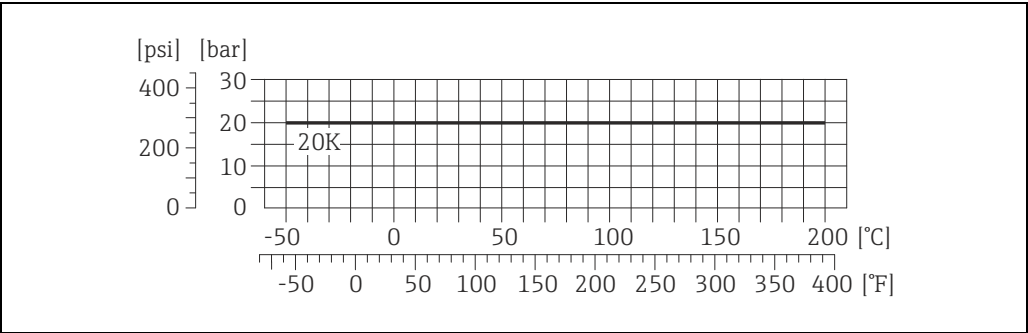
Flange material: 1.4301 (F304); fluid wetted parts: Alloy C-22



A0021345-EN

Promass F:
JIS B2220, loose flange

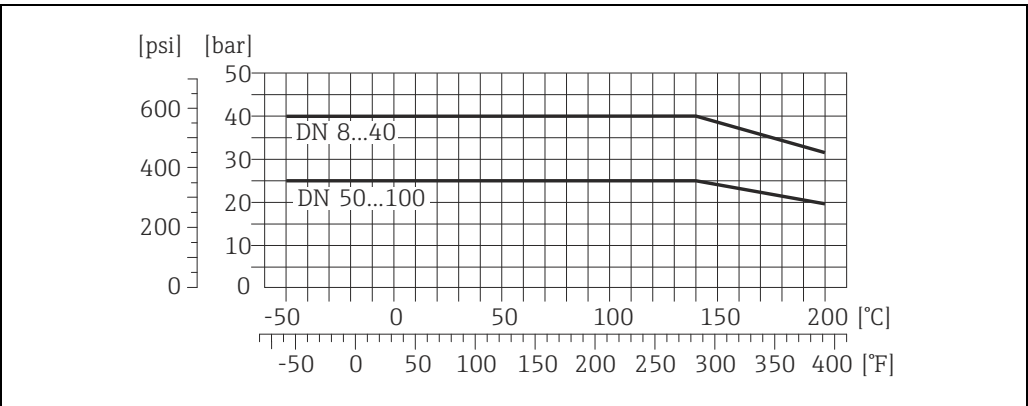
Flange material: 1.4301 (F304); fluid wetted parts: Alloy C-22



A0021346-EN

Promass F:
DIN 11864-1 Form A, thread

Connection material: 1.4404 (316/316L)



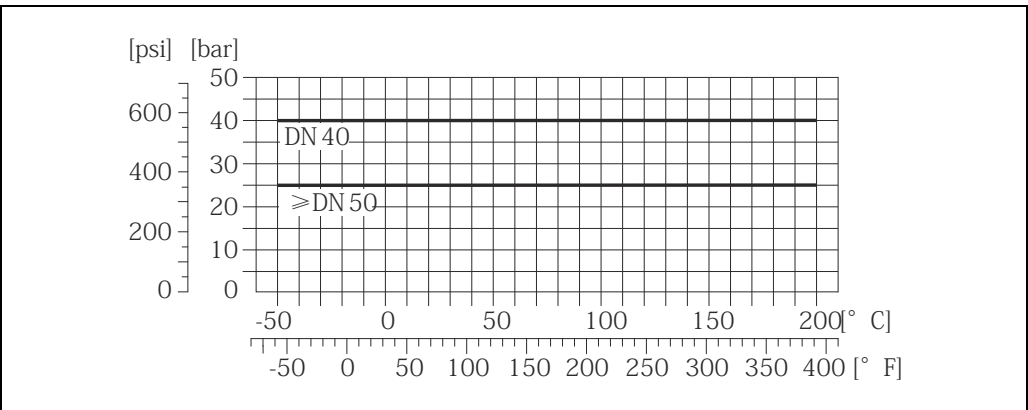
A0021028-EN

Promass F:
Tri-Clamp

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.

Promass F:
DIN 11851, thread

Connection material: 1.4404 (316/316L)

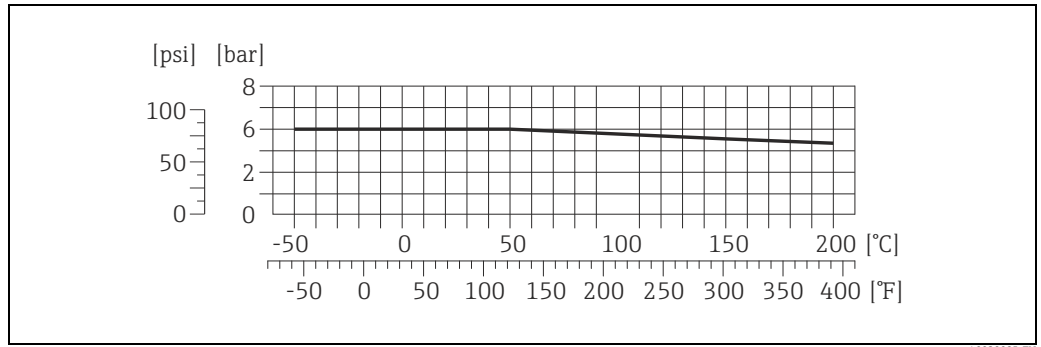


A0025959-EN

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.

**Promass F:
SMS 1145, thread**

Connection material: 1.4404 (316/316L)

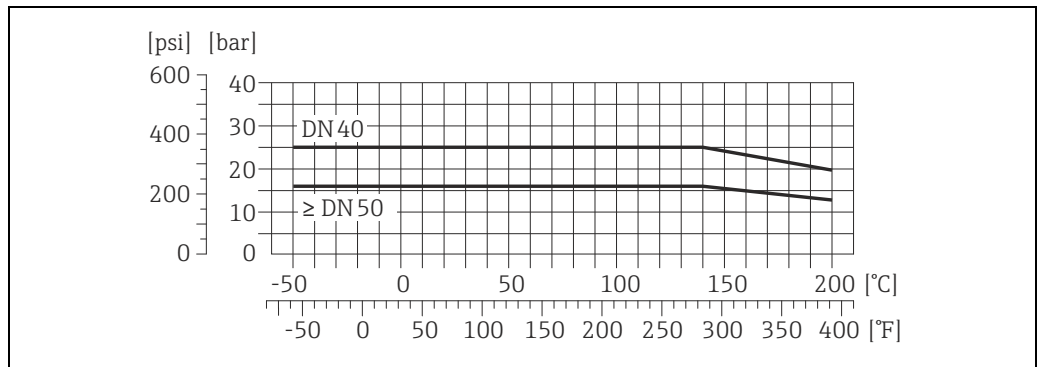


A0020985-EN

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.

