

Rectangular sight glass PN 16 / 40

Level indicator with Ø 18 mm rear drill holes





APPLICATION:

Observation and illumination of the liquid level inside closed vessels (boilers, tanks, silos, etc.).

These sightglasses are rectangular flange sockets with 18 mm holes on the back for welding in, each completed with a firmly screwed sightglass plate inserted between the gaskets.

INSTALLATION NOTE:

After the base frame has been welded in, check whether the sealing surfaces have warped! If necessary, rework must be performed! Please also observe the specified torques for the screw connection!

Rear drill holes ∅ 18 mm (ΔP≤ 16 / 40 bar)

Operating conditions:				
Temperature: (depending on glass and gasket)	243 °C Boro Reflex 300 °C Boro transparent 320 °C Boro transparent with mica protection			
Pressure:	≤ 16 / 40²	Bar		
² see pressure remark on next page				

Materials:					
Flange:	1.4571, 1.4404				
Glass:	Borosilicate glass DIN 7081 Reflex or transparent glass				
Gasket:	PTFE; FKM; NBR; C4400; Silicone; EPDM; Graphite				
Screws:	A4-70				
Special materials on request					

DRILL HOLES:

The ϕ 18 mm drill holes are located on the back. Other diameters are also available on request if technically possible.

REFLEX AND TRANSPARENT GLASS:

A reflex sight glass is recommended for dark media, dark or non-illuminated vessels. (see adjacent picture) Due to the refraction of light in the integrated prisms, the fill level may be better visible. However, if the vessel is illuminated, the medium is very bright or the colour of the medium must be visible, a transparent glass should be used. We are happy to help you with the selection.

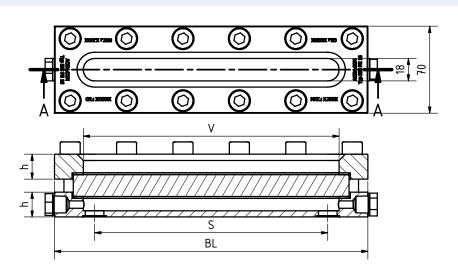




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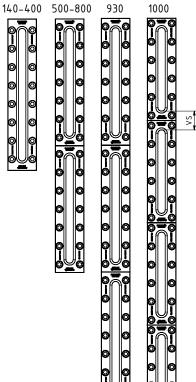
Туре 400



CONCEALED VIEW (VS):

Concealed visibility is formed in the area between the individual longitudinal glasses for level indicators of long sizes. Because of the manufacturing length of the longitudinal glasses in accordance with DIN 7080, a concealed view cannot be avoided from an overall length of 500 mm onward. The layout of the sizes 140 mm to 1000 mm can be seen in the following illustration.

BL	V	S	Concealed view (VS)	h (PN16)	h (PN40)	Kg (PN16)	Kg (PN40)	tightening torque ² (Nm)
140	79	60	0	20	25	2,8	3,4	1334
170	124	100	0	20	25	3,2	4,0	1334
220	174	150	0	20	25	4,0	5,0	1334
250	204	180	0	20	25	4,6	5,7	1334
300	264	240	0	20	25	5,3	6,7	1334
310	264	240	0	20	25	5,6	7,0	1334
350	304	280	0	20	25	6,3	7,8	1334
370	324	300	0	20	25	6,6	8,2	1334
400	354	330	0	20	25	7,1	8,9	1334
500	454	430	1x46	20	25	9,1	11,4	1334
600	564	540	1x46	20	25	10,7	13,4	1334
620	574	550	1x46	20	25	11,1	13,9	1334
700	654	630	1x46	20	25	12,5	15,7	1334
740	694	670	1x46	20	25	13,2	16,5	1334
800	754	730	1x46	20	25	14,2	17,8	1334
930	884	860	2x46	20	25	16,7	20,9	1334
1000	954	930	3x46	20	25	18,2	22,8	1334
² graphite gasket								



²**PRESSURE REMARK:** The operating pressure of 40 bar is only possible with transparent glass for liquid media without technically significant glass attack. For transparent glasses exposed to steam or aggressive media, the maximum operating pressure is PS = 35 bar. More detailed information can be found in our info sheet DIN 7081.



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PRODUCTCODE:

Group	TYPE	ovr. length	Base frame*	Glass	Gasket	PN	Variant
11	400	140 170 220 250 300 310 350	2: 1.4571 4: 1.4404 5: Duplex 8: Special	 1: Borosilicate glass (Boro) DIN 7081 transparent glass 3: Borosilicate glass (Boro) DIN 7081 reflex glass 5: untempered borosilicate glass transparent glass 	1: PTFE 2: FKM 3: NBR 4: C4400 5: Silicone 6: EPDM 7: Graphite	1: 16 2: 40	Assigned by ACI if required
		370 400 500 600 620 700			8: Special		
		700 740 800 930 1000					

INFO: Unless otherwise stated, the factory standard highlighted is supplied.

*Cover frame according to quotation / order confirmation.

SPECIAL DESIGNS/OPTIONS:

- a) High temperature version on request
- b) LED or halogen lights, ATEX-certified, EX
- c) Other options on request

EXAMPLE:

11-400-400-2-3-7-1-0 equals the product code: ACI Type 400 400 mm long Base frame 1.4571 Borosilicate glass reflex gasket graphite PN16 standard version

RECOMMENDATION:

For aggressive media or steam, mica discs should be used to protect the glass. (Not possible with reflex sight glasses as they would lose their function.)

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