

## VEGAPULS68



### 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  
**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** TIS Ex ia  
**JG** TIS 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

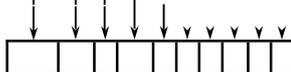
**B** with horn antenna (ø40mm) / 316L  
**R** with horn antenna (ø40mm) / Alloy C22 (2.4602)  
**C** with horn antenna (ø48mm) / 316L  
**S** with horn antenna (ø48mm) / Alloy C22 (2.4602)  
**I** with horn antenna (ø75mm) / 1.4848  
**D** with horn antenna (ø75mm) / 316L  
**N** with horn antenna (ø75mm) / Alloy C22 (2.4602)  
**1** with horn antenna (ø75mm) / 316L Safecoat coated  
**P** Horn antenna (ø75mm) / 316L, electropolished  
**J** with horn antenna (ø95mm) / 1.4848  
**E** with horn antenna (ø95mm) / 316L  
**O** with horn antenna (ø95mm) / Alloy C22 (2.4602)  
**U** with horn antenna (ø95mm) / 316L, Safecoat coated  
**H** with parabolic antenna (ø245mm), extended by 300mm / 316L  
**X** for separate horn antenna  
**K** with parabolic antenna (ø245mm) / 316L  
**T** with horn antenna (ø95mm) / 316L, electropolished

### Process fitting / Material

**GD** Thread G1½ PN40, DIN3852-A / 316L  
**ND** Thread 1½NPT PN40, ASME B1.20.1 / 316L  
**NE** Thread 2NPT PN40, ASME B1.20.1 / 316L