**Promass F:
Flange connection to
DIN 11864-2 Form A, flange**

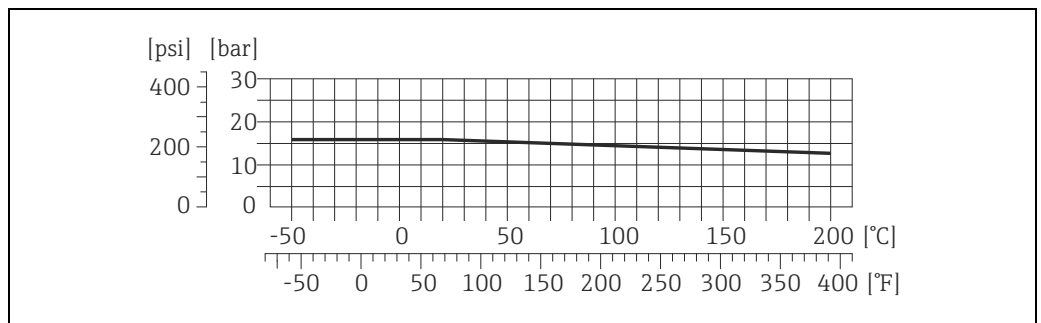
Flange material: 1.4404 (316/316L)



A0025613-EN

**Promass F:
ISO 2853, thread**

Connection material: 1.4404 (316/316L)

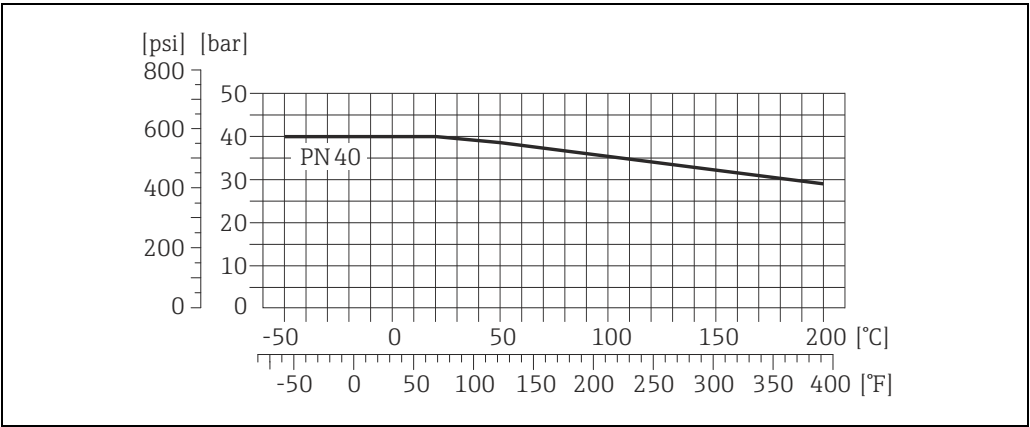


A0020964-EN

Promass H

Promass H:
Flange according to
EN 1092-1 (DIN 2501)

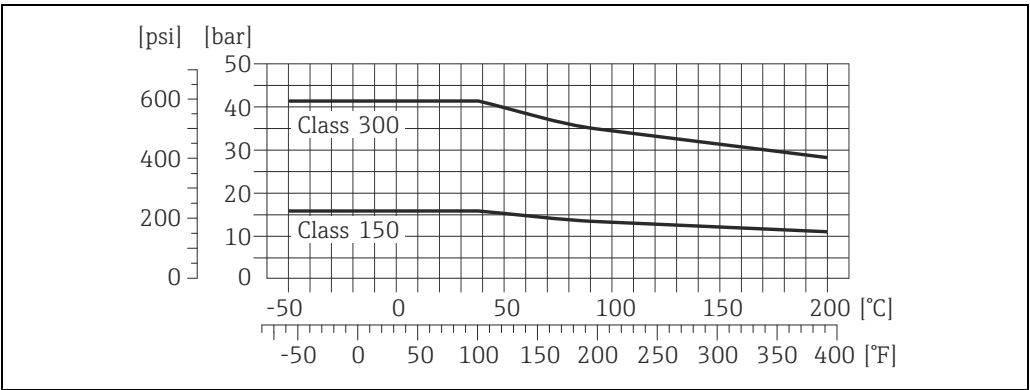
Flange material: 1.4301 (301)
Fluid wetted parts: Zirconium 702, Tantalum



A0020836-EN

Promass H:
Flange according to
ASME B16.5

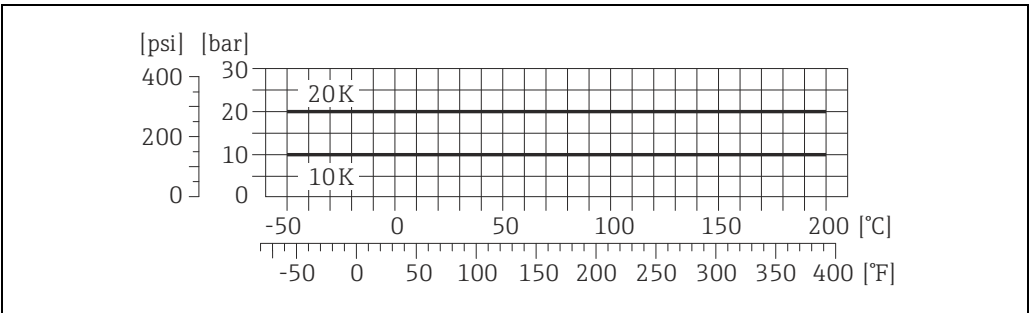
Flange material: 1.4301 (304)
Fluid wetted parts: Zirconium 702, Tantalum



A0020920-EN

Promass H:
JIS B2220, flange

Flange material: 1.4301 (304)
Fluid wetted parts: Zirconium 702, Tantalum

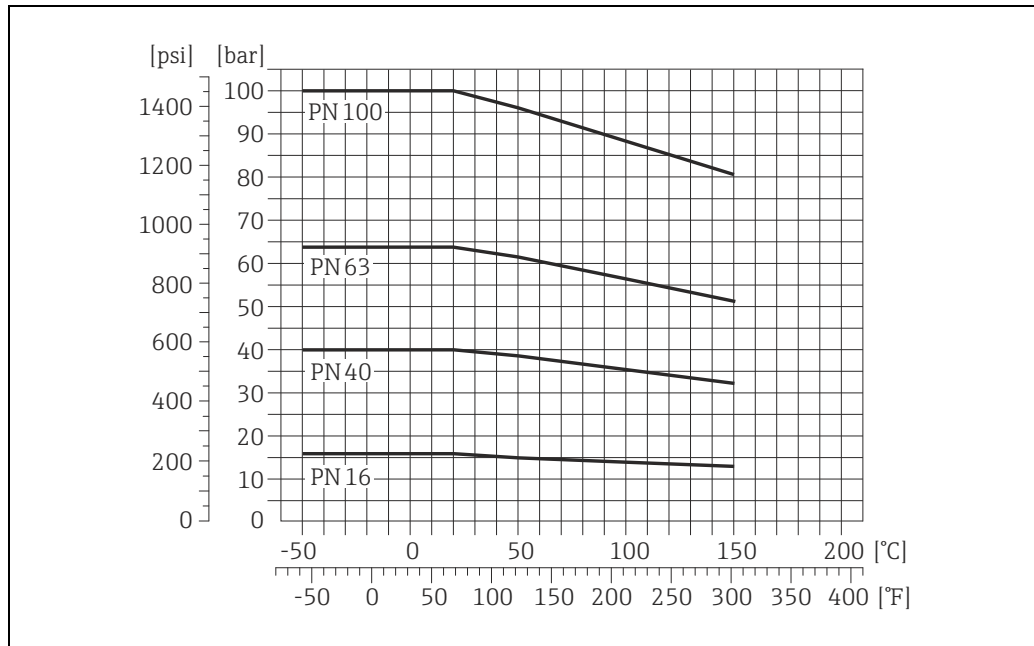


A0020922-EN

Promass I

Promass I:
Flange according to
EN 1092-1 (DIN 2501)

