

## VEGAPULS69



### Scope

- A Europe
- A Europe
- I Worldwide
- F USA
- C Canada
- U Ukraine
- G Kazakhstan
- N China
- Z South Africa
- K Korea
- D India

### Approval

- X for Ex-free area
- C ATEX II 1G, 1/2G, 2G Ex ia IIC T6
- H ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + II 1D, 1/2D, 1/3D, 2D Ex ta IIIC T\*
- E ATEX II 1/2G, 2G Ex db IIC T6
- J ATEX II 1/2G, 2G Ex db IIC T6 + II 1D, 1/2D, 1/3D, 2D Ex ta IIIC T\*
- R ATEX II 1D, 1/2D, 1/3D, 2D Ex ta IIIC T\*
- A ATEX 3G Ex nA IIC T6
- X for Ex-free area
- A IEC Ex nA IIC T6 Gc
- C IEC Ex ia IIC T6 Ga, Ga/Gb, Gb
- H IEC Ex ia IIC T6 Ga, Ga/Gb, Gb + Ex ta IIIC T\* Da, Da/Db, Da/Dc, Db
- E IEC Ex db IIC T6 Ga, Ga/Gb, Gb
- J IEC Ex db IIC T6 Ga/Gb, Gb + Ex ta IIIC T\* Da, Da/Db, Da/Dc, Db
- R IEC Ex ta IIIC IP66 T\* Da, Da/Db, Da/Dc, Db
- X for Ex-free area (including Ordinary Location Approval)
- A FM (NI) CL I, II, III DIV2, GP ABCDFG
- C FM-US (IS) CL I, II, III, DIV1, GP ABCDEFG + Ex ia IIC
- E FM (XP) CL I, DIV1, GP ABCD, (DIP) CL II, III DIV 1, GP EFG
- R FM (DIP) CL II, III, DIV1, GP EFG
- X for Ex-free area (including Ordinary Location Approval)
- A C-CSA-US (NI) CL I,II,III DIV2, GP ABCDFG
- C C-CSA-US (IS) CL I, II, III, DIV1, GP ABCDEFG + Ex ia IIC
- E C-CSA-US (XP) CL I, DIV1, GP BCD, (DIP) CL II, III DIV 1, GP EFG + Ex db IIC
- R C-CSA-US (DIP) CL II, III DIV 1, GP EFG + Ex ta IIIC
- X for Ex-free area (incl. EAC approval)
- C GOST-R/EAC 0 Ex ia IIC T6...T1 Ga X; Ga/Gb Ex ia IIC T6...T1 X; 1 Ex ia IIC T6...T1 Gb X
- H GOST-R/EAC 1 Ex ia IIC T6...T1 Ga X; Ga/Gb Ex ia IIC T6...T1 X; 1 Ex ia IIC T6...T1 Gb X; Ex ta IIIC T\* Da X, Ex ta IIIC T\* Db X, Ex ta IIIC T\* Dc X
- E GOST-R/EAC Ga/Gb Ex db IIC T6...T1 X; 1 Ex db IIC T6...T1 Gb X
- J GOST-R/EAC Ga/Gb Ex db IIC T6...T1 X; 1 Ex db IIC T6...T1 Gb X; Ex ta IIIC T\* Da X, Ex ta IIIC T\* Db X, Ex ta IIIC T\* Dc X
- R GOST-R/EAC Ex ta IIIC T\* Da X, Ex ta IIIC T\* Db X, Ex ta IIIC T\* Dc X
- C UKR-SEPRO II 1 G Ex ia IIC T6...T1 Ga, II 1/2 G Ex ia IIC T6...T1 Ga/Gb II 2G Ex ia IIC T6...T1 Gb
- H UKR-SEPRO II 1 G Ex ia IIC T6...T1 Ga, II 1/2 G Ex ia IIC T6...T1 Ga/Gb II 2G Ex ia IIC T6...T1 Gb; Ex ta IIIC T\*
- E UKR-SEPRO II 1/2 G Ex db IIC T6...T1 Ga/Gb II 2G Ex db IIC T6...T1 Gb
- J UKR-SEPRO II 1/2 G Ex db IIC T6...T1 Ga/Gb II 2G Ex db IIC T6...T1 Gb; Ex ta IIIC T\*
- R UKR-SEPRO Ex ta IIIC T\*
- X for Ex-free area (incl. EAC approval)
- C GOST-K/EAC 0 Ex ia IIC T6...T1 Ga X; Ga/Gb Ex ia IIC T6...T1 X; 1 Ex ia IIC T6...T1 Gb X

