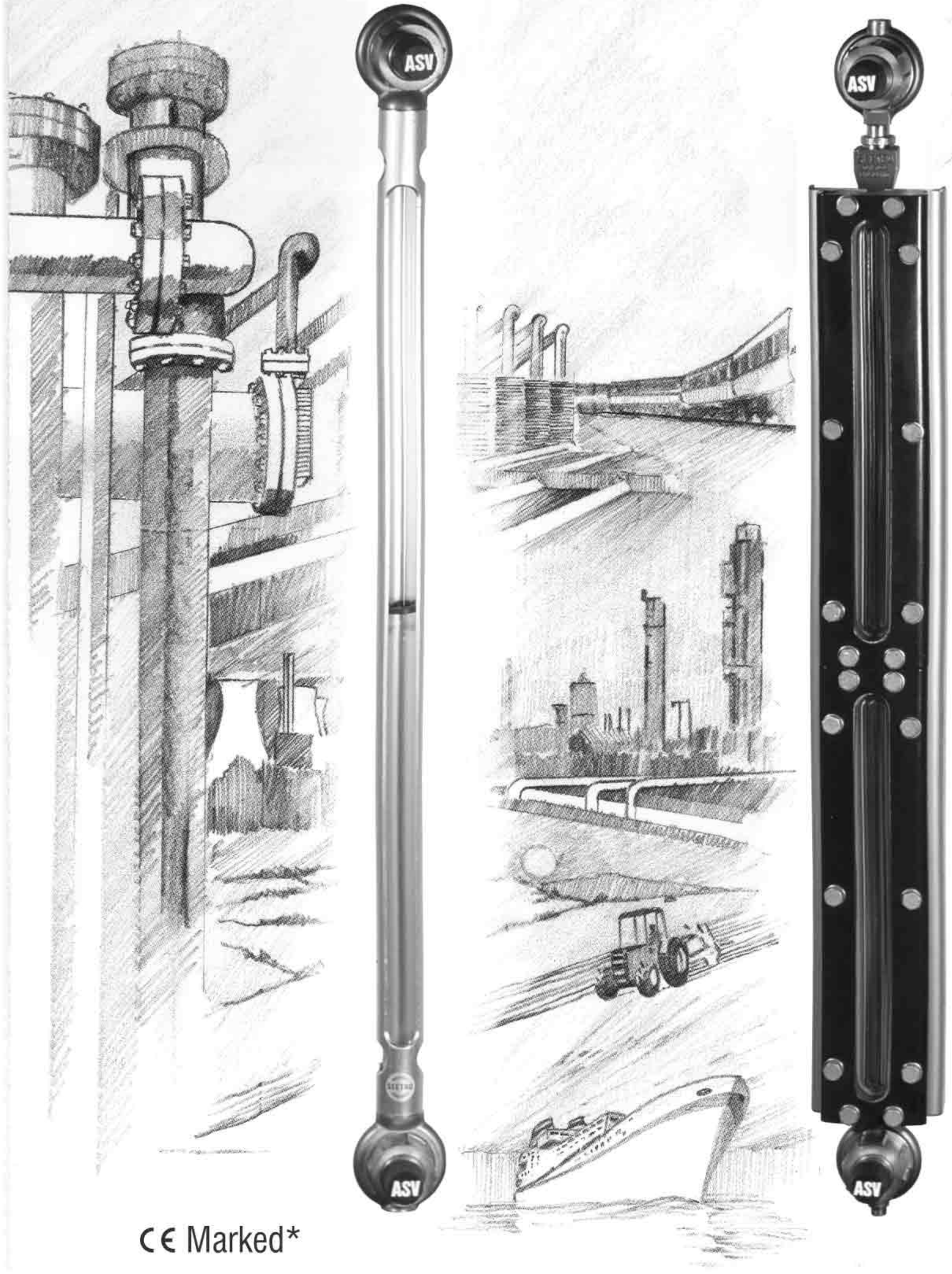
SEETRU

LIQUID LEVEL GAUGES
QUICKMOUNT RANGE



CE Marked*

For fuels, oils, water and chemicals

Universally used and proven for applications where accuracy and reliability are essential requirements.

