

Level gauges Model 666
Level indicator box Model 166-ER



For use in boilers, receivers, cisterns, reservoirs, ...etc., to control the level of liquids, gases and steam.

A multiple-slot polyprismatic viewer allows the level to be optically read, clearly differentiating liquid and gas phases from liquid ones.

Specifications

- Level gauges with replaceable floating or mobile needle seal and safety ball. Should the viewer break a pressure imbalance is caused which moves the ball onto the seating preventing the fluid from flowing out.
- Gauge activation by means of a fast control lever.
- Indiscriminate gauge assembly with lever on the right or on the left.
- Seals are highly tightness, exceeding the requirements of the DIN-3230 norms. Page 3.
- Gauges with draining plugs allowing crystals and sediments to be thoroughly cleaned out by inserting a \varnothing 7 mm. rod.
- The round-dowell system, in certain applications, allows the level indicator box to be replaced with a \varnothing 20 mm. glass tube.
- Level box which can be positioned at any angle in the 360° .
- Maximum, medium and minimum level optical mobile indicators.
- Boron silicate viewer with the special feature that if accidentally broken it is not shed out in pieces.

IMPORTANT

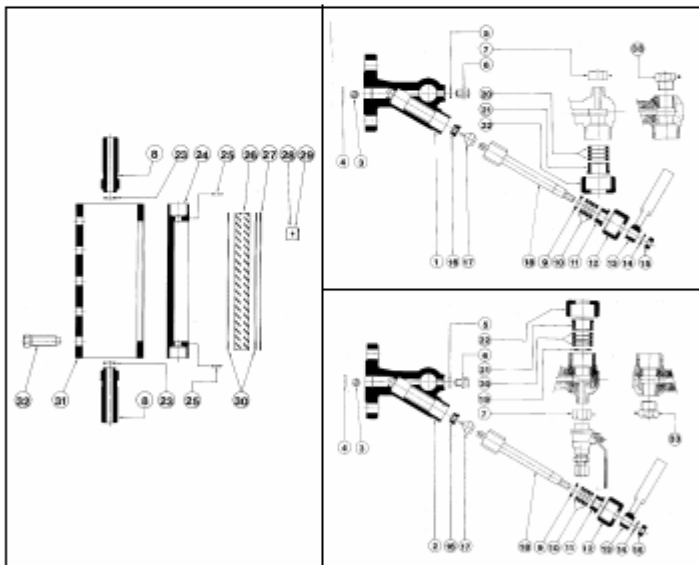
When assembling remove the washer (19) of the gauge operating as the upper one. We advise you to perfect the system with a cleaning valve, 3/8" Mod. 999 connected to the draining tube, in order to check the level indicator and its state of cleanliness periodically.

In steam boilers and other receivers with fluids that precipitate carry out at least one 2 + 3 second cleaning session at 8 hour intervals.

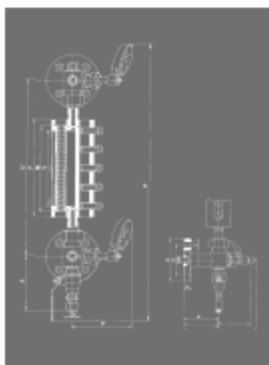
Depending on demand:

- Possibility of manufacture in other types of material, for use in special working conditions (high temperatures, fluids, etc.).
- Special gaskets.
- Transparent viewers with mica plates, recommendable for temperatures exceeding 250° C.
- Possibility to replace the level indicator box for \varnothing 20 mm. glass tube and to fit it out with a protective pipe in case that it should be necessary.
- Boxes with special dowels for other distances between flange centres.
- Link boxes for viewing long levels.

N°. PIECE	PIECE	MATERIAL																		
		CAST IRON				NODULAR IRON				CAST STEEL				STAINLESS STEEL						
1,2	Body	Cast iron (DIN-0.8025 GG-25)				Nodular iron (DIN-0.7040 GGG-40)				Cast steel (DIN-1.0619 GS-C25)				S. steel (DIN-1.4408) (ASTM A351 CF8M)						
3	Safety ball	S. steel (DIN-1.4401) (AISI-316)				S. steel (DIN-1.4401) (AISI-316)				S. steel (DIN-1.4401) (AISI-316)				S. steel (DIN-1.4401) (AISI-316)						
4	Safety ring	S. steel (DIN-1.4300) (AISI-302)				S. steel (DIN-1.4300) (AISI-302)				S. steel (DIN-1.4300) (AISI-302)				S. steel (DIN-1.4300) (AISI-302)						
5/23	Coupling	Aluminium/Copper				Aluminium/Copper				Aluminium/Copper				PTFE (Teflón)						
6	Screw	Carbon steel (DIN-1.1151 Ck-22)				Carbon steel (DIN-1.1151 Ck-22)				Carbon steel (DIN-1.1151 Ck-22)				S. steel (DIN-1.4401) (AISI-316)						
7,33	Cover*/Cap*	Carbon steel (DIN-1.1181 Ck-35)*				Carbon steel (DIN-1.1181 Ck-35)*				Carbon steel (DIN-1.1191 Ck-45)*				S. steel (DIN-1.4401) (AISI-316)*						
8	Dowel	S. steel (DIN-1.4305) (AISI-303)				S. steel (DIN-1.4305) (AISI-303)				S. steel (DIN-1.4305) (AISI-303)				S. steel (DIN-1.4401) (AISI-316)						
9	Ring	S. steel (DIN-1.4401) (AISI-316)				S. steel (DIN-1.4401) (AISI-316)				S. steel (DIN-1.4401) (AISI-316)				S. steel (DIN-1.4401) (AISI-316)						
10,20	Seal	Graphite				Graphite				Graphite				PTFE (Teflón)						
11,21	Gland	Carbon steel (DIN-1.1191 Ck-45)				Carbon steel (DIN-1.1191 Ck-45)				Carbon steel (DIN-1.1191 Ck-45)				S. steel (DIN-1.4401) (AISI-316)						
12,22	Gland nut	Carbon steel (DIN-1.1191 Ck-45)				Carbon steel (DIN-1.1191 Ck-45)				Carbon steel (DIN-1.1191 Ck-45)				S. steel (DIN-1.4401) (AISI-316)						
13	Lever	Nodular iron (DIN-0.7040 GGG-40)				Nodular iron (DIN-0.7040 GGG-40)				Nodular iron (DIN-0.7040 GGG-40)				Nodular iron (DIN-0.7040 GGG-40)						
14	Washer	Carbon steel (DIN-1.1141 Ck-15)				Carbon steel (DIN-1.1141 Ck-15)				Carbon steel (DIN-1.1141 Ck-15)				S. steel (DIN-1.4401) (AISI-316)						
15	Nut	Carbon steel (DIN-1.1141 Ck-15)				Carbon steel (DIN-1.1141 Ck-15)				Carbon steel (DIN-1.1141 Ck-15)				S. steel (DIN-1.4401) (AISI-316)						
16	Sealing	S. steel (DIN-1.4028) (AISI-420)				S. steel (DIN-1.4028) (AISI-420)				S. steel (DIN-1.4028) (AISI-420)				S. steel (DIN-1.4401) (AISI-316)						
17	Seal	S. steel (DIN-1.4401) (AISI-316)				S. steel (DIN-1.4401) (AISI-316)				S. steel (DIN-1.4401) (AISI-316)				S. steel (DIN-1.4401) (AISI-316)						
18	Shaft	S. steel (DIN-1.4028) (AISI-420)				S. steel (DIN-1.4028) (AISI-420)				S. steel (DIN-1.4028) (AISI-420)				S. steel (DIN-1.4401) (AISI-316)						
19	Washer	S. steel (DIN-1.4401) (AISI-316)				S. steel (DIN-1.4401) (AISI-316)				S. steel (DIN-1.4401) (AISI-316)				S. steel (DIN-1.4401) (AISI-316)						
24	Box	Carbon steel (DIN-1.1191 Ck-45)				Carbon steel (DIN-1.1191 Ck-45)				Carbon steel (DIN-1.1191 Ck-45)				S. steel (DIN-1.4401) (AISI-316)						
25	Gudgeon	Carbon steel (DIN-1.1231 Ck-67)				Carbon steel (DIN-1.1231 Ck-67)				Carbon steel (DIN-1.1231 Ck-67)				S. steel (DIN-1.4310) (AISI-301)						
26	Viewer	Boron-Silicate				Boron-Silicate				Boron-Silicate				Boron-Silicate						
27	Reglet	S. steel (DIN-1.4401) (AISI-316)				S. steel (DIN-1.4401) (AISI-316)				S. steel (DIN-1.4401) (AISI-316)				S. steel (DIN-1.4401) (AISI-316)						
28	Rivet	Carbon steel (DIN-1.1141 Ck-15)				Carbon steel (DIN-1.1141 Ck-15)				Carbon steel (DIN-1.1141 Ck-15)				Carbon steel (DIN-1.1141 Ck-15)						
29	Indicator arrow	Aluminium				Aluminium				Aluminium				Aluminium						
30	Coupling	Kingsrit cardboard				Kingsrit cardboard				Kingsrit cardboard				Kingsrit cardboard						
31	Body	Carbon steel (DIN-1.0570 ST-52.3)				Carbon steel (DIN-1.0570 ST-52.3)				Carbon steel (DIN-1.0570 ST-52.3)				S. steel (DIN-1.4408) (ASTM A351 CF8M)						
32	Screw	Carbon steel (DIN-1.1191 Ck-45)				Carbon steel (DIN-1.1191 Ck-45)				Carbon steel (DIN-1.1191 Ck-45)				S. steel (DIN-1.4401) (AISI-316)						
DN		20																		
PN		16				40				40				40						
OPERATING CONDITIONS	PRESSURE IN bar	16	13	13	13	40	35	32	28	24	40	35	32	28	24	21	40	34	32	29
	MAXIMUM TEMP. IN °C	120	200	250	300	120	200	250	300	350	120	200	250	300	350	400	120	200	300	400
	MINIMUM TEMP. IN °C	-40				-20				-29				-60						



