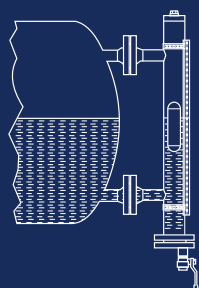


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INSTRUMENTATION



[www.salmarcon.com](http://www.salmarcon.com)

TRUSTED TO  
**DELIVER**  
INNOVATIVE  
**SOLUTIONS**

## About Salmarcon

Established in 2012, as a private owned company, we since have proved to be a succesful growing story. We are specialist in the manufacturing and supply of high-quality industrial sealing products, fluid control, gaskets, fasteners such as stud bolts, nuts, washers and associated services in Turkey. We are more than 100 employees working together in a 15.000m<sup>2</sup> active area located in Çanakkale.

### Expert sealing solutions

With a mix of world class products and know - ledgeable people we quickly attracted big clients. Ever since we have proven worthy of the trust, and we have turned into one of the top players of the Turkish gasket industry as well as having entered European supply chains.

### Certified quality

Our products deliver proven user safety.

- » Our products are amongst the most approved and certified products within the industry
- » We deliver certified and trusted products worldwide
- » EN ISO 9001:2015, ISO 14001:2015 as well as ISO 45001:2018 certified
- » Best in market certificates & approvals for all our material.

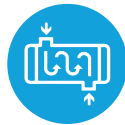
## Our solutions for all applications



Pipes & Flanges



Scrubbers



Heat Exchangers



Food Reactors



Pumps



Compressors



Gas heaters



Steam



Oil + Gas



Chemical



Mining



Petro chemical

## INSTRUMENTATION

Level gauges, originally invented by Richard Klinger more than 110 years ago, still serve to reliably indicate the liquid level in boilers and vessels today.

An efficient process operation demands high-performance measurement installations. Our products supply strength and outstanding durability versus alkaline and acid solutions as well as boiler water. Furthermore, continuous quality checks permanently ensure best-in-class measurement performance, long-term stability and the resource-conserving properties that have made this product range trusted.

Liquid level gauges feature a reflex glass within the body. An observation slot on the other side allows for clear reading of non-hazardous liquids. With regard to applications that involve either hazardous or toxic liquids or gases, operators around the world rely on the magnetic level gauges.

- Reflex level gauges allow the medium to be viewed through a reflex glass: the side of the glass which is exposed to the medium has a prismatic surface, while the other side is smooth. Reflex level gauges offer great advantages in terms of low purchase and maintenance costs, as well as easy level reading.
- Spare parts for level gauges. The lenses in Reflective and Transparent level gauges become blurred over time, and they can be ordered as spare parts. When the lenses are changed, the gaskets should also be changed.

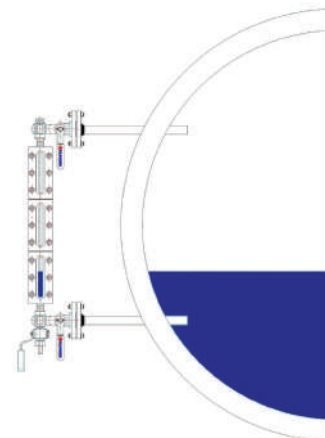


## LEVEL GAUGES

Our most indicators are all ISO 9001 certified and subjected to strict controls according to ASME / EN standards.

The level indicators can be of various types depending on the function they will perform:

Everywhere liquid levels have to be directly read and defined.



