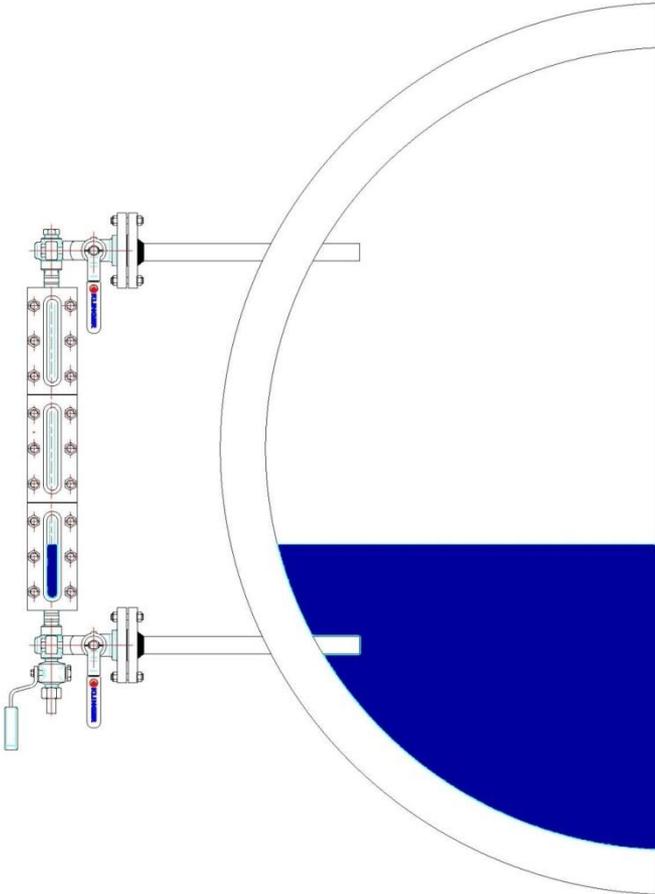




KLINGER ITALY

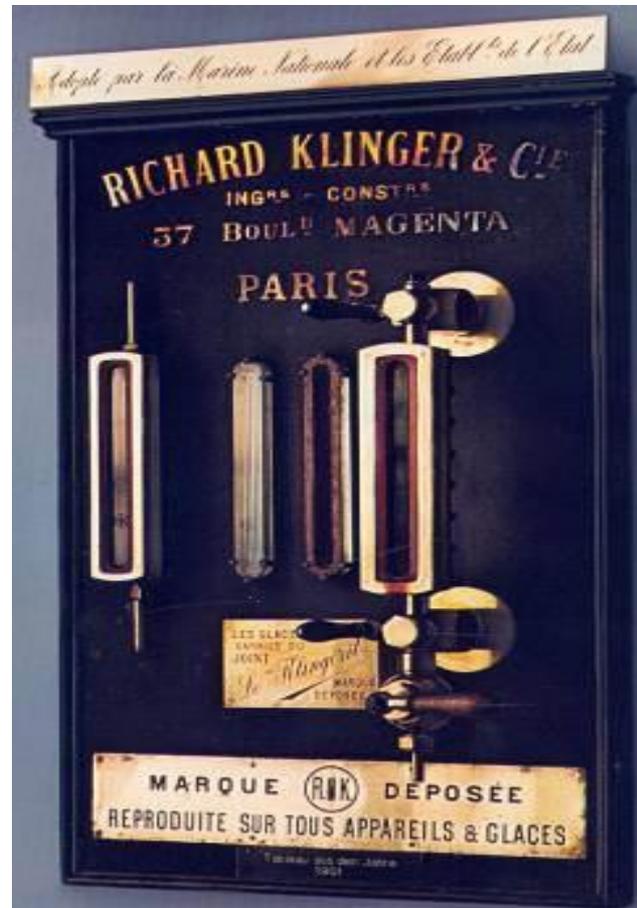
GLASS LEVEL GAUGES



GLASS LEVEL GAUGES

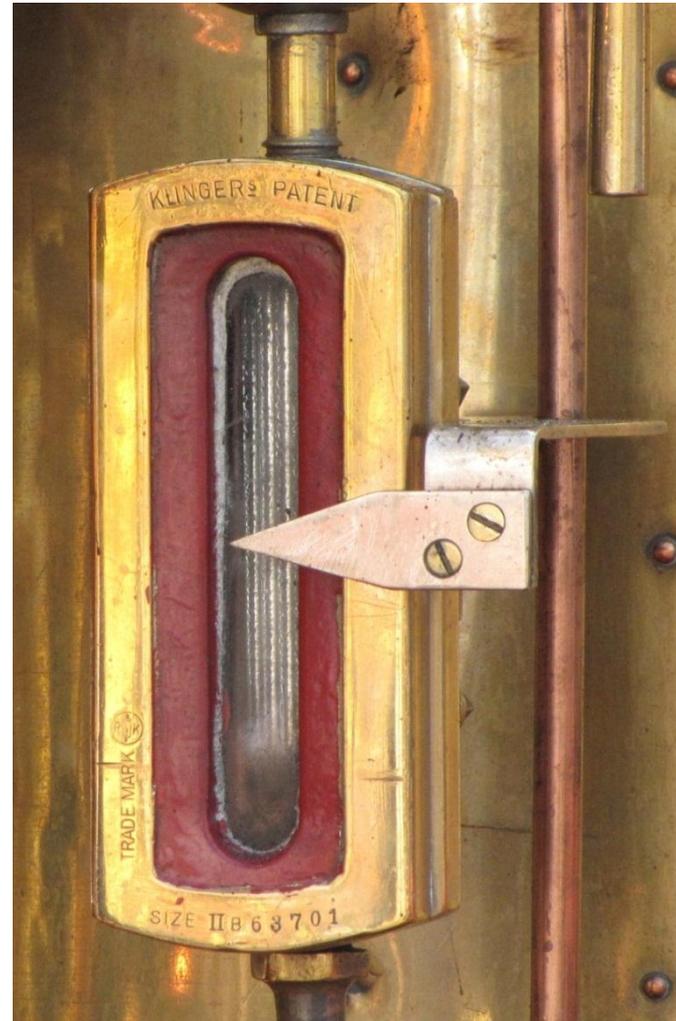
Everywhere liquid
levels have to be
directly read and defined