- GG Thread G2 PN40, DIN3852-A / 316L
- LB Flange DN40 PN40 Form V13, DIN2501 / 316/316L
- FC Flange DN50 PN40 Form C, DIN2501 / 316/316L
- IC Flange DN50 PN40 Form F, DIN2501 / 316/316L
- LC Flange DN50 PN40 Form V13, DIN2501 / 316/316L
- EP Flange DN50 PN64 Form E, DIN2501 / 316/316L
- LS Flange DN50 PN100 Form V13, DIN2501 / 316/316L
- L6 Flange DN80 PN100 Form V13, DIN2501 / 316/316L
- CE Flange DN100 PN16 Form B, DIN2501 / 316/316L
- F2 Flange DN65 PN16 Form C, DIN2501 / 316/316L
- FT Flange DN65 PN40 Form C, DIN2501 / 316/316L
- FD Flange DN80 PN40 Form C, DIN2501 / 316/316L
- ID Flange DN80 PN40 Form F, DIN2501 / 316/316L
- HD Flange DN80 PN40 Form N, DIN2501 / 316/316L
- LD Flange DN80 PN40 Form V13, DIN2501 / 316/316L
- AB Flange NPS 6" Class 900 RF, ASME B16.5 / 316/316L
- F1 Flange DN100 PN6 Form C, DIN2501 / 316/316L
- FE Flange DN100 PN16 Form C, DIN2501 / 316/316L
- 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
- IG Flange DN100 PN40 Form F, DIN2501 / 316/316L
- HG Flange DN100 PN40 Form N, DIN2501 / 316/316L
- LG Flange DN100 PN40 Form V13, DIN2501 / 316/316L
- LY Flange DN100 PN64 Form V13, DIN2501 / 316/316L
- FF Flange DN125 PN16 Form C, DIN2501 / 316/316L
- FK Flange DN150 PN16 Form C, DIN2501 / 316/316L
- CH Flange DN150 PN16 Form B, DIN2501 / 316/316L
- IH Flange DN150 PN16 Form F, DIN2501 / 316/316L
- HH Flange DN150 PN16 Form N, DIN2501 / 316/316L
- LH Flange DN150 PN16 Form V13, DIN2501 / 316/316L
- FN Flange DN150 PN40 Form C, DIN2501 / 316/316L
- IN Flange DN150 PN40 Form F, DIN2501 / 316/316L
- HN Flange DN150 PN40 Form N, DIN2501 / 316/316L
- JN Flange DN150 PN40 Form R13, DIN2501 / 316/316L
- FJ Flange DN200 PN10 Form C, DIN2501 / 316/316L
- IJ Flange DN200 PN10 Form F, DIN2501 / 316/316L
- FL Flange DN200 PN16 Form C, DIN2501 / 316/316L
- CL Flange DN200 PN16 Form B, DIN2501 / 316/316L
- FU Flange DN200 PN40 Form C, DIN2501 / 316/316L
- A5 Flange NPS 2" Class 1500 RF, ASME B16.5 / 316/316L
- FR Flange DN250 PN10 Form C, DIN2501 / 316/316L
- FI Flange DN250 PN16 Form C, DIN2501 / 316/316L
- KK Flange DN50 PN6 Form B1, EN1092-1 / 316/316L
- KC Flange DN50 PN40 Form B1, EN1092-1 / 316/316L
- JB Flange DN50 PN40 Form B2, EN1092-1 / 316/316L
- WC Flange DN50 PN40 EN1092-1 Form C / 316/316L
- 9C Flange DN50 PN40 Form D, EN1092-1 / 316/316L
- MC Flange DN50 PN40 EN1092-1 Form A / 316/316L
- B5 Flange DN50 PN160 Form F, EN1092-1 / 316/316L
- 93 Flange DN80 PN6 Form D, EN1092-1 / 316/316L
- KD Flange DN80 PN40 Form B1, EN1092-1 / 316/316L
- JD Flange DN80 PN40 Form B2, EN1092-1 / 316/316L
- WD Flange DN80 PN40 Form C, EN1092-1 / 316/316L
- 9D Flange DN80 PN40 Form D, EN1092-1 / 316/316L
- MD Flange DN80 PN40 Form A, EN1092-1 / 316/316L
- KQ Flange DN80 PN63 Form B1, EN1092-1 / 316/316L
- C6 Flange DN80 PN100 Form L(DIN2696), EN1092-1 / 316/316L
- KE Flange DN100 PN16 Form B1, EN1092-1 / 316/316L
- B1 Flange DN100 PN16 Form B1, EN1092-1 / 316/316L (Ra 3.2-6.3 µm; AARH 125-250µinch)
- WE Flange DN100 PN16 Form C, EN1092-1 / 316/316L
- 9E Flange DN100 PN16 Form D, EN1092-1 / 316/316L
- EE Flange DN100 PN16 Form E, EN1092-1 / 316/316L
- KG Flange DN100 PN40 Form B1, EN1092-1 / 316/316L
- WG Flange DN100 PN40 Form C, EN1092-1 / 316/316L
- 9G Flange DN100 PN40 Form D, EN1092-1 / 316/316L
- KY Flange DN100 PN63 Form B1, EN1092-1 / 316/316L
- HB Flange DN100 PN63 Form F, EN1092-1 / 316/316L
- K4 Flange DN100 PN100 Form B1, EN1092-1 / 316/316L
- KT Flange DN125 PN16 Form D, EN1092-1 / 316/316L
- KH Flange DN150 PN16 Form B1, EN1092-1 / 316/316L
- JH Flange DN150 PN16 Form B2, EN1092-1 / 316/316L
- WH Flange DN150 PN16 Form C, EN1092-1 / 316/316L
- 9H Flange DN150 PN16 Form D, EN1092-1 / 316/316L
- MA Flange DN150 PN16 Form A, EN1092-1 / 316/316L
- KN Flange DN150 PN40 Form B1, EN1092-1 / 316/316L
- JE Flange DN150 PN40 Form B2, EN1092-1 / 316/316L
- WN Flange DN150 PN40 Form C, EN1092-1 / 316/316L
- 9N Flange DN150 PN40 Form D, EN1092-1 / 316/316L
- MN Flange DN150 PN40 Form A, EN1092-1 / 316/316L
- WZ Flange DN150 PN100 Form C, EN1092-1 / 316/316L
- 9J Flange DN200 PN10 Form D, EN1092-1 / 316/316L
- KL Flange DN200 PN16 Form B1, EN1092-1 / 316/316L
- AX Flange DN200 PN25 Form E, EN1092-1 / 316/316L
- SS Flange NPS 4" Class 2500 RJF, ASME B16.5 / 316/316L
- W7 Flange DN250 PN25 Form C, EN1092-1 / 316/316L
- JR Flange DN350 PN16 Form B2, EN1092-1 / 316/316L
- JS Flange DN350 PN25 Form B2, EN1092-1 / 316/316L
- JT Flange DN350 PN40 Form B2, EN1092-1 / 316/316L
- YM Flange NPS 6" Class 150 FF, ASME B16.5 / 316/316L
- VA Flange 3" BS.10 Table D / 316/316L