## MAIN ADVANTAGES

Direct view of the fluid level

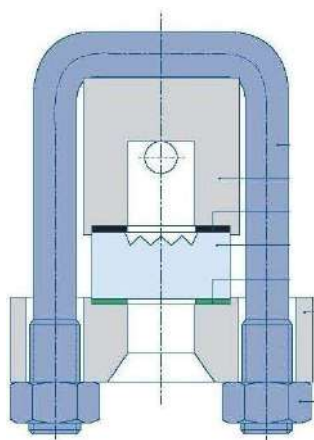
Suitable for steam application

Cheaper solution to check the fluid level

Easy maintenance

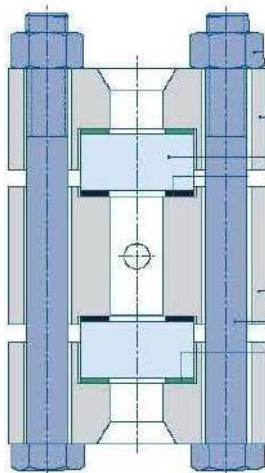
Very long life in service

**REFLEX**  
(process & steam)



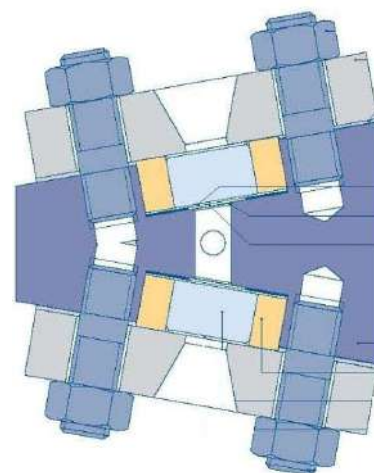
Different Rirfraction with  
Liquid and Gas (or

**TRANSPARENT**  
(process & steam)



Different Rirfraction with  
LiquidDirect vision through  
the two glasses (back  
illumination and Gas (or

**BICOLOUR**  
(steam)



Different colours between  
Water (Green) and Steam  
(Red). Back illuminated

### PROCESS APPLICATION

REFLEX:

TRANSPARENT:

WATER, CLEAN LIQUID AND COLOURED FLUID

VISCOUS, DIRTY AND UNCOLOURED FLUID,

INTERFACE SERVICE AND AGGRESSIVE FLUID (PROTECTED GLASS)

### STEAM APPLICATION

REFLEX

TRANSPARENT

BICOLOUR

UP TO 32 bar

UP TO 120 bar

UP TO 225 bar

PROCESS APPLICATION FOR GLASS LEVEL GAUGES						
Range of Production - PROCESS Application						
Level Gauge Type	Max Working Pressure [Bar]	Max Working Temperature [C°]	Klinger Level Gauge Model	Klinger Gauge Valve Model		Klinger Level Gauge RATING / Max Pressure
REFLEX	25	400	R 25	DG	Offset RAV	PN 25 / ANSI 150
	100	400	R 100	DG	Offset RAV	PN 100 / ANSI 600
	160	400	R 160	DG	Offset RAV	PN 160 / ANSI 900
	250	400	R 250		Offset RAV	PN 250 / ANSI 1500
	63	400	UOR Large Chamber	DG	Offset RAV	PN 63 / ANSI 400
	400	120	A 400	DVK2.IT		PN 400 / ANSI 2500
TRANSPARENT	16	185	R-D (glass)	D		PN16
	50	400	T 50	DG	Offset RAV	PN 50 / ANSI 300
	100	400	T 100	DG	Offset RAV	PN 100 / ANSI 600
	160	400	T 160	DG	Offset RAV	PN 160 / ANSI 900
	160	400	T 160-XS	DG	Offset RAV	PN 160 / ANSI 900
	250	400	T 250		Offset RAV	PN 250 / ANSI 1500
	63	400	UOT Large Chamber	DG	Offset RAV	PN 63 / ANSI 400
WELD-PAD	100	400	UWR / UWT	Not Applicable		PN 100 / ANSI 600
	100	400	USR / UST	Not Applicable		PN 100 / ANSI 600

## Range of Production - STEAM Application

STEAM APPLICATION FOR GLASS LEVEL GAUGES						
Level Gauge Type	Max Working Pressure (Bar) SATURATED STEAM	Max Working Temperature [C°]	Level Gauge Model	Gauge Valve Model		
REFLEX	32	239	K	D		
	20	215	R 25	D		
	22	219	R 100	D		
	32	239	R 160	D		
TRANSPARENT	10	185	R-D (glass)	D		
	15	202	T 50	D		
	30	235	T 100	D		
	40	252	T 160	D	D/A	
	40	252	T 160-XS	D	D/A	
	60	270	T 160-XS	DA		
	85	298	T 85	DA	DVK2.IT	Offset RAV 957 Seal welded
	85	298	TA 120	DA		
	120	323	TA 120	DVK2.IT		
	BICOLOUR	225		KTA - 225	DVK2	
180		356	KTA	DVK2		
75		291	KT - 75	DVK2	D/A	
25		225	KT - 25	D	D/A	