### Version / Material

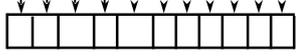
- B with plastic horn antenna / PP
- C Metal jacketed lens antenna with rinsing air connection / PEEK
- T Thread with integrated horn antenna / PEEK
- U Thread with integrated horn antenna / PEEK

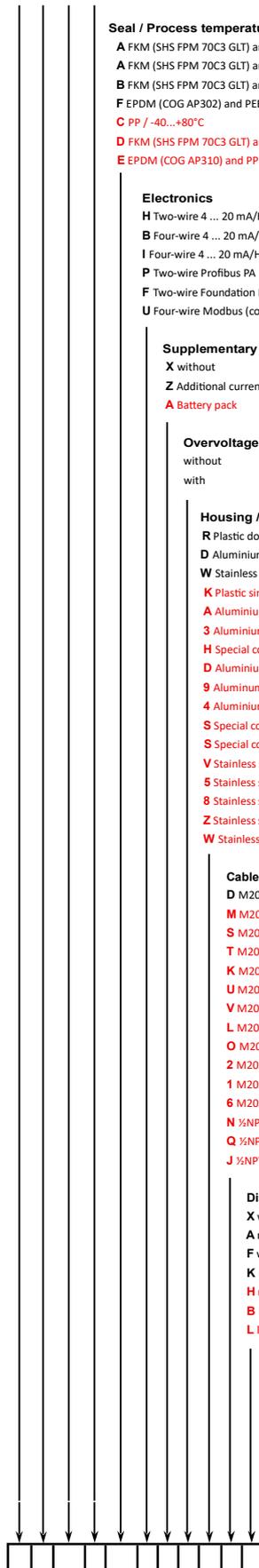
### Process fitting / Material

- SW Swivelling holder with flange DN150 PN6 Form B, DIN / 316/316L
- SY Swivelling holder with flange DN150 PN6 Form A, EN / 316/316L
- SD Swivelling holder with flange 4" 150lb / 316/316L
- S8 Swivelling holder with flange 4" Table E .10, BS / 316/316L
- SQ Swivelling holder with flange 4" 300lb / 316/316L
- SV Swivelling holder with flange 4" Table H .10, BS / 316/316L
- S7 Swivelling holder with flange 4" 600lb / 316/316L
- 2B Swivelling holder with flange 5" 150lb / 316/316L
- UA Swivelling holder with flange 6" Table D .10, BS / 316/316L
- SE Swivelling holder with flange 6" 150lb / 316/316L
- ST Swivelling holder with flange 6" 300lb / 316/316L
- SF Swivelling holder with flange 8" 150lb / 316/316L
- S9 Swivelling holder with flange 8" 300lb / 316/316L
- SS Swivel holder with flange 8x" / 316/316L
- SK Swivelling holder with flange DN100 PN6 Form B, DIN / 316/316L
- SM Swivelling holder with flange 10" 150lb / 316/316L
- SA Swivelling holder with flange DN100 PN16 Form B, DIN / 316/316L
- UD Swivelling holder with flange DN100 PN40 Form B, DIN / 316/316L
- S4 Swivelling holder with flange DN100 5 K FF, JIS / 316/316L
- SG Swivelling holder with flange DN100 10K FF, JIS / 316/316L
- SR Swivelling holder with flange DN100 20K FF, JIS / 316/316L
- SJ Swivelling holder with flange DN125 PN16 Form B, DIN / 316/316L



