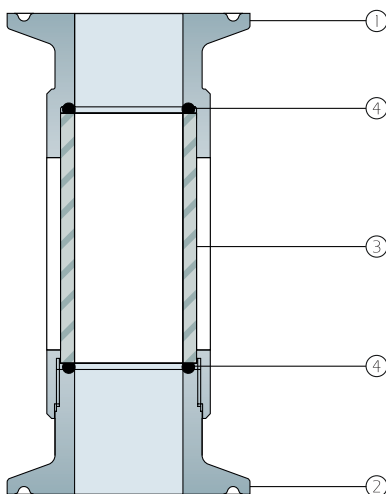




The HSG02 range of sight glasses are designed for use in high purity applications where a visible indication of flow or product presence is required. The double window design provides optimum viewing area and eliminates the need for a back light. The bore of the glass and end fittings match that of the corresponding tubing size thus eliminating the possibility of fluid retention, even when units are installed horizontally. An optional Polycarbonate knock shield is also available and this can be fitted without the need to disassemble the sight glass.

- P Pressure Rating**  
Up to 10 barg
- T Temperature Rating**  
Up to - 135°C with FDA grade EPDM seals  
150°C with USP grade EPDM seals  
200°C with Viton, Silicone or FEP-Silicone seals  
135°C when knock shield fitted
- C Connections**  
1/2" - 4" ASME BPE clamp  
DN8 - DN50 DIN and ISO clamp
- S Seal Materials**  
EPDM, Viton, Silicone or FEP-Silicone
- W Surface Finish**  
Wetted surfaces - 0.5 microns Ra  
External surfaces - 0.8 microns Ra
- ✓ Options**  
Polycarbonate knock shield  
Enhanced surface finishes and electropolishing  
Low sulphur stainless steel, C22 and other alloys  
Bolted design - HSG03 and HSG04
- C Available Certification**
  - CofC** Certificate of Conformity
  - MTR's** Material Certification
  - FDA** FDA Elastomer compliance certificates
  - USP** USP Elastomer compliance certificates
  - ADI** Certified 'Animal Derived Ingredient' free



Part	Description	
1	Body	316L stainless steel
2	End fitting	316L stainless steel
3	Glass	Borosilicate
4	Seal	EPDM, Viton, Silicone or FEP-Silicone
5	Knock shield	Polycarbonate
6	Support ring	316L stainless steel

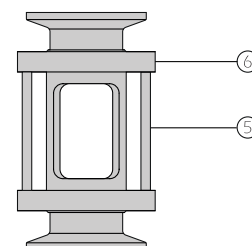
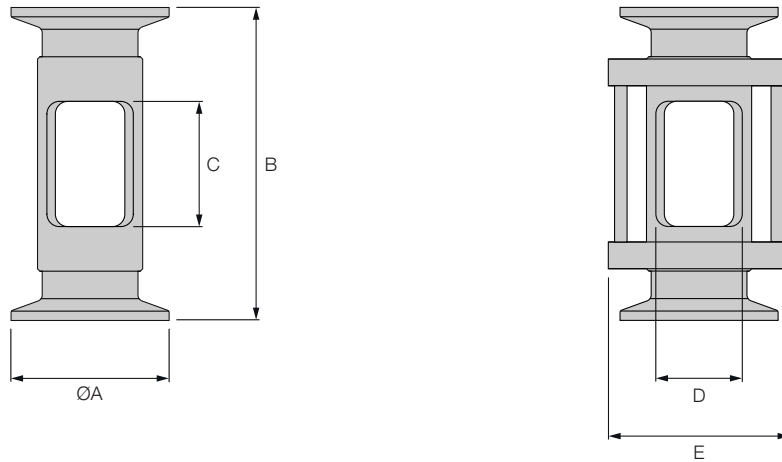


Illustration showing knock shield fitted

### HSG02



	Size ASME BPE	Dimensions (mm)					Weight (kg)
		ØA	B	C	D*	E**	
	1/2"	25	90	40	120°	34	0.1
	3/4"	25	90	40	120°	34	0.1
	1"	50.5	100	40	120°	64	0.3
	1-1/2"	50.5	100	40	120°	64	0.4
	2"	64	100	40	120°	84	0.6
	2-1/2"	77.5	100	40	120°	100	0.8
	3"	91	100	40	120°	109	1.0
	4"	119	100	40	120°	150	1.3

