

## VEGAPULS66



### Approval directive / Scope

None / World-wide  
 Shipbuilding / World-wide  
 ATEX / Europe  
 IEC / World-wide  
 FM / USA  
 CSA / Canada  
 UKR Sepro / Ukraine  
 GOST-K/EAC / Kazakhstan  
 NEPSI / China  
 INMETRO / Brazil  
 IA / South Africa  
 KOSHA / Korea  
 IEC / Australia  
 CCOE / India

### Approval

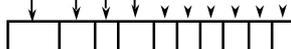
**XX** without  
**XM** Ship approval  
**CX** ATEX II 1G, 1/2G, 2G Ex ia IIC T6  
**CA** ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + WHG  
**CM** ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + Ship approval  
**CK** ATEX II 1G, 1/2G, 2G Ex ia IIC + II 1D, 1/2D, 2D Ex t IIIC  
**CI** IEC Ex ia IIC T6  
**DX** ATEX II 1/2G, 2G Ex db ia IIC T5/T6  
**DA** ATEX II 1/2G, 2G Ex db ia IIC T5/T6 + WHG  
**DM** ATEX II 1/2G, 2G Ex db ia IIC T5/T6 + Ship approval  
**DK** ATEX II 1/2G, 2G Ex db ia IIC + II 1D, 1/2D, 2D Ex t IIIC  
**DI** IEC Ex db ia IIC T6  
**CK** IEC Ex ia IIC Ga, Gb + Ex t IIIC T\* Da, Da/Db, Db  
**DK** IEC Ex db ia IIC Ga/Gb, Gb + Ex t IIIC T\* Da, Da/Db, Db  
**GX** ATEX II 1D, 1/2D, 2D Ex t IIIC T\* Da, Da/Db, Db  
**RX** ATEX II 1D, 1/2D, 2D Ex t IIIC T\* Da, Da/Db, Db  
**CI** IEC Ex ia IIC T6  
**DI** IEC Ex db ia IIC T6  
**CK** IEC Ex ia IIC Ga, Gb + Ex t IIIC T\* Da, Da/Db, Db  
**DK** IEC Ex db ia IIC Ga/Gb, Gb + Ex t IIIC T\* Da, Da/Db, Db  
**GI** ATEX Ex t IIIC T\* Da, Da/Db, Db  
**RI** ATEX Ex t IIIC T\* Da, Da/Db, Db  
**RX** IEC Ex ta IIIC T\* Da, Da/Db, Da/Dc, Db  
**JF** TIIS Ex ia  
**JG** TIIS Ex d ia  
**UX** FM (NI) CL I, DIV2, GP ABCD  
**UA** FM (NI) CL I, DIV2, GP ABCD + Ship approval  
**UF** FM (IS) CL I, II, III, DIV1, GP ABCDEF  
**UB** FM (IS) CL I, II, III, DIV1, GP ABCDEFG + Ship approval  
**UG** FM (XP-IS) CL I, II, III, DIV1, GP ABCDEFG  
**UE** FM (XP-IS) CL I, II, III, DIV1, GP ABCDEFG + Ship approval  
**UR** FM (DIP) CL I, II, III, DIV1, GP E,F,G  
**UD** FM (XP) CL I, DIV1, GP ABCD, (DIP) CL II, III, DIV1, GP EFG  
**KX** CSA (NI) Cl I, Div 2, Grp A,B,C,D  
**KF** CSA (IS) CL I, II, III, Div 1, Grp A,B,C,D,E,F,G  
**KR** CSA (DIP) CL I, II, III, Div 1, Grp E,F,G  
**KG** CSA (XP-IS) CL I, II, III, Div 1, Grp A,B,C,D,E,F,G