Material definitions:

FS/H CARBON STEEL

- ASTM A105N as standard
- LF2 available for low temperature service at - 46°C

M/H WETTED PART STAINLESS STEEL OTHERS IN CARBON STEEL

- AISI 316L and ASTM A105N as standard

M STAINLESS STEEL

- AISI 316L as standard

ALLOY, PLASTIC OR OTHER MATERIALS ARE AVAILABLE

GASKET in contact with media

- REINFORCED GRAPHITE (Single tang insert in 316) or for high pressure (Double tang inserts in 316)
- PTFE and other material on request

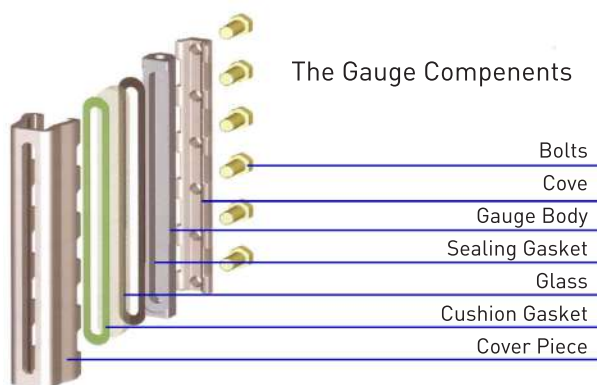
ORIGINAL KLINGER GAUGE GLASSES

- "Extra-hard" borosilicate glass, according to DIN 7081
- NEW OPTION: ANTISTICK GLASSES

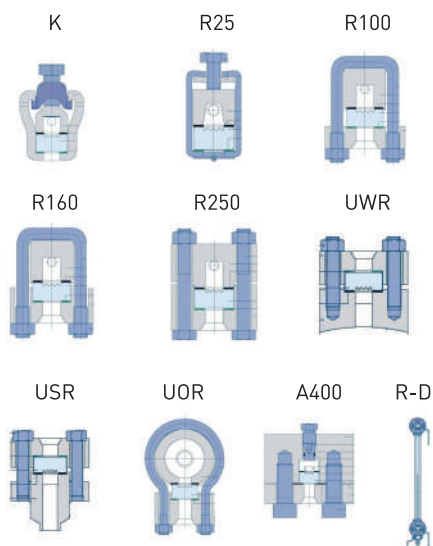
VALVE AND COCKS

- FS/H , M/H, M and other on request.

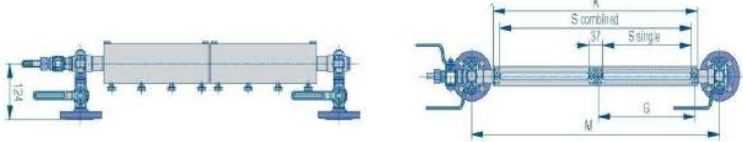

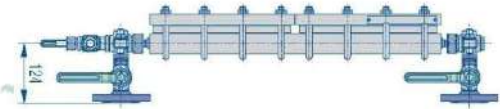
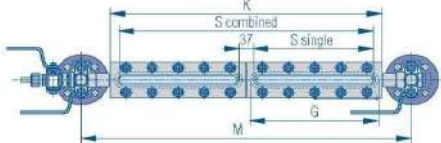

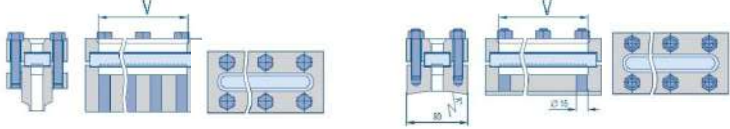
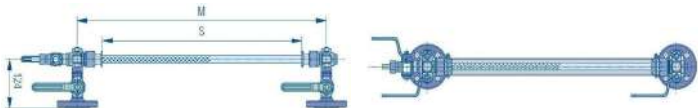
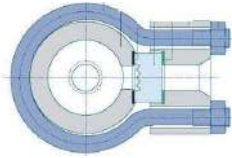
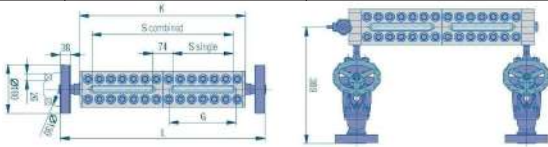
### REFLEX Gauges suitable for STEAM and PROCESS applications