Glass level gauges were invented and patented in 1888 by Richard Klinger, the founder of the Group of independent KLINGER companies



The first great step into business was at the world exhibition 1901 in Paris

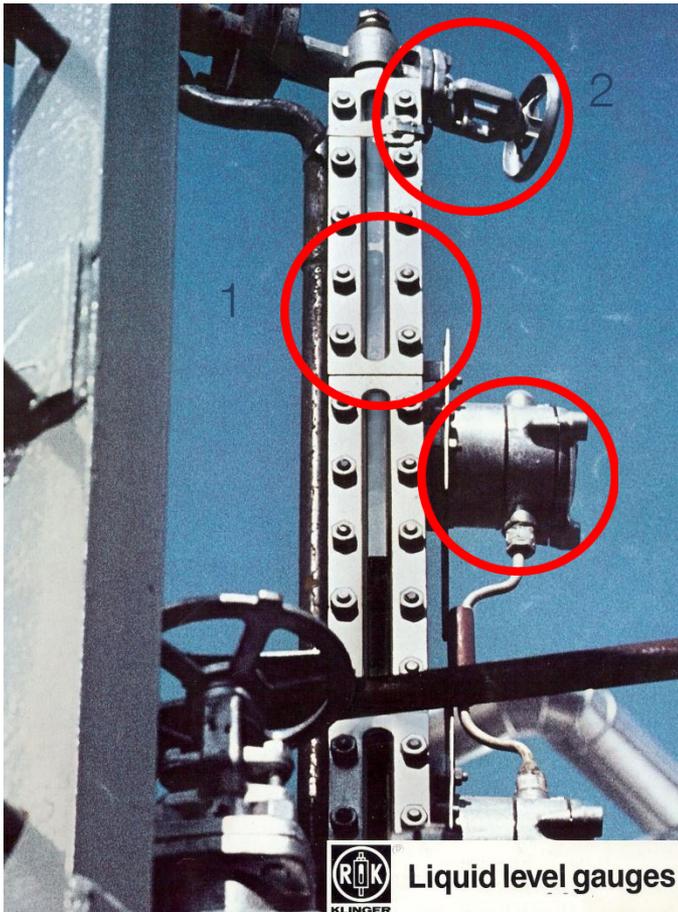
Original KLINGER Level Gauges are used from many years!



