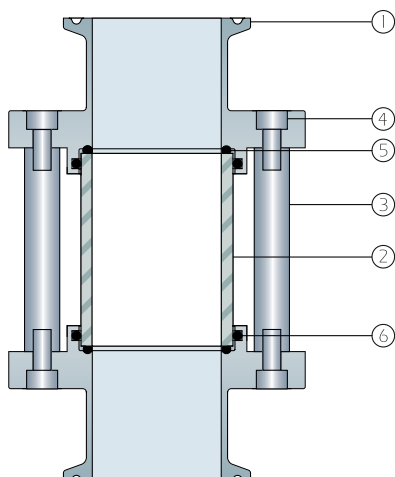




The HSG04 range of sight glasses are designed for use in high purity applications where an unobstructed view of flow or product presence is required. The bore of the glass and end fittings match that of the corresponding tubing size thus eliminating the possibility of fluid retention, even when units are installed horizontally. An optional polycarbonate knock shield is also available for all sizes.



- 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
1/2" - 4" ASME BPE weld end
DN8 - DN50 DIN and ISO clamp or weld end
- S Seal Material**
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
- 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	End fitting 316L stainless steel
2	Glass Borosilicate
3	Stud 316L stainless steel
4	Screw Stainless steel
5	Seal EPDM, Viton, Silicone or PTFE-Silicone
6	Cushioning split ring EPDM
7	Knock shield Polycarbonate
8	Support ring 316L stainless steel

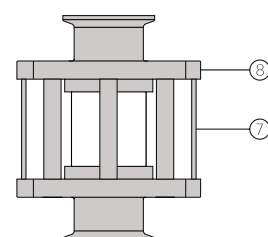
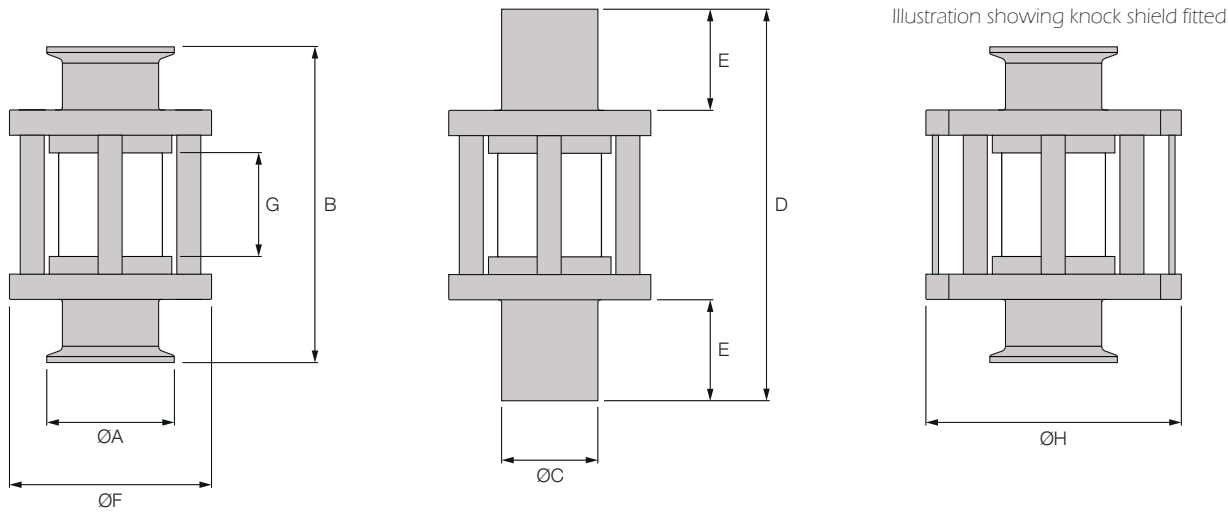


Illustration showing knock shield fitted

HSG04



	Size ASME	Dimensions (mm)							
		1/2"	3/4"	1"	1-1/2"	2"	2-1/2"	3"	4"
	ØA	25	25	50.5	50.5	64	77.5	91	119
	B	115	115	125	125	125	125	125	125
	ØC	12.7	19.05	25.4	38.1	50.8	63.5	76.2	101.6
	D	113	113	125	125	125	125	125	125
	E	28	28	25	25	25	23	23	23
	ØF	50	50	79	79	100	120	134	163
	G	40	40	40	40	40	40	40	40
	ØH	64	64	94	94	114	134	154	204
	Weight (kg)	0.8	0.8	2.1	2.5	3.0	3.5	4.0	4.8

For DIN and ISO dimensions see sheet 4



Packaging

Individually capped, bagged and boxed



Service Parts

Seal kit comprising parts 5 and 6 (2 off per set), glass part 2 and knock shield lens part 7



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. HSG04-TB - 01/15



- Maximum operating pressure - 10 barg
- Maximum operating temperature -
135°C with FDA grade EPDM seals
150°C with USP grade EPDM seal
200°C with Viton, Silicone or FEP-Silicone seals
135°C when knock shield fitted
- 1/2" - 4" ASME BPE clamp or weld end connections
- DIN and ISO sizes
- Borosilicate glass viewing window