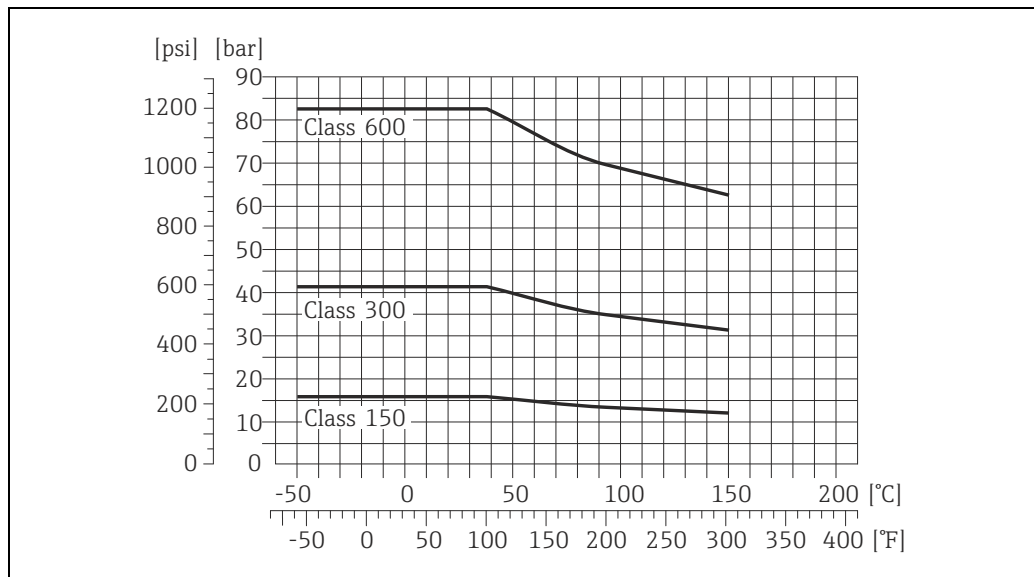
Flange material: 1.4301 (304)
 Fluid wetted parts: titanium



A0020873-EN

Promass I:
Flange according to
ASME B16.5

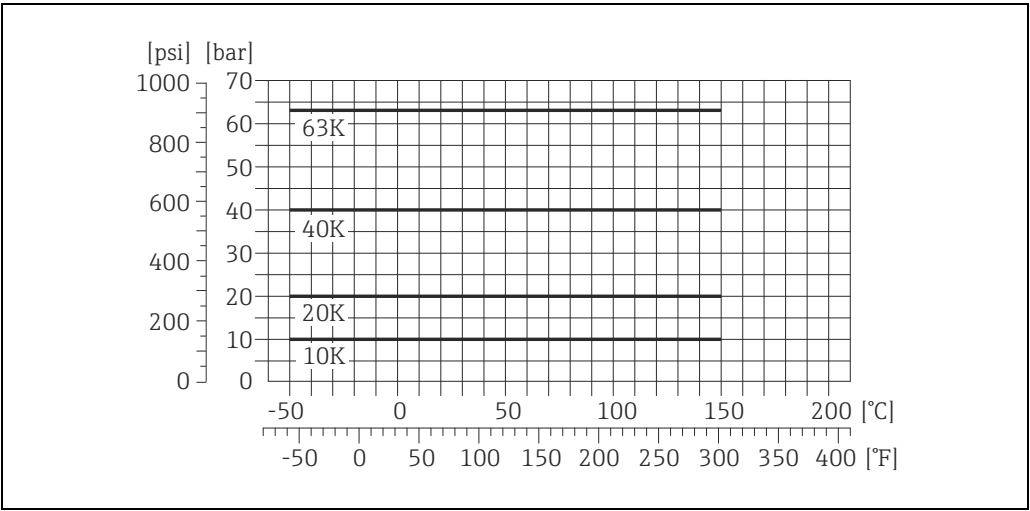
Flange material: 1.4301 (304)
 Fluid wetted parts: titanium



A0020923-EN

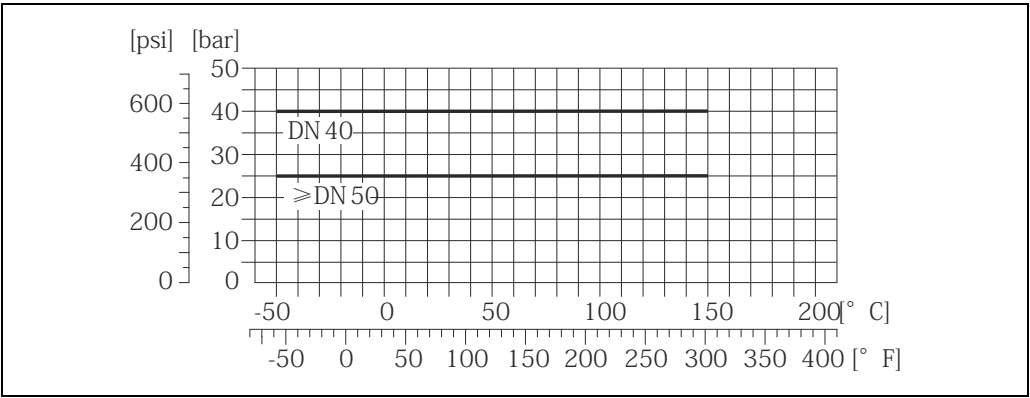
Promass I:
JIS B2220, flange

Flange material: 1.4301 (304)
Fluid wetted parts: titanium



Promass I:
DIN 11851, thread

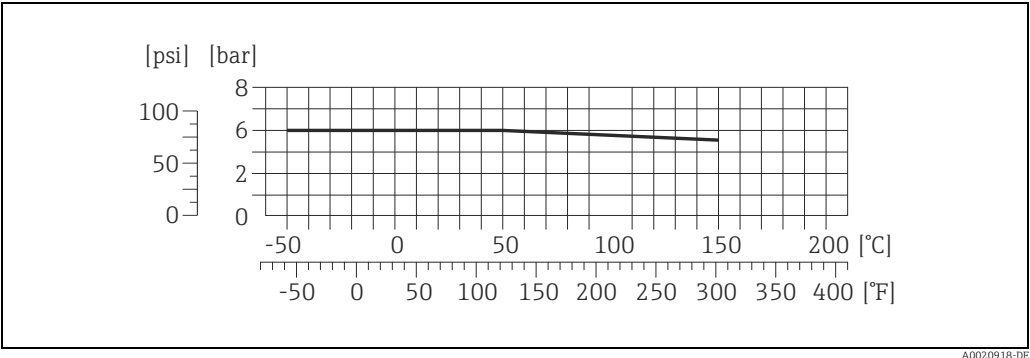
Connection material: titanium



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.