MAIN ADVANTAGES

- 1 – Direct view of the fluid level
- 2 – Suitable for steam application
- 3 – No electronic signal, no fault
- 4 – Cheaper solution to check the fluid level
- 5 – Easy maintenance
- 6 – Very long life in service

MAIN COMPONENTS



1 – BODY LEVEL GAUGES

With Glasses (Reflex or Transparent)

2 – VALVES OR COCKS

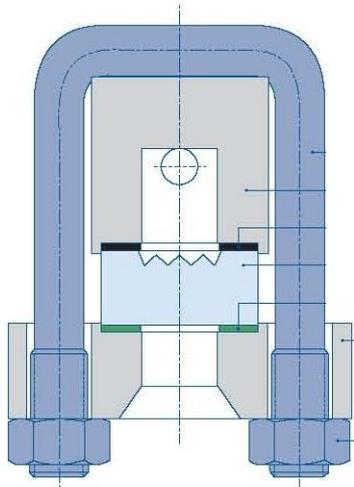
To isolate the Level Gauge body
from the utility

3 – ACCESSORIES

Illuminator Unit
No frost Device
Mica Shields
Heating Tracing

REFLEX

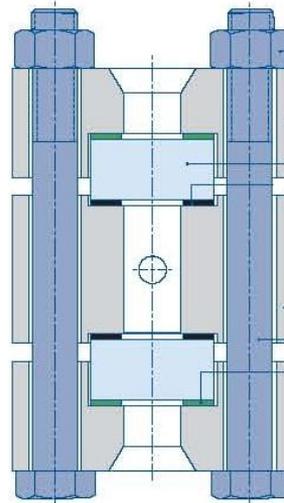
(process & steam)



Different Refraction
with Liquid and Gas
(or steam)

TRANSPARENT

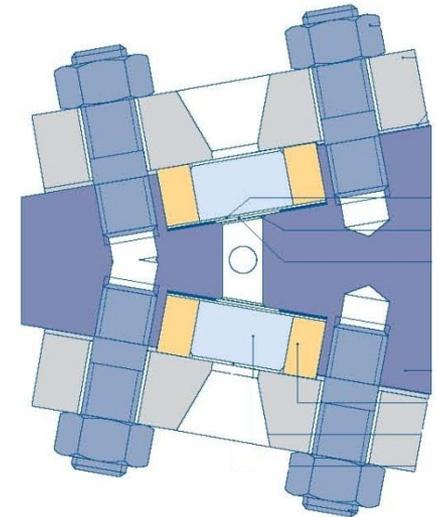
(process & steam)



Direct vision through the
two glasses (back
illumination available)

BICOLOUR

(steam)



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

PROCESS APPLICATION

REFLEX:

WATER, CLEAN LIQUID AND COLOURED
FLUID

TRANSPARENT:

VISCOUS, DIRTY AND UNCOLOURED
FLUID, INTERFACE SERVICE AND
AGGRESSIVE FLUID (PROTECTED GLASS)

STEAM APPLICATION

REFLEX

UP TO 32 bar

TRANSPARENT

UP TO 120 bar

BICOLOUR

UP TO 225 bar

Range of Production – PROCESS application

PROCESS APPLICATION FOR GLASS LEVEL GAUGES						
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		PN 16
	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°)	Klinger Level Gauge Model	Klinger 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	DA	
	40	252	T 160-XS	D	DA	
	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	DVK 2	DA	
	25	225	KT - 25	D	DA	