- K → PN40/32 Bar for steel
- R25 → PN25
- R 50 → PN50 (NEW)
- R100 → PN100
- R160 → PN160
- R250 → PN 250
- UWR → PN100 (Weld-On)
- USR → PN100 (Weld-On)
- UOR → PN64 (Large Chamber)
- A400 → PN 400
- R-D → PN16 (Glass Tube)





For steam and process application	Type	Process	Steam	Material	Size	Suitable for shutoff Fittings
	R25	PN25-ANSI 150 T 400 °C	Bar 20 - T 215°C	FS/H - M/H	from Ito 7x IX	D Cock on Steam
						DG Cock on Process
						RAV 956/957 on Process
						RAV 946/947 on Process
	R50	PN50-ANSI 300 T 300 °C	Bar 20 - T 215°C	FS/H - M/H - M	from Ito 7x IX	D Cock on Steam
						DG Cock on Process
						RAV 956/957 on Process
						RAV 946/947 on Process
	R100	PN100-ANSI 600 T 400 °C	Bar 22 - T 219°C	FS/H - M/H - M	from Ito 7x IX	D Cock on Steam
						DG Cock on Process
						RAV 956/957 on Process
						RAV 946/947 on Process
	R150	PN160-ANSI 900 T 400 °C	Bar 32 - T 239°C	FS/H - M/H - M	from Ito 7x IX	D Cock on Steam
						DG Cock on Process
						RAV 956/957 on Process
						RAV 946/947 on Process
	R250	PN250-ANSI 1500 T 400 °C	Bar 32 - T 239°C	FS/H - M/H - M	from Ito 7x IX	DG Cock on Process
						RAV 956/957 on Process
						RAV 946/947 on Process
	UWR-USR	PN100-ANSI 600 T 400 °C		FS/H - M/H - M	from Ito IX	Also available
						UWT-A PN50
						BODY 70x30mm
						GLASS "A"
	Glass Tube	PN16 - T 185 °C	Bar 10 - T 120°C	FS/H - M/H - M	For Center to	D Cock
						Center distance above 1500 mm union
For process application	UOR		PN63/ANSI 400 T 400°C	FS/H - M/H - M	from II to 6x IX	DG Cock on Process
						RAV 956/957 on Process
						RAV 946/947 on Process
	A400 (Hig pressure)		PN400/ANSI 2500 T 1200°C	FS/H - M/H	from II to 6x IX	DVK-2 Valves
						

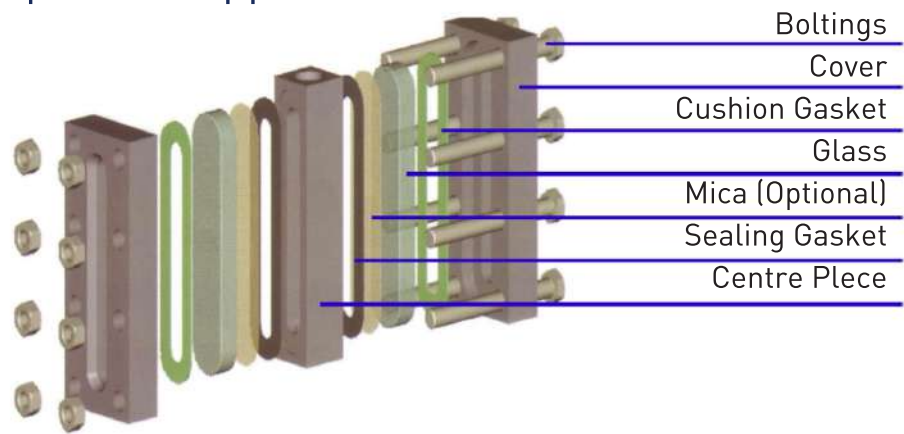
# TRANSPARENT LEVEL GAUGES

In this kind of level gauges, the fluid is contained between two crystals with both smooth surfaces. The level is observed in a very easy way, namely looking through the glasses. This kind of crystal makes the level gauge good for aggressive fluids or steam, since protective mica shields can be installed between the fluid and the glass.