	LEVEL GAUGE	UPPER		LOWER	
		DN	PN	DN	PN
	DN	20	25	20	25
	A	—	—	110	110
	L	165	165	165	165
	L ¹	180	180	180	180
	P	155	155	155	155
	d	87	87	87	87
	O	—	—	12	12
DRILLS IN mm	D	105	115	105	115
	K	75	85	75	85
REDUCED PITCH Ø	I	14	14	14	14
	b	PN-16	16	16	16
		PN-40	18	18	18
		15	15	15	15
	DRILLS IN"	4	4	4	4
WEIGHT IN Kgs.	CAST IRON	2,35	2,58	2,27	2,49
	NODULAR IRON	2,35	2,58	2,28	2,50
	CAST STEEL	2,55	2,80	2,50	2,75
	STAINLESS STEEL	2,55	2,80	2,50	2,75
CODE 2101-666	CAST IRON	83461	81061	83462	81062
	NODULAR IRON	83461	81061	83462	81062
	CAST STEEL	83441	81041	83442	81042
	STAINLESS STEEL	83421	81021	83422	81022



N°. LEVEL INDICATOR BOX	0	I	II	III	IV	V	VI	VII	VIII	IX	X
h ¹	285	305	330	355	380	410	445	470	510	530	560
V	75	95	120	145	170	200	230	260	300	320	350
M	95	115	140	165	190	220	250	280	320	340	370
F	115	135	160	185	210	240	275	300	340	360	390
H	518	538	563	588	613	643	678	703	743	763	793
WEIGHT IN Kgs.	CARBON STEEL PN-16	2,84	3,30	3,89	4,40	4,97	5,59	6,20	6,79	7,40	8,40
	CARBON STEEL PN-40	2,84	3,30	3,89	4,40	4,97	5,59	6,20	6,79	7,40	8,40
	STAINLESS STEEL	2,98	3,39	4,05	4,46	5,11	5,80	6,60	7,00	7,80	8,40
CODE 2101-166	PN-40	83440	83441	83442	83443	83444	83445	83446	83447	83448	83449
	CARBON STEEL PN-16	83440	83441	83442	83443	83444	83445	83446	83447	83448	83449
	CARBON STEEL PN-40	83420	83421	83422	83423	83424	83425	83426	83427	83428	83429

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