

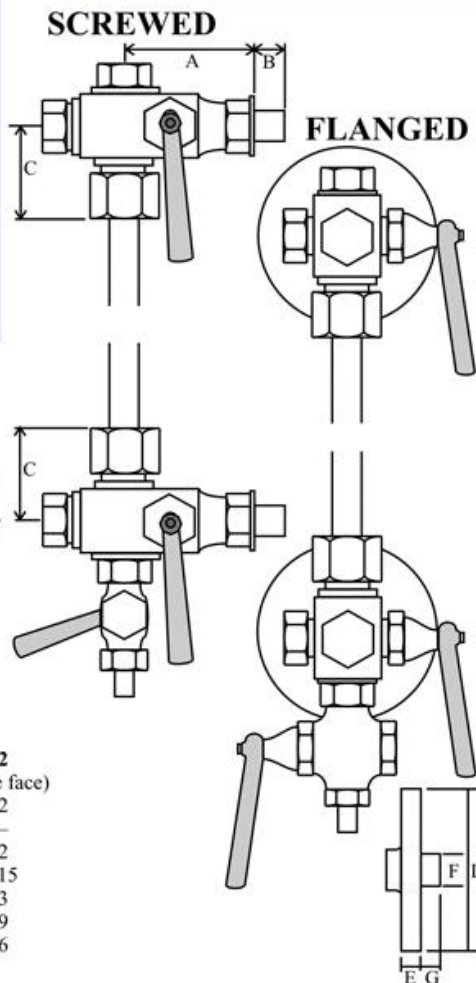


# WILLIAM JOHNSTON & COMPANY LIMITED

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## GUNMETAL STEAM COCKS

<b>Standard Pattern</b>			
<b>Screwed Ends Model</b>			
	<b>20</b>	<b>22</b>	
Diameter of Glass Tube	Ins ½"	¾"	
Screwed Male BSP Thread	Ins ½"	¾"	
Approx. Weight per Set	Kg 3.77	6.12	
<b>Light Pattern</b>			
<b>Screwed Ends Model</b>			
	<b>30</b>	<b>32</b>	
Diameter of Glass Tube	Ins ½"	¾"	
Screwed Male BSP Thread	Ins ½"	¾"	
Approx. Weight per Set	Kg 2.20	3.77	
<b>Standard Pattern</b>			
<b>Flanged Model</b>			
	<b>41</b>	<b>44</b>	
Diameter of Glass Tube	Ins ½"	¾"	
Diameter of Flange	Ins 4 ½"	4 ½"	
Approx. Weight per Set	Kg 5.44	8.16	
<b>Light Pattern</b>			
<b>Flanged Model</b>			
	<b>52</b>		
Diameter of Glass Tube	Ins ¾"		
Diameter of Flange	Ins 4 ½"		
Approx. Weight per Set	Kg 5.44		



**Material: BS 1400-L62C.**

For steam working pressures up to 250lbs/in<sup>2</sup> (17.2bar) and temperatures up to 500°F(260°C). These gauges are fitted with sleeves which can be adjusted by means of packing nuts as water necessitates and provide easy and efficient maintenance. An automatic shut-off ball valve in the water arm to prevent the escape of water is available on request. An automatic shut off valve in the steam arm is also available, if required. Steam and water arms can be handed right or left to suit installation and drilled to appropriate standards.

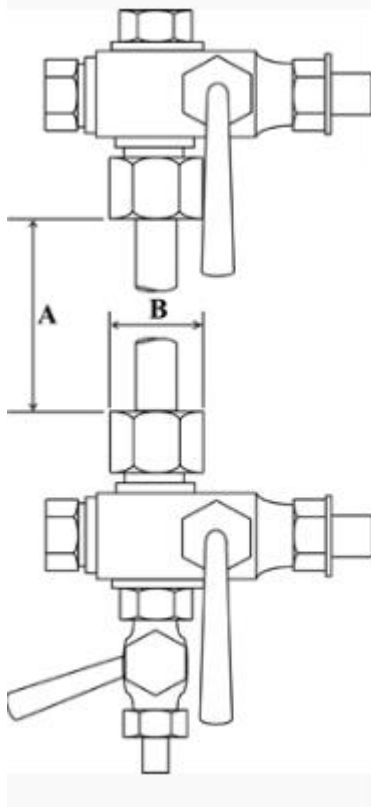
Fig. No.	Metric Dimensions				Flanged gauges		
	20	22	30	32	41	44	52
A	68	95	55	67	83	97	82
B	26	30	30	26	—	—	—
C	59	59	50	59	62	62	62
D					115	115	115
E	(Flange dimensions are before machining)				13	13	13
F					19	25	19
G					16	16	16

Dimensions are given to the nearest millimetre



### **3-Glass Protector**

Illustration shows our standard 3-Glass Protector fitted with optional pointers and a chevron backing plate.



### **Protector sizing.**

When required for gauges of our manufacture it is necessary only to give the distance between the centres at which the gauges are fitted.

We can manufacture protectors to suit other makes of gauges. We need to know two dimensions:

(A): The distance between the glass nuts when the gauges are fitted.