MATERIALS

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

MATERIALS

GASKET in contact with media

- Klinger REINFORCED GRAPHITE type PSM (Single tang insert in 316) or for high pressure “PDM” (Double tang inserts in 316)
- PTFE and other material on request

ORIGINAL GAUGE KLINGER GLASSES

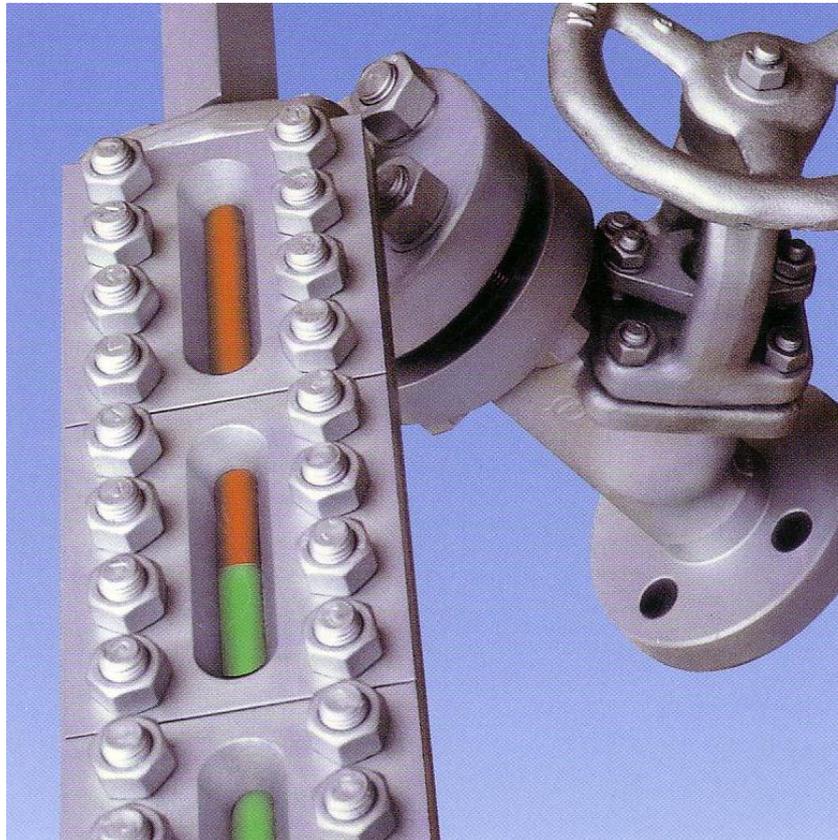
- “Extra-hard” borosilicate glass, according to DIN 7081
- NEW OPTION: ANTISTICK GLASSES