	<b>VF</b> Flange 4" BS.10 Table E / 316/316L
	<b>AE</b> Flange NPS 2" Class 150 RF, ASME B16.5 / 316/316L
	<b>YE</b> Flange NPS 2" Class 150 FF, ASME B16.5 / 316/316L
	<b>AF</b> Flange NPS 2" Class 300 RF, ASME B16.5 / 316/316L
	<b>SF</b> Flange NPS 2" Class 300 RJF, ASME B16.5 / 316/316L
	<b>6F</b> Flange NPS 2" Class 300 LT, ASME B16.5 / 316/316L
	<b>OF</b> Flange NPS 2" Class 300 LF, ASME B16.5 / 316/316L
	<b>AG</b> Flange NPS 2" Class 600 RF, ASME B16.5 / 316/316L
	<b>BY</b> Flange NPS 2" Class 600 LT, ASME B16.5 / 316/316L
	<b>YF</b> Flange NPS 2" Class 300 FF, ASME B16.5 / 316/316L
	<b>A3</b> Flange NPS 2" Class 900 RF, ASME B16.5 / 316/316L
	<b>S3</b> Flange NPS 2" Class 900 RJF, ASME B16.5 / 316/316L
	<b>AA</b> Flange NPS 2½" Class 150 RF, ASME B16.5 / 316/316L
	<b>AL</b> Flange NPS 4" Class 300 RF, ASME B16.5 / 316/316L
	<b>2S</b> Flange NPS 2½" Class 1500 RJF, ASME B16.5 / 316/316L
	<b>AI</b> Flange NPS 3" Class 150 RF, ASME B16.5 / 316/316L
	<b>YI</b> Flange NPS 3" Class 150 FF, ASME B16.5 / 316/316L
	<b>TQ</b> Flange NPS 3" Class 150 SG, ASME B16.5 / 316/316L
	<b>AJ</b> Flange NPS 3" Class 300 RF, ASME B16.5 / 316/316L
	<b>LJ</b> Flange NPS 3" Class 300 RJF (R31), ASME B16.5 / 316/316L
	<b>HA</b> Flange NPS 3" Class 300 LG, ASME B16.5 / 316/316L
	<b>AZ</b> Flange NPS 3" Class 600 RF, ASME B16.5 / 316/316L
	<b>SZ</b> Flange NPS 3" Class 600 RJF, ASME B16.5 / 316/316L
	<b>BU</b> Flange NPS 3" Class 600 LT, ASME B16.5 / 316/316L
	<b>A7</b> Flange NPS 3" Class 900 RF, ASME B16.5 / 316/316L
	<b>S7</b> Flange NPS 3" Class 900 RJF, ASME B16.5 / 316/316L
	<b>SV</b> Flange NPS 3" Class 1500 RJF, ASME B16.5 / 316/316L
	<b>SC</b> Flange NPS 3" Class 2500 RJF, ASME B16.5 / 316/316L
	<b>A2</b> Flange NPS 3½" Class 150 RF, ASME B16.5 / 316/316L
	<b>A1</b> Flange NPS 3½" Class 300 RF, ASME B16.5 / 316/316L
	<b>AK</b> Flange NPS 4" Class 150 RF, ASME B16.5 / 316/316L
	<b>YK</b> Flange NPS 4" Class 150 FF, ASME B16.5 / 316/316L
	<b>B2</b> Flange NPS 4" Class 150 SG, ASME B16.5 / 316/316L
	<b>9L</b> Flange NPS 4" Class 300 RF, ASME B16.5 / 316/316L provided by customer
	<b>BR</b> Flange NPS 4" Class 300 RF, ASME B16.5 / 316/316L (Ra 1.6-3.2 µm; AARH 63-125µinch)
	<b>YL</b> Flange NPS 4" Class 300 FF, ASME B16.5 / 316/316L
	<b>SL</b> Flange NPS 4" Class 300 RJF, ASME B16.5 / 316/316L
	<b>6L</b> Flange NPS 4" Class 300 LT, ASME B16.5 / 316/316L
	<b>QL</b> Flange NPS 4" Class 300 LM, ASME B16.5 / 316/316L
	<b>B4</b> Flange NPS 4" Class 300 SG, ASME B16.5 / 316/316L
	<b>QN</b> Flange NPS 4" Class 300 LG, ASME B16.5 / 316/316L
	<b>AS</b> Flange NPS 4" Class 600 RF, ASME B16.5 / 316/316L
	<b>SB</b> Flange NPS 4" Class 600 RJF, ASME B16.5 / 316/316L
	<b>A4</b> Flange NPS 4" Class 900 RF, ASME B16.5 / 316/316L
	<b>34</b> Flange NPS 4" Class 900 SG, ASME B16.5 / 316/316L
	<b>SW</b> Flange NPS 4" Class 1500 RJF, ASME B16.5 / 316/316L
	<b>SS</b> Flange NPS 4" Class 2500 RJF, ASME B16.5 / 316/316L
	<b>DQ</b> Flange NPS 6" Class 150 RF, ASME B16.5 / 316/316L Ra 1.6-3.2 µm; AARH 63-125µinch)
	<b>AM</b> Flange NPS 6" Class 150 RF, ASME B16.5 / 316/316L
	<b>AO</b> Flange NPS 6" Class 300 RF, ASME B16.5 / 316/316L
	<b>TO</b> Flange NPS 6" Class 300 ST, ASME B16.5 / 316/316L
	<b>YO</b> Flange NPS 6" Class 300 FF, ASME B16.5 / 316/316L
	<b>QO</b> Flange NPS 6" Class 300 LM, ASME B16.5 / 316/316L
	<b>TP</b> Flange NPS 6" Class 300 SG, ASME B16.5 / 316/316L
	<b>AY</b> Flange NPS 6" Class 600 RF, ASME B16.5 / 316/316L
	<b>AN</b> Flange NPS 8" Class 150 RF, ASME B16.5 / 316/316L
	<b>YN</b> Flange NPS 8" Class 150 FF, ASME B16.5 / 316/316L
	<b>AT</b> Flange NPS 8" Class 300 RF, ASME B16.5 / 316/316L
	<b>AP</b> Flange NPS 10" Class 150 RF, ASME B16.5 / 316/316L
	<b>AQ</b> Flange NPS 10" Class 300 RF, ASME B16.5 / 316/316L
	<b>A9</b> Flange NPS 12" Class 150 RF, ASME B16.5 / 316/316L
	<b>SA</b> Flange NPS 12" Class 300 RF, ASME B16.5 / 316/316L
	<b>AR</b> Flange NPS 18" Class 150 RF, ASME B16.5 / 316/316L
	<b>EA</b> Flange DN100 PN160 M HG/T 20592-2009 / 316/316L
	<b>8D</b> Clamp 2½" PN16 (ø77.5mm) DIN32676, ISO2852 / 316L
	<b>8B</b> Clamp 3" PN10 (ø91mm) DIN32676, ISO2852 / 316L
	<b>8E</b> Clamp 3½" PN10 (ø106mm) DIN32676, ISO2852 / 316L
	<b>8C</b> Clamp 4" PN10 (ø119mm) DIN32676, ISO2852 / 316L
	<b>QM</b> Flange DN150 PN16, GOST 12815-80.1 / 316/316L
	<b>QC</b> Flange DN50 PN40 Form B, GOST 33259-2015 / 316/316L
	<b>UB</b> Flange DN80 10K RF, JIS / 316/316L
	<b>UQ</b> Flange DN80 20K RF, JIS / 316/316L
	<b>UC</b> Flange DN100 10K RF, JIS / 316/316L
	<b>UG</b> Flange DN100 10K FF, JIS / 316/316L
	<b>YZ</b> Flange DN100 PN100 RJ HG/T 20592-2009 / 316/316L
	<b>UD</b> Flange DN125 10K RF, JIS / 316/316L
	<b>UW</b> Flange DN125 10K FF, JIS / 316/316L
	<b>UE</b> Flange DN150 10K RF, JIS / 316/316L
	<b>UY</b> Flange DN150 20K RF, JIS / 316/316L
	<b>UF</b> Flange DN200 10K RF, JIS / 316/316L
	<b>UN</b> Flange DN250 5K FF, JIS / 316/316L
	<b>UJ</b> Flange DN300 5K RF, JIS / 316/316L
	<b>UP</b> Flange NPS 2" Class 150 RF, JPI / 316/316L
	<b>UL</b> Flange NPS 3" Class 150 RF, JPI / 316/316L
	<b>UM</b> Flange NPS 4" Class 150 RF, JPI / 316/316L
	<b>1O</b> Swivelling holder with flange DN50 PN16 / 316/316L
	<b>1P</b> Swivelling holder with flange DN80 PN16 / 316/316L
	<b>1S</b> Swivelling holder with flange DN100 PN6 / 316/316L
	<b>1W</b> Swivelling holder with flange DN125 PN16 / 316/316L
	<b>1Q</b> Swivelling holder with flange DN100 PN16 / 316/316L