Promass I:
SMS 1145, thread

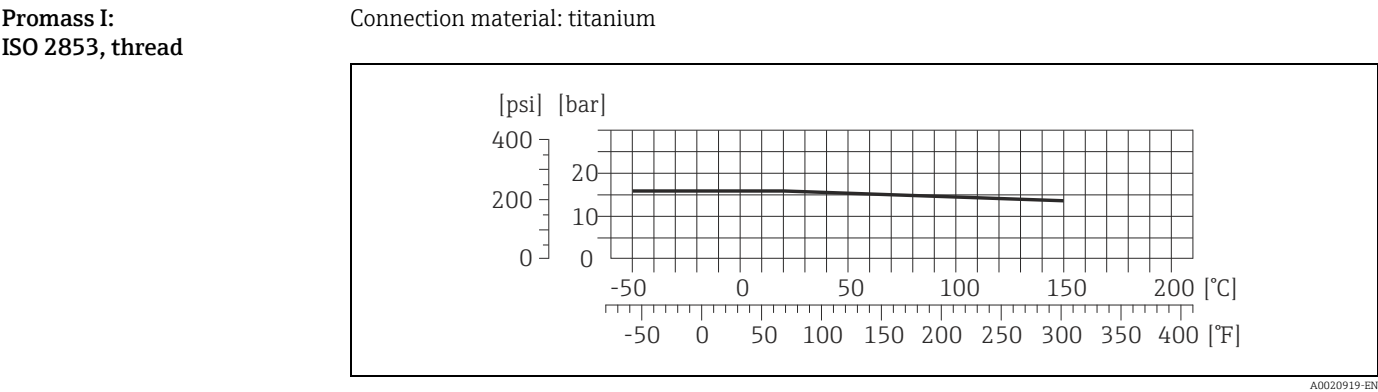
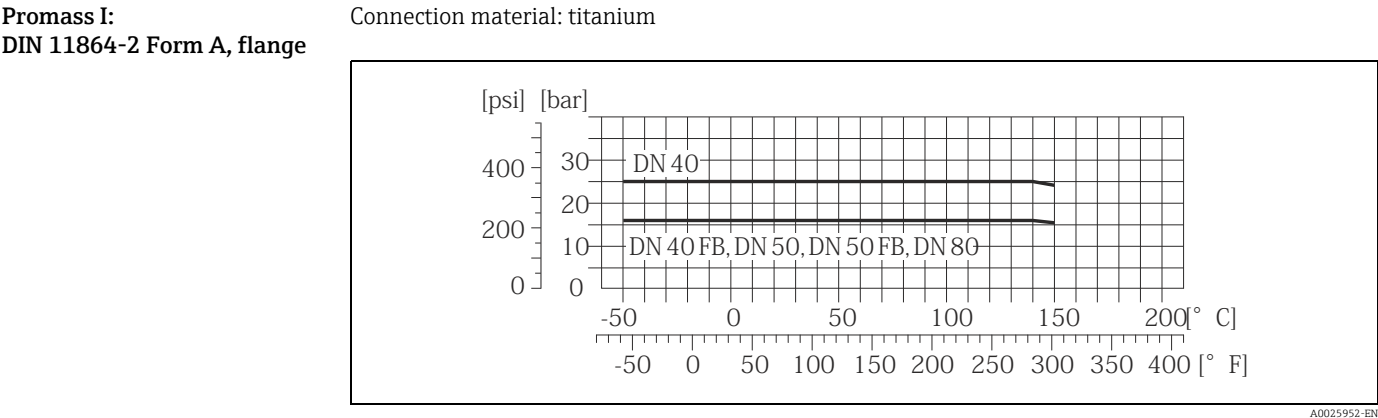
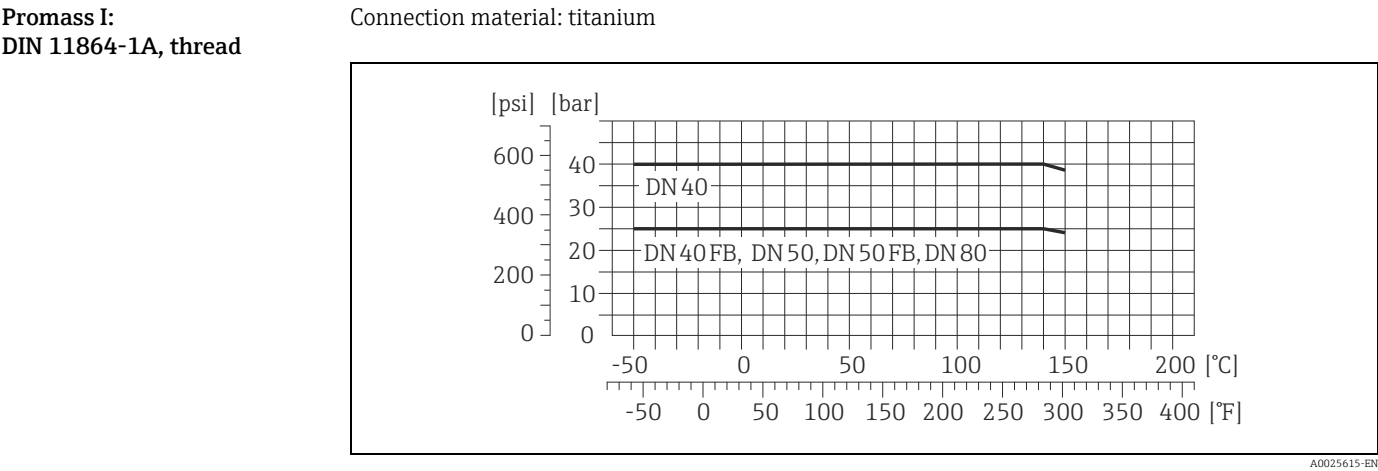
Connection material: titanium



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.

Promass I:
Tri-Clamp

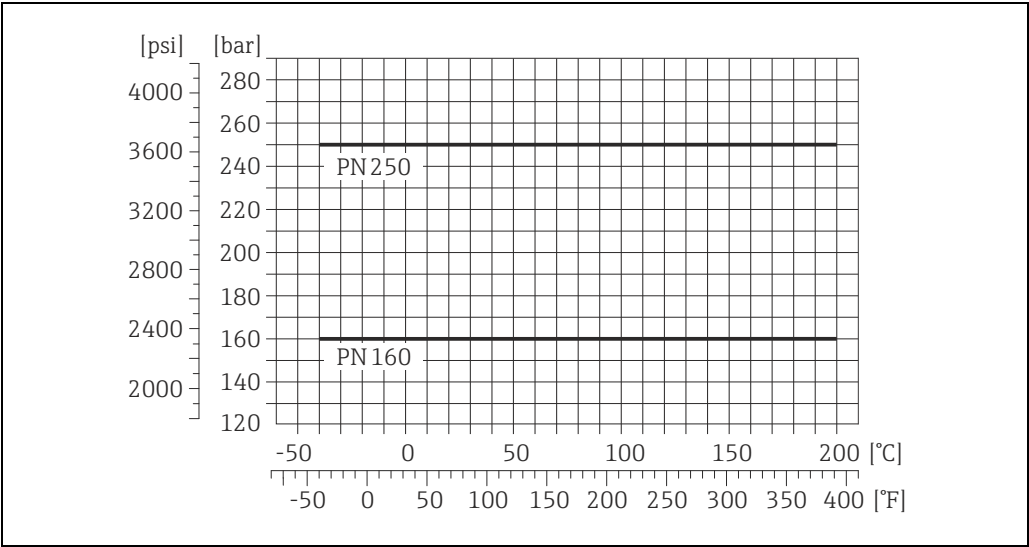
The Clamp connections are suited up to a maximum pressure of 16 bar (232 psi). Please observe the operating limits of the clamp and seal used as they could be under 16 bar (232 psi). The clamp and the seal are not included in the scope of supply.



Promass O

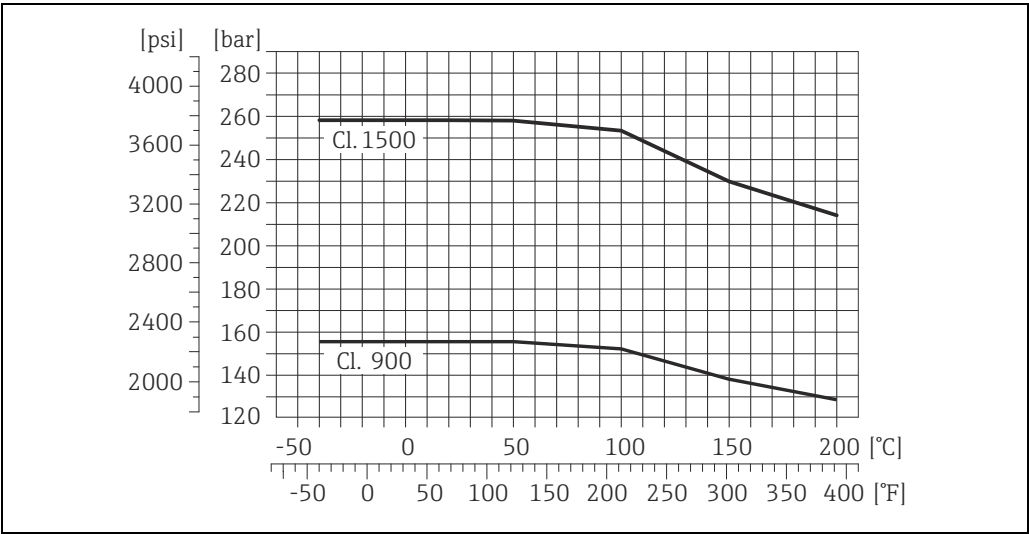
Promass O:
Flange according to
EN 1092-1 (DIN 2501)