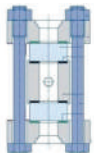
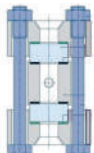
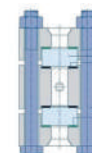
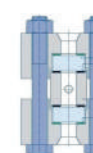
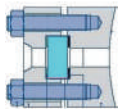
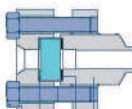

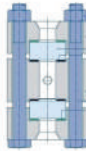
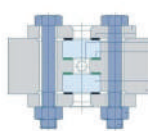
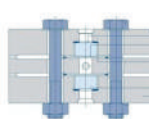
In order to improve visibility, the transparent level gauge can be mounted with an illuminator placed on a side of the transparent level gauge.

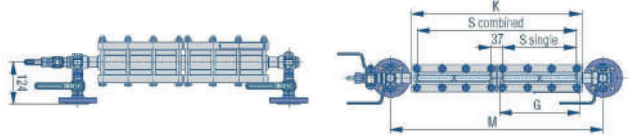
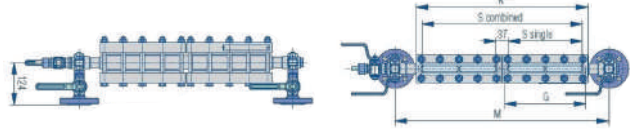
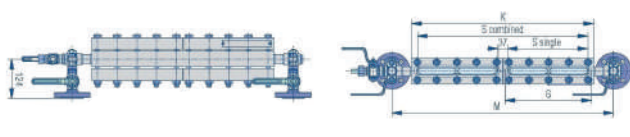
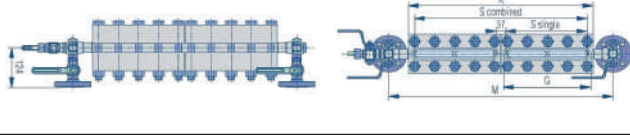
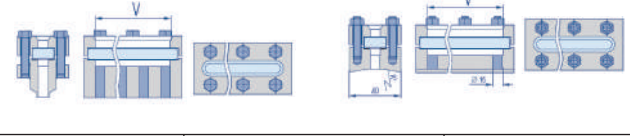
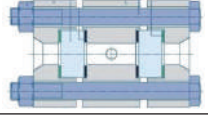
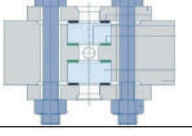
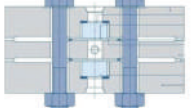
## Trasparent Level Gauge

For steam and process application



Same Compenents for the opposite side of the Gauge

		T 50	T 100	T 160	T 250
-T50	PN50				
-T100	PN100				
-T160	PN160				
-T250	PN250				
UWT	PN 100 (Weld-On)	UWT	UST	UOT	
UST	PN100 (Weld-On)				
UOT	PN64 (Large Chamber)				
- T 160XXS	Steam 60 Bar	T160XS	T85	TA120	
- T 85	Steam 85 Bar				
- TA 120	Steam 120 Bar				