### SIL qualification

Without  
 with, incl. Safety Manual

### Version / Material

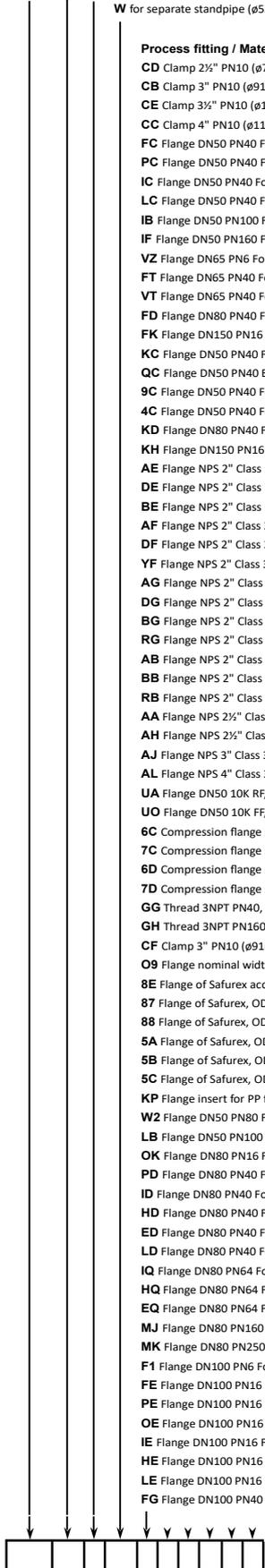
**A** for standpipe / 316L DN50/2"  
**D** with horn antenna (ø75mm) / 316L  
**N** with horn antenna (ø75mm) / Alloy C22 (2.4602)  
**E** with horn antenna (ø96mm) / 316L  
**O** with horn antenna (ø96mm) / Alloy C22 (2.4602)  
**H** with horn antenna (ø145mm) / 316L  
**Q** with horn antenna (ø145mm) / Alloy C22 (2.4602)  
**I** with horn antenna (ø195mm) / 316L  
**R** with horn antenna (ø195mm) / Alloy C22 (2.4602)  
**J** with horn antenna (ø240mm) / 316L  
**F** with standpipe (ø52mm) / 316L  
**G** with standpipe (ø52mm) / Alloy C22 (2.4602)  
**X** for separate antenna  
**Y** without horn antenna (ø140mm) / enamel  
**Z** without horn antenna (ø160mm) / enamel  
**C** with horn antenna (ø48x35mm) / 316L  
**K** with horn antenna (ø140mm) / enamel  
**1** with horn antenna (ø145mm) welded in flange 6" 150lb / 316L  
**L** with horn antenna (ø160mm) / enamel  
**8** for separate standpipe (ø52mm) / Safurex HIP + Al2 O3 99.8% pol.  
**9** for separate standpipe (ø52mm) / Safurex + Al2 O3 99.8% pol.



W for separate standpipe (ø52mm) / Safurex

**Process fitting / Material**

- CD** Clamp 2½" PN10 (ø77.5mm) DIN32676, ISO2852 / 316L
- CB** Clamp 3" PN10 (ø91mm) DIN32676, ISO2852 / 316L
- CE** Clamp 3½" PN10 (ø106mm) DIN32676, ISO2852 / 316L
- CC** Clamp 4" PN10 (ø119mm) DIN32676, ISO2852 / 316L
- FC** Flange DN50 PN40 Form C, DIN2501 / 316/316L
- PC** Flange DN50 PN40 Form C, DIN2501 / 316/316L, Alloy C22 (2.4602) plated
- IC** Flange DN50 PN40 Form F, DIN2501 / 316/316L
- LC** Flange DN50 PN40 Form V13, DIN2501 / 316/316L
- IB** Flange DN50 PN100 Form F, DIN2501 / 316/316L
- IF** Flange DN50 PN160 Form F, DIN2501 / 316/316L
- VZ** Flange DN65 PN6 Form B, DIN2501 / 316/316L
- FT** Flange DN65 PN40 Form C, DIN2501 / 316/316L
- VT** Flange DN65 PN40 Form B, DIN2501 / 316/316L
- FD** Flange DN80 PN40 Form C, DIN2501 / 316/316L
- FK** Flange DN150 PN16 Form C, DIN2501 / 316/316L
- KC** Flange DN50 PN40 Form B1, EN1092-1 / 316/316L
- QC** Flange DN50 PN40 EN1092-1 Form C / 316/316L
- 9C** Flange DN50 PN40 Form D, EN1092-1 / 316/316L
- 4C** Flange DN50 PN40 Form E, EN1092-1 / 316/316L
- KD** Flange DN80 PN40 Form B1, EN1092-1 / 316/316L
- KH** Flange DN150 PN16 Form B1, EN1092-1 / 316/316L
- AE** Flange NPS 2" Class 150 RF, ASME B16.5 / 316/316L
- DE** Flange NPS 2" Class 150 RF, ASME B16.5 / Alloy C22 (2.4602)
- BE** Flange NPS 2" Class 150 RF, ASME B16.5 / 316/316L, Alloy C22 (2.4602) plated
- AF** Flange NPS 2" Class 300 RF, ASME B16.5 / 316/316L
- DF** Flange NPS 2" Class 300 RF, ASME B16.5 / Alloy C22 (2.4602)
- YF** Flange NPS 2" Class 300 LF, ASME B16.5 / 316/316L
- AG** Flange NPS 2" Class 600 RF, ASME B16.5 / 316/316L
