

# HST30 STEAM TRAP



## HST30

The HST30 range of steam traps are designed to remove condensate from high purity steam systems. A thermostatic element is used to detect the difference between the temperature of the cooling condensate and the system operating temperature. When this temperature differential exceeds 3-5°C the element contracts to allow the cooling condensate to exhaust. Being a temperature sensitive device, the HST30 also ensures that air is purged from a steam system together with waste condensate. Typical applications for the HST30 are steam main drainage, Steam-in-Place (SIP) applications and when inverted, as a steam system air vent. Where a clamped body joint is preferred over bolted configuration the HST30TC model is available.

<b>P Pressure Rating</b>	Maximum operating pressure (PMO) - 6 barg Maximum allowable pressure (PMA) - 8 barg
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<b>T Temperature Rating</b>	Maximum allowable temperature (TMA) - 170°C
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<b>I Connections</b>	1/4" - 1-1/2" ASME BPE clamp or weld end DN8, 10, 15, 20, 25 ISO and DIN clamp or weld end
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<b>Wetted Parts</b>	316L stainless steel
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<b>Seal Material</b>	PTFE composite
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<b>Flow Capacity</b>						
Pressure (bar)	1.0	2.0	3.0	4.0	5.0	6.0
Flow (kg/h)	200	350	400	650	800	950
Cold flow (kg/h)	700	900	1000	1200	1500	1600

<b>Surface Finish</b>	Wetted surfaces - 0.5 microns Ra (SF1) External surfaces - 0.8 microns Ra
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<b>Options</b>	Horizontal inlet connection Clamped body joint - HST30TC Low ferrite stainless steel (WN1.4435) Fixed bleed Electropolished finish (SF4)
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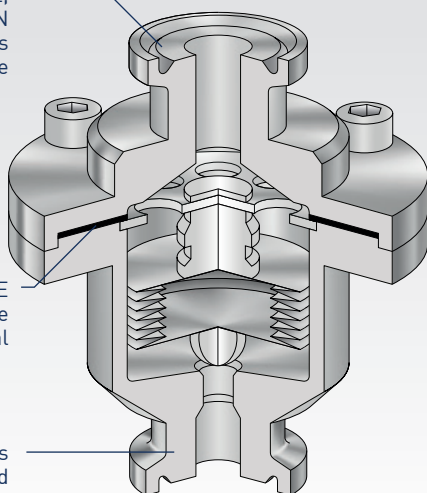
<b>Certification</b>	Certificate of conformity Material certification FDA Elastomer compliance certificates USP Elastomer compliance certificates Certified 'Animal derived ingredient' free
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<b>Features</b>	<ul style="list-style-type: none"> <li>Bolted body - minimise risk of tampering</li> <li>Wide range of connection types and sizes</li> <li>Optional finishes available - SF1 and SF4</li> <li>Simple to maintain</li> <li>Industry standard face-face dimension</li> </ul>
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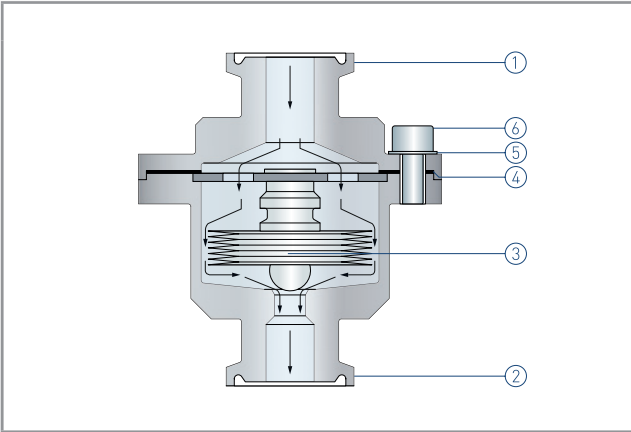
ASME BPE, ISO and DIN connections available

PTFE composite body seal

316L stainless steel body and end fittings

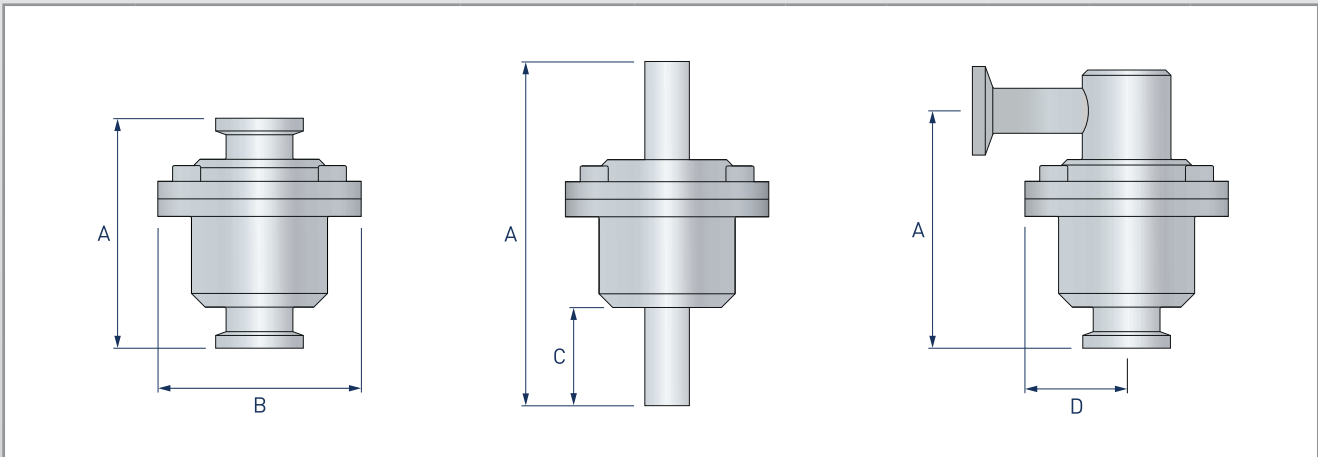


# HST30 STEAM TRAP



Part	Description	
1	Inlet connection	316L stainless steel
2	Outlet connection	316L stainless steel
3	Element assembly	316/316L stainless steel
4	Seal*	PTFE composite
5	Label	304 stainless steel
6	Bolt	Stainless steel

\*Standard seal is FDA compliant only. Dual FDA and USP (121°C) seal also available.



