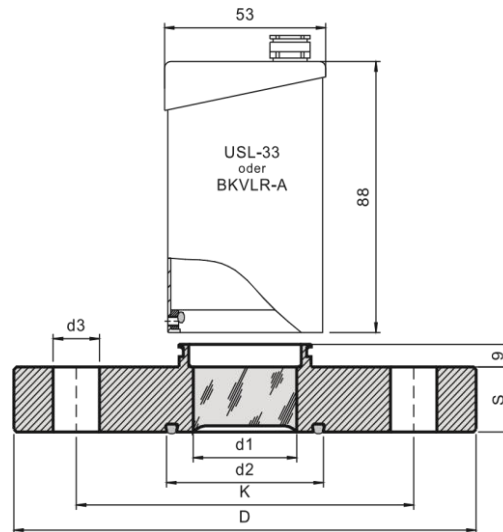


## Type 19.BIO.USL33

### METAGLAS® Bolt on Sight Glass for Sterile Applications

Using Sight Glass Luminaires Series USL-33 or BKVLR-A



#### Applications

- Aseptic and sanitary applications
- Mating to weld neck flat face flange and
- weld in base flange DIN 28117 or similar

#### Material certificates

- Certificate of Conformity to EN 10204-3.1 or 3.2

#### Advantages

- Security against total failure
- Compact design
- Easy cleaning – verifiable gap
- Suitable for CIP and SIP cleaning

#### Approvals

- TÜV component approval for use as pressure vessel part to pressure vessel codes (matl. of const 1.4462)

#### Operating conditions

- Pressure: -1 to 16 bar
- Temperature: see table

Ring materials	Operating temperature
1.4462	-30°C to +280°C
2.4602	-60°C to +300°C
2.4605	-60°C to +300°C
2.4610	-60°C to +300°C

#### Technical data

Manufactured and tested to:

- Directive for pressure equipment 2014/68/EU, Module H (DIN/EN/ISO 9001)
- AD2000 Standards W0/TRD 100
- Sight glass fused to metal conforming to DIN 7079
- Materials to VdTÜV specifications and the DIN/EN designated standards
- Glass: Borosilicate to DIN 7080 / DIN 7079

#### Sight glass luminaire

##### model EdelEx

- Electric supply AC/DC 12V, 24V, 220V, 240V
- Rating 5W, 10W, 20W
- Ignition protection to EN 50018/50019/VDE/0170/0171, EEx d
- Explosion group IIC (all explosion classes)

##### USL-33 (non Ex)

- Electric supply AC or DC 24V
- Rating 20W (without p b switch i.e. continuous operation), 50W (with p b switch)
- Filament operational lamp life over 2500 hrs
- Body stainless steel 1.4301 or similar
- Max permissible ambient temp. at luminaire gland 90 ° C
- Dust and water spray protection IP65 to EN 60 529/DIN VDE 0470 part 1

#### Important

- **Only for use with parallel flat face flange without seal recess. Maximum torque 20 Nm.**
- **We therefore recommend the use of Belleville spring washers, 2 pcs. for each connection hole.**

NW	PN	D	K	S	d1	d2	d3	Connection holes	O-Ring	Spring washers
50	16	165	125	21	37	66	18	4	58,74 x 3,53	31,5/16,3 x 1,25
65	16	185	145	23	37	86	18	4	78,97 x 3,53	31,5/16,3 x 1,25