

Strainers

Overview

Parker Bestobell cryogenic T-type strainers are used in pipelines to prevent contaminants from entering an end product in industrial gas applications. The large clearance around the entire strainer circumference ensures an effective straining function. The 100 mesh strainer element is compatible with all common cryogenic liquids and gases and is supported by a metal cylinder for additional strength.

These cryogenic strainers should only be installed horizontally with the cover at the bottom.

Function:

- Prevent contaminants in media

Applications:

- Transportation of Liquefied Gases
- Storages of Liquefied Gases
- Gas Processing

Valve size	DN15 - DN100
Maximum Working Pressure (MWP)	50 bar (725 PSI) dependent on end connections
Working temperature	-196°C to +65°C (-319°F to +149°F)
End connections	NPT, BSP, Socket Weld, Butt Weld, Flanged
Body materials	Bronze, Stainless Steel
Suitable for media type	Group 1 gases Cleaned for oxygen service
Design and testing standards	ASTM B31.1, BS EN 1626, BS ISO 21011 Optional full material traceability backed by BS EN 10204 3.1/3.2 certification
Approvals	CRN, UKCA and PED approved
Marking	CE and UKCA marked



Parker Bestobell Cryogenic Strainer in Bronze (DN 50; BSP-PL Female Ends)



Parker Bestobell Cryogenic Strainer in Stainless Steel (DN 40; Butt Weld Schedule 10 Ends)



Parker Bestobell Cryogenic Strainer in Stainless Steel (DN 40; Flange ASME CL150 Ends)