SEETRU LIMITED

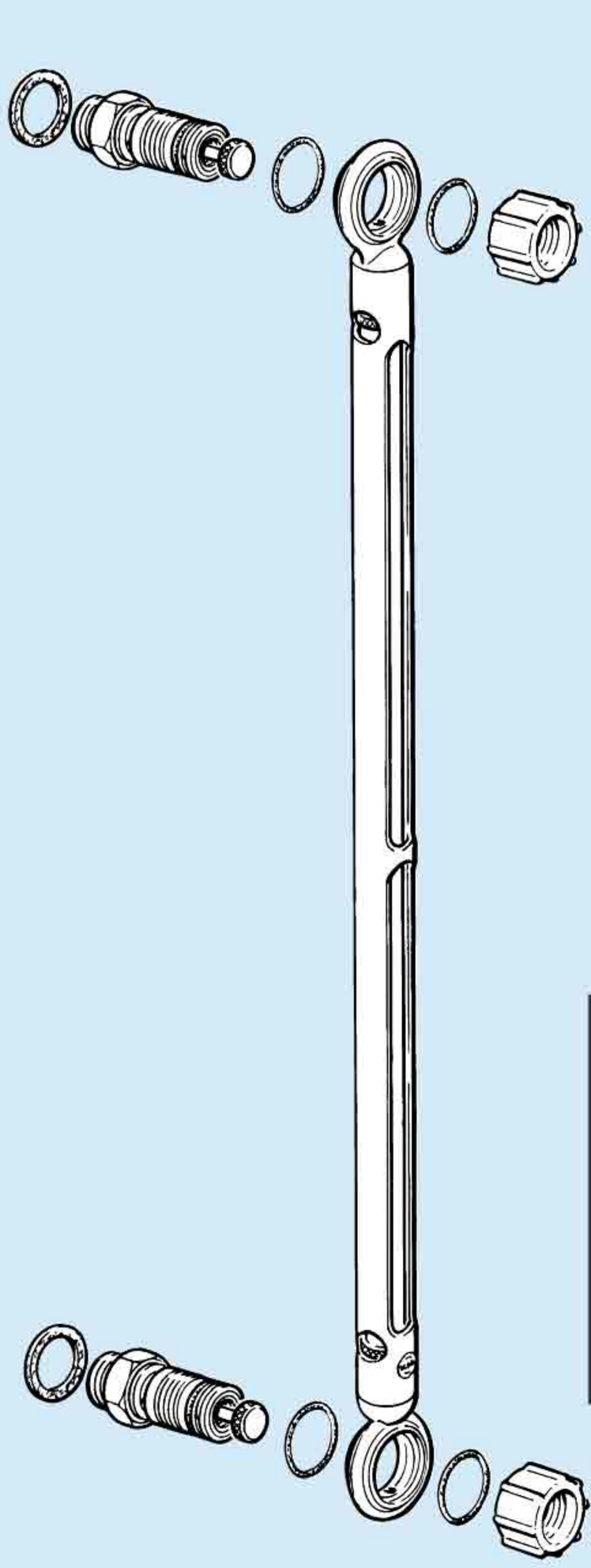


Illustration of single section gauge up to 1m high

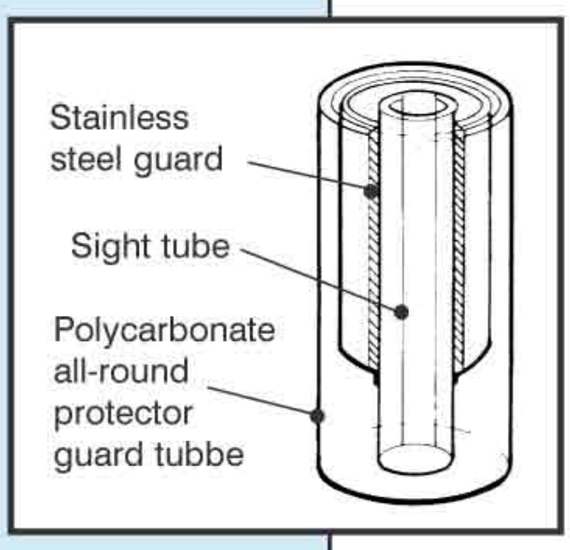
Seetru Q

Accurate and reliable.

- **EASE OF INSTALLATION & MAINTENANCE**
  The QUICKMOUNT gauge can be installed without the use of special tools. Threaded end units are screwed into female tank bosses. The gauge collars slip over these units and are secured by hand tightening the retaining nuts. 'O' ring sealing is used throughout.

- **SYSTEM ACCURACY**
  The QUICKMOUNT range of liquid level gauges provide direct viewing of the actual tank contents at a level corresponding to that in the tank.

MODEL G22 WIT



DOUBLE SKIN GUARD

For additional protection and to prevent spillage in the event of a glass breakage the column assembly (glass tube & guard tube) are completely housed in an additional outer clear polycarbonate tube.

Recommended for use with media at higher temperatures and pressures or with media of a hazardous nature.

- **EASY OF VIEWING**
  A narrow coloured marker strip is etched onto the rear of the sight tube. As light is refracted through the liquid in the sight tube the coloured strip appears to be full width thus readily indicating the exact level in the tank.

- **SIGHT TUBE MATERIALS**
  Annealed Borosilicate Glass
  Thermally shock-proof glass suitable for most applications (see graph for pressure and temperature information).
  Available in single lengths up to 1000mm beyond which a glanded joint is provided. As the operating temperature and pressure increase it is necessary to reduce section lengths.