Flange material: 1.4410 (F53)



Promass O:
Flange according to
ASME B16.5

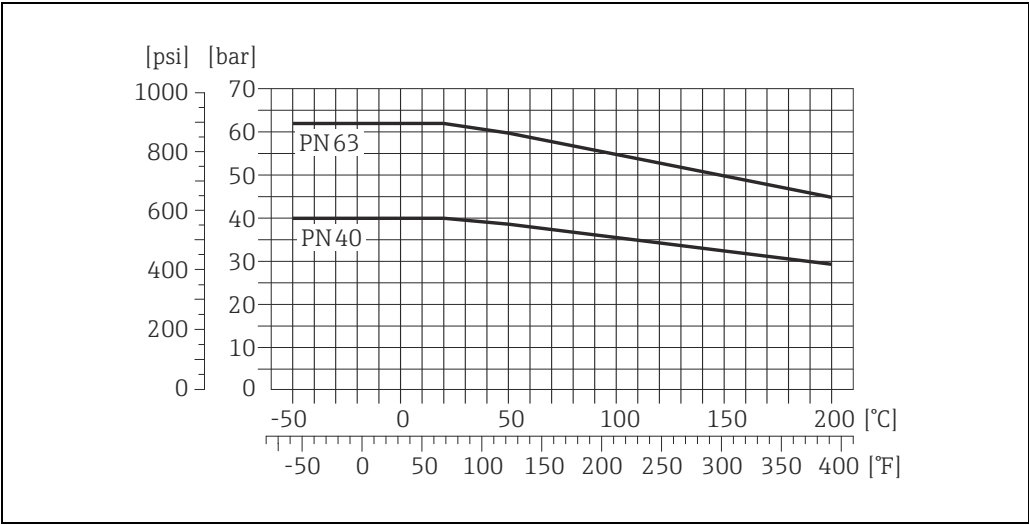
Flange material: 1.4410 (F53)



Promass P

Promass P:
Flange according to
EN 1092-1 (DIN 2501)

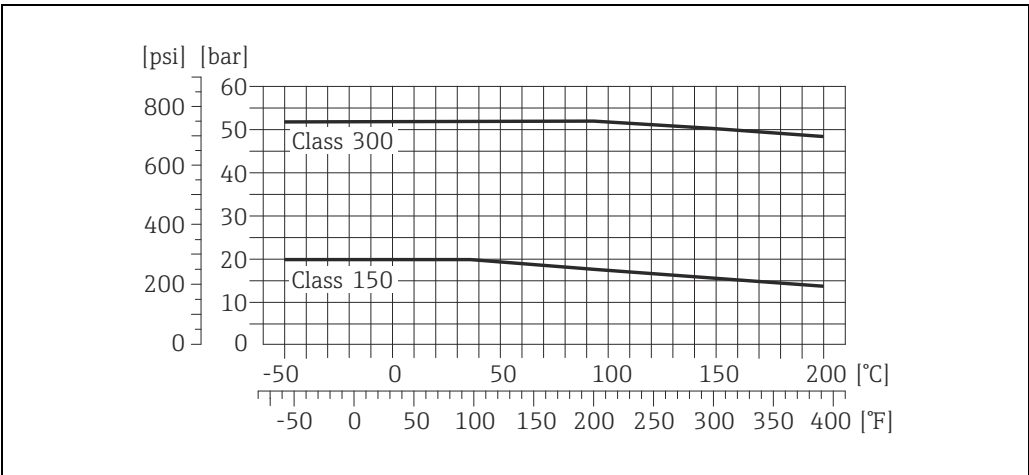
Flange material: 1.4404 (F316/F316L)



A0020994-EN

Promass P:
Flange according to
ASME B16.5

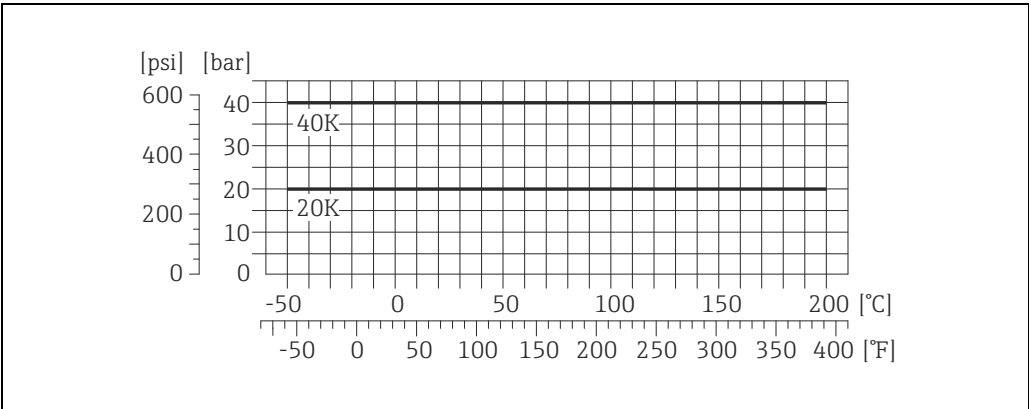
Flange material: 1.4404 (F316/F316L)



A0020997-EN

Promass P:
JIS B2220, flange

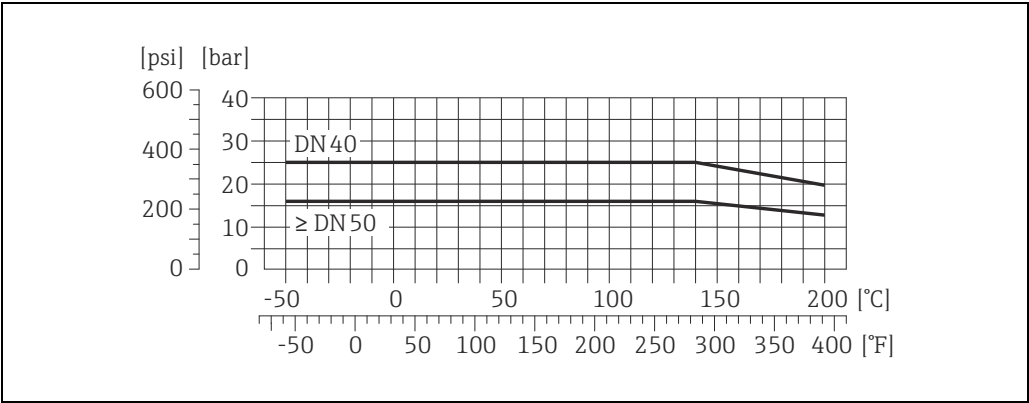
Flange material: 1.4404 (F316/F316L)