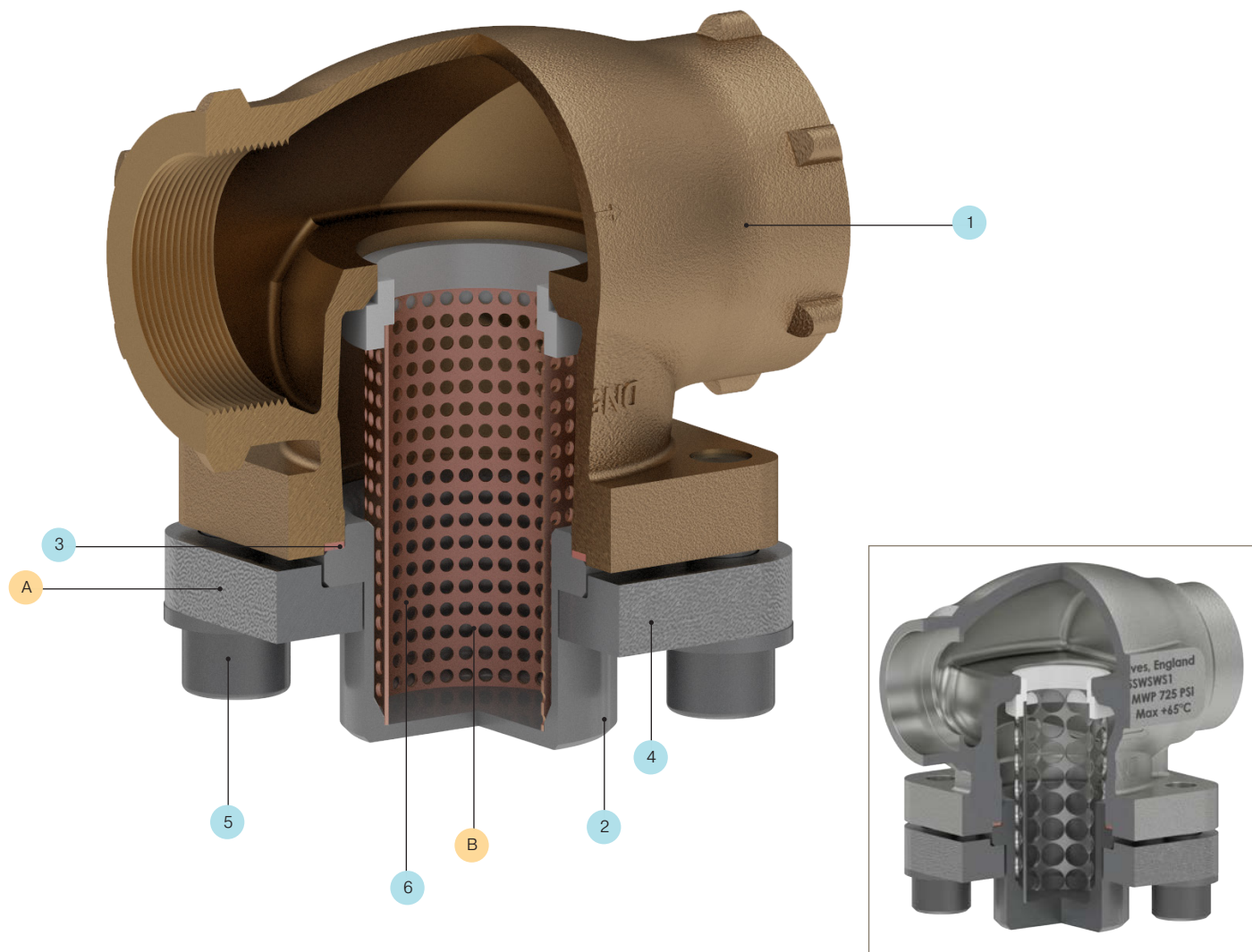
Features, Benefits and Values

Reference	Feature	Benefit	Value
A	Bolted bonnet	Ease of maintenance Reduced maintenance area Allows for thermal expansion and contraction at cryogenic temperatures Eliminates leakage at the bonnet gasket	Safety Reliability Ease of Operation
B	Large strainer area	Ensures full flow of fluid through the unit	Performance
N/A	Full bore	High flow Low pressure drop Increased media velocity	Performance



WARNING

The products described in this catalog can expose you to chemicals, including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.p65warnings.ca.gov.



Technical Information

Bill of Materials

	Description	Bronze CSB Series	Stainless Steel CSS Series
1	Body	Gunmetal BS EN 1982 CC491K	Stainless Steel ASTM A351 CF8M
2	Cover	Stainless Steel BS EN 10088-3 1.4401	
3	Gasket	Sigma 511	
4	Loose Flange	Stainless Steel ASTM A351 CF8M	
5	Fasteners	Stainless Steel BS6105 A2 / A4 Gr.70	
6	Filter	Copper / Monel Gauze / Stainless Steel 304	



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Ordering Information

Strainers - Bronze

CSB Series

Series		Valve Size		Inlet Connection		Outlet Connection		Filter Material		Filter Size			
Cryogenic Strainers - Bronze	CSB	15 mm	DN15	BSP-PL Female	TA	BSP-PL Female	TA	Copper/Monel	F	100 Mesh	1		
		25 mm	DN25	NPT Female	TE	NPT Female	TE	Stainless Steel	S	40 Mesh	4		
		40 mm	DN40	Screwed Schedule 10 Stainless Steel Stubs	ST	Screwed Schedule 10 Stainless Steel Stubs	ST			60 Mesh	6		
		50 mm	DN50										

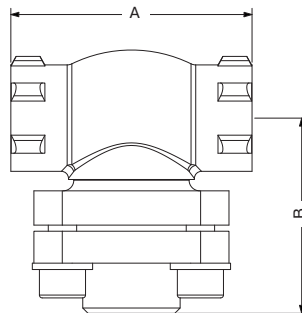
Notes:

1. Inlet and outlet connections must be of the same type.
2. Options available on request: DN6, DN10 size valves; Socket Weld end connections.

Specifications

Threaded Ends/Threaded Ends with Stainless Steel Stubs

Valve Size		DN15 15 mm	DN25 25 mm	DN40 40 mm	DN50 50 mm
A	mm	68	92	121	146
B	mm	55	66	81	108
Cv	US GPM	16	44	80	128
Weight	kg	1.0	1.8	3.1	5.1



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Strainers - Full Stainless Steel

CSS Series

CSS	DN40	FA	FA	F	1
Series	Valve Size	Inlet Connection	Outlet Connection	Filter Material	Filter Size
Cryogenic Strainers - Full Stainless Steel	15 mm DN15 25 mm DN25 40 mm DN40 50 mm DN50 65 mm DN65 80 mm DN80 100 mm DN100	Butt Weld Schedule 10 B1 Socket Weld SW Flange ASME CL150 FA Flange ASME CL300 FC	Butt Weld Schedule 10 B1 Socket Weld SW Flange ASME CL150 FA Flange ASME CL300 FC	Copper/Monel F Stainless Steel S	100 Mesh 1 40 Mesh 4 60 Mesh 6