- UC** Swivelling holder with flange DN125 5 K FF, JIS / 316/316L
- UB** Swivelling holder with flange DN125 10K FF, JIS / 316/316L
- SH** Swivelling holder with flange DN150 10K FF, JIS / 316/316L
- SB** Swivelling holder with flange DN150 PN16 Form B, DIN / 316/316L
- S1** Swivelling holder with flange DN150 PN40 Form B, DIN / 316/316L
- S2** Swivelling holder with flange DN150 5K FF, JIS / 316/316L
- UE** Swivelling holder with flange DN150 20K FF, JIS / 316/316L
- SZ** Swivelling holder with flange DN200 PN6 Form B, DIN / 316/316L
- SN** Swivelling holder with flange DN200 PN10 Form B, DIN / 316/316L
- SP** Swivelling holder with flange DN200 PN10 Form A, EN / 316/316L
- SC** Swivelling holder with flange DN200 PN16 Form B, DIN / 316/316L
- SX** Swivelling holder with flange DN200 5K FF, JIS / 316/316L
- SI** Swivelling holder with flange DN200 10K FF, JIS / 316/316L
- S5** Swivelling holder with flange DN250 PN6 Form B, DIN / 316/316L
- S3** Swivelling holder with flange DN250 PN10 Form B, DIN / 316/316L
- SL** Swivelling holder with flange DN250 PN16 Form B, DIN / 316/316L
- SU** Swivelling holder with flange DN250 10K FF, JIS / 316/316L
- CC** Clamp 4" PN10 (ø119mm) Form B, ASME BPE / 316L
- CA** Clamp 6" PN5 (ø166.9 mm) Form B, ASME BPE / 316L
- FJ** Flange DN80 PN6 Form B, DIN / 316/316L
- FA** Flange DN80 PN16 Form B, DIN / 316/316L
- FU** Flange DN100 PN6 Form B, DIN / 316/316L
- FB** Flange DN100 PN16 Form B, DIN / 316/316L
- G8** Flange DN100 PN40 Form B, DIN / 316/316L
- FC** Flange DN150 PN16 Form B, DIN / 316/316L
- FK** Flange DN200 PN16 Form B, DIN / 316/316L
- FV** Flange DN200 PN25 Form B, DIN / 316/316L
- FQ** Flange DN250 PN16 Form B, DIN / 316/316L
- FD** Flange NPS 3" Class 150 FF, ASME / 316/316L
- FT** Flange NPS 3" Class 300 FF, ASME / 316/316L
- FE** Flange NPS 4" Class 150 FF, ASME / 316/316L
- FP** Flange NPS 4" Class 300 FF, ASME / 316/316L
- FF** Flange NPS 6" Class 150 FF, ASME B16.5 / 316/316L
- FS** Flange NPS 8" Class 300 FF, ASME / 316/316L
- FN** Flange NPS 10" Class 150 FF, ASME / 316/316L
- FR** Flange NPS 10" Class 300 FF, ASME / 316/316L
- FG** Flange DN80 10K FF, JIS / 316/316L
- FO** Flange DN100 5K FF, JIS / 316/316L
- FH** Flange DN100 10K FF, JIS / 316/316L
- FW** Flange DN125 5K FF, JIS / 316/316L
- FI** Flange DN150 10K FF, JIS / 316/316L
- FL** Flange DN250 10K FF, JIS / 316/316L
- XX** without
- XC** Mounting strap, length: 170mm / 316L
- XD** Mounting strap, length: 300 mm / 316L
- YJ** Compression flange suitable for flange 3" 300lb, ASME / PP-GF30
- YD** Compression flange suitable for flanges 3" 150lb, DN80 PN16 / PP-GF30
- AS** Adapter flange DN100 PN 6 Form B, DIN / PP-GF30
- AA** Adapter flange DN100 PN16 Form B, DIN / PP-GF30
- AW** Adapter flange DN100 PN40 Form B, DIN / PP-GF30
- AB** Adapter flange DN125 PN6 Form B, DIN / PP-GF30
- AC** Adapter flange DN125 PN16 Form B, DIN / PP-GF30
- AV** Adapter flange DN150 PN 6 Form B, DIN / PP-GF30
- AD** Adapter flange DN150 PN16 Form B, DIN / PP-GF30
- AE** Adapter flange DN200 PN10 Form B, DIN / PP-GF30
- AF** Adapter flange DN200 PN16 Form B, DIN / PP-GF30
- AG** Adapter flange DN250 PN10 Form B, DIN / PP-GF30
- AH** Adapter flange DN250 PN16 Form B, DIN / PP-GF30
- AI** Adapter flange DN300 PN10 Form B, DIN / PP-GF30
- AJ** Adapter flange 4" Table E .10, BS / PP-GF30
- AK** Adapter flange 6" Table E .10, BS / PP-GF30
- AU** Adapter flange 3" 150lb FF, ASME / PP-GF30
- AL** Adapter flange 4" 150lb FF, ASME / PP-GF30
- AT** Adapter flange 4" 300lb FF, ASME / PP-GF30
- AM** Adapter flange 6" 150lb FF, ASME / PP-GF30
- AN** Adapter flange 6" 300lb FF, ASME / PP-GF30
- AO** Adapter flange 8" 150lb FF, ASME / PP-GF30
- AP** Adapter flange 10" 150lb FF, ASME / PP-GF30
- AQ** Adapter flange DN100 10K FF, JIS / PP-GF30
- AR** Adapter flange DN150 10K FF, JIS / PP-GF30
- S6** Swivelling holder with combi flange DN100/4" / 316/316L
- TC** Thread G1½ PN20, DIN3852-A / 316L
- TD** Thread 1½NPT PN20, ASME B1.20.1 / 316L