- A3** Flange NPS 2" Class 900 RF, ASME B16.5 / 316/316L
- DI** Flange NPS 3" Class 150 RF, ASME B16.5 / Alloy C22 (2.4602)
- BI** Flange NPS 3" Class 150 RF, ASME B16.5 / 316/316L, Alloy C22 (2.4602) plated
- DJ** Flange NPS 3" Class 300 RF, ASME B16.5 / Alloy C22 (2.4602)
- BJ** Flange NPS 3" Class 300 RF, ASME B16.5 / 316/316L, Alloy C22 (2.4602) plated
- D7** Flange NPS 3" Class 900 RF, ASME B16.5 / Alloy C22 (2.4602)
- 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
- DL** Flange NPS 4" Class 300 RF, ASME B16.5 / Alloy C22 (2.4602)
- XL** Flange NPS 4" Class 300 RF, ASME B16.5 / Alloy C22 (2.4602)
- DS** Flange NPS 4" Class 600 RF, ASME B16.5 / Alloy C22 (2.4602)
- A4** Flange NPS 4" Class 900 RF, ASME B16.5 / 316/316L
- AA** Flange NPS 5" 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
- 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
- XO** Flange NPS 6" Class 300 RF, ASME B16.5 / Alloy C22 (2.4602)
- 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
- DP** Flange NPS 10" Class 150 RF, ASME B16.5 / Alloy C22 (2.4602)
- A6** Flange NPS 14" Class 150 RF, ASME B16.5 / 316/316L
- TA** Flange OD 5.63 Fisher Type 249C / 316/316L
- X1** Fixing ring 2¼" for unassembled flange / 316L
- XI** Flange NPS 3" Class 150 RF, ASME B16.5 / 316L, shortened version