  Polycarbonate Plastic
  High impact resistance and toughness make this material virtually unbreakable. Used as an alternative to glass where single lengths of tube up to 4000mm are required. This tubing does have a limited temperature and pressure range (see graph for information).

- **SIGHT TUBE GLANDS**
  The purpose designed double 'O' ring glanding system provides excellent sealing between the viewing column and the end units.

- **GAUGE LENGTH ADJUSTMENT**
  The gland system will allow for 3mm adjustment on the length of each tubular sight tube section.

- **TANK BOSSES**
  Welded and non-welded tank bosses are available as optional extras.

- **INTERMEDIATE SUPPORT**
  Tubular model gauges will be supplied with intermediate support brackets for securing to the tank face at not greater than 1000mm intervals.

- **PRESSURE EQUIPMENT DIRECTIVE**
  *Compliant with the requirements of the European Pressure Equipment Directive 97/23/EC & CE Marked from 30th May 2002.

MATERIAL SPECIFICATIONS

'BRASS' (COPPER ALLOYS) CONSTRUCTION:
END COLLAR: ALUMINIUM BRONZE BS2872 CA104
MAIN BODY: BRONZE (GUN METAL) BS1400 LG2
SPINDLE: BRASS BS2874 CZ121
GLAND NUT: BRASS BS2874 CZ121

STAINLESS STEEL CONSTRUCTION:
END COLLAR: BS3100 316C16F
MAIN BODY, SPINDLE & GLAND NUT: BS970 316S31

SIGHT TUBE:
BOROSILICATE GLASS BS3463 OR
POLYCARBONATE

GUARD TUBE:
ANODISED ALUMINIUM: BS1474 6063 OR
BRASS: BS2871 CZ121 OR
STAINLESS STEEL: BS6323/4 304C12 OR
ZINC PLATED MILD STEEL: BS6323/4 CDS2

POLYPROPYLENE CONSTRUCTION
END COLLAR, MAIN BODY, SPINDLE AND GLAND NUTS
(ALL WETTED PARTS) IN POLYPROPYLENE

INTERMEDIATE SUPPORT & PACKING PAD
INTERMEDIATE SUPPORT BRACKET: STAINLESS STEEL BS3100 316C16F OR
ALUMINIUM BRONZE BS2872 CA104 OR
POLYPROPYLENE
PACKING PAD: STAINLESS STEEL BS970 316S31 OR
MILD STEEL BS970 230M07 OR
POLYPROPYLENE

uickmount Liquid Level

Easily maintained. Robust and safe. Available with Tubular or R

- **ELECTRONIC & DIGITAL READOUT**
  Remote reading system and/or computer interface options provide a dual system with the advantages of both electronic and sight glass systems. Level alarms can also be implemented.

- **CLOSED CIRCUIT DESIGN**
  Used for pressurised applications or those where the liquid level may rise above the top connection. The QUICKMOUNT closed circuit design incorporates top and bottom valve assemblies for tank connections.

- **OPEN CIRCUIT DESIGN**
  Used for non pressurised systems and those where the liquid level does not rise above the top of the gauge. The QUICKMOUNT open circuit design incorporates a bottom valve assembly for tank connection with the top of the sight glass being open to atmosphere.

- **GAUGE LENGTHS**
  Lengths can be 'TAILOR MADE' to suit any tank size.