- DG** Flange NPS 2" Class 600 RF, ASME B16.5 / Alloy C22 (2.4602)
- BG** Flange NPS 2" Class 600 RF, ASME B16.5 / 316/316L, Alloy C22 (2.4602) plated
- RG** Flange NPS 2" Class 600 RJF, ASME B16.5 / 316/316L
- AB** Flange NPS 2" Class 1500 RF, ASME B16.5 / 316/316L
- BB** Flange NPS 2" Class 1500 RF, ASME B16.5 / 316/316L, Alloy C22 (2.4602) plated
- RB** Flange NPS 2" Class 1500 RJF, ASME B16.5 / 316/316L
- AA** Flange NPS 2½" Class 150 RF, ASME B16.5 / 316/316L
- AH** Flange NPS 2½" Class 300 RF, ASME B16.5 / 316/316L
- AJ** Flange NPS 3" Class 300 RF, ASME B16.5 / 316/316L
- AL** Flange NPS 4" Class 300 RF, ASME B16.5 / 316/316L
- UA** Flange DN50 10K RF, JIS / 316/316L
- UO** Flange DN50 10K FF, JIS / 316/316L
- 6C** Compression flange suitable for flange 1½" 150lb, ASME / 316L
- 7C** Compression flange suitable for flange 1½" 150lb, ASME / Alloy C22 (2.4602)
- 6D** Compression flange suitable for flange 1½" 300lb, ASME / 316L
- 7D** Compression flange suitable for flange 1½" 300lb, ASME / Alloy C22 (2.4602)
- GG** Thread 3NPT PN40, ASME B1.20.1 / 316L
- GH** Thread 3NPT PN160, ASME B1.20.1 / 316L
- CF** Clamp 3" PN10 (ø91mm) / 316L, with antenna fastening
- O9** Flange nominal width 50, hole for M8/PP
- 8E** Flange of Safurex according to customer drawing DWG-85112-01
- 87** Flange of Safurex, OD 215,9; PCD 165,1; 54mm thick
- 88** Flange of Safurex, OD 215,9; PCD 165,1; 54mm strong provided by customer
- 5A** Flange of Safurex, OD 215,9; PCD 165,1; 54mm strong provided by customer
- 5B** Flange of Safurex, OD 215,9; PCD 165,1; 65mm thick provided by customer
- 5C** Flange of Safurex, OD 418; PCD 317,5; 90 mm thick provided by customer
- KP** Flange insert for PP flange
- W2** Flange DN50 PN80 Form L, DIN2501 / 1.4435
- LB** Flange DN50 PN100 Form V13, DIN2501 / 316/316L
- OK** Flange DN80 PN16 Form B / PP
- PD** Flange DN80 PN40 Form C, DIN2501 / 316/316L, Alloy C22 (2.4602) plated
- ID** Flange DN80 PN40 Form F, DIN2501 / 316/316L
- HD** Flange DN80 PN40 Form N, DIN2501 / 316/316L
- ED** Flange DN80 PN40 Form E, DIN2501 / 316/316L
- LD** Flange DN80 PN40 Form V13, DIN2501 / 316/316L
- IQ** Flange DN80 PN64 Form F, DIN2501 / 316/316L
- HQ** Flange DN80 PN64 Form N, DIN2501 / 316/316L
- EQ** Flange DN80 PN64 Form E, DIN2501 / 316/316L
- MJ** Flange DN80 PN160 Form L, DIN2501 / 316/316L
- MK** Flange DN80 PN250 Form L, DIN2501 / 316/316L
- F1** Flange DN100 PN6 Form C, DIN2501 / 316/316L
- FE** Flange DN100 PN16 Form C, DIN2501 / 316/316L
- PE** Flange DN100 PN16 Form C, DIN2501 / 316/316L, Alloy C22 (2.4602) plated
- OE** Flange DN100 PN16 Form B / PP
- IE** Flange DN100 PN16 Form F, DIN2501 / 316/316L
- HE** Flange DN100 PN16 Form N, DIN2501 / 316/316L
- LE** Flange DN100 PN16 Form V13, DIN2501 / 316/316L
- FG** Flange DN100 PN40 Form C, DIN2501 / 316/316L