**Seal / Process temperature**

- A FKM (SHS FPM 70C3 GLT) and PEEK / -40...+130°C
- A FKM (SHS FPM 70C3 GLT) and PEEK / -40...+130°C
- B FKM (SHS FPM 70C3 GLT) and PEEK / -40...+200°C
- F EPDM (COG AP302) and PEEK (suitable for foodstuffs/pharmaceuticals) / -40 ... +130 °C
- C PP / -40...+80°C
- D FKM (SHS FPM 70C3 GLT) and PP / -40...+80°C
- E EPDM (COG AP310) and PP / -40...+80°C

**Electronics**

- H Two-wire 4 ... 20 mA/HART
- 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
- U Four-wire Modbus (converter in second chamber)

**Supplementary electronics**

- X without
- Z Additional current output 4 ... 20 mA
- A Battery pack

**Overvoltage protection of the supply cable**

- without
- with

**Housing / Protection**

- R Plastic double chamber / IP66/IP67
- D Aluminium double chamber / IP66/IP68 (0.2bar)
- W Stainless steel double chamber / IP66/IP68 (0.2 bar)
- K Plastic single 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/IP67
- 9 Aluminum double chamber / IP66 with M12 for HART multidrop
- 4 Aluminium double chamber / IP66/IP68 (1bar)
- S Special colour Aluminium double chamber / IP66/IP67
- 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 (0.2 bar)
- Z Stainless steel single chamber (electropolished) / IP66/IP68 (0.2bar) / IP69
- W Stainless steel double chamber / IP66/IP67

**Cable entry / Connection**

- D M20x1.5 / Blind plug
- M M20x1.5 / Cable gland PA black (ø5-9mm), standard
- S M20x1.5 / Cable gland PA black (ø6-12mm)
- T M20x1.5 / Cable gland PA black (ø10-14mm)
- K M20x1.5 / Cable gland PA blue (ø5-9mm)
- U M20x1.5 / Cable gland PA blue (ø6-12mm)
- V M20x1.5 / Cable gland PA blue (ø10-14mm)
- L M20x1.5 / Cable gland stainless steel (ø7-12mm)
- O M20x1.5 / Cable gland brass nickle plated (ø6-12mm)
- 2 M20x1.5 / Cable gland brass nickle plated (ø5-9mm)
- 1 M20x1.5 / without
- 6 M20x1.5 / Cable gland brass nickle plated; for shielded cable (ø9-13mm)
- N ½NPT / Blind plug
- Q ¾NPT / without
- J ½NPT / Cable gland PA black (ø5-9mm)

**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
	R Reflux valve for purging air connection
	K Purging air connection
	V Purging air connection with reflux valve
	<b>Certificates</b>
	X No
	M Yes
	<b>Max. measuring range</b>
	120m
	<b>Customer-specific adjustment</b>
	No
	Yes
	<b>Address setting</b>
	No
	Yes
	<b>Application-specific settings</b>
	Without
	Setting Messrs. Gallo
	Customer adjustment Messrs. SEBA
	<b>Linearization</b>
	No
	Yes, please announce data
	<b>Operating instructions</b>
	DE - German
	EN - English
	FR - French
	NL - Dutch
	IT - Italian
	ES - Spanish
	PT - Portuguese
	HU - Hungarian
	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
	EN+TR - English + Turkish
	FR+NL - French + Dutch
	DE+EN+FR+ES - German + English + French + Spanish
	<b>Without</b>
	DA - Danish
	SV - Swedish
	FI - Finnish
	NO - Norwegian
	RU - Russian
	BY - Russian (Belarus)
	KK - Kazakh
	UK - Russian (Ukraine)
	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
	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
	<b>General safety instructions</b>
	<b>Number of operating instructions</b>
	0 ... 1000
	<b>Measurement loop identification label</b>
	without
	of stainless steel
	of foil
	<b>Software version</b>
	Current version
	Current version
	1.3.4 device revision 3