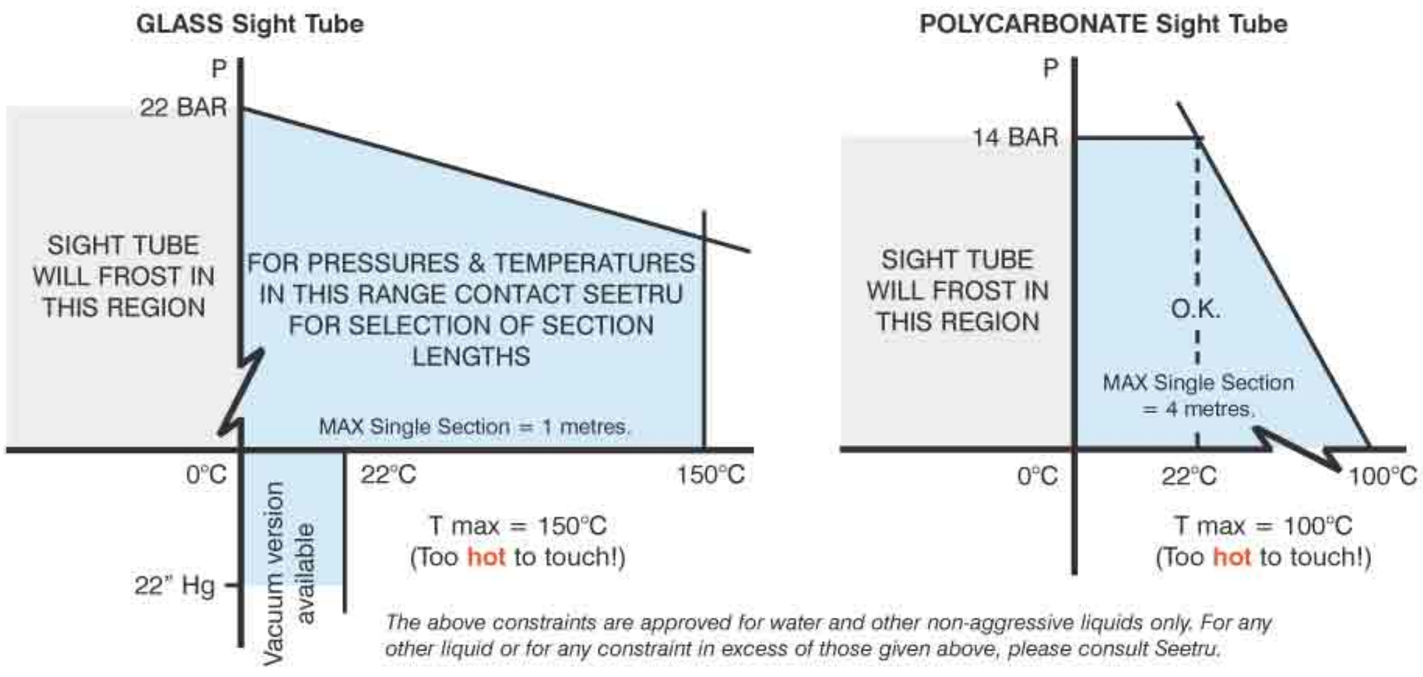
- **SCALEPLATES**
  Standard scaleplates marked each mm and figured every cm can be provided on request. Special calibrated scaleplates to customer specification are available.

- **T**
  S
  G
  p
  fl
  b

- **D**
  A
  c
  t

TH **TUBULAR** SIGHT GLASS

LENGTH, TEMPERATURE AND PRESSURE CONSTRAINTS
QUICKMOUNT WITH TUBULAR SIGHT TUBE



The above constraints are approved for water and other non-aggressive liquids only. For any other liquid or for any constraint in excess of those given above, please consult Seetru.

- *A hazard/risk analysis should be carried out where the gauge is being considered for use with a medium which, due to temperature, pressure or hazardous nature, could cause injury. Contact Seetru for advice.*
- *The higher temperatures and pressures are achieved by introducing additional intermediate joints and supports, contact Seetru for information on pressures up to 22 bar g. and temperatures up to 150°C and above.*
- *For vacuum conditions greater than 22"Hg a special design is available.*
- *The normal automatic safety shut-off valves will not prevent the loss of vacuum in the event of accidental sight tube breakage, however, a special design is available if this feature required.*
- *Standard seals are Nitrile (max temp 110°C) or Viton® (max temp 150°C), other seal materials are available for special applications.*

MODEL G32 WITH

- **ROBUST CONSTRUCTION**

- **STANDARD MANUFACTURED LENGTHS**
  Standard lengths, between centres, of 360mm to 5060mm (see table). Adjustment of ± 5mm on standard lengths is provided at the upper connection. Alternative lengths may be supplied.

- **AUTOMATIC SAFETY SHUT-OFF VALVES ARE SUPPLIED AS STANDARD**

- **EASE OF VIEWING**
  When viewed through the reflex glass window all liquids, including colourless ones, are indicated as black on the normally silver coloured background.

- **TANK BOSSES**
  Welded and non-welded tank bosses are available as optional extras.

- **COLUMN SUPPORT**
  Reflex model gauges having a length greater than 1150mm will be supplied with column support brackets. For lengths greater than 3105mm, the column will be in sections and joining butt joints will be provided.

- **PRESSURE EQUIPMENT DIRECTIVE**
  *Compliant with the requirements of the European Pressure Equipment Directive 97/23/EC and CE Marked from 30th May 2002.

HOW TO ORDER

TO ORDER, PLEASE SPECIFY:

- Tubular or Reflex type
- Gauge length (centre to centre for closed circuit or centre to top for open circuit)
- Type of valve units, end assemblies
- Materials of construction for: end assemblies, column assembly, sight tube, guard tube, intermediate support bracket and packing pads
- Operating temperature and pressure
- Identify liquids to be gauged
- Options, e.g. double skin guard tube, drain valve, tank bosses, electronic level sensor/alarms, digital readout, scaleplate

Gauges

eflex sight glass.

TANK CONNECTIONS
Standard connection sizes are G½ & G¾ (½" and ¾" BSP parallel.) Alternative threads, flanges and tank bosses can be provided.