**Overvoltage protection of the supply cable**

- without
- with

**Seal / Process temperature**

- 2** FKM (SHS FPM 70C3 GLT) and PTFE / -40...+130°C
- 3** FFKM (Kalrez 6375) and PTFE / -20...+130°C
- 4** FKM (SHS FPM 70C3 GLT) and PTFE / -40 ... +200 °C (not with steam)
- 5** FFKM (Kalrez 6375) and PTFE / -20...+200°C
- Z** FKM (SHS FPM 70C3 GLT) and PTFE / -40...+100°C
- 3** FFKM (Kalrez 6375) and PTFE / -10...+130°C
- 7** FFKM (Kalrez 6230) and PTFE (FDA) / -15...+130°C
- 9** FFKM (Kalrez 6230) and PTFE / -15...+200°C
- B** FKM (SHS FPM 70C3 GLT) and PP / -40...+80°C
- D** FFKM (Kalrez 6375) and PP / -15...+80°C
- A** FKM (SHS FPM 70C3 GLT) and PEEK / -40...+200°C (not with steam)
- E** FFKM (Kalrez 6230) and PEEK / -15...+250°C
- E** FFKM (Kalrez 6230) and PEEK / -10...+250°C
- F** FFKM (Kalrez 6375) and PEEK / -20...+250°C
- F** FFKM (Kalrez 6375) and PEEK / -10...+250°C
- H** Ceramic graphite / -196...+450°C
- H** Ceramic graphite / -196...+400°C

**Electronics**

- H** Two-wire 4 ... 20 mA/HART
- D** Two-wire 4 ... 20 mA/HART with increased sensitivity
- V** Four-wire 4 ... 20 mA/HART
- E** Four-wire 4 ... 20 mA/HART with increased sensitivity
- 7** Four-wire Modbus (converter in second chamber)
- J** HART and power pack
- 8** Four-wire Modbus with increased sensitivity (converter in second chamber)
- N** HART with increased sensitivity and power pack
- 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
- G** Four-wire HART 90 ... 253 V AC; 50/60 Hz with increased sensitivity
- M** Four-wire HART 9.6 ... 48 V DC; 20 ... 42 V with increased sensitivity
- P** Two-wire Profibus PA
- K** Two-wire Profibus PA with increased sensitivity
- F** Two-wire Foundation Fieldbus
- L** Two-wire Foundation Fieldbus with increased sensitivity

**Instrument generation**

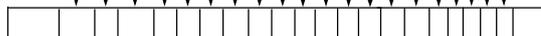
plics@plus

**Address setting**

- Yes
- No

**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)
- D** Aluminium double chamber / IP66/IP67
- S** Special colour Aluminium double chamber / IP66/IP67





## Others

**Unit:** m

**Max. measuring range**  
75 m

**Customer or application-specific parameter adjustment:**  
without  
Customer-specific parameter set  
Wave height measurement  
Digestion tower measurement  
Conveyor belt monitoring

**Linearization:**  
No  
Yes, please announce data

**Number of operating instructions**  
1...1000

**Customer Tag**  
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)  
(C) 3.1-Inspection certificate for material (EN 10204)  
(Q) Quality and Test plan  
(H+Q) 2.2-Factory certification for material + Quality and test plan (EN 10204)  
(D+Q) 3.1-Inspection certificate for test data + 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+Q) 3.1-Inspection certificate for material + Quality and test plan (EN 10204)  
(C) 3.1-Inspection certificate for material (EN 10204, NACE MR 0175)  
(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, 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