ASME BPE part number ordering key

Product	Size	Connection	Seal
	-	-	
Without Knock shield	1/2" ASME BPE	050	Clamp C
HSG04	3/4" ASME BPE	075	Weld W
With Knock shield	1" ASME BPE	100	
HSG04KS	1-1/2" ASME BPE	150	
	2" ASME BPE	200	
			FDA compliant
			EPDM - black EBK
			Viton - black VBK
			Silicone - red SR
			FDA & USP Class VI compliant
			EPDM - black EBKU
			Viton - black VBKU
			Silicone - white SW
			FEP-Silicone FEPS

Example

HSG04	-	050C	-	EBKU
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Specification text

Staitech HSG04 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 (HSG04-050C-EBKU). For electropolished finish add suffix 'EP' (HSG04-050C-EBKU-EP).

Staitech HSG04KS 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 (HSG04KS-050C-EBKU). For electropolished finish add suffix 'EP' (HSG04KS-050C-EBKU-EP).

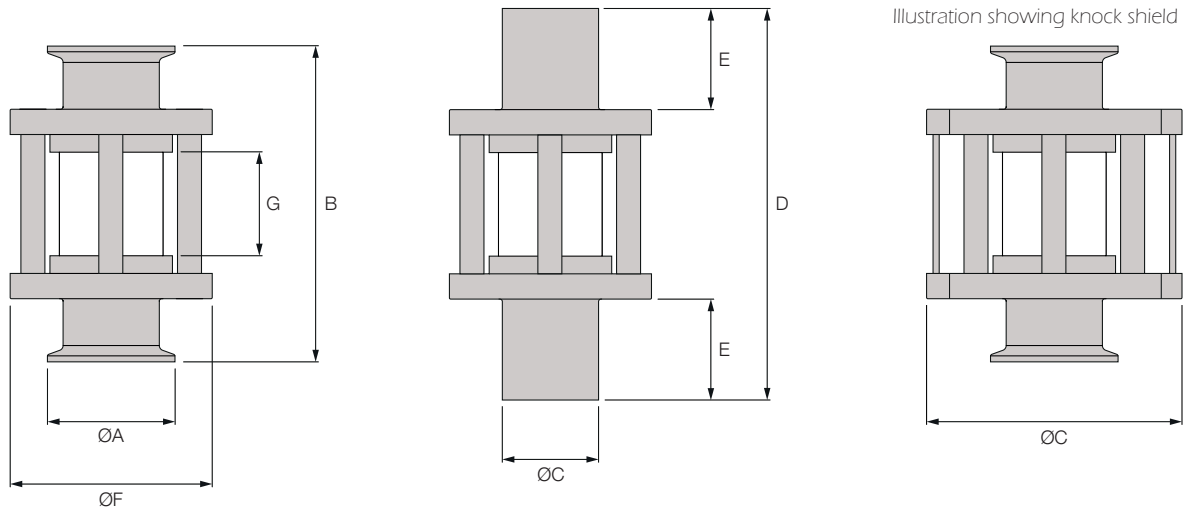
Customer reference number:

Tag number	Part number	Quantity

Available certification (tick as required)

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

HSG04



	Size DIN	Dimensions (mm)								Weight (kg)
		ØA	B	ØC	D	E	ØF	G	ØH*	
	DN8	34	115	10.0	113	28	50	40	64	0.8
		25	115	10.0	113	28	50	40	64	0.8
	DN10	25 or 34	115	12.0	113	28	50	40	64	0.8
		25 or 34	115	13.0	113	28	50	40	64	0.8
	DN15	25 or 34	115	18.0	113	28	50	40	94	2.1
		25 or 34	115	19.0	113	28	50	40	94	2.1
	DN20	25 or 34	125	23.0	125	28	79	40	94	2.1
	DN25	50.5	125	28.0 29.0	125	28	79	40	94	2.5
	DN32	50.5	125	35.0	125	28	79	40	94	2.5
	DN40	50.5	125	41.0	125	28	100	40	114	3.0
	DN50	64	125	53.0	125	28	120	40	134	3.5

	Size ISO	Dimensions (mm)								Weight (kg)
		ØA	B	ØC	D	E	ØF	G	ØH*	
	DN8	25	115	13.4	113	28	50	40	64	0.8
		25	115	17.2	113	28	50	40	64	0.8
	DN15	34	125	21.3	125	28	79	40	94	2.1
		50.5	125	21.3	125	28	79	40	94	2.1
	DN20	50.5	125	26.9	125	28	79	40	94	2.5
	DN25	50.5	125	33.7	125	28	79	40	94	2.5
	DN32	64	125	42.4	125	28	100	40	114	3.0
	DN40	64	125	48.3	125	28	120	40	134	3.5
	DN50	77.5	125	60.3	125	28	134	40	134	4.0

* Dimension ØH only applies when a knock shield is fitted as the body diameter is smaller than the clamp diameter for all sizes