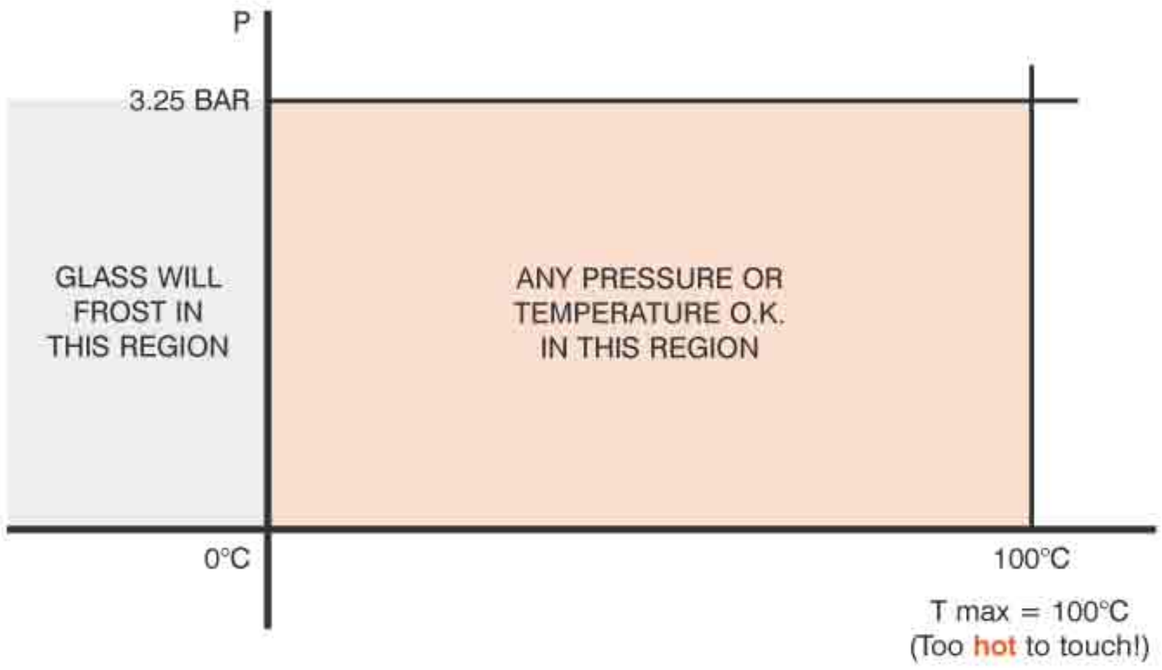
DRAIN VALVE
Available on request. The drain valve is incorporated in the bottom collar assembly.

- **AUTOMATIC SAFETY SHUT-OFF VALVE**
  Operated by abnormal flow of liquid. These valves will minimise loss of tank contents if the gauge is accidentally damaged. Only available with G¾ (¾" BSP) connections.

H **REFLEX** SIGHT GLASS

LENGTH, TEMPERATURE & PRESSURE CONSTRAINTS
QUICKMOUNT WITH REFLEX SIGHT GLASS

REFLEX Glass Maximium length = 9 metres.



