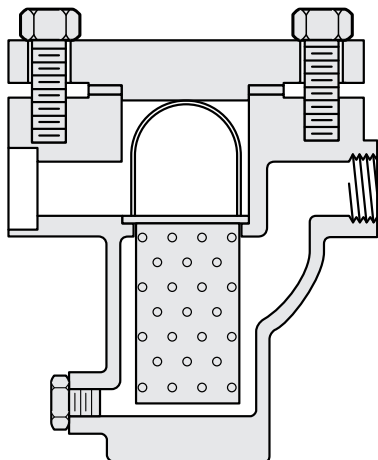


Series B125 Threaded and Series B300 Style2 Socket Weld Basket Strainers



Design Features:

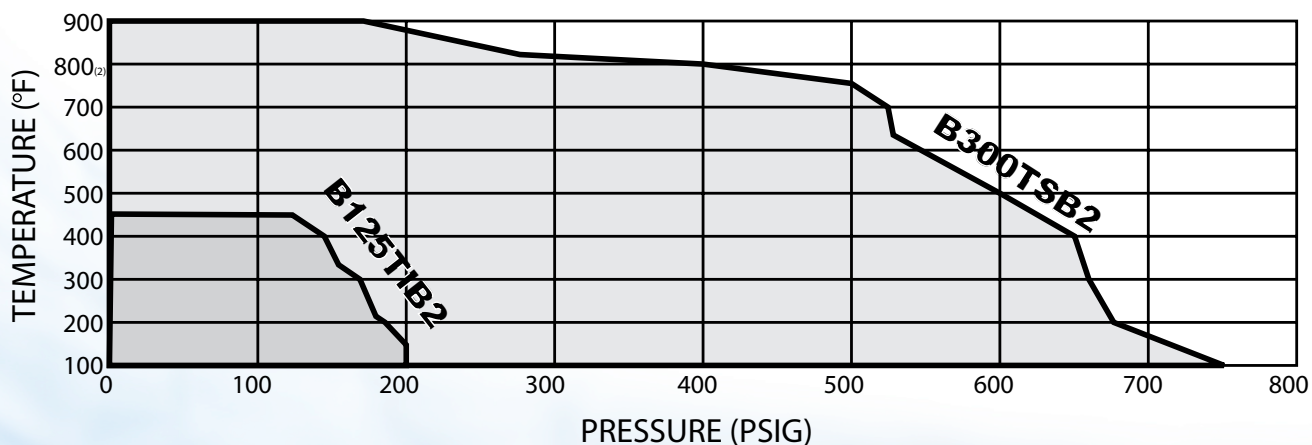
- Strainers are equipped with threaded (NPT) or socket weld inlet/outlet connections.
- Strainer body meets applicable ASME standard.
- Series B300 strainers equipped with bolted cover flanges that utilize a flat gasket seal.
- Series B125 strainers equipped with a rotating cover that utilizes an O-Ring seal.
- Strainer cover flanges are designed in accordance with ASME Section VIII, Div. I Appendix II and/or ASME B16.5.
- Over-the-top flow design complete with machined basket seats eliminate the possibility of dirty fluid by-pass.
- Standard basket construction is 304 SS perforated plate.
- Recommended lower straining level is 40 microns.
- N.P.T. drain connection furnished with plug.
- Recommended for installation in horizontal pipelines.
- Generous screen area and properly proportioned outer annulus minimize pressure drop while maximizing time between cleanings.

Parts List and Standard Materials			
Part	Cast Iron	Carbon Steel	Stainless Steel
Body	A126-B	A216-WCB	A351-CF8M
Cover	A126-B	A216-WCB	A351-CF8M
Screen ¹	304 SS	304SS	304 SS
Plug ²	A126-B	A105	A182-316
Gasket ¹	Buna-N O-Ring	Bolted Cover: 304 SS Spiral Wound	Bolted Cover: 304 SS Spiral Wound
Bolt/Stud ²	A307-B	A193-B7	A193-B8-1
Nut ²	A563	A194-2H	A194-8

Notes: 1. Recommended Spare Parts
2. Materials of equivalent strength may be substituted at manufacturer's option.