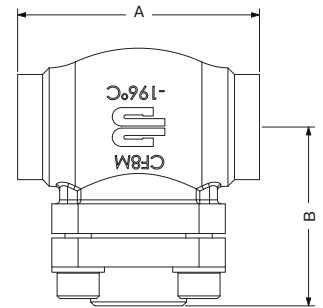
Notes:

1. Inlet and outlet connections must be of the same type.
2. Options available on request: DIN Flanges; Butt Weld Schedule 40; DN6, DN10, DN150 size valves.

Specifications

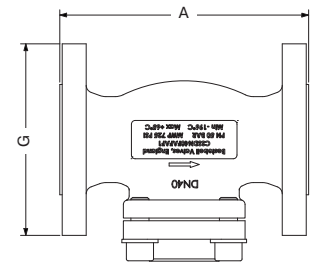
Butt Weld/Socket Weld Ends

Valve Size	DN15 15 mm	DN25 25 mm	DN40 40 mm	DN50 50 mm	DN65 65 mm	DN80 80 mm	DN100 100 mm
A	mm	68	92	121	146	178	292
B	mm	55	66	81	108	145	229
Cv	US GPM	16	44	80	128	192	390
Weight	kg	1.0	2.0	2.6	5.4	7.0	33.0



Flanged Ends

Valve Size	DN15 15 mm	DN25 25 mm	DN40 40 mm	DN50 50 mm	DN65 65 mm	DN80 80 mm	DN100 100 mm
A	mm	115	140	165	203	216	243
G	mm	130	160	200	230	290	310
Flange thickness	mm	89	108	127	152	178	190
Weight	kg	95	124	155	165	191	210
		Class 150	13.00	14.50	17.50	19.05	25.40
		Class 300	14.00	18.00	21.00	22.00	25.00
		Class 150	2.0	4.3	8.3	13.0	18.8
		Class 300	2.2	4.5	8.6	13.5	19.5



Dimension B and Cv values are the same as for Butt Weld/Socket Weld ends.



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Strainers - Bronze

CSB Series

Valve Size		DN15	DN25	DN40	DN50
Gasket & PTFE Slipper		CSBRDN15	CSBRDN25	CSBRDN40	CSBRDN50
Filter	Copper/Monel (100 mesh)	CSBFCDN15	CSBFCDN25	CSBFCDN40	CSBFCDN50
	Stainless Steel (100 mesh)	CSBFSDN15	CSBFSDN25	CSBFSDN40	CSBFSDN50

Strainers - Stainless Steel

CSS Series

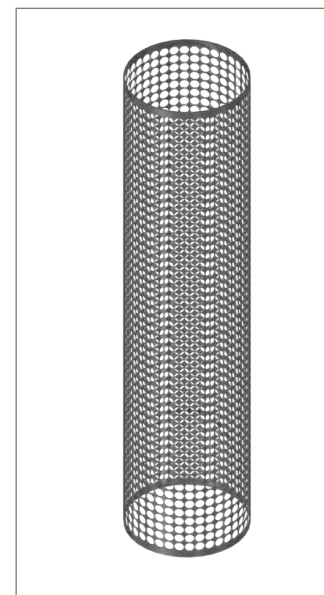
Valve Size		DN15	DN25	DN40	DN50	DN65	DN80	DN100
Gasket & PTFE Slipper		CSSRDN15	CSSRDN25	CSSRDN40	CSSRDN50	CSSRDN65	CSSRDN80	CSSRDN100
Filter	Copper/Monel (100 mesh)	CSSFCDN15	CSSFCDN25	CSSFCDN40	CSSFCDN50	CSSFCDN65	CSSFCDN80	CSSFCDN100
	Stainless Steel (100 mesh)	CSSFSDN15	CSSFSDN25	CSSFSDN40	CSSFSDN50	CSSFSDN65	CSSFSDN80	CSSFSDN100

Gasket & PTFE Slipper	
Content	Quantity
Gasket	1
PTFE slipper	1



Gasket & PTFE Slipper for
Parker Bestobell Cryogenic
Strainers

Filter	
Content	Quantity
Filter	1



Filter for Parker Bestobell
Cryogenic Strainers

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