	<b>PG</b> Flange DN100 PN40 Form C, DIN2501 / 316/316L, Alloy C22 (2.4602) plated
	<b>IG</b> Flange DN100 PN40 Form F, DIN2501 / 316/316L
	<b>HG</b> Flange DN100 PN40 Form N, DIN2501 / 316/316L
	<b>OG</b> Flange DN100 PN40 Form N, DIN2501 / Alloy C22 (2.4602)
	<b>LG</b> Flange DN100 PN40 Form V13, DIN2501 / 316/316L
	<b>IY</b> Flange DN100 PN64 Form F, DIN2501 / 316/316L
	<b>HY</b> Flange DN100 PN64 Form N, DIN2501 / 316/316L
	<b>I4</b> Flange DN100 PN100 Form F, DIN2501 / 316/316L
	<b>I5</b> Flange DN100 PN160 Form F, DIN2501 / 316/316L
	<b>S7</b> Flange DN100 PN320 Form E, DIN2501 / 316/316L, Alloy C276 (2.4819) plated
	<b>FF</b> Flange DN125 PN16 Form C, DIN2501 / 316/316L
	<b>FB</b> Flange DN150 PN6 Form C, DIN2501 / 316/316L
	<b>PH</b> Flange DN150 PN16 Form C, DIN2501 / 316/316L, Alloy C22 (2.4602) plated
	<b>VH</b> Flange DN150 PN16 Form B, DIN2501 / 316/316L
	<b>OH</b> Flange DN150 PN16 Form B / PP
	<b>IH</b> Flange DN150 PN16 Form F, DIN2501 / 316/316L
	<b>HH</b> Flange DN150 PN16 Form N, DIN2501 / 316/316L
	<b>FN</b> Flange DN150 PN40 Form C, DIN2501 / 316/316L
	<b>PN</b> Flange DN150 PN40 Form C, DIN2501 / 316/316L, Alloy C22 (2.4602) plated
	<b>IN</b> Flange DN150 PN40 Form F, DIN2501 / 316/316L
	<b>HN</b> Flange DN150 PN40 Form N, DIN2501 / 316/316L
	<b>LN</b> Flange DN150 PN40 Form V13, DIN2501 / 316/316L
	<b>E7</b> Flange DN150 PN64 Form E, DIN2501 / 316/316L
	<b>3Y</b> Flange DN150 PN64 Form E, DIN2501 / 316/316L, Alloy C22 (2.4602) plated
	<b>EZ</b> Flange DN150 PN100 Form E, DIN2501 / 316/316L
	<b>3Z</b> Flange DN150 PN100 Form E, DIN2501 / 316/316L, Alloy C22 (2.4602) plated
	<b>FV</b> Flange DN200 PN6 Form C, DIN2501 / 316/316L
	<b>FJ</b> Flange DN200 PN10 Form C, DIN2501 / 316/316L
	<b>PJ</b> Flange DN200 PN10 Form C, DIN2501 / 316/316L, Alloy C22 (2.4602) plated
	<b>IJ</b> Flange DN200 PN10 Form F, DIN2501 / 316/316L
	<b>FL</b> Flange DN200 PN16 Form C, DIN2501 / 316/316L
	<b>PL</b> Flange DN200 PN16 Form C, DIN2501 / 316/316L, Alloy C22 (2.4602) plated
	<b>IL</b> Flange DN200 PN16 Form F, DIN2501 / 316/316L
	<b>FO</b> Flange DN200 PN25 Form C, DIN2501 / 316/316L
	<b>IO</b> Flange DN200 PN25 Form F, DIN2501 / 316/316L
	<b>FU</b> Flange DN200 PN40 Form C, DIN2501 / 316/316L
	<b>IU</b> Flange DN200 PN40 Form F, DIN2501 / 316/316L
	<b>M8</b> Flange DN200 PN250 Form L, DIN2501 / 316/316L
	<b>FR</b> Flange DN250 PN10 Form C, DIN2501 / 316/316L
	<b>VR</b> Flange DN250 PN10 Form B, DIN2501 / 316/316L
	<b>FI</b> Flange DN250 PN16 Form C, DIN2501 / 316/316L
	<b>PI</b> Flange DN250 PN16 Form C, DIN2501 / 316/316L, Alloy C22 (2.4602) plated
	<b>OI</b> Flange DN250 PN16 Form B / PP
	<b>FM</b> Flange DN300 PN10 Form C, DIN2501 / 316/316L
	<b>FA</b> Flange DN300 PN16 Form C, DIN2501 / 316/316L
	<b>9D</b> Flange DN80 PN40 Form D, EN1092-1 / 316/316L