DIN part number ordering key							
Product	Connection		Size		Seal		
	-		-		-		
Without knock shield HSG04	Clamp	C	DIN DN8	25.0-8.0	-	FDA compliant	
With knock shield HSG04KS			DIN DN8	34.0-8.0		EPDM - black	EBK
			DIN DN10	25.0-10.0		Viton - black	VBK
			DIN DN10	34.0-10.0		Silicone - red	SR
			DIN DN15	25.0-15.0		FDA & USP Class VI compliant	
			DIN DN15	34.0-15.0		EPDM - black	EBKU
			DIN DN15	25.0-16.0		Viton - black	VBKU
			DIN DN15	34.0-16.0		Silicone - white	SW
			DIN DN20	34.0-20.0		FEP-Silicone	FEPS
			DIN DN25	50.5-25.0			
			DIN DN25	50.5-26.0			
			DIN DN32	50.5-32.0			
	DIN DN40	50.5-40.0					
	DIN DN50	64.0-50.0					
Without knock shield HSG04	Weld	W	DIN DN8	10.0-8.0	-	FDA compliant	
With knock shield HSG04KS			DIN DN8	12.0-10.0		EPDM - black	EBK
			DIN DN10	13.0-10.0		Viton - black	VBK
			DIN DN10	18.0-15.0		Silicone - red	SR
			DIN DN15	19.0-16.0		FDA & USP Class VI compliant	
			DIN DN20	23.0-20.0		EPDM - black	EBKU
			DIN DN20	28.0-25.0		Viton - black	VBKU
			DIN DN25	29.0-26.0		Silicone - white	SW
			DIN DN32	35.0-32.0		FEP-Silicone	FEPS
			DIN DN40	41.0-38.0			
			DIN DN50	53.0-50.0			
Example							
HSG04	-	C	-	34.0-8.0	-	EBKU	
Specification text							
Staitech HSG04 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 (HSG04-C-34.0-8.0-EBKU). For electropolished finish add suffix 'EP' (HSG04-C-34.0-8.0-EBKU-EP).							
Staitech HSG04KS 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. (HSG04KS-C-34.0-8.0-EBKU). For electropolished finish add suffix 'EP' (HSG04KS-C-34.0-8.0-EBKU-EP).							
Customer reference number:							
Tag number		Part number			Quantity		
Available certification (tick as required)							
<input type="checkbox"/>	CofC Certificate of conformity	<input type="checkbox"/>	USP USP elastomer compliance certificates				
<input type="checkbox"/>	MTR's Materials certification	<input type="checkbox"/>	ADI Certified 'Animal Derived Ingredient' free				
<input type="checkbox"/>	FDA FDA elastomer compliance certificates						

ISO part number ordering key							
Product	Connection		Size		Seal		
	-		-		-		
Without knock shield HSG04	Clamp	C	ISO DN8	25.0-10.3		FDA compliant	
With knock shield HSG04KS			ISO DN10	25.0-14.0		EPDM - black	EBK
			ISO DN15	34.0-18.1		Viton - black	VBK
			ISO DN20	50.5-18.1		Silicone - red	SR
			ISO DN25	50.5-23.7		FDA & USP Class VI compliant	
			ISO DN32	50.5-29.7		EPDM - black	EBKU
			ISO DN40	64.0-38.4		Viton - black	VBKU
			ISO DN50	64.0-44.3		Silicone - white	SW
			ISO DN50	77.5-56.3		FEP-Silicone	FEPS
Without knock shield HSG04	Weld	W	ISO DN8	13.4-10.3		FDA compliant	
With knock shield HSG04KS			ISO DN10	17.2-14.0		EPDM - black	EBK
			ISO DN15	21.3-18.1		Viton - black	VBK
			ISO DN20	26.9-23.7		Silicone - red	SR
			ISO DN25	33.7-29.7		FDA & USP Class VI compliant	
			ISO DN32	42.4-38.4		EPDM - black	EBKU
			ISO DN40	48.3-44.3		Viton - black	VBKU
			ISO DN50	60.3-56.3		Silicone - white	SW
			ISO DN50	60.3-56.3		FEP-Silicone	FEPS
Example							
HSG04	-	C	-	34.0-18.1	-	EBKU	
Specification text							
<p>Staitech HSG04 sight glass manufactured in 316L stainless steel with Borosilicate glass and EPDM FDA and USP Class VI compliant seals. ISO DN15 34mm clamp connections. Wetted surfaces finished to 0.5 microns Ra. External surfaces finished to 0.8 microns Ra (HSG04-C-34.0-18.1-EBKU). For electropolished finish add suffix 'EP' (HSG04-C-34.0-18.1-EBKU-EP).</p> <p>Staitech HSG04KS sight glass manufactured in 316L stainless steel with Borosilicate glass and EPDM FDA and USP Class VI compliant seals. Fitted with Polycarbonate knock shield. ISO DN15 34mm clamp connections. Wetted surfaces finished to 0.5 microns Ra. External surfaces finished to 0.8 microns Ra. (HSG04KS-C-34.0-18.1-EBKU). For electropolished finish add suffix 'EP' (HSG04KS-C-34.0-18.1-EBKU-EP).</p>							
Customer reference number:							
Tag number		Part number			Quantity		
Available certification (tick as required)							
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