Upper Pressure Limits (Non-Shock)		
Threaded Model	Body Material	M.A.W.P. psig (Bars)
B125TIB2	A126-B	200 (13.79)
B300TSB2	WCB	740 (51.02)
B300TSSB2	CF8M	720 (49.64)
Lower Temperature Limits		
Body Material		Lower Limit °F (°C)
A126-B		-20 (-28.9)
WCB		
CF8M		

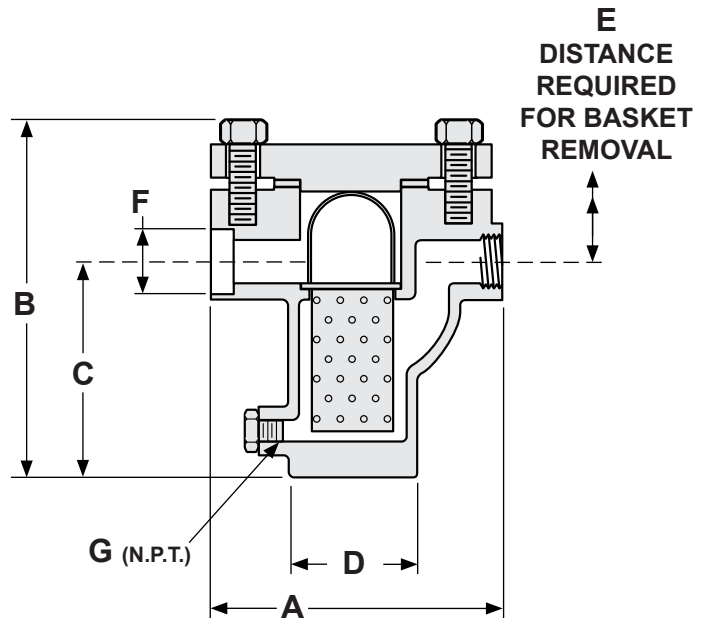
Pressure Temperature Chart (in accordance with ASME B16.1 & ASME B16.5, WCB)



Note: 1. Graphite filled 304 SS Spiral Wound gaskets limited to 900°F in an oxidizing atmosphere. When operating Series 300B strainers at higher temperatures, please consult factory.
2. Upon prolonged exposure to temperatures above 800°F, the carbide phase of carbon steel may be converted to graphite.

Series B125 Threaded and Series B300 Style2 Socket Weld Basket Strainers

Standard Screens	
Size Range in (mm)	Opening in (mm)
1/2"-1-1/2" (15-40)	0.032 (0.8)
2" (50)	0.045 (1.2)

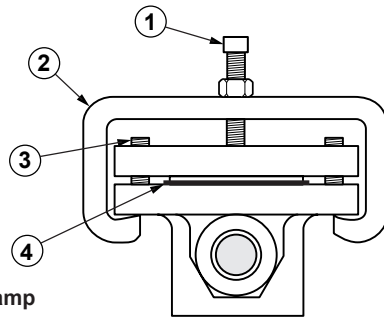


Dimensional Data (Class 125-150)																		
Nom. Size in (mm)	Dim. A in (mm)		Dim. B in (mm)		Dim. C in (mm)		Dim. D in (mm)	Dim. E in (mm)			Dim. F in (mm)		Dim. G in (mm)		Weight Lb. (kg.)			
	B125	B300	B125	B300	B125	B300		B125	B300	B300	B125	B300	Cover		Unit			
													B125	B300	B125	B300		
1/2 (15)		6.13 (156)		7.06 (179)		4 (102)		7.13 (181)	5.75 (146)	0.855 (21.72)	3/8 (10)	3/8 (10)	3 (1.4)	6 (2.7)	10 (4.5)	18 (8.2)		
3/4 (20)	6.75 (171)		8.50 (216)		5.38 (137)	5 (127)	3.63 (92)	7.88 (200)	7.44 (189)	1.065 (27.05)			6 (2.7)	8 (3.6)	18 (8.2)	24 (10.9)		
1 (25)		6.75 (171)		8.38 (213)						1.330 (33.78)	1/2 (15)	1/2 (15)						
1-1/4 (32)	8.50 (216)	8.13 (206)		11.88 (302)			4.25 (108)	10.50 (267)	11.06 (281)	1.675 (42.55)		3/4 (20)	8 (3.6)	12 (5.4)	30 (13.6)	43 (19.5)		
1-1/2 (40)			10.75 (273)		7.13 (181)	7.75 (197)				1.915 (48.64)	3/4 (20)							
2 (50)	9.75 (248)	9.00 (229)		12.38 (314)			5.25 (133)	11.00 (279)	11.69 (297)	2.406 (61.11)		1 (25)	13 (5.9)	16 (7.3)	50 (22.7)	50 (26.3)		
2-1/2 (65)	11.5 (292)	N/A	15.25 (387)	N/A	9.13 (232)	N/A	6.63 (168)	13.25 (337)			1-1/4 (32)		17 (7.7)	N/A	62 (28.1)	N/A		
3 (80)								13.50 (343)	N/A	N/A								

Notes:

1. Vents are optional.
2. Dimension "C" will change when Quick Opening covