

LEVEL

We design, calculate and manufacture all the primary elements for the measurement of flow and temperature that new technologies demand, as well as glass level and magnetic indicators for medium and high-pressure applications.

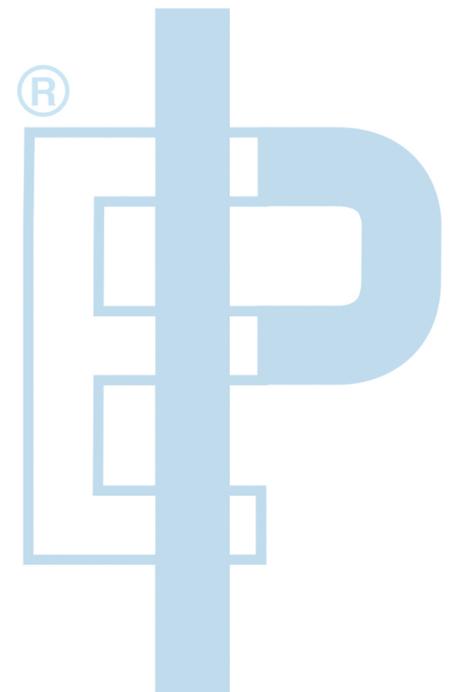
Century XXI



Made in Spain



Nº: ISO 9001 - 0037273



LEVEL

In those applications where it is not necessary to install a level control device of a vessel, but the visualization of its level is required, glass level indicators fulfill this function. Our manufacturing range covers applications in medium and high pressure, being built in their versions of reflection, transparency and glass tube, as well as in special designs for very high pressures and temperatures.

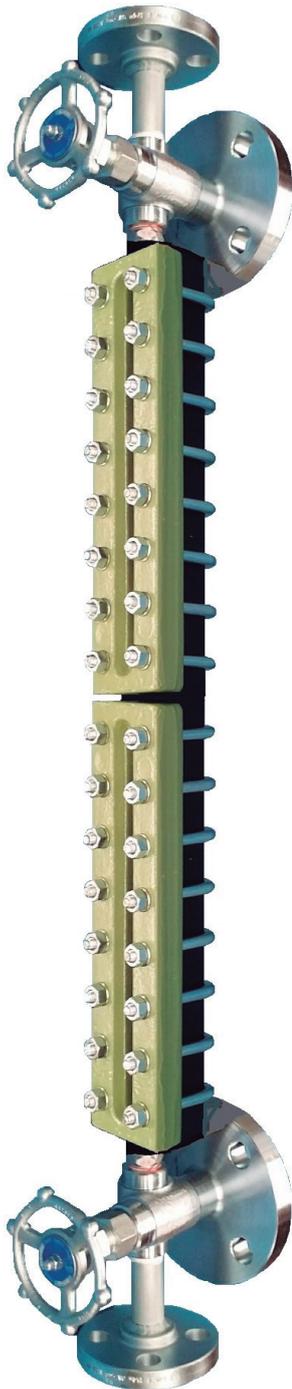
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LEVEL

Visual level indicator. Reflection Type

DESCRIPTION: Necessary in those applications where it is not necessary to install a level control device of a vessel, but the visualization of its level is required. It is possible for both medium and high-pressure applications.



APPLICATIONS

- Measurement in liquids and corrosive environments.
- Flammable fluids and contaminants.
- In all types of industrial plants such as:
 - Power generation.
 - Chemical and petrochemical industries.
 - Renewable energies.
 - Food industry.
 - Paper factories.
 - Water treatment.

MANUFACTURING

- Design standards:	- DIN 7081
- Materials:	Carbon steels. Steel alloys.
- Manufacturing sizes:	According to standardized sections.
- Flange finishes:	RF, FF, RTJ.

SPECIFICATIONS

Equipped with offset valves and possible construction with additional devices depending on the process.

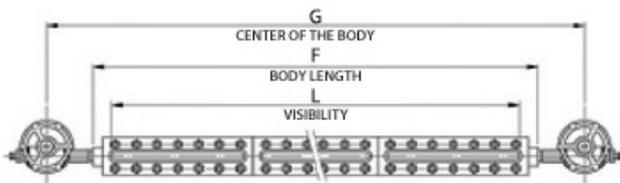
NOTES

- **Maximum operating temperature:** According to the flanges rating, tube thickness, materials and glass size.
- **Maximum operating pressure:** According to the flanges rating, tube thickness, materials and glass size.



LEVEL
Visual level indicator. Reflection Type

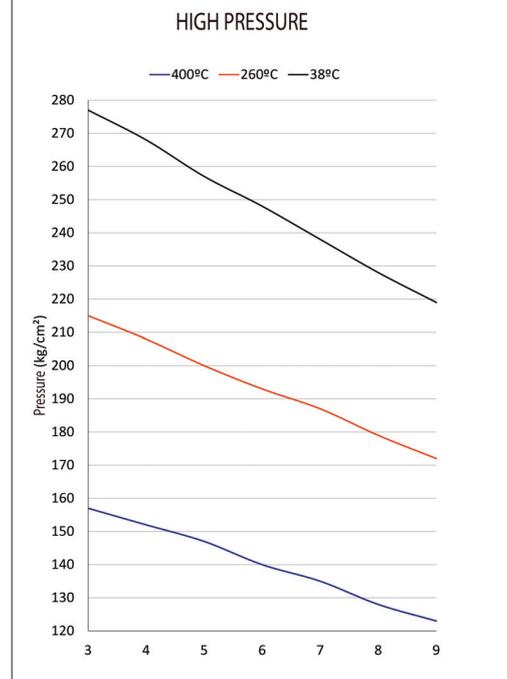
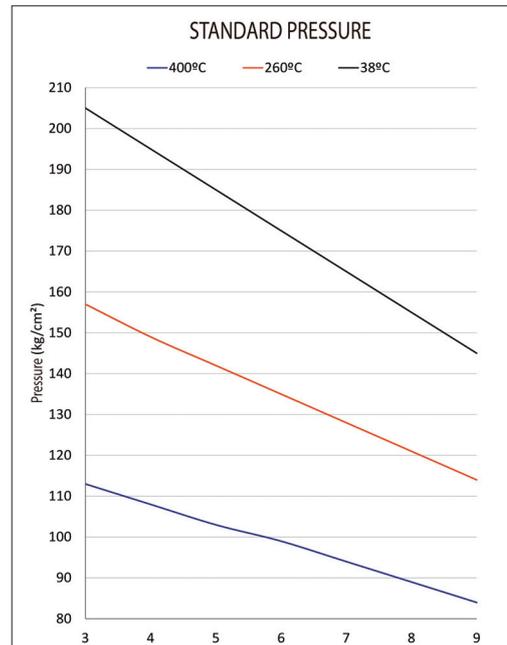
SECTIONS	MODEL	F (mm)	L (mm)	G _{min} (mm)	G' _{min} (mm)
1	1-S211R	130	93	275	230
	1-S212R	155	118	300	255
	1-S213R	180	143	325	280
	1-S214R	205	168	350	305
	1-S215R	235	198	380	335
	1-S216R	265	228	410	365
	1-S217R	295	258	440	395
	1-S218R	335	298	480	435
	1-S219R	355	318	500	455
2	1-S224R	412	375	557	512
	1-S225R	472	435	617	572
	1-S226R	532	495	677	632
	1-S227R	592	555	737	692
	1-S228R	672	635	817	772
3	1-S229R	712	675	857	812
	1-S236R	799	762	944	899
	1-S237R	889	852	1034	989
	1-S238R	1009	972	1154	1109
4	1-S239R	1069	1032	1214	1169
	1-S247R	1186	1149	1330	1286
	1-S248R	1346	1309	1490	1446
5	1-S249R	1426	1389	1570	1526
	1-S258R	1683	1646	1828	1783
6	1-S259R	1783	1746	1928	1883
	1-S268R	2020	1983	2165	2120
	1-S269R	2140	2103	2285	2240



L – Visibility.
 F – Total body length.
 G' – Distance between center of connections (level/valves with rigid nipple).
 G – Distance between connection center (level/valves with three-piece joint).

Notes:

- Maximum operating temperature 400 °C.
- Dimensions for levels with 1/2" connections.
- F, G and G' dimensions increase by 40 mm at medium pressure levels with 3/4" connections and at high pressure levels with 1/2" and 3/4" connections.
- For lateral or rear connections, the F dimension increases by a minimum of 150 mm.



LEVEL

Visual level indicator. Transparency Type

DESCRIPTION: Necessary in those applications where it is not necessary to install a level control device of a vessel, but the visualization of its level is required. It is possible for both medium and high-pressure applications.



APPLICATIONS

- Measurement in liquids and corrosive environments.
- Flammable fluids and contaminants.
- In all types of industrial plants such as:
 - Power generation.
 - Chemical and petrochemical industries.
 - Renewable energies.
 - Food industry.
 - Paper factories.
 - Water treatment.

MANUFACTURING

- Design standards:	- DIN 7081
- Materials:	Carbon steels. Steel alloys.
- Manufacturing sizes:	According to standardized sections.
- Flange finishes:	RF, FF, RTJ.

SPECIFICATIONS

Equipped with offset valves and possible construction with additional devices depending on the process.

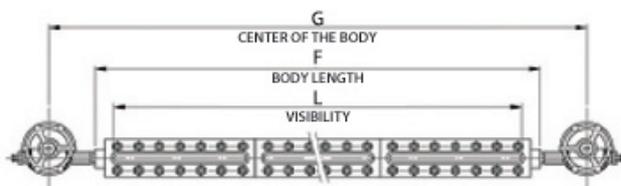
NOTES

- **Maximum operating temperature:** According to the flanges rating, tube thickness, materials and glass size.
- **Maximum operating pressure:** According to the flanges rating, tube thickness, materials and glass size.
- Opcional iluminador y certificación ATEX/IECEx.



LEVEL
Visual level indicator. Reflection Type

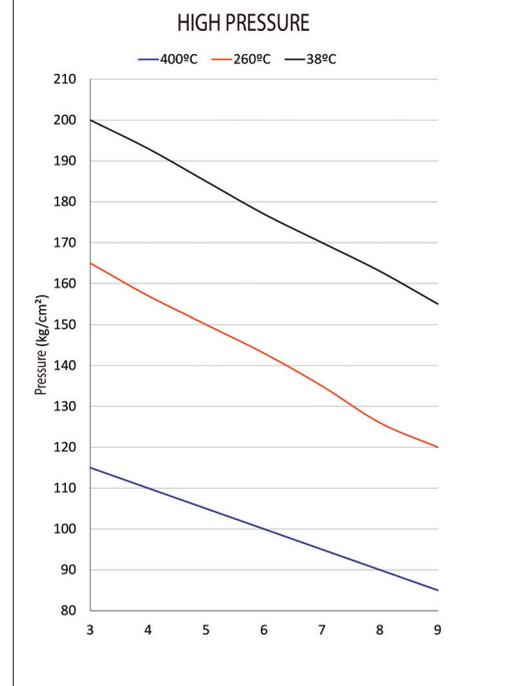
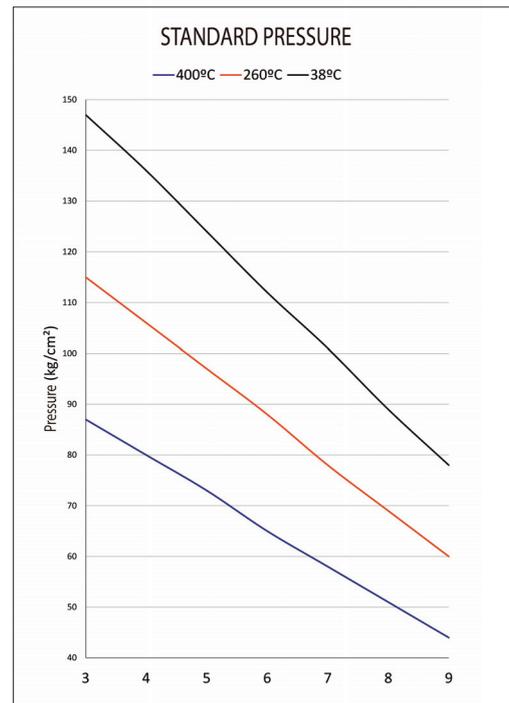
SECTIONS	MODEL	F (mm)	L (mm)	G _{min} (mm)	G' _{min} (min)
1	1-S211T	130	93	275	230
	1-S212T	155	118	300	255
	1-S213T	180	143	325	280
	1-S214T	205	168	350	305
	1-S215T	235	198	380	335
	1-S216T	265	228	410	365
	1-S217T	295	258	440	395
	1-S218T	335	298	480	435
	1-S219T	355	318	500	455
2	1-S224T	412	375	557	512
	1-S225T	472	435	617	572
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	1-S248T	1346	1309	1490	1446
	1-S249T	1426	1389	1570	1526
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	1-S259T	1783	1746	1928	1883
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	1-S269T	2140	2103	2285	2240



L – Visibility.
 F – Total body length.
 G' – Distance between center of connections (level/valves with rigid nipple).
 G – Distance between connection center (level/valves with three-piece joint).

Notes:

- Máxima temperatura de operación 400 °C.
- Maximum operating temperature 400 °C.
- Dimensions for levels with 1/2" connections.
- F, G and G' dimensions increase by 40 mm at medium pressure levels with 3/4" connections and at high pressure levels with 1/2" and 3/4" connections.
- For lateral or rear connections, the F dimension increases by a minimum of 150 mm.
- For steam or hot water with P and T greater than 21 kg/cm² and 214 °C, supplementary mica garnishes should be used.

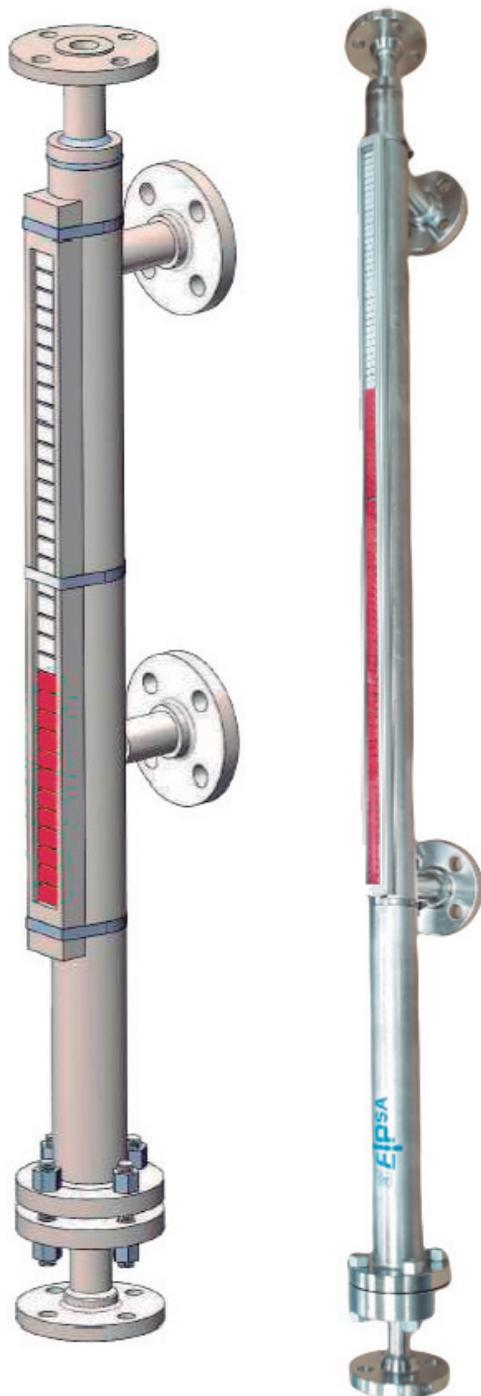


LEVEL

Visual level indicator. Magnetic type

DESCRIPTION: Necessary in those applications where it is not necessary to install a level control device of a vessel, but the visualization of its level is required.

It is bypass type and consists of a float with a magnet inside that is responsible for turning flags, through which it allows to know the level of the tank.



APPLICATIONS

- Measurement in liquids and corrosive environments.
- Flammable fluids and contaminants.
- In all types of industrial plants such as:
 - Power generation.
 - Chemical and petrochemical industries.
 - Renewable energies.
 - Food industry.
 - Paper factories.
 - Water treatment.

MANUFACTURING

- Design standards:	- ASME VIII - ASME B31.3 / B31.1
- Materials:	Stainless steels and PVC (chamber). Stainless steels, titanium, PVC and Teflon (float).
- Manufacturing sizes:	According to requisition
- Flange finishes:	RF, FF, RTJ.

SPECIFICATIONS

Densities range: 500 - 1000 kg/m³.
Maximum chamber length: 5000 mm.
Equipped with the necessary accessories.

NOTES

- **Maximum operating temperature:** According to the flanges rating, tube thickness, materials and glass size.
- **Maximum operating pressure:** According to the flanges rating, tube thickness, materials and glass size.



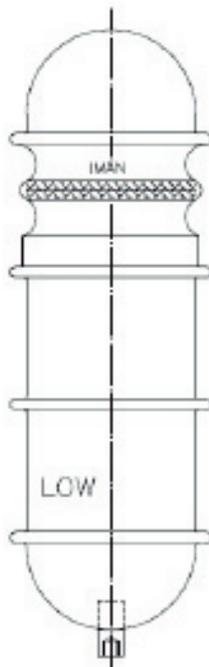
LEVEL

Visual level indicator. Magnetic Type



MODEL	FLUID DENSITY min (kg/m ³)	FLOAT MATERIAL	FLOAT
3SECT	950	316	∅50 x 182 mm
4SECT	850	316	∅50 x 217 mm
5SECT	750	316	∅50 x 252 mm
6SECT	700	316	∅50 x 287 mm
7SECT	650	316	∅50 x 322 mm
8SECT	625	316	∅50 x 357 mm
9SECT	600	316	∅50 x 392 mm
3SECTI	665	TITANIO	∅50 x 182 mm
4SECTI	565	TITANIO	∅50 x 217 mm
5SECTI	505	TITANIO	∅50 x 252 mm
6SECTI	462	TITANIO	∅50 x 287 mm
7SECTI	430	TITANIO	∅50 x 322 mm

*Standard models, other materials and working ranges on request.



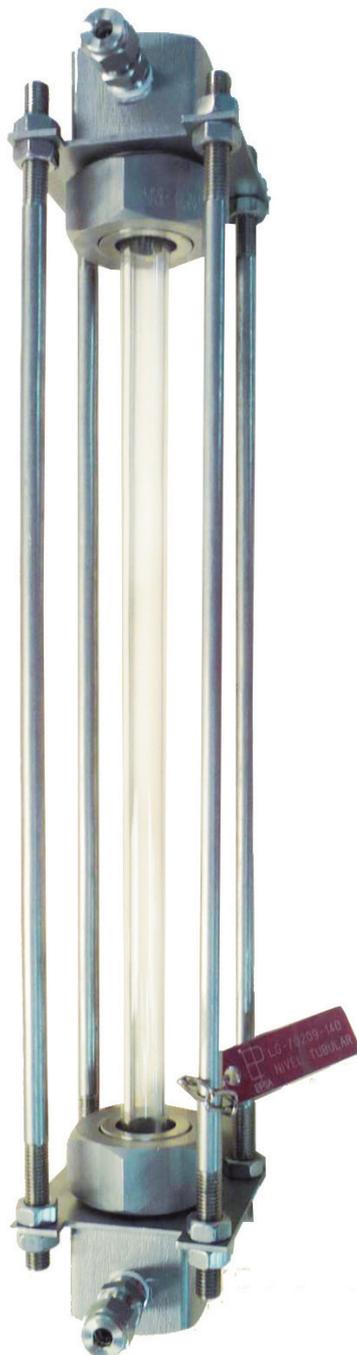
OPERATIONAL PRESSURES	
MODEL	P(kg/cm ²)
3SECT	30
SH3SECT	60
H13SECT	60
SH13SECT	90
H23SECT	90
SH23SECT	120



LEVEL

Visual level indicator. Glass Tube

DESCRIPTION: Necessary in those applications where it is not necessary to install a level control device of a vessel, but the visualization of its level is required. Its use is subject to the pressure limitations of the glass tube.



APPLICATIONS

- Measurement in liquids and corrosive environments.
- Flammable fluids and contaminants.
- In all types of industrial plants such as:
 - Power generation.
 - Chemical and petrochemical industries.
 - Renewable energies.
 - Food industry.
 - Paper factories.
 - Water treatment.

MANUFACTURING

- Design standards:	-
- Materials:	Carbon steels. Steel alloys.
- Manufacturing sizes:	According to standardized sections.
- Flange finishes:	RF, FF, RTJ.

SPECIFICATIONS

Equipped with valves and possible construction with additional devices depending on the process.

NOTES

- **Maximum operating temperature:** According to the flanges rating, tube thickness, materials and glass size.
- **Maximum operating pressure:** According to the flanges rating, tube thickness, materials and glass size.





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