	Type	Process	Steam	Material	Size	Suitable for shutoff Fittings
For steam and process application	T50	PN50-ANSI 300 T 400 °C	Bar 15 T 202°C	FS/H - M/H - M	I to 7 x IX	D Cock on Steam
				Mica or Kel-F shields		DG Cock on Process
				for glass protection		RAV 956/957 on Process
						RAV 946/947 on Process
	T100	PN100-ANSI 600 T 400 °C	Bar 15 T 235°C	FS/H - M/H - M	I to 7 x IX	D Cock on Steam
				Mica or Kel-F shields		DG Cock on Process
				for glass protection		RAV 956/957 on Process
						RAV 946/947 on Process
	T160	PN160-ANSI 900 T 400 °C	Bar 40 T 252°C	FS/H - M/H - M	I to 7 x IX	D Cock on Steam
				Mica or Kel-F shields		DG Cock on Process
				for glass protection		RAV 956/957 on Process
						RAV 946/947 on Process
For process application	T250 (High Pressure)		PN250/ANSI 1500 T 400°C	FS/H - M/H - M	I to 7 x IX	
				Mica or Kel-F shields		DG Cock on Process
				for glass protection		RAV 956/957 on Process
						RAV 946/947 on Process
	UWT - UST		PN250/ANSI 600 T 400°C	FS/H - M/H - M	I to IX	Also available
				Mica or Kel-F shields		UWT-A PN50
				for glass protection		BODY 70x30mm
						GLASS "A"
	T160-XS Medium Pressure		Steam 60 Bar	FS/H	I to 7 x IX	D Cocuk up to 40 Bar
				Mica shields		DA Cock up to 60 Bar
						RAV 957
	T85 (High Pressure)		85 Bar / T 298°C	FS/H	I to 7 x IX	DA Cock
				Mica shields		RAV 957
						DVK-2
	TS120 (High Pressure)		120 Bar / T 323°C	FS/H	I to 7 x IX	DVK-2
				Mica shields		

## BI-COLOR LEVEL GAUGE

Bi-color level gauges are a variant of transparent level gauges, mainly used to measure very high pressure water steam. These gauges feature two flat transparent glasses which, together with the gauge body, form the chamber containing the fluid. In this case, a special red and green illuminator is mounted on the rear side of the gauge body in order to obtain a double illumination system.

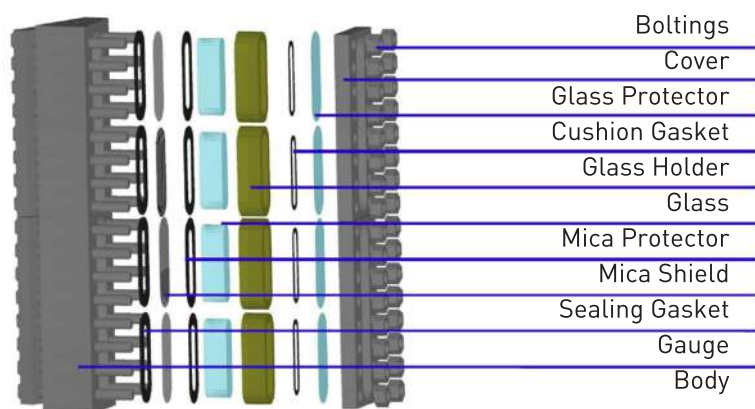
- Red light for the steam
- Green light for the liquid



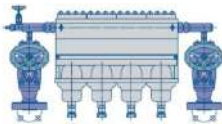
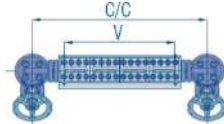
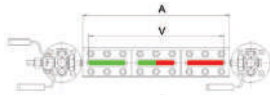

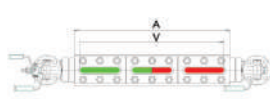

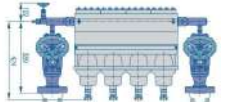
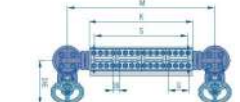
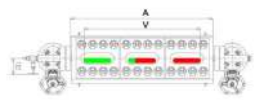

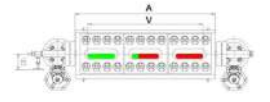

## Bi-Colour Level Gauge

For steam and process application

The Gauge Components



Same Components for the opposite side of the Gauge

For saturated steam application	Type	Steam	Material	Size	Suitable for shutoff Fittings
	KTA - DVK2	P.Max 25 Bar / T. Max 225°C	FS/H	PN40	Soft sealed gauges cocks
			Carbon stel		Model DA
	KT 25 MOD VAL D	P.Max 25 Bar / T. Max 225°C	FS/H	PN40	Soft sealed gauges cocks
			Carbon stel		Model DA
	KT 75 DA	P.Max 75 Bar / T. Max 291°C	FS/H	PN160	Soft sealed gauges cocks
			Carbon stel		Model DA
	KT 75 DVK 2	P.Max 75 Bar / T. Max 291°C	FS/H	PN160	Metal-to metal sealed valves
			Carbon stel		Model DVK2 inside screwed type
	KTA 180	P.Max 180 Bar / T. Max 355°C	FS/H	PN315	DVK2 Metal-to metalsealed valves, inside screwed type
			Carbon stel		
	KTA 225	P.Max 225 Bar / T. Max 360°C	FS/H	PN320	DVK2 Metal-to metalsealed valves, inside screwed type
			Carbon stel		