	<b>J6</b> Flange DN80 PN100 Form B2, EN1092-1 / 316/316L
	<b>KE</b> Flange DN100 PN16 Form B1, EN1092-1 / 316/316L
	<b>ZE</b> Flange DN100 PN16 Form B1, EN1092-1 / 316/316L, Alloy C22 (2.4602) plated
	<b>JE</b> Flange DN100 PN16 Form F, EN1092-1 / 316/316L
	<b>KG</b> Flange DN100 PN40 Form B1, EN1092-1 / 316/316L
	<b>QG</b> Flange DN100 PN40 Form C, EN1092-1 / 316/316L
	<b>9G</b> Flange DN100 PN40 Form D, EN1092-1 / 316/316L
	<b>J4</b> Flange DN100 PN100 Form B2, EN1092-1 / 316/316L
	<b>4K</b> Flange DN100 PN320 Form B1, EN1092-1 / 316/316L
	<b>ZH</b> Flange DN150 PN16 Form B1, EN1092-1 / 316/316L, Alloy C22 (2.4602) plated
	<b>9H</b> Flange DN150 PN16 Form D, EN1092-1 / 316/316L
	<b>9A</b> Flange DN150 PN16 Form D, EN1092-1 / Alloy C22 (2.4602)
	<b>4H</b> Flange DN150 PN16 Form E, EN1092-1 / 316/316L
	<b>KN</b> Flange DN150 PN40 Form B1, EN1092-1 / 316/316L
	<b>ZN</b> Flange DN150 PN40 Form B1, EN1092-1 / 316/316L, Alloy C22 (2.4602) plated
	<b>KJ</b> Flange DN200 PN10 Form B1, EN1092-1/05 / 316/316L
	<b>9J</b> Flange DN200 PN10 Form D, EN1092-1/05 / 316/316L
	<b>KL</b> Flange DN200 PN16 Form B1, EN1092-1/05 / 316/316L
	<b>KS</b> Flange DN200 PN16 Form E, EN1092-1/05 / 316/316L
	<b>KO</b> Flange DN200 PN25 Form B1, EN1092-1/05 / 316/316L
	<b>9O</b> Flange DN200 PN25 Form D, EN1092-1/05 / 316/316L
	<b>KU</b> Flange DN200 PN40 Form B1, EN1092-1/05 / 316/316L
	<b>ZU</b> Flange DN200 PN40 Form B1, EN1092-1 / 316/316L, Alloy C22 (2.4602) plated
	<b>9P</b> Flange DN200 PN40 Form E, EN1092-1/05 / 316/316L
	<b>KR</b> Flange DN250 PN10 Form B1, EN1092-1/05 / 316/316L
	<b>KI</b> Flange DN250 PN16 Form B1, EN1092-1/05 / 316/316L
	<b>KA</b> Flange DN250 PN25 Form B1, EN1092-1/05 / 316/316L
	<b>KW</b> Flange DN250 PN40 Form B1, EN1092-1/05 / 316/316L
	<b>ZW</b> Flange DN250 PN40 Form B1, EN1092-1 / 316/316L, Alloy C22 (2.4602) plated
	<b>JT</b> Flange DN350 PN40 Form B2, EN1092-1/05 / 316/316L
	<b>13</b> Flange DN50 PN200 GOST 12815-80.7 / 316/316L
	<b>1J</b> Flange DN80 PN160 GOST 12815-80.7 / 316/316L
	<b>BF</b> Flange NPS 2" Class 300 RF, ASME B16.5 / 316/316L, Alloy C22 (2.4602) plated
	<b>AI</b> Flange NPS 3" Class 150 RF, ASME B16.5 / 316/316L
	<b>DI</b> Flange NPS 3" Class 150 RF, ASME B16.5 / Alloy C22 (2.4602)
	<b>BI</b> Flange NPS 3" Class 150 RF, ASME B16.5 / 316/316L, Alloy C22 (2.4602) plated
	<b>DJ</b> Flange NPS 3" Class 300 RF, ASME B16.5 / Alloy C22 (2.4602)
	<b>BJ</b> Flange NPS 3" Class 300 RF, ASME B16.5 / 316/316L, Alloy C22 (2.4602) plated
	<b>YJ</b> Flange NPS 3" Class 300 LFF, ASME B16.5 / 316/316L
	<b>AZ</b> Flange NPS 3" Class 600 RF, ASME B16.5 / 316/316L
	<b>AR</b> Flange NPS 3" Class 900 RF, ASME B16.5 / 316/316L
	<b>LR</b> Flange NPS 3" Class 900 RJF, ASME B16.5 / 316/316L
	<b>2R</b> Flange NPS 3" Class 900 LT, ASME B16.5 / 316/316L