\* Sight glasses have 2 windows at 180° separation

\*\* Dimension E only applies when knock shield is fitted



#### Packaging

Individually capped, bagged and boxed



#### Service Parts

Seal kit comprising part 4 (2 off per set), glass part 2 and knock shield lens part 5



#### Specification

See product selector sheet for specification and ordering detail

# Staitech

Staitech Ltd · PO Box 152 · Stroud  
Glos · GL6 8YT · UK

Tel: +44 (0) 1543 882736 · Fax: +44 (0) 1543 882744

E-mail: sales@staitech.com · Web: www.staitech.com

Specifications subject to change without notice. HSG02-TB - 03/17



- Full bore design
- Maximum operating pressure - 10 barg
- Maximum operating temperature -  
Up to: 135°C with FDA EPDM seals  
150°C USP EPDM seals  
200°C with Viton, Silicone or FEP-Silicone seals  
135°C with knock shield fitted
- 1/2" - 4" ASME BPE clamp connections
- DIN and ISO clamp connections
- Also available with knock shield

### ASME BPE part number ordering key

Product	Size	Connection	Seals	Options
Without knock shield HSG02	1/2" ASME BPE 050 3/4" ASME BPE 075	Clamp C	FDA compliant EPDM- black EBK	Electropolishing EP
With knock shield HSG02KS	1" ASME BPE 100 1-1/2" ASME BPE 150 2" ASME BPE 200 2-1/2" ASME BPE 250 3" ASME BPE 300 4" ASME BPE 400		Viton - black VBK Silicone - red SR FDA & USP Class VI compliant EPDM - black EBKU Viton - black VBKU Silicone - white SW FEP-Silicone FEPS	

### Example

<b>HSG02</b>	-	<b>050C</b>	-	<b>EBKU</b>	-	<b>EP</b>
--------------	---	-------------	---	-------------	---	-----------

### Specification text

Staitech HSG02 sight glass manufactured in 316L stainless steel with Borosilicate glass and EPDM FDA and USP Class VI compliant seals. 1/2" ASME BPE clamp connections. Wetted surfaces finished to 0.5 microns Ra. External surfaces finished to 0.8 microns Ra. (HSG02-050C-EBKU). For electropolished finish add suffix 'EP' (HSG02-050C-EBKU-EP).

Staitech HSG02 sight glass manufactured in 316L stainless steel with Borosilicate glass and EPDM FDA and USP Class VI compliant seals. Fitted with Polycarbonate knock shield. 1/2" ASME BPE clamp connections. Wetted surfaces finished to 0.5 microns Ra. External surfaces finished to 0.8 microns Ra. (HSG02KS-050C-EBKU). For electropolished finish add suffix 'EP' (HSG02KS-050C-EBKU-EP).

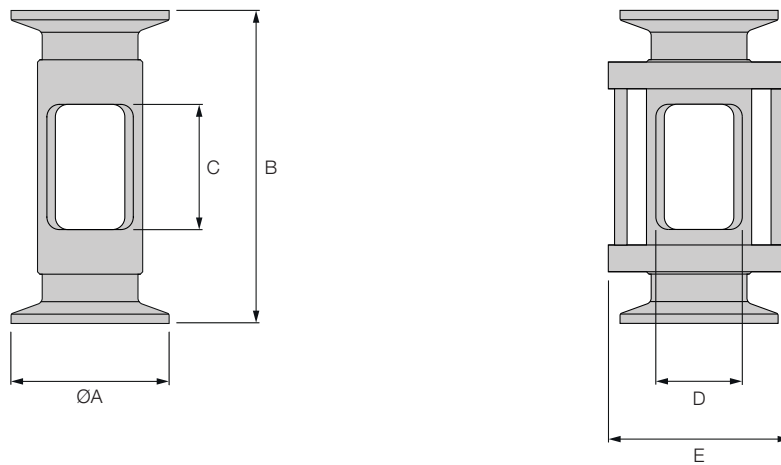
### Customer reference number:



Tag number	Part number	Quantity



### Available certification (tick as required)

<input type="checkbox"/>	<b>CofC</b> Certificate of conformity	<input type="checkbox"/>	<b>USP</b> USP elastomer compliance certificates
<input type="checkbox"/>	<b>MTR's</b> Materials certification	<input type="checkbox"/>	<b>ADI</b> Certified 'Animal Derived Ingredient' free
<input type="checkbox"/>	<b>FDA</b> FDA elastomer compliance certificates		