(B): The size across the corners of the glass nuts. (Note that for this dimension, it is the distance across the corners of the nut and not across the flats that we require)



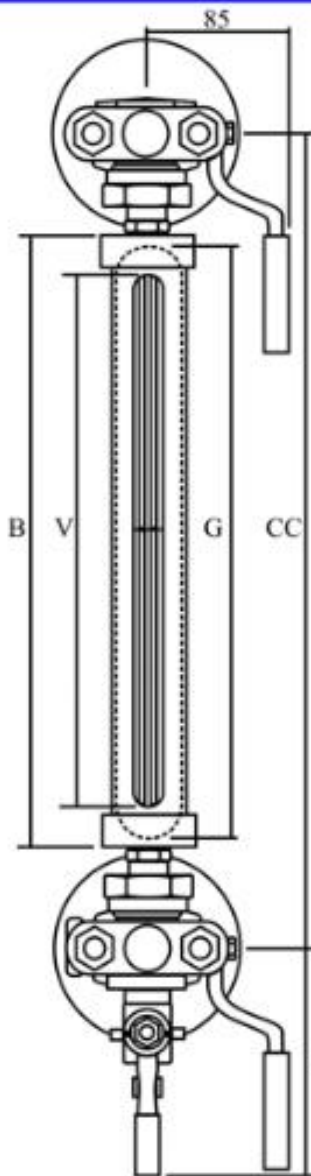
## REFLEX GAUGES/COCKS

Maximum operating conditions, Pressure 32 Bar Temp 236°C  
Designed for Water / Steam

Recommended SWP Pressure 20 Bar  
Rating PN 40 Bar

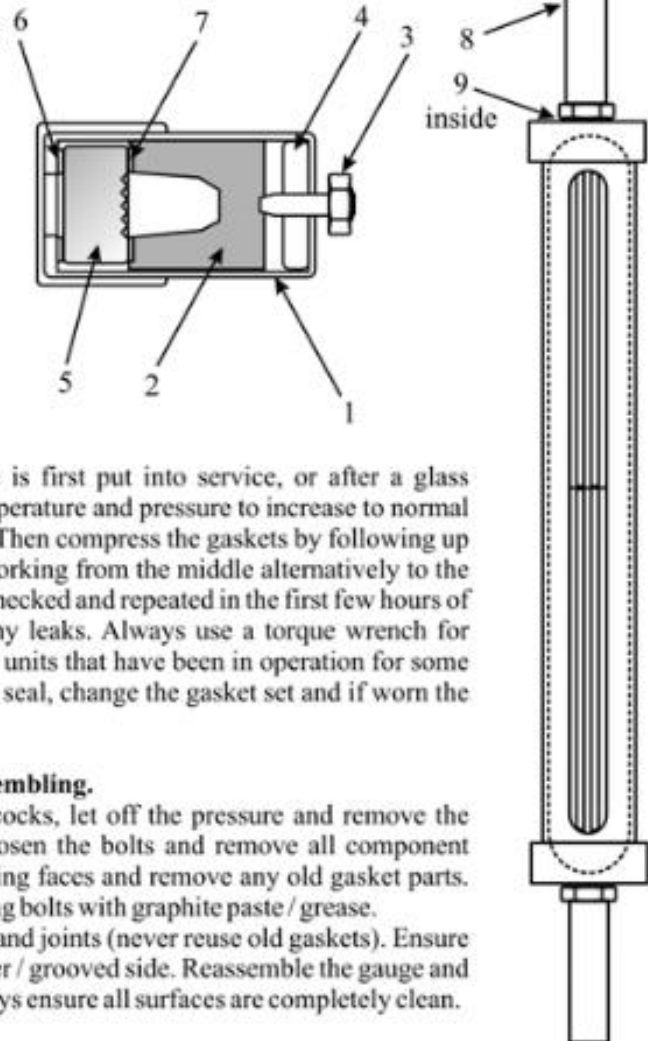
Main body :- Forged Carbon Steel, spindles 316 Stainless Steel  
Sleeves Graphoil with St/Steel Eyelets

SIZE	C TO C	LENGTH OF BODY	VISIBLE LENGTH	LENGTH OF GLASS	WEIGHT
	CC min	B	V	G	Kg
3	285	178	143	165	9.2
4	310	203	168	190	9.6
5	340	233	198	220	10.0
6	370	263	228	250	10.5
7	400	293	258	280	11.0
8	440	333	298	320	11.5
9	460	353	318	340	11.9



### Reflex gauge body parts

1. Gauge Body
2. Centre Section
3. Bolt
4. Bolt plate
5. Reflex glass
6. Cushion Gasket
7. Sealing Gaskets
8. End tube
9. End tube washer



### Maintenance.

After the level gauge is first put into service, or after a glass change, allow the temperature and pressure to increase to normal operating conditions. Then compress the gaskets by following up the tightening bolts working from the middle alternatively to the ends. This should be checked and repeated in the first few hours of operation, to avoid any leaks. Always use a torque wrench for securing the bolts. On units that have been in operation for some time and they will not seal, change the gasket set and if worn the glass.

### Dismantling / Reassembling.

- 1) Shut off the cocks, let off the pressure and remove the level gauge body. Loosen the bolts and remove all component pieces. Clean the sealing faces and remove any old gasket parts. Lubricate the tightening bolts with graphite paste / grease.
- 2) Fit new glass and joints (never reuse old gaskets). Ensure sealing joint is on water / grooved side. Reassemble the gauge and tighten the bolts. Always ensure all surfaces are completely clean.

### Disclaimer

Please note, failure to select the correct materials or products we supply ("the Products") may result in damage to plant, equipment or property. In some instances, it may cause death or personal injury. We are not designers and do not give advice about design related matters concerning the Products. We can help and assist with the technical specifications for the Products. In specific applications, particularly where critical conditions exist, we will try to assist you within the limitations of the services that we offer. All information supplied by us is intended as technical co-operation outlining the specifications of the different Products which we supply. To the extent permitted in law, no warranty is given in respect of any information supplied by us. The customer must satisfy themselves as to the suitability of the Products for their intended application and use. The correct fitting of Products is the responsibility of the customer. Your statutory rights remain unaffected. Save in respect of death, personal injury or fraud, our entire liability to you, however arising from the supply of Products shall be limited to the £10M indemnity amount provided by our insurers.