A0020998-EN

Promass P:
DIN 11864-2 Form A, flange

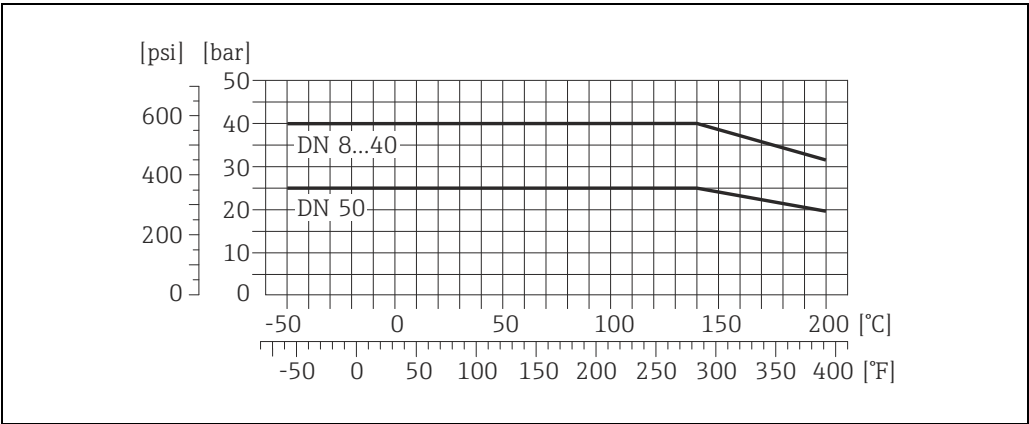
Flange material: 1.4435 (316L)



A0025613-EN

Promass P:
DIN 11864-1 Form A, thread;
DIN 11864-3A clamp

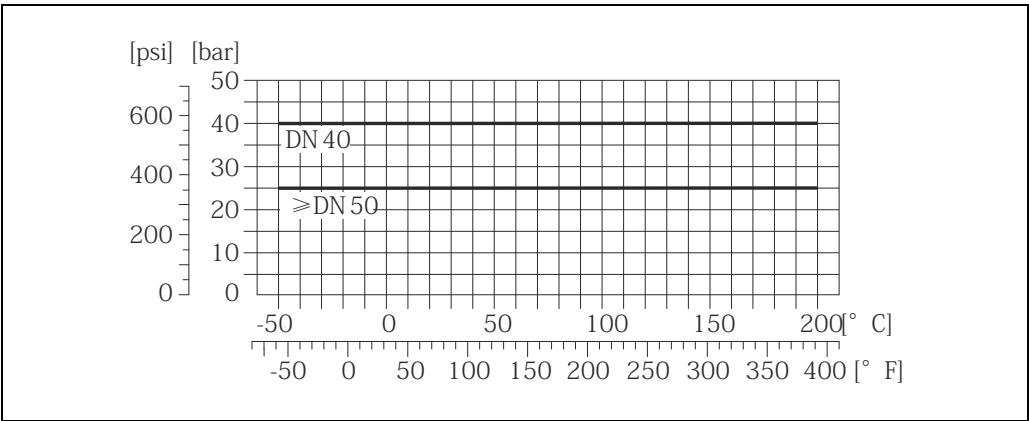
Connection material: 1.4435 (316L)



A0021005-EN

Promass P:
DIN 11851, thread

Connection material: 1.4404 (316/316L)

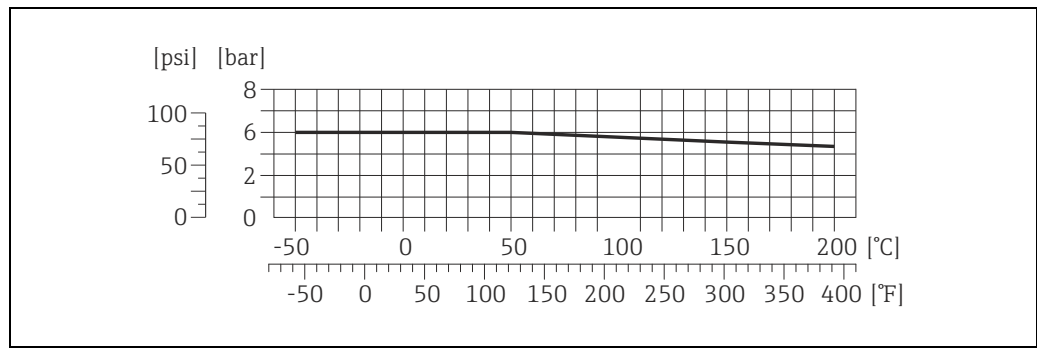


A0025959-EN

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.

Promass P:
SMS 1145, thread

Connection material: 1.4404 (316/316L)

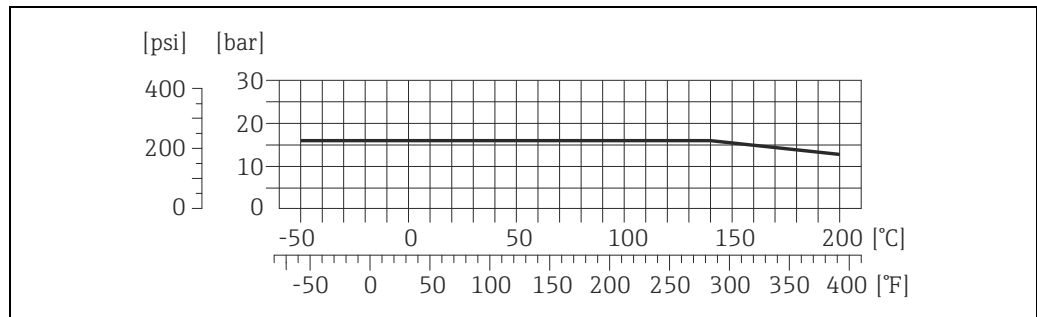


A0020985-EN

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.

Promass P:
Neumo BioConnect, flange;
BBS, flange small;
BBS, thread

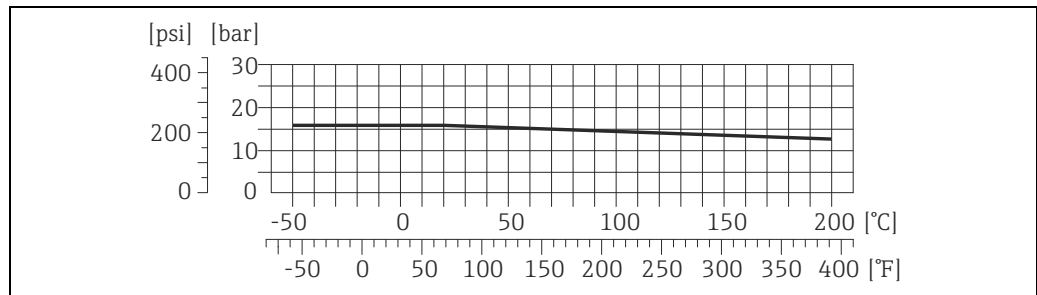
Flange material: 1.4435 (316L)



A0021000-EN

Promass P:
ISO 2853, thread

Connection material: 1.4435 (316L)



A0020964-EN

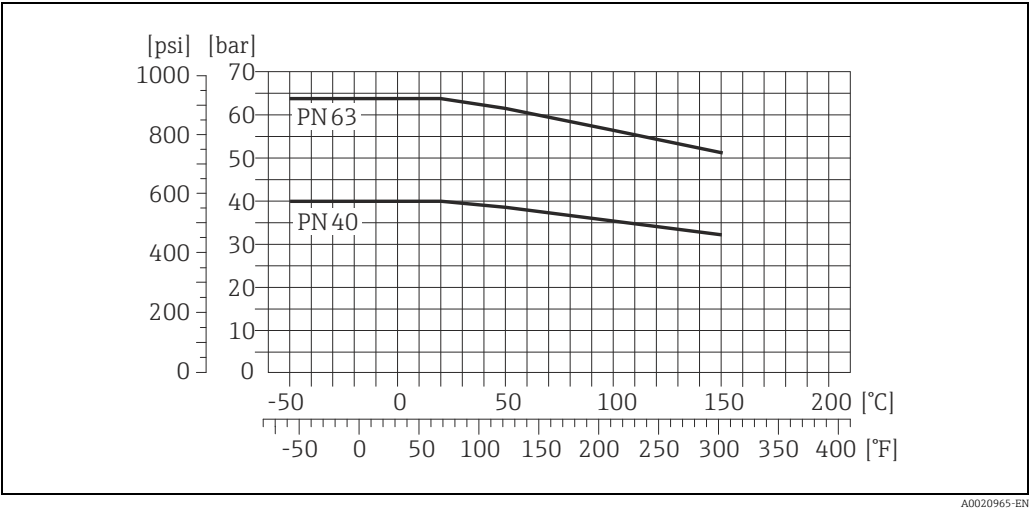
Promass P:
Tri-Clamp
ISO 2852, clamp;
DIN 32676, clamp;
BBS, Quick-connect;
Neumo BioConnect, clamp

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.

