

### Level indication Type 410 PN 40

Level indicator with weld-on spigot on the front side

**Type 410** 







Level indicators with weld-on spigot on the front side for operating pressures up to 40 barg

### **USAGE**

The level indicator type 410 serves as a liquid indicator in the bypass for reliable level control on boilers and tanks. The indicator features a rectangular flange fitting with two end-face  $\emptyset$ 20mm welding ends.

Operating condi	tion			
Temperature: (depending on	≤ 243°C	Reflection glass DIN 7081 made of borosilicate glass		
glass and gasket)	≤ 280 °C	Reflection glass DIN 7081 made of borosilicate glass (without technically significant glass attack)		
Pressure:	≤ 35/40¹ barg			

1) Depending on the medium and ssee pressure note on the next page

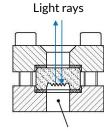
Materials					
Base frame:	1.4571				
Glass:	Borosilicate glass DIN 7081 reflective glass				
Seal:	PTFE; C4400; Graphite				
Screws:	A2-70 ∨ A4-70				
Special materials on request					

### **INSTALLATION NOTE**

After welding ends the pipe fittings to the pipeline, it must be checked whether the sealing surfaces on the base frame have been deformed. If necessary, reworking must be done! Please also observe the specified torque values for the fastening according to the working and maintenance instructions!

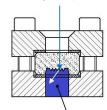
#### REFLECTIVE AND TRANSPARENT GLASS

Closed level indicators are equipped with reflective glass by default. The prism structures integrated into the glass create a targeted light refraction, allowing the fluid level in the body to be read clearly and with high contrast.



Reflective glass without liquid

Light rays



Reflective glass with liquid



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BL	V	Concealed view	h	kg
140	79	0	25	3.4
170	124	0	25	4.0
220	174	0	25	5.0
250	204	0	25	5.7
300	264	0	25	6.7
310	264	0	25	7.0
350	304	0	25	7.8
370	324	0	25	8.2
400	354	0	25	8.9
500	454	1x46	25	11.4
600	564	1x46	25	13.4
620	574	1x46	25	13.9
700	654	1x46	25	15.7
740	694	1x46	25	16.5
800	754	1x46	25	17.8
930	884	2x46	25	20.9
1000	954	3x46	25	22.8

### **PRESSURE NOTE**

The operating pressure of 40 barg is only achievable with liquid media, without technically significant glass impact. In applications involving steam or aggressive media, the maximum operating pressure PS = 35 barg at a maximum of 243 °C.

Also see the data sheet for sight glasses according to DIN 7081.



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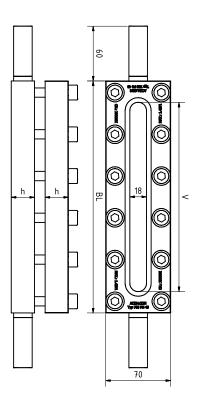
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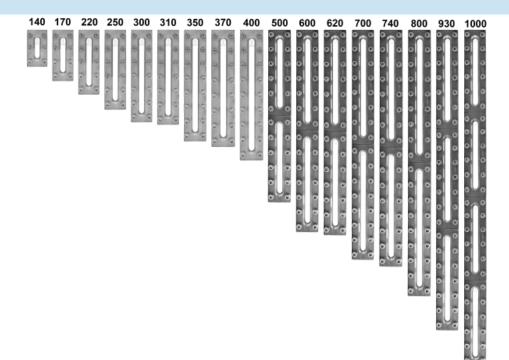
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### **HIDDEN VIEW (HV)**

In level indicators, large total length result in a concealed view in the area between the individual length glasses. This is due to the manufacturing length of the length glasses according to DIN 7081. From a total length of 500 mm, a concealed view is therefore unavoidable. The configuration of the size 140 mm to 1000 mm can be taken from the adjacent representations.

Special sizes upon request.







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### **PRODUCT CODE**

Example for Explaining the Code Composition

GROUP	TYPE	LENGTH	PN	BASE FRAME	GLASS	GASKET	VARIANT
11	410	140	2) 40	2) 1.4571	3) Borosilicate glass DIN 7081 reflective glass	1) PTFE	0) Standard
		170		8) Special		4) C4400	
		220				7) Graphite	
		250				8) Special	
		300					
		310					
		350					
		370					
		400					
		500					
		600					
		620					
		700					
		740					
		800					
		930					
		1000					



Unless otherwise specified, the highlighted factory standard will be delivered.

### **EXAMPLE**

The product code 11-410-400-2-2-3-7-0 corresponds to the standard version:

ACI type 410 400 mm long

PN 40 Base frame made of 1.4571

Cover frame made of 1.4571 Borosilicate glass DIN 7081 reflective

Gasket novaphit® MST-XP

### **STRUCTURE**

- 1. Screws
- 2. Cover frame
- 3. Glass cushion
- 4. Sight glass
- 5. Gasket
- 6. Pipe sockets
- 7. Base frame





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### **QUICK OVERVIEW**



max. 40 barg



heat resistant up to 280



for liquid media



for gaseous media



Total length 140 - 1000 mm



Custom-made solutions possible

### **OPERATING CONDITIONS**

Operating conditions depend on the choice of glass and seals:

		SIGHT GLASS	GASKETS		
		Borosilicate glass (DIN 7081) reflective glass	<b>PTFE</b> max. 200 °C	<b>C4400</b> max. 175 °C	<b>Graphite</b> > 400°C
TEMPERATURE	up to 175 ℃	<b>②</b>	<b>⊘</b>	<b>②</b>	<b>⊘</b>
	up to 200 ℃	<b>⊙</b>	<b>⊘</b>	<b>(X)</b>	<b>⊘</b>
	up to 243 ℃	<b>⊙</b>	⊗	<b>(X)</b>	<b>⊘</b>
	up to 280 ℃	<b>②</b>	*	*	<b>⊘</b>
PRESSURE	35/40² barg	<b>⊘</b>	<b>②</b>	<b>②</b>	<b>②</b>

<sup>2)</sup> Depending on the medium





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