VALVE AND COCKS

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

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BICOLOUR LEVEL GAUGES

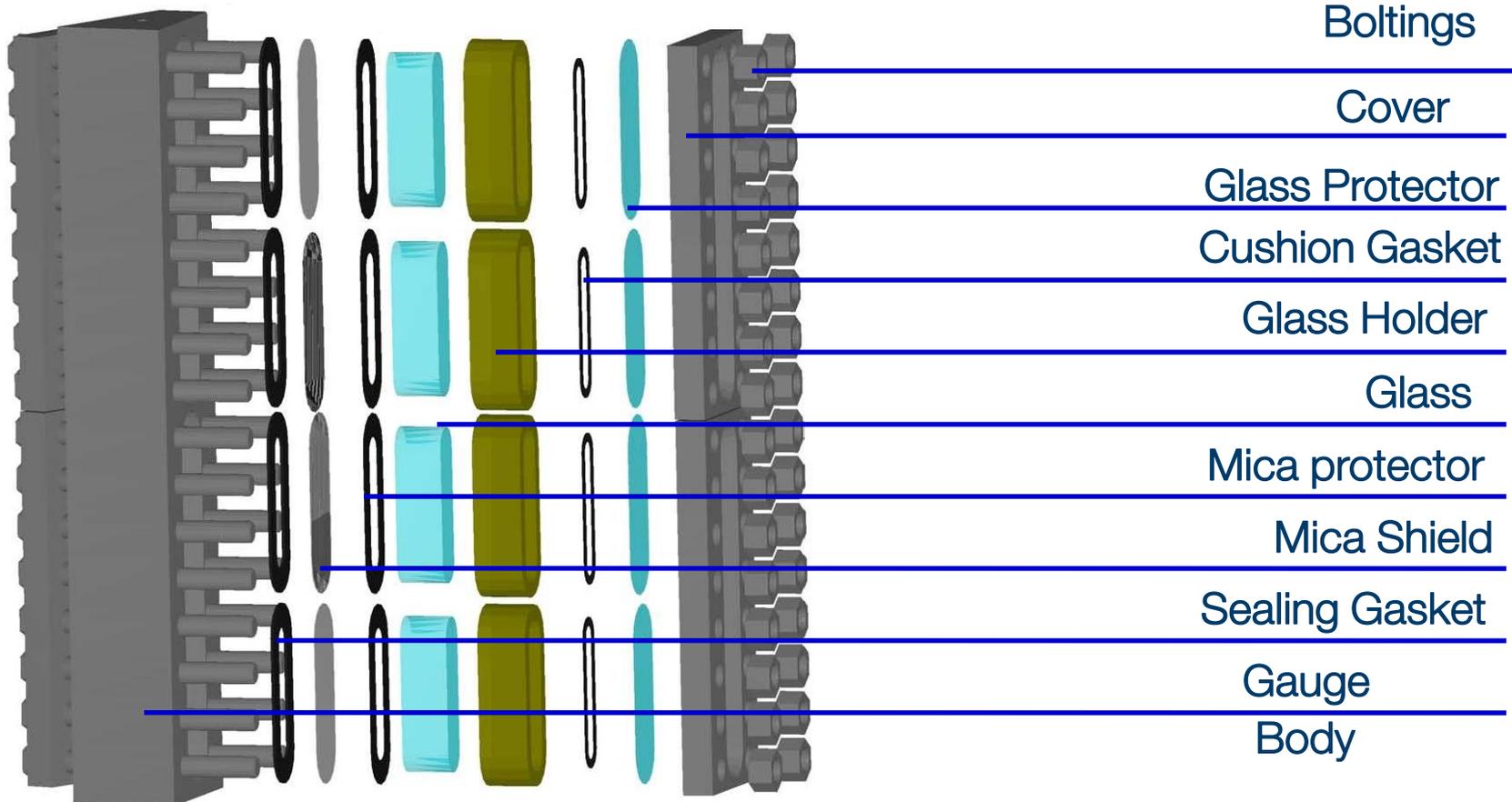


Becolour Level Gauge

For steam and process application



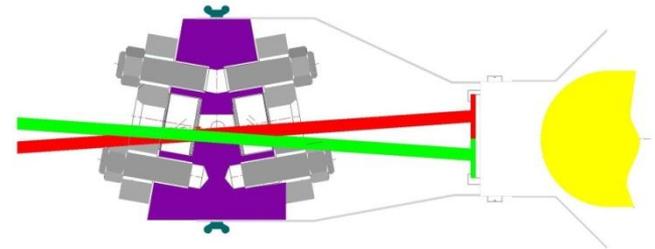
The Gauge Components



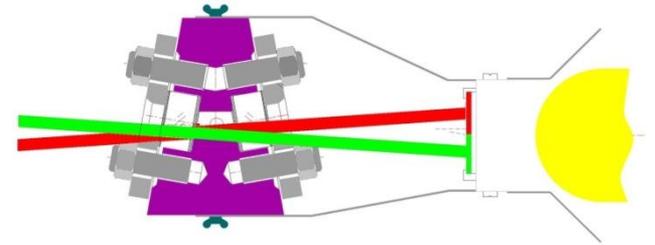
Same Components for the opposite side of the Gauge