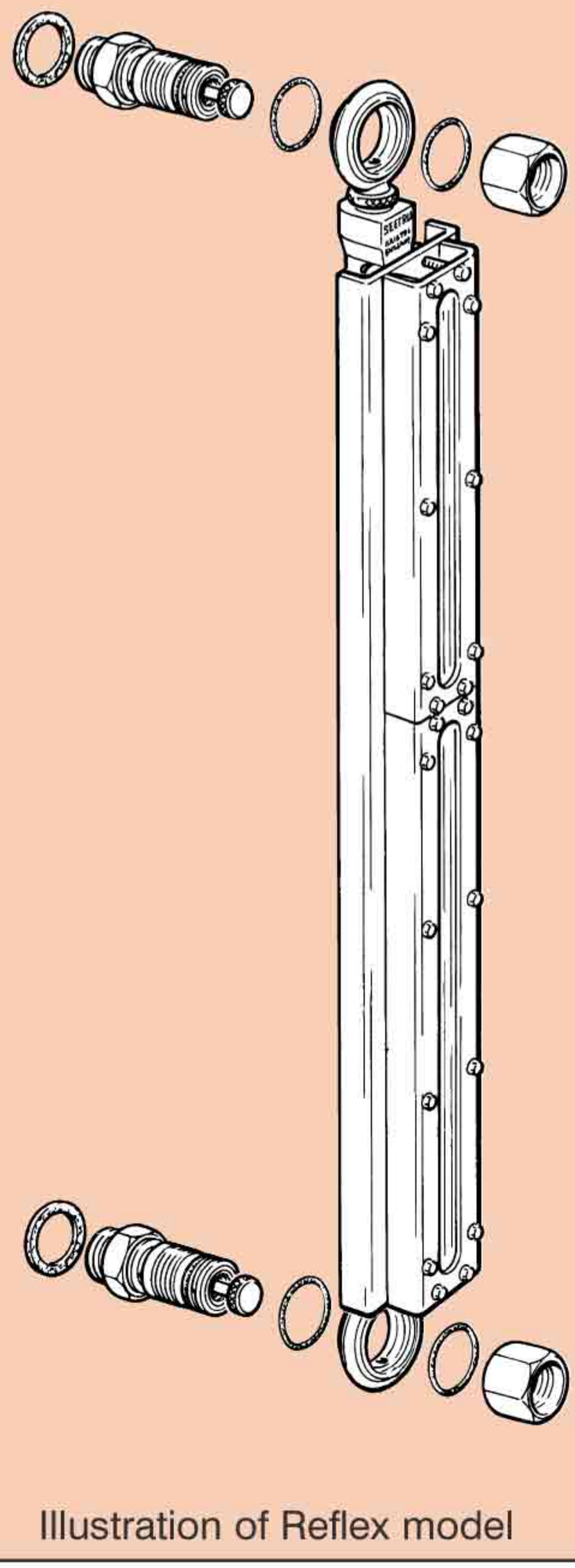


Illustration of Reflex model

TABLE OF STANDARD LENGTHS

Closed Circuit Design (dimensions in millimetres)
Length between centres of top and bottom valves.

	mm		mm		mm		mm
1	360	16	1780	31	3105	46	4435
2	450	17	1870	32	3200	47	4525
3	620	18	1950	33	3290	48	4615
4	710	19	2040	34	3370	49	4710
5	800	20	2130	35	3460	50	4790
6	885	21	2220	36	3550	51	4880
7	975	22	2305	37	3640	52	4970
8	1070	23	2395	38	3725	53	5060
9	1160	24	2490	39	3815		
10	1240	25	2580	40	3910		
11	1330	26	2660	41	4000		
12	1420	27	2750	42	4080		
13	1515	28	2840	43	4170		
14	1595	29	2930	44	4260		
15	1685	30	3015	45	4350		

Additional sizes are available utilising extension pieces.

MATERIAL SPECIFICATIONS

'BRASS' (COPPER ALLOYS) CONSTRUCTION:
END COLLAR: STAINLESS STEEL BS3100 304C15
MAIN BODY: BRONZE (GUN METAL) BS1400 LG2
SPINDLE: BRASS BS2874 CZ121
GLAND NUT: BRASS BS2874 CZ121

STAINLESS STEEL CONSTRUCTION:
END COLLAR: BS3100 304C15
MAIN BODY, SPINDLE AND GLAND NUT: BS970 316S31

COLUMN ASSEMBLY:
BACKING PLATE: STAINLESS STEEL BS1449 304S12
FRONT COVER: RUST PROTECTED MILD STEEL BS1449 CR4GP
PRE-TREATED & ETCH-PRIMED WITH POLYESTER POWDER COATING OR
STAINLESS STEEL BS1449 304S12

SIGHT GLASS:
BOROSILICATE REFLEX GLASS DIN 7080/7081 BS3463

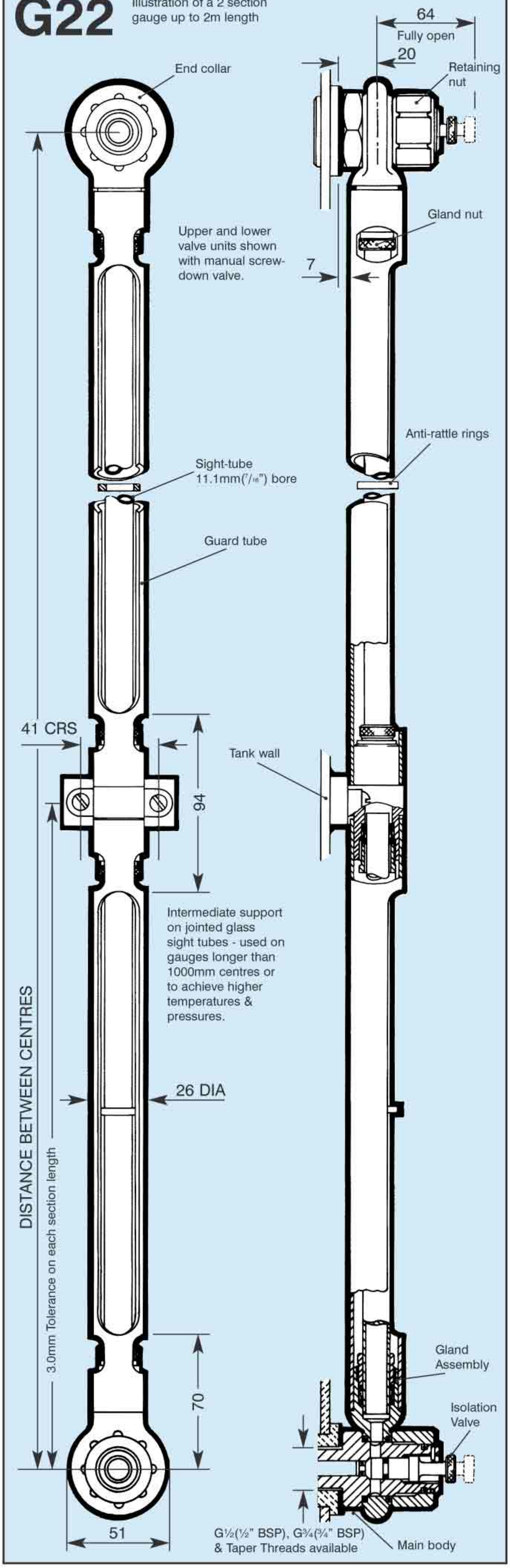
COLUMN SUPPORT & PACKING PAD
COLUMN SUPPORT BRACKET: STAINLESS STEEL BS1449 304S12
PACKING PAD: STAINLESS STEEL BS970 316S31 OR
MILD STEEL BS970 230M07