Promass S

Promass S:
Flange according to
EN 1092-1 (DIN 2501)

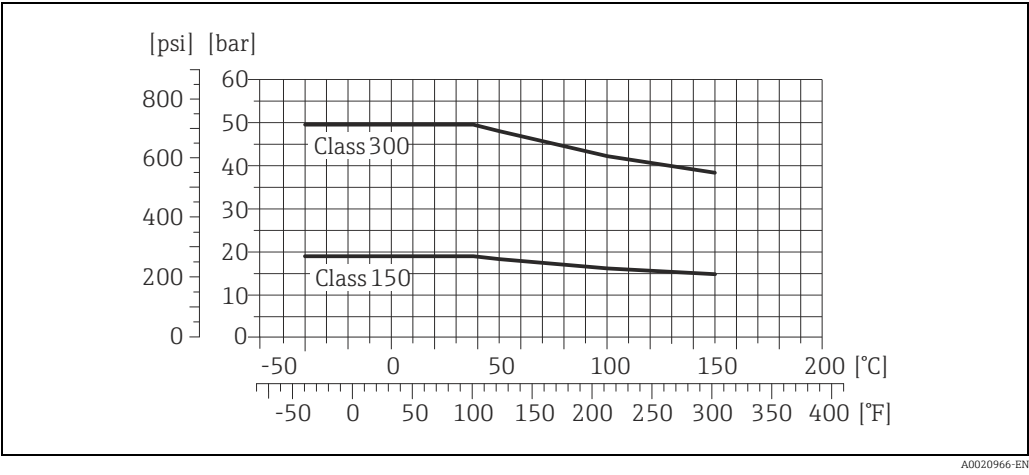
Flange material: 1.4404 (F316/F316L)



A0020965-EN

Promass S:
Flange according to
ASME B16.5

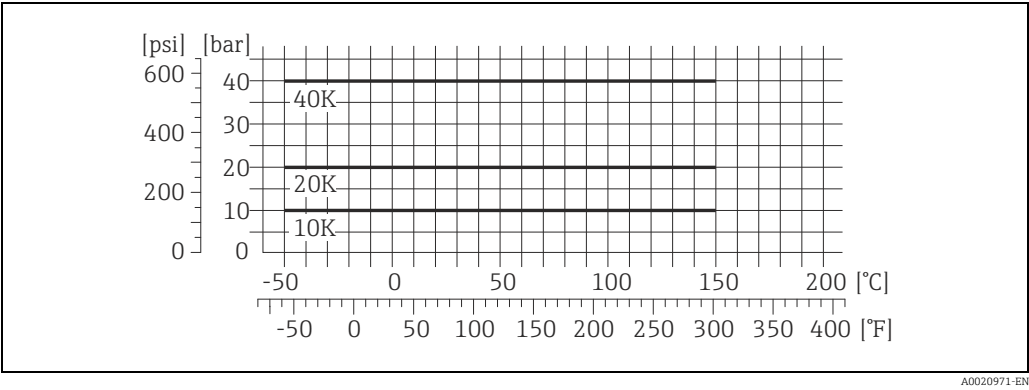
Flange material: 1.4404 (F316/F316L)



A0020966-EN

Promass S:
JIS B2220, flange

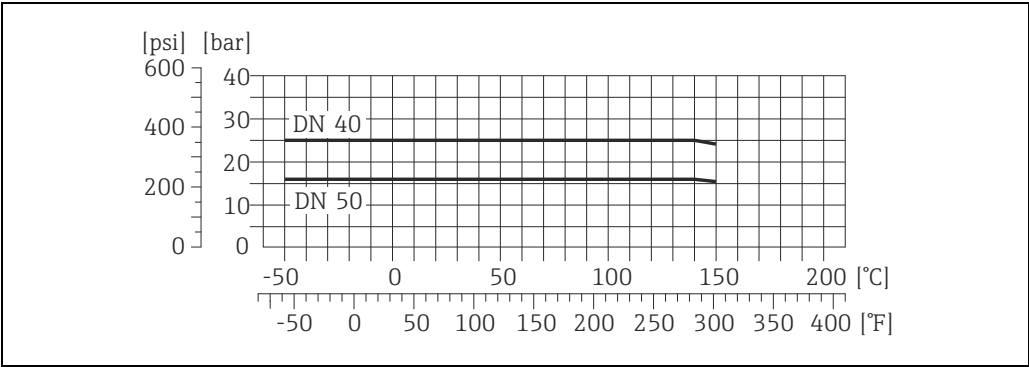
Flange material: 1.4404 (F316/F316L)



A0020971-EN

Promass S:
DIN 11864-2 Form A, flange

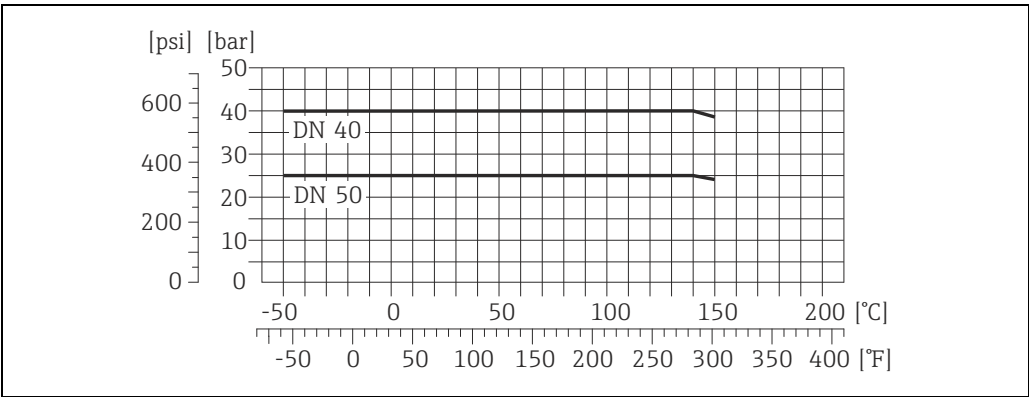
Flange material: 1.4435 (316L)



A0025626-EN

Promass S:
DIN 11864-1 Form A, thread;
DIN 11864-3 Form A, clamp

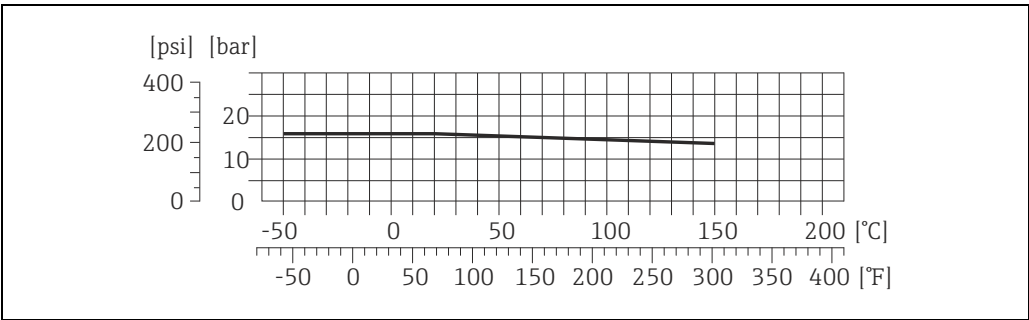
Connection material: 1.4435 (316L)