- LV Flange NPS 3" Class 1500 RJF, ASME B16.5 / 316/316L
- 2A Flange NPS 3" Class 1500 LT, ASME B16.5 / 316/316L
- 2V Flange NPS 3" Class 1500 LF, ASME B16.5 / Alloy C22 (2.4602)
- AK Flange NPS 4" Class 150 RF, ASME B16.5 / 316/316L
- DK Flange NPS 4" Class 150 RF, ASME B16.5 / Alloy C22 (2.4602)
- BK Flange NPS 4" Class 150 RF, ASME B16.5 / 316/316L, Alloy C22 (2.4602) plated
- YK Flange NPS 4" Class 150 FF, ASME B16.5 / 316/316L
- 9L Flange NPS 4" Class 300 RF, ASME B16.5 / A182 F316 Norsok provided by customer
- DL Flange NPS 4" Class 300 RF, ASME B16.5 / Alloy C22 (2.4602)
- BL Flange NPS 4" Class 300 RF, ASME B16.5 / 316/316L, Alloy C22 (2.4602) plated
- LL Flange NPS 4" Class 300 RJF, ASME B16.5 / 316/316L
- TL Flange NPS 4" Class 300 LM, ASME B16.5 / 316/316L
- AS Flange NPS 4" Class 600 RF, ASME B16.5 / 316/316L
- BS Flange NPS 4" Class 600 RF, ASME B16.5 / 316/316L, Alloy C22 (2.4602) plated
- LS Flange NPS 4" Class 600 RJF, ASME B16.5 / 316/316L
- L2 Flange NPS 4" Class 900 RJF, ASME B16.5 / 316/316L
- AW Flange NPS 4" Class 1500 RF, ASME B16.5 / 316/316L
- LW Flange NPS 4" Class 1500 RJF, ASME B16.5 / 316/316L
- 2W Flange NPS 4" Class 1500 RJF, ASME B16.5 / Alloy C22 (2.4602)
- A1 Flange NPS 5" Class 300 RF, ASME B16.5 / 316/316L
- A4 Flange NPS 5" Class 900 RF, ASME B16.5 / 316/316L
- AM Flange NPS 6" Class 150 RF, ASME B16.5 / 316/316L
- DM Flange NPS 6" Class 150 RF, ASME B16.5 / Alloy C22 (2.4602)
- BM Flange NPS 6" Class 150 RF, ASME B16.5 / 316/316L, Alloy C22 (2.4602) plated
- NM Flange NPS 6" Class 150 FF, ASME B16.5 / 316/316L
- XM Flange NPS 6" Class 150 FF, ASME B16.5 / Alloy C22 (2.4602)
- AO Flange NPS 6" Class 300 RF, ASME B16.5 / 316/316L
- DO Flange NPS 6" Class 300 RF, ASME B16.5 / Alloy C22 (2.4602)
- BO Flange NPS 6" Class 300 RF, ASME B16.5 / 316/316L, Alloy C22 (2.4602) plated
- TO Flange NPS 6" Class 300 ST, ASME B16.5 / 316/316L
- YO Flange NPS 6" Class 300 LF, ASME B16.5 / 316/316L
- QZ Flange NPS 6" Class 300 LM, ASME B16.5 / 316/316L
- AU Flange NPS 6" Class 400 RF, ASME B16.5 / 316/316L
- AY Flange NPS 6" Class 600 RF, ASME B16.5 / 316/316L
- LY Flange NPS 6" Class 600 RJF, ASME B16.5 / 316/316L
- AN Flange NPS 8" Class 150 RF, ASME B16.5 / 316/316L
- DN Flange NPS 8" Class 150 RF, ASME B16.5 / Alloy C22 (2.4602)
- BN Flange NPS 8" Class 150 RF, ASME B16.5 / 316/316L, Alloy C22 (2.4602) plated
- AT Flange NPS 8" Class 300 RF, ASME B16.5 / 316/316L
- BT Flange NPS 8" Class 300 RF, ASME B16.5 / 316/316L, Alloy C22 (2.4602) plated
- A3 Flange NPS 8" Class 600 RF, ASME B16.5 / 316/316L
- B3 Flange NPS 8" Class 600 RF, ASME B16.5 / 316/316L, Alloy C22 (2.4602) plated
- AP Flange NPS 10" Class 150 RF, ASME B16.5 / 316/316L
- BP Flange NPS 10" Class 150 RF, ASME B16.5 / 316/316L, Alloy C22 (2.4602) plated
- JL Flange NPS 10" Class 150 RJF, ASME B16.5 / 316/316L
- AQ Flange NPS 10" Class 300 RF, ASME B16.5 / 316/316L
- A5 Flange NPS 12" Class 150 RF, ASME B16.5 / 316/316L
- UB Flange DN80 10K RF, JIS / 316/316L
- UI Flange DN80 10K FF, JIS / 316/316L
- US Flange DN80 30K RF, JIS / 316/316L
- UC Flange DN100 10K RF, JIS / 316/316L
- UR Flange DN100 20K RF, JIS / 316/316L
- UE Flange DN150 10K RF, JIS / 316/316L
- UF Flange DN200 10K RF, JIS / 316/316L
- UG Flange DN250 10K RF, JIS / 316/316L
- UM Flange NPS 4" Class 150 RF, JPI / 316/316L
- UH Flange NPS 6" Class 150 RF, JPI / 316/316L
- B9 Flange DN150 PN100 RJ HG/T 20592-2009 / 316/316L
- BX Flange DN150 PN160 RJ HG/T 20592-2009 / 316/316L
- 6I Compression flange suitable for flange 3" 150lb, ASME / 316L
- 7I Compression flange suitable for flange 3" 150lb, ASME / Alloy C22 (2.4602)
- 6J Compression flange suitable for flange 3" 300lb, ASME / 316L
- 7J Compression flange suitable for flange 3" 300lb, ASME / Alloy C22 (2.4602)

