

# Flow indicators for pipelines with flanged ends for bolting

## Series FF-VA / FB-VA in stainless steel

## Series F-St in carbon steel



Sight flow indicator, series FB-VA, type FB-VA 50



Sight flow indicator, series FB-VA, type FB-VA 100

### Application:

VETROLUX® sight flow indicators are used for the observation of a flow of liquid in tubes and pipelines. Visibility may be considerably enhanced by combination with our proven light fittings for hazardous and safe areas. (Please see our respective leaflets).

### Operating conditions:

Nominal pressure: 10 bar (PN 10)  
 PN 6 / 16: On request (only for series F-St)  
 Vacuum  
 Maximum temperature: 280 °C

### Standard materials:

Body material: 1.4435 (= AISI 316 L) / 1.4404 (= AISI 316 L)  
 (series FF-VA / FB-VA) (up to DN 100)  
 1.4571 (= AISI 316 Ti) (from DN 125)

Loose connecting flanges, PN 10, to DIN 2642: Galvanised RSt 37-2  
 (series FB-VA)

Body material and welded connecting flanges to DIN 2576, PN 10: Carbon steel RSt 37-2  
 (Series F-St)

Flanges, PN 10 (to DIN 2576): 1.4571 (= AISI 316 Ti)  
 (series FF-VA)

Cover flanges: Galvanised RSt 37-2 / C 22.8 (FB-VA / F-St)  
 Stainless steel (FF-VA)

Bolts: Galvanised socket head screws to DIN 912, 8.8 (FB-VA / F-St)  
 A4-70 (FF-VA)

Glass discs: Borosilicate glass to DIN 7080 (Standard)  
 Sodium silicate glass to DIN 8902 (Option)

Gaskets product side: Graphite  
 cover side: KLINGERSil C4400

Other materials are available on request.

### Options:

- Security version with double glazing
- Version **without** "drop-nose" for hygienic applications
- With turbine
- With flap

### Remarks:

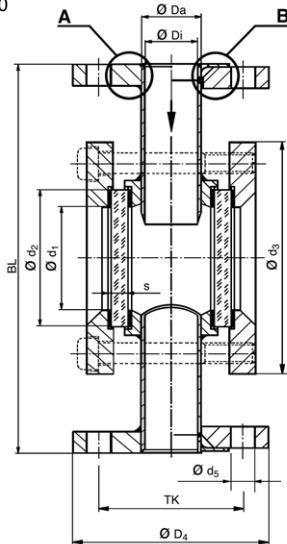
When enquiring or ordering please **always** state the nominal pressure (PN) required.

### Ordering example:

1 piece VETROLUX® sight flow indicator with flanged ends, body in stainless steel 1.4435 (= AISI 316 L), nominal pressure 10 bar (PN 10), nominal diameter (DN) 80:

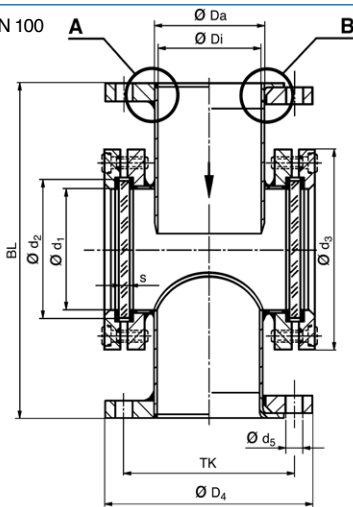
1 piece FF-VA 80-316 L-10-Graphite-KLINGERSil C4400

DN 15 - 80



A = Version F-St / FF-VA  
B = Version FB-VA

From DN 100



A = Version F-St / FF-VA  
B = Version FB-VA

Type	DN	BL (DIN F1)	Ø D₄	TK	Ø d₅	Ø Da	Ø Di	Ø d₃	Ø d₁	number and size of bolts	Ø d₂	s
FF-VA FB-VA	15	150	95	65	14	21,3	18,1	70	32	4 x M8	45	10
F-St	15						16,0					
FF-VA FB-VA	20	150	105	75	14	26,9	23,7	110	48	4 x M10	63	10
F-St	20						21,6					
FF-VA FB-VA	25	160	115	85	14	33,7	29,7	135	48	4 x M10	63	10
F-St	25						27,2					
FF-VA FB-VA	32	180	140	100	18	42,4	38,4	135	65	4 x M10	80	12
F-St	32						35,9					
FF-VA FB-VA	40	200	150	110	18	48,3	44,3	135	65	4 x M12	80	12
F-St	40						41,8					
FF-VA FB-VA	50	230	165	125	18	60,3	55,1	150	80	4 x M12	100	15
F-St	50						53,0					
FF-VA FB-VA	65	290	185	145	18	76,1	70,9	150	80	4 x M12	100	15
F-St	65						70,3					
FF-VA FB-VA	80	310	200	160	18	88,9	83,7	185	100	4 x M12	125	15
F-St	80						82,5					
FF-VA FB-VA	100	350	220	180	18	114,3	107,9	210	125	8 x M12	150	20
F-St	100						107,1					
FF-VA FB-VA	125	400	250	210	18	139,7	133,3	240	150	8 x M12	175	20
F-St	125						131,7					
FF-VA FB-VA	150	480	285	240	22	168,3	161,9	275	175	8 x M16	200	25
F-St	150						159,3					
FF-VA FB-VA	200	600	340	295	22	219,1	212,7	340	225	8 x M16	250	30
F-St	200						207,3					

Branch office / exclusive agent:

Do you wish for more information about our wide range of light fittings for use in hazardous or safe areas, about our range of circular sightglasses to DIN 28120/28121, screwed sightglasses similar to DIN 11851, rectangular or D-ended sightglasses, pipeline flow indicators, sideways or centrally operated wipers, hinged sightglasses, spraying devices or our complete sight and light-glass units VETROLUX®? Are you interested in other types, special versions or different protection degrees? If yes, please contact us, our branch office or our local agents – it is our business! You will find the necessary indications about our sales network on the Internet.

All dimensions in mm. Subject to changes without preliminary notice.



# MAX MÜLLER AG

PROCESS ILLUMINATION AND VISUAL OBSERVATION SYSTEMS

Hagmattstrasse 19 • CH - 4123 Allschwil / Switzerland

Telephone +41 61 487 92 92 • Telefax +41 61 487 92 99

www.maxmuellerag.com E-Mail: blt@maxmuellerag.com