## MAGNETIC LEVEL GAUGE

Reliable magnetic level gauges, which are particularly suitable for duties involving dangerous and toxic liquids and gases, and where some of the following features/benefits/options are required:

- Immediate and precise response to level changes, ensuring clear and sharp readability
- Continuous control of the liquid level
- Local or remote display
- Alarm switching facilities
- Particularly suitable for dangerous or toxic fluids
- 360-degree rotatable display
- High pressure capability, up to 312 bar
- Minimum maintenance needed



Type	Process	Working conditions	Material	Size	Approval compliance
KMAG 300	PN50-ANSI 300	P. Max 53 Bar / T. Max 400°C	TITANIUM	25 mm	PED 2014/68/UE
			AISI 316		ATEX 2014/34/UE
			GRAPHITE gasket 2 inserts		
KMAG 600	PN100-ANSI 600	P. Max 103 Bar / T. Max 400°C	TITANIUM	25 mm	PED 2014/68/UE
			AISI 316		ATEX 2014/34/UE
			GRAPHITE gasket 2 inserts		
KMAG 900	PN150-ANSI 900	P. Max 147 Bar / T. Max 400°C	TITANIUM	25 mm	PED 2014/68/UE
			AISI 316		ATEX 2014/34/UE
			GRAPHITE gasket 2 inserts		
KMAG HP	High Pressure	P. Max 312 Bar / T. Max 400°C	TITANIUM	25 mm	PED 2014/68/UE
			AISI 316		ATEX 2014/34/UE
			GRAPHITE gasket 2 inserts		
KMS	Magnetic Switch	-50 - 250°C	Nickel	Max 10 Ma	IP 67
			AISI 316	max Ui-30V	
			Copper		
			Mica		
KMT	Transmitter	-20 - 170°C	Aluminium	100-3000 mm	IP 66
			AISI 316	length	
			Brass		
			Mica		

## ACCESSORIES

We provide specific accessories for all our level gauges ;

### LED ILLUMINATOR

The LED illuminator is a new device for the backlight service

This illuminator is brighter more than a traditional device with a lower energy consumption and compact design

Material : AISI 316 Cable Gland M20x1.5 Temperature 46°

Features: Protection IP66 Resistance to humidity 100%



### ATEX ILLUMINATOR

For transparent and bicolour level gauges - Glass or Plexiglass diffusers and Special Led lamps available

Protection Degree: IP66

CERTIFICATE on request: ATEX and GOST

Temperature Glass: T5-60W / on request T6-15W Low Consumption



### ABL 12-18

Two ways packing sleeve cock, with cylindrical plug and soft packing sleeve

Diameter: 12-6.0 mm / 18-8.0 mm

Standard: PN160 - ANSI 900

Working conditions: Max. 160 bar / 425°C at carbon steel / 550°C at Stainless steel



### ABL 12-18

Two ways packing sleeve cock, with cylindrical plug and soft packing sleeve (graphite or PTFE)

Initial tightening torque: AB 12-15 Nm / AB 18-20Nm

Standard: PN160 - ANSI 900

Working conditions: Max. 160 bar / 425°C at carbon steel / 550°C at Stainless steel



### ABK 18

Three way cock with stainless steel plug and soft stealing. It's suitable for mounting a control pressure gauge.

Threaded male/female 3/8" BSP o NPT - Mx F

1/2" BSP o NPT - Mx F

Working conditions: Max. 160 bar / 400°C



We provide specific accessories for all our level gauges as listed below ;

- LED ILLUMINATOR
- ANTI-FROST BLOCK
- MICA PROTECTIVE SHIELDS
- HEATING SYSTEM FOR THE LEVEL GAUGE BODY
- GRADUATED SCALE

Further accessories are available upon request



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