

**DESCRIPTION:-**

UKL offers Sight Glasses which enables the visualization of liquid in the pipeline. This helps in pre-empting problems occurring in the equipment upstream or downstream of the glass.

UKL Sight Glass consist of toughened Borosilicate glass, thermally pre stressed, optically tested.

UKL Sight Glass Double window type uses Klinger glasses for consistent, reliable, trouble free performance.

**APPLICATIONS:-**

UKL Sight Glass can be fitted on a condensate line to monitor steam leakages in the condensate because of the improved visibility it offers, UKL Sight Glass is especially suited for use in lines with high-speed flow.

The flow of oil and oil vapor can be visualized using sight glass. UKL Sight Glass for observation of processes in industrial ovens, driers, filters, strainers, agitators and mixers.

UKL Sight Glass can be used to check the efficiency of heat exchangers, especially in condensers, reboilers.

UKL Sight Glass can be installed in any direction.

Graphite/ CAF gaskets are used to avoid leakages.



**INSTALLATION:-**

Preferably in horizontal position.

**OPTIONAL:-**

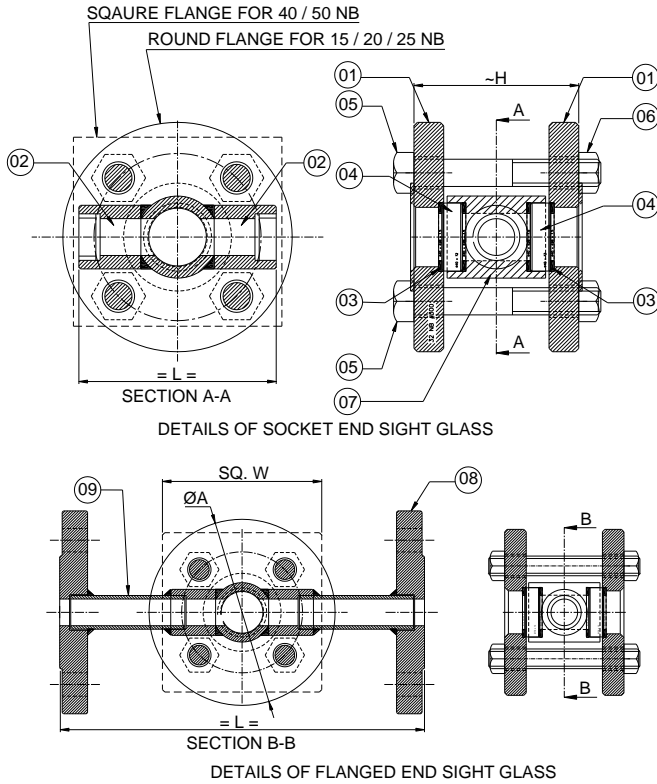
IBR/Non-IBR  
Flanged End ANSI #150/#300

**END CONNECTIONS:**

Socket Weld to ASME B 16.11  
Screwed BSP / NPT / BSPT  
Flanged End as per ASME 16.5, #150/ #300

Design Conditions for Flanged End				
Size NB	Class	Pressure	Temperature	Cold Hydro Test Pressure
15 / 20 / 25 / 40 / 50	#150	19.6 Bar(g)	300 °C	30 Bar (g)
	#300	40 Bar(g)	300 °C	60 Bar (g)
Design Conditions for Socket Weld / Screwed End ( BSP / BSPT / NPT )				
Size	End Connection	Pressure	Temperature	Cold Hydro Test Pressure
15 / 20 / 25 / 40 / 50	SW / BSPT / NPT	40 Bar(g)	300 °C	60 Bar (g)
15 / 20 / 25	BSP	12 Bar(g)	260 °C	18 Bar (g)
40	BSP	10.3 Bar(g)	260 °C	16 Bar (g)
50	BSP	8.6 Bar(g)	260 °C	13 Bar (g)

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Bill of Material			
No.	Part Name	Material	Material Code
1	Lens Flange	Carbon Steel	ASTM A 105 / ASTM A 516 Gr.70
2*	Half Coupling #3000	Carbon Steel	ASTM A 105
3	Gasket	STD	CAF / GRAPHITE
4	Toughened Glass	STD	BORO SILICATE
5	Hex Bolt	Alloy Steel	Gr. 8.8 OR HIGHER
6	Nut	Alloy Steel	Gr. 8 OR HIGHER
7*	Pipe- Sch-XXS	Carbon Steel	ASTM A 106 Gr. B
8\$	SORF / SWRF Flanges	Carbon Steel	ASTM A 105 / ASTM A 516 Gr.70
9\$	Pipe Sch-80	Carbon Steel	ASTM A106 Gr.B

Note:  
 \* -Sizes varies as per different sizes of sight glass ( 15 / 20 / 25 / 40 / 50 NB )  
 \$ -Part No. 8 and 9 Only applicable for Flanges End sight glass

Dimensions for Socket Weld End / Screwed End						
Sr.	Size	L	~H	SQ. W / ØA	Approx. Weight (kg)	
1	15 NB	116.0	139.0	135.0	6.3	
2	20 NB	126.0	139.0	135.0	6.5	
3	25 NB	136.0	139.0	135.0	6.4	
4	40 NB	183.0	166.0	140.0	11.8	
5	50 NB	207.0	166.0	140.0	12.5	

Dimensions for Flange end						
Sr.	Size	Class	L	~H	SQ. W / ØA	Approx. Weight (kg)
1	15 NB	# 150	250.0	139.0	135.0	7.4
		# 300	265.0	139.0	135.0	7.8
2	20 NB	# 150	260.0	139.0	135.0	7.8
		# 300	280.0	139.0	135.0	9.0
3	25 NB	# 150	275.0	139.0	135.0	9.0
		# 300	290.0	139.0	135.0	10.2
4	40 NB	# 150	330.0	166.0	140.0	15.5
		# 300	345.0	166.0	140.0	18.5
5	50 NB	# 150	360.0	166.0	140.0	18
		# 300	375.0	166.0	140.0	20.2



Cast / Forged Steel Piston Valves, Bellow seal valves, High Pressure valves (Gate/Globe), Strainers – "Y" Type Steam Traps (Thermodynamic, Thermostatic, Ball Float Traps), Pressure Reducing Station, Condensate Recovery Products. Level Gauges (Reflex, Transparent, Bicolor), Sight Glass, Hot Water Generation System, Safety and Relief Valves. FSD Products : Compressed Asbestos / Non Asbestos Fiber Sheetting / Cut Gaskets, Spiral Wound Gaskets.

In view of technical progress design and dimensions are subjected to change without notice.

**UKL** <sup>®</sup> **UNI KLINGER LIMITED**  
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