BICOLOUR LEVEL GAUGES

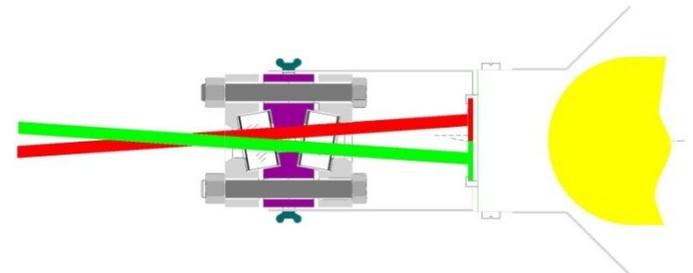
KTA up to 180 Bar Steam



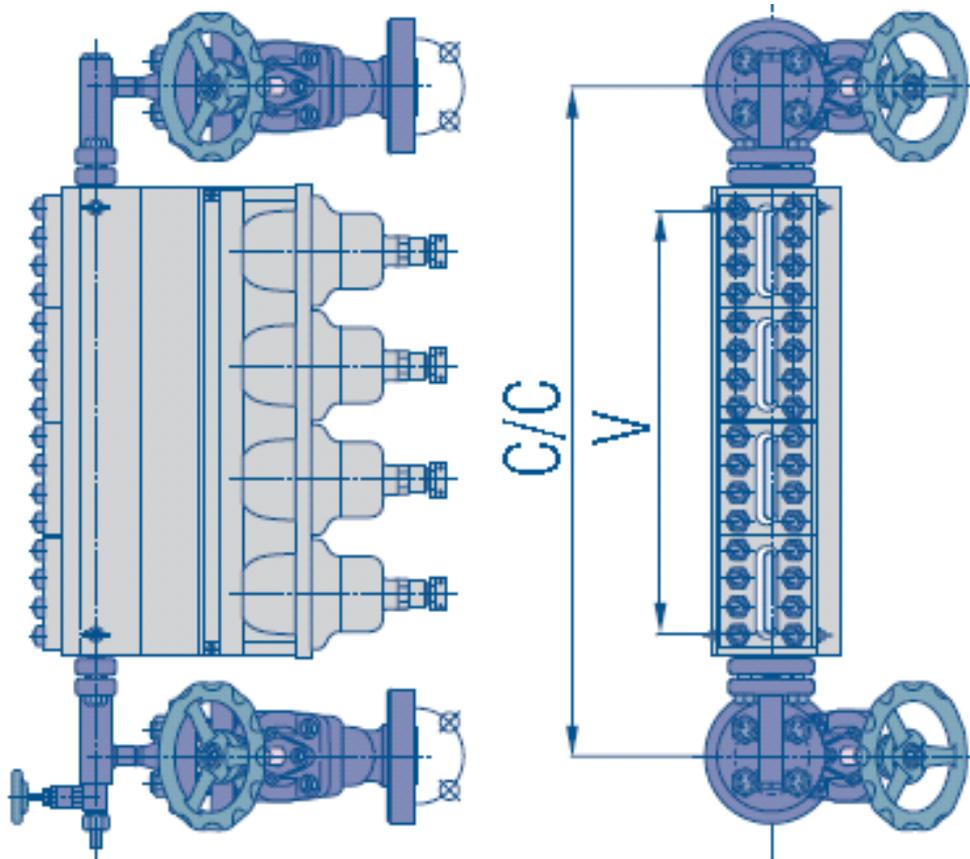
KT-75 up to 75 Bar Steam



KT-25 up to 25 Bar Steam



Bicolour Level Gauge



High Pressure Steam

Up to 225 Bar

Material Carbon Steel (FS/H)

Mica shields

Back illuminator

Single Sizes I (VIS = 93 mm)

Multiple Sections available

Suitable for shut-off Fittings:

- for KTA & KTA 225: DVK.2
- for KT 75: DVK-2 or DA
- for KT 25: DA or D

BICOLOUR MODEL



Top
of the world

Bicolour
level gauges
for high pressure
steam application



Complete family



A COMPLETE FAMILY
Designed in Klinger Italy Srl

KTA	up to 225 bar Steam
KTA	up to 180 bar Steam
KT-75	up to 75 bar Steam
KT-25	up to 25 bar Steam



THANK YOU
FOR YOUR ATTENTION