A0025630-EN

Promass S:
ISO 2853, thread

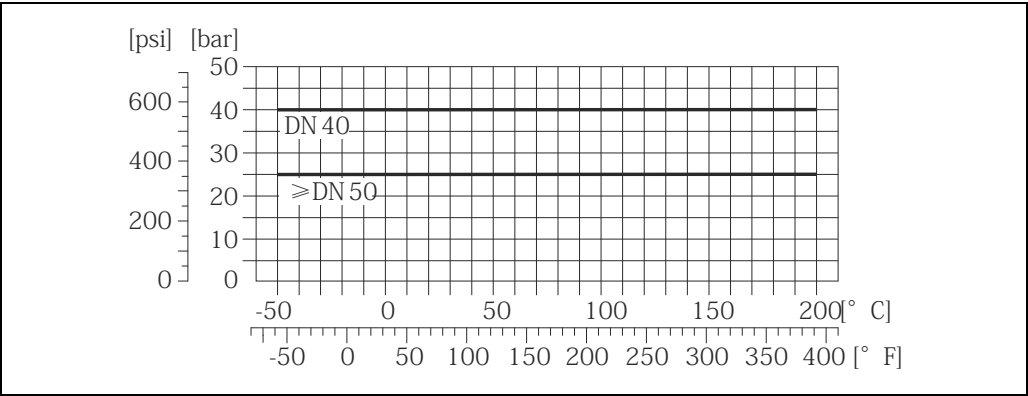
Connection material: 1.4435 (316L)



A0020919-EN

Promass S:
DIN 11851, thread

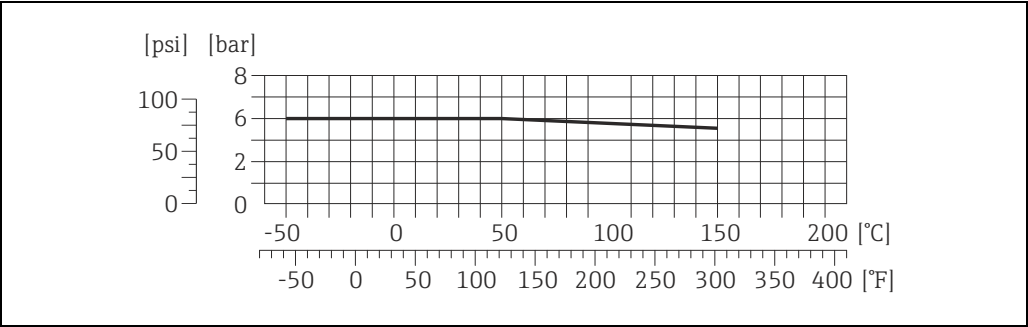
Connection material: 1.4404 (F316/F316L)



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.

Promass S:
SMS 1145, thread

Connection material: 1.4404 (F316/F316L)



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.

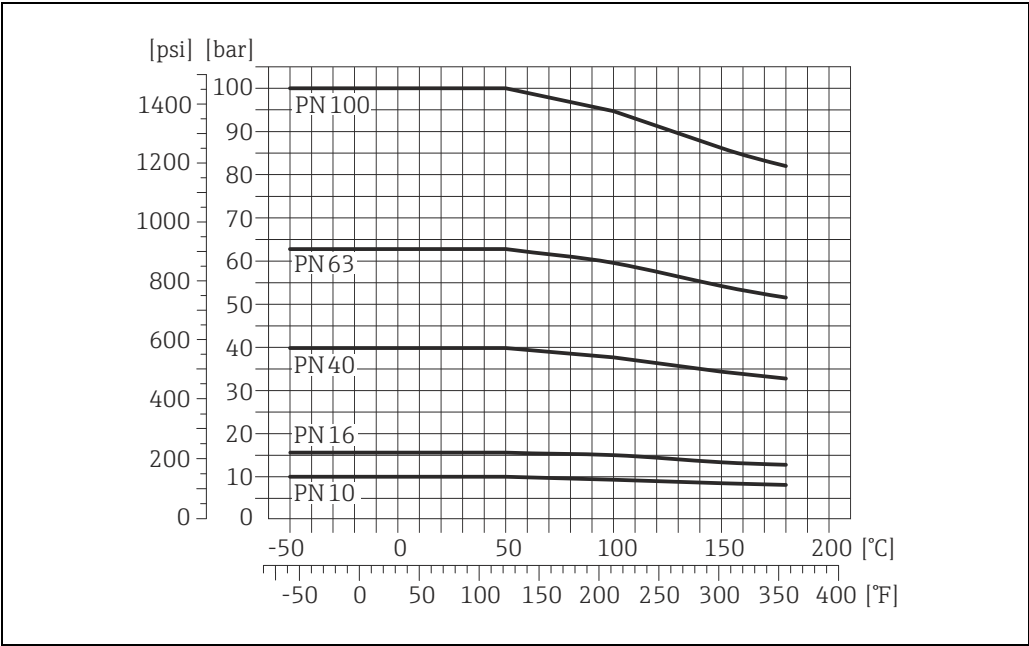
Promass S:
Tri-Clamp;
ISO 2852, clamp;
DIN 32676, clamp

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.

Promass X

Promass X:
Flange according to
EN 1092-1 (DIN 2501)

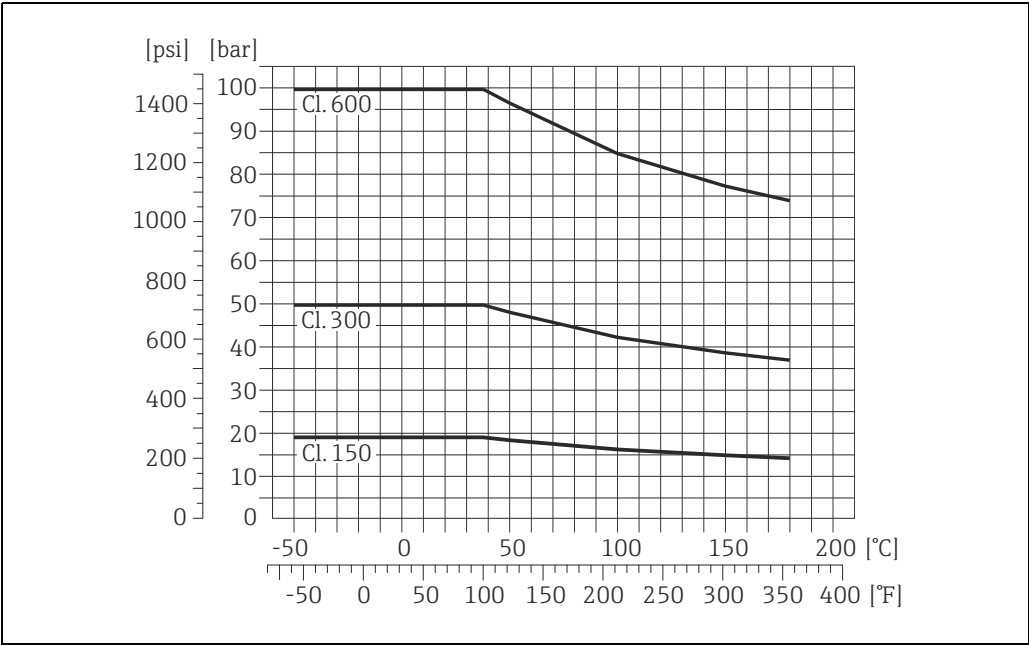
Flange material: 1.4404 (F316/F316L)



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Promass X:
Flange according to
ASME B16.5

Flange material: 1.4404 (316/316L)



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