® Viton is a registered trademark of Du Pont Elastomers

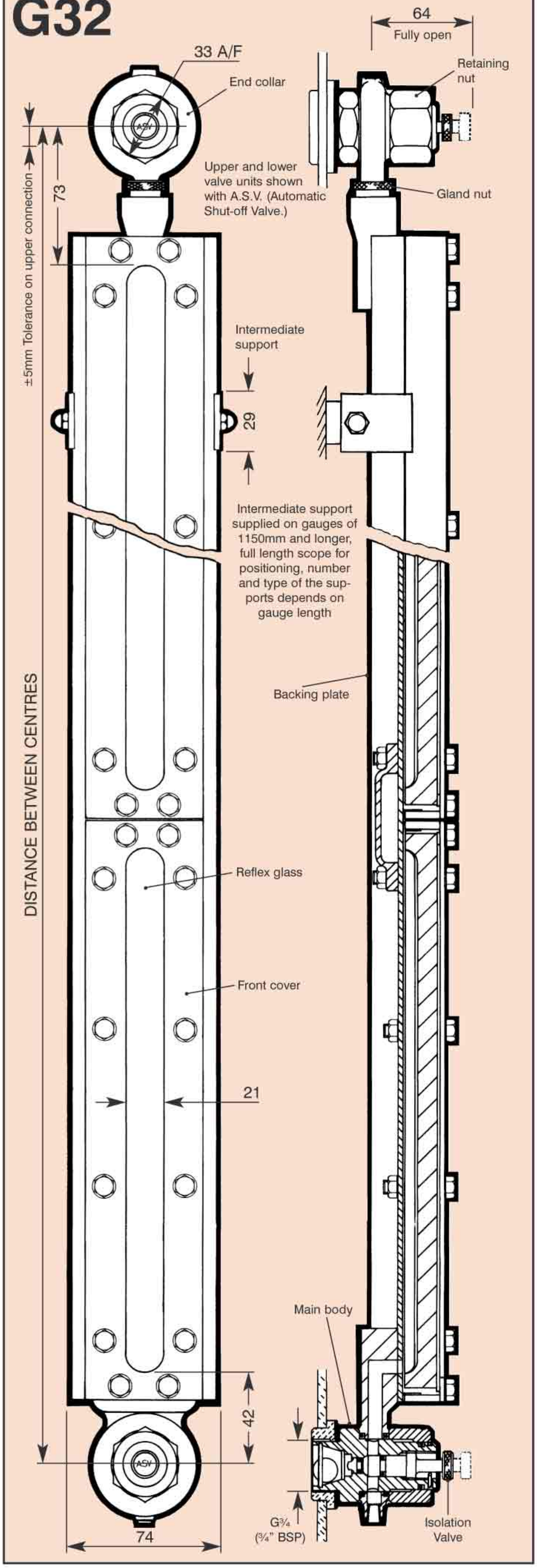
QUICKMOUNT - Standard

G22

Illustration of a 2 section gauge up to 2m length



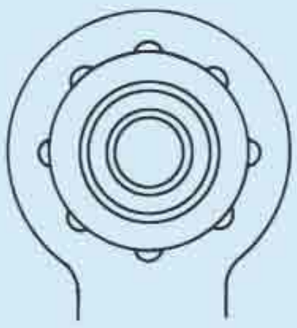
G32



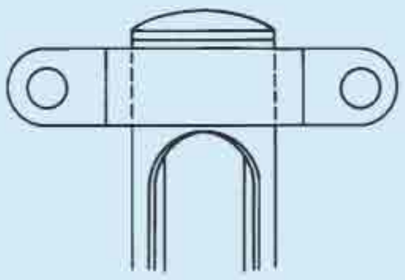
PLEASE NOTE A.S.V.'s only available with G¾ connection.