ASME BPE ISO DIN	1/2"	3/4"	1"	1-1/2"	Dimensions (mm)				Weight (kg)
	DN8 and DN10 DN8 and DN10*	DN15* DN15*	DN20 DN20* and DN25	DN25 DN32	A	B	C	D	
	✓	✓	✓	✓	65	60	-	-	0.5
	✓	✓	✓		98	60	28	-	0.5
	✓	✓			70	60	-	43	0.5
			✓		77	60	-	50	0.6

\*ISO DN15, DIN DN8 - DN20 available with 25mm or 34mm clamp connections. ISO DN15 available with 34mm or 50.5mm clamp connections

**Service Parts** - Element assembly (3) and body seal (4)

ASME BPE part number ordering key							
Product		Size		Connections		Options	
	-				-		-
Vertical connections HST30		1/2" ASME BPE	050	Clamp	C	USP 121°C seal USP121	Electropolishing EP
		3/4" ASME BPE	075	Weld	W		
		1" ASME BPE	100				
		1-1/2" ASME BPE	150				
Horizontal inlet HST30H		1/2" ASME BPE	050				
		3/4" ASME BPE	075				
		1" ASME BPE	100				
Example							
<b>HST30</b>	<b>-</b>	<b>050C</b>		<b>-</b>	<b>USP121</b>		<b>- EP</b>
Specification text							
Staitech HST30 steam trap manufactured from 316L stainless steel with PTFE-Viton FDA and USP (121°C) Class VI compliant body seal. 1/2" ASME BPE clamp connections. Wetted surfaces finished to 0.5 microns Ra and electropolished. External surfaces finished to 0.8 microns Ra. (HST30-050C-USP121). For electropolished finish add suffix '-EP' (HST30-050C-USP121-EP).							

DIN part number ordering key									
Product		Connections		Size		Options			
	-		-		-		-		
Vertical connections HST30		Clamp	C	DIN DN8	34.0-8.0	USP 121°C seal USP121	Electropolishing EP		
					25.0-8.0				
Horizontal inlet HST30H				DIN DN10	34.0-10.0				
					25.0-10.0				
				DIN DN15	34.0-15.0				
					25.0-15.0				
				DIN DN15	34.0-16.0				
					25.0-16.0				
				DIN DN20	34.0-20.0				
					50.5-20.0				
				DIN DN25	50.5-25.0				
Vertical connections HST30		Weld	W	DIN DN8	10.0-8.0				
						DIN DN10	12.0-10.0		
Horizontal inlet HST30H					13.0-10.0				
				DIN DN15	18.0-15.0				
					18.0-16.0				
				DIN DN20	23.0-20.0				
					28.0-25.0				
				DIN DN25	29.0-26.0				
Example									
<b>HST30</b>	<b>-</b>	<b>C</b>	<b>-</b>	<b>34.0-8.0</b>		<b>-</b>	<b>USP121 - EP</b>		
Specification text									
Staitech HST30 steam trap manufactured from 316L stainless steel with PTFE-Viton FDA and USP (121°C) Class VI compliant body seal. DIN DN8 34mm clamp connections. Wetted surfaces finished to 0.5 microns Ra and electropolished. External surfaces finished to 0.8 microns Ra. (HST30-C-34.0-8.0-USP121). For electropolished finish add suffix '-EP' (HST30-C-34.0-8.0-USP121-EP).									

ISO part number ordering key								
Product		Connections		Size		Options		
	-		-		-		-	
Vertical connections HST30		Clamp <b>C</b>		ISO DN8	25.0-10.3	USP 121°C seal <b>USP121</b>		Electropolishing <b>EP</b>
Horizontal inlet HST30H				ISO DN10	25.0-14.0			
				ISO DN15	25.0-18.1			
				ISO DN15	34.0-18.1			
				ISO DN20	50.5-23.7			
Vertical connections HST30		Weld <b>W</b>		ISO DN8	13.5-10.3			
Horizontal inlet HST30H				ISO DN10	17.2-14.0			
				ISO DN15	21.3-18.1			
				ISO DN20	26.9-23.7			
Example								
<b>HST30</b>	-	<b>C</b>	-	<b>25.0-10.3</b>	-	<b>USP121</b>	-	<b>EP</b>
Specification text								
Staitech <b>HST30 steam trap</b> manufactured from 316L stainless steel with PTFE-Viton FDA and USP (121°C) Class VI compliant body seal. <b>ISO DN8 25mm clamp</b> connections. Wetted surfaces finished to 0.5 microns Ra and electropolished. External surfaces finished to 0.8 microns Ra. (HST30-C-25.0-10.3-USP121). For electropolished finish add suffix '-EP' (HST30-C-25.0-10.3-USP121-EP).								