**Application**

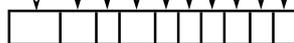
- Standard
- For measurement in standpipe/bypass tube ø50mm
- For measurement in standpipe/bypass tube ø80mm
- For measurement in standpipe/bypass tube ø100mm

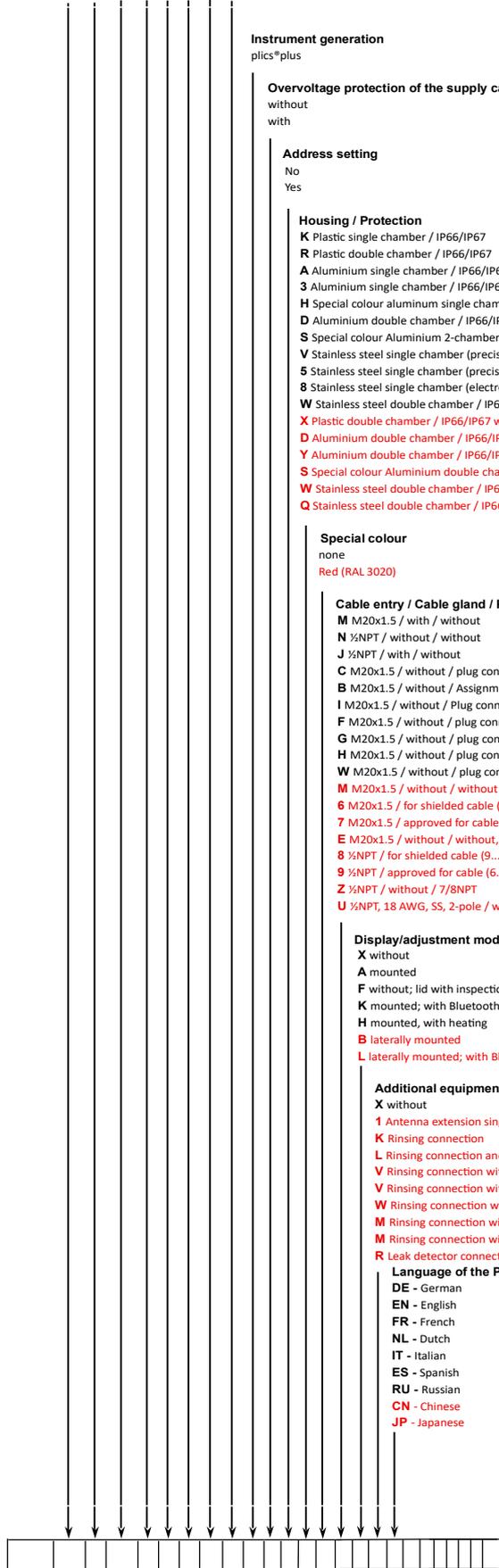
**Seal / Process temperature**

- 2 FKM (A+P GLT FPM 70.16-06) / -40...+150°C
- 3 FFKM (Kalrez 6375) / -20...+150°C
- 4 Silicone FEP coated (A+P FEP-O-SEAL)-Viton / -40...+150°C
- 5 EPDM (A+P 70.10-02) / -40...+150°C
- G Graphite and ceramic / -60...+250°C
- H Graphite and ceramic / -60...+400°C
- 1 FKM (A+P GLT FPM 70.16-06) / -40...+80°C
- 6 PTFE (Teflon) / -40...+200°C
- I Graphite and ceramic / -60...+300°C

**Electronics**

- H Two-wire 4 ... 20 mA/HART
- 7 Four-wire Modbus (converter in second chamber)
- B Four-wire 4 ... 20 mA/HART; 90 ... 253 V AC; 50/60 Hz
- I Four-wire 4 ... 20 mA/HART; 9.6 ... 48 V DC; 20 ... 42 V AC
- P Two-wire Profibus PA
- F Two-wire Foundation Fieldbus
- J HART and power pack
- V Four-wire 4 ... 20 mA/HART





**Instrument generation**

plics\*plus

**Overvoltage protection of the supply cable**

without  
with

**Address setting**

No  
Yes

**Housing / Protection**

- K** Plastic single chamber / IP66/IP67
- R** Plastic double chamber / IP66/IP67
- A** Aluminium single chamber / IP66/IP68 (0.2bar)
- 3** Aluminium single chamber / IP66/IP68 (1bar)
- H** Special colour aluminum single chamber / IP66/IP68 (0.2 bar)
- D** Aluminium double chamber / IP66/IP68 (0.2bar)
- S** Special colour Aluminium 2-chamber/ IP66/IP68 (0.2bar)
- V** Stainless steel single chamber (precision casting) / IP66/IP68 (0.2 bar)
- 5** Stainless steel single chamber (precision casting) / IP66/IP68 (1bar)
- 8** Stainless steel single chamber (electropolished) / IP66/IP68 (0.2bar)
- W** Stainless steel double chamber / IP66/IP68 (0.2 bar)
- X** Plastic double chamber / IP66/IP67 with M12x1 for VEGADIS 61
- D** Aluminium double chamber / IP66/IP67
- Y** Aluminium double chamber / IP66/IP67 with M12x1 for VEGADIS 61
- S** Special colour Aluminium double chamber / IP66/IP67
- W** Stainless steel double chamber / IP66/IP67
- Q** Stainless steel double chamber / IP66/IP67 with M12x1 for VEGADIS 61

**Special colour**

none  
Red (RAL 3020)

**Cable entry / Cable gland / Plug connection**

- M** M20x1.5 / with / without
- N** ½NPT / without / without
- J** ½NPT / with / without
- C** M20x1.5 / without / plug connector M12x1, assignment A
- B** M20x1.5 / without / Assignment B
- I** M20x1.5 / without / Plug connector acc. to ISO4400
- F** M20x1.5 / without / plug connector Harting HAN 7D (straight)
- G** M20x1.5 / without / plug connector Harting HAN 7D (bent)
- H** M20x1.5 / without / plug connector Harting HAN 8D (straight)
- W** M20x1.5 / without / plug connector Harting HAN 8D (bent)
- M** M20x1.5 / without / without
- 6** M20x1.5 / for shielded cable (9...13mm) with strain relief / without
- 7** M20x1.5 / approved for cable (6...12mm) / without
- E** M20x1.5 / without / without, additional M12x1 connection for VEGADIS
- 8** ½NPT / for shielded cable (9...13mm) with strain relief / without
- 9** ½NPT / approved for cable (6...12mm) / without
- Z** ½NPT / without / 7/8NPT
- U** ½NPT, 18 AWG, SS, 2-pole / without / 7/8NPT

**Display/adjustment module PLICSCOM**

- X** without
- A** mounted
- F** without; lid with inspection window
- K** mounted; with Bluetooth, magnetic pen operation
- H** mounted, with heating
- B** laterally mounted
- L** laterally mounted; with Bluetooth, magnetic pen operation