### HSG02



	Size	Dimensions (mm)					Weight (kg)
	DIN	ØA	B	C	D*	E**	
	DN8	34	90	40	120°	34	0.1
		25	90	40	120°	34	0.1
	DN10	34	90	40	120°	34	0.1
		25	90	40	120°	34	0.1
	DN15	34	90	40	120°	34	0.1
		25	90	40	120°	34	0.1
	DN20	34	90	40	120°	64	0.1
		25	90	40	120°	64	0.1
	DN25	50.5	100	40	120°	64	0.3
		50.5	100	40	120°	64	0.4
	DN40	50.5	100	40	120°	64	0.6
		64	100	40	120°	84	0.6

	Size	Dimensions (mm)					Weight (kg)
	ISO	ØA	B	C	D*	E**	
	DN8	25	90	40	120°	34	0.1
		25	90	40	120°	34	0.1
	DN15	34	90	40	120°	34	0.1
		50.5	90	40	120°	64	0.2
	DN20	50.5	100	40	120°	64	0.3
		50.5	100	40	120°	64	0.3
	DN32	64	100	40	120°	84	0.4
		64	100	40	120°	84	0.4

\* Sight glasses have 2 windows at 180° separation

\*\* Dimension E only applies when knock shield is fitted

DIN part number ordering key								
Product		Connection		Size		Seals		Options
Without knock shield		Clamp	C					
HSG02				DIN DN8	34.0 - 8.0	FDA compliant		Electropolishing EP
With knock shield						EPDM - black	EBK	
HSG02KS				DIN DN10	34.0 - 10.0	Viton - black	VBK	
						Silicone - red	SR	
				DIN DN15	34.0 - 15.0	FDA & USP Class VI compliant		
						EPDM - black	EBKU	
				DIN DN20	34.0 - 16.0	Viton - black	VBKU	
						Silicone - white	SW	
				DIN DN25	50.5 - 25.0	FEP-Silicone	FEPS	
				DIN DN32	50.5 - 32.0			
				DIN DN40	50.5 - 38.0			
				DIN DN50	64.0 - 50.0			
ISO part number ordering key								
Without knock shield		Clamp	C					
HSG02				ISO DN8	25.0 - 10.3	FDA compliant		Electropolishing EP
With knock shield						EPDM - black	EBK	
HSG02KS				ISO DN10	25.0 - 14.0	Viton - black	VBK	
						Silicone - red	SR	
				ISO DN15	34.0 - 18.1	FDA & USP Class VI compliant		
						EPDM - black	EBKU	
				ISO DN20	50.5 - 23.7	Viton - black	VBKU	
						Silicone - white	SW	
				ISO DN25	50.5 - 29.7	FEP-Silicone	FEPS	
				ISO DN32	64.0 - 38.4			
				ISO DN40	64.0 - 44.3			
Example								
<b>HSG02</b>	-	<b>C</b>	-	<b>34.0 - 8.0</b>	-	<b>EBKU</b>	-	<b>EP</b>
Specification text								
<p>Staitech HSG02 sight glass manufactured in 316L stainless steel with Borosilicate glass and EPDM FDA and USP Class VI compliant seals. DIN DN8 34mm clamp connections. Wetted surfaces finished to 0.5 microns Ra. External surfaces finished to 0.8 microns Ra. (HSG02-C-34.0-8.0-EBKU). For electropolished finish add suffix 'EP' (HSG02-C-34.0-8.0-EBKU-EP).</p> <p>Staitech HSG02 sight glass manufactured in 316L stainless steel with Borosilicate glass and EPDM FDA and USP Class VI compliant seals. Fitted with Polycarbonate knock shield. DIN DN8 34mm clamp connections. Wetted surfaces finished to 0.5 microns Ra. External surfaces finished to 0.8 microns Ra. (HSG02KS-C-34.0-8.0-EBKU). For electropolished finish add suffix 'EP' (HSG02KS-C-34.0-8.0-EBKU-EP).</p>								
Customer reference number:								
Tag number		Part number				Quantity		
Available certification (tick as required)								
<input type="checkbox"/> <b>CofC</b> Certificate of conformity			<input type="checkbox"/> <b>USP</b> USP elastomer compliance certificates					
<input type="checkbox"/> <b>MTR's</b> Materials certification			<input type="checkbox"/> <b>ADI</b> Certified 'Animal Derived Ingredient' free					
<input type="checkbox"/> <b>FDA</b> FDA elastomer compliance certificates								