Optional End Fittings

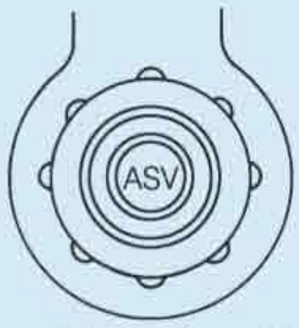
G22



Manual Screwdown Valve (top and/or bottom)

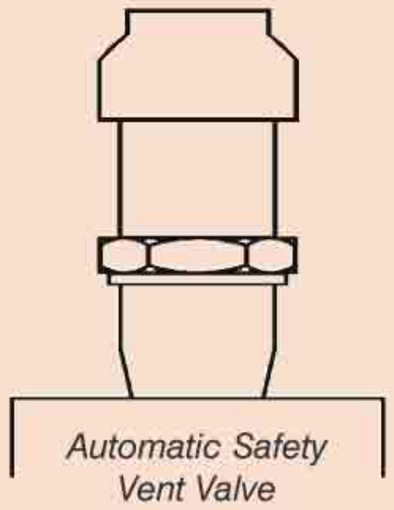


Open Circuit Atmospheric (top only)

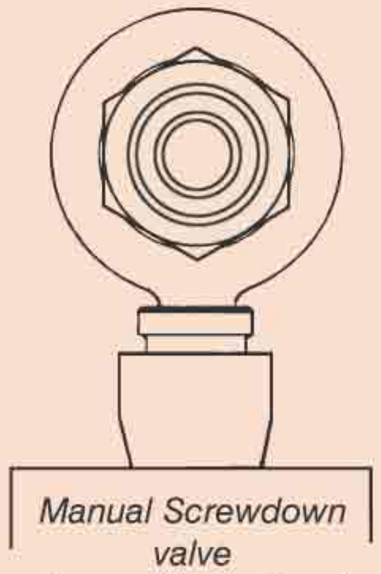


Manual Screwdown Valve + Automatic Shut-off Valve (top and/or bottom)

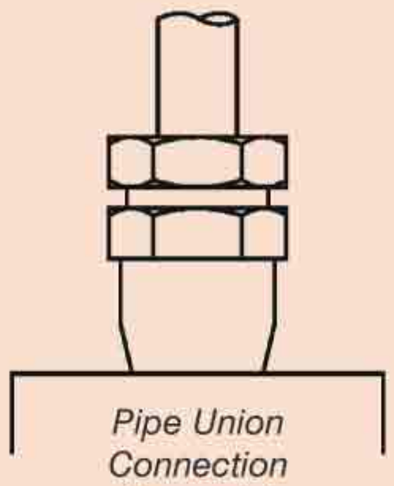
G32



Automatic Safety Vent Valve (top only)



Manual Screwdown valve (top and/or bottom)



Pipe Union Connection (top only)



Manual Screwdown Valve + Automatic Shut-off Valve as standard (top and/or bottom)

A drain or sampling valve is available and can be fitted to any QUICKMOUNT gauge if specified.

INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS AVAILABLE FROM SEETRU

NOTE - Fully open manual screwdown valves for correct reading.

Other SEETRU Products

Liquid Level Gauges

- C.P.I. for chemical and process industry.
- SEEFLEX approved for marine application.
- REFLEX for high pressures and temperatures.
- SEEBIO for food and brewing industry.
- SEETOL for food, brewing & distilling industry, wines & spirits.
- MINI small bore, valveless economy gauge.
- WINDOW SIGHT GLASSES.
- TANK CONTENTS INDICATORS.
- TRANSPARENT GAUGE for high pressures & temperatures

- SEETRU SEEMAG Unique magnetic float tank by-pass liquid level indicator. Dual electronic level indicator and level switches/alarms available. Suitable for aggressive liquids and atmospheric or pressurised tanks. Heating jacket available for highly viscous liquids.

- DIAPHRAGM VALVE. Safety relief valve for dust/powder applications utilising a diaphragm to protect the moving parts. Approved by TÜV to F/K/S specification.

Valves

- Non return/check valves.
- Minimum pressure/check valves.
- Vacuum relief valves.
- Pressure control valves

Type Tested Approved Seetru Safety Relief Valves

- Atmospheric Discharge.
- Enclosed Discharge threaded or flanged connections.
- Pressure reducing valves for steam.
- Food quality safety valves.

- SEETRU SEEMULTI Robust self energised factory filled and sealed capsule gauge with capillary line to dial gauge read out. Designed for easy on site adjustment for varying liquid density.

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Our Distributor

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EDITION C