**Additional equipment**

- X** without
- 1** Antenna extension single section
- K** Rinsing connection
- L** Rinsing connection and antenna extension single section
- V** Rinsing connection with reflux valve
- V** Rinsing connection with reflux valve (Kalrez)
- W** Rinsing connection with reflux valve (Alloy C22 2.462)...200°C; (Kalrez)
- M** Rinsing connection with reflux valve and antenna extension, single-sectional
- M** Rinsing connection with reflux valve(Kalrez) and antenna extension, single sectional
- R** Leak detector connection

**Language of the PLICSCOM menu**

- DE** - German
- EN** - English
- FR** - French
- NL** - Dutch
- IT** - Italian
- ES** - Spanish
- RU** - Russian
- CN** - Chinese
- JP** - Japanese

**Customer-specific adjustment**

No

Yes

**Customer or application-specific parameter**

without

Customer-specific parameter set

Wave height measurement

Digestion tower measurement

Conveyor belt monitoring

Customer adjustment Messrs. SEBA

**Linearization**

No

Yes, please announce data

**Operating instructions**

**DE** - German

**EN** - English

**FR** - French

**NL** - Dutch

**DA** - Danish

**SV** - Swedish

**IT** - Italian

**ES** - Spanish

**PT** - Portuguese

**HU** - Hungarian

**UK** - Russian (Ukraine)

**ZH** - Chinese

**PL** - Polish

**CS** - Czech

**TR** - Turkish

**DE+EN** - German + English

**DE+FR** - German + French

**DE+IT** - German + Italian

**DE+ES** - German + Spanish

**EN+FR** - English + French

**EN+NL** - English + Netherlands

**EN+IT** - English + Italian

**EN+ES** - English + Spanish

**EN+PT** - English + Portuguese

**EN + ZH** - English + Chinese

**FR+NL** - French + Dutch

Without

**FI** - Finnish

**NO** - Norwegian

**RU** - Russian

**BY** - Russian (Belarus)

**KK** - Kazakh

**Ja** - Japanese

**KO** - Korean

**DE+NL** - German + Dutch

**DE+RU** - German + Russian

**EN+KK** - English + Russian (Kazakhstan)

**EN+RU** - English + Russian

**EN+PL** - English + Polish

**EN+TR** - English + Turkish

**DE+EN+FR+ES** - German + English + French + Spanish

**RU + KK** - Russian + Kazakh

**RU+KK+EN** - Russian + Kazakh + English

**DE+EN+FR+ES** - German + English + French + Spanish

**DE+EN** - German + English

**FR+ES** - French + Spanish

**DE+EN+FR** - German + English + French

**UN** - Combination approval

**General safety instructions**

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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## Others

Unit: m

### Number of operating instructions

1...1000

### Measurement loop identification label

Without  
of stainless steel  
of foil

### Additional cleaning procedure

Without  
Oil, grease and silicone oil-free (incl. 3.1 Inspection certificate)

### Certificate / Standard

without  
(H) 2.2-Factory certificate for material (EN 10204)  
(D) 3.1-Inspection certificate for instrument with test data (EN 10204)  
(Q) Quality and Test plan  
(D+Q) 3.1 Inspection certificate for test data + Quality and test plan (EN 10204)  
(C) 3.1-Inspection certificate for material (EN 10204, NACE MR 0175)  
(C) 3.1-Inspection certificate for material (EN 10204)  
(H+Q) 2.2-Factory certification for material + Quality and test plan (EN 10204)  
(C+D) 3.1-Inspection certificate for material + Instrument with test data (EN 10204)  
(C+D+Q) 3.1-Inspection certificate for material + Instrument with test data + Quality and test plan (EN 10204)  
(C+D) 3.1-Inspection certificate for material + Instrument with test data (EN 10204, NACE MR 0175)  
(C+D+Q) 3.1-Inspection certificate for material + Instrument with test data + Quality and test plan (EN 10204, NACE MR 0175)  
(C+Q) 3.1-Inspection certificate for material + Quality and test plan (EN 10204)  
(C+Q) 3.1-Inspection certificate for material + Quality and test plan (EN 10204, NACE MR 0175)

### Test certificate

without  
Accuracy

### Dye penetration test

without  
with, incl. 3.1 Inspection certificate

### Pressure test

without  
according to AD2000-HP30, incl. 3.1 Inspection certificate  
acc. to ASME B31.1/B31.3, incl. 3.1 Inspection certificate

### Radiographic test

without  
with, incl. 3.1 Inspection certificate

### Helium leak test

without  
with (1.00\*E-06 mbar l/s), incl. 3.1 Inspection certificate  
with (1.00\*E-07 mbar l/s), incl. 3.1 Inspection certificate

### PMI test

without  
RFA (positive material identification) incl. 3.1 Inspection certificate  
OES (with carbon content) / RFA (test for mixed-up components) incl.3.1 Inspection certificate

### High voltage test

without  
with, incl. 3.1 Inspection certificate

### Low temperature test at -60 °C

without  
with, incl. 3.1 Inspection certificate

### Durability test more than 360 h

without  
with, incl. 3.1 Inspection certificate

### Suitable for tropical regions

without  
with, all attachment parts of metal (incl. 2.1 Factory certificate)

### Supply certificates

with goods  
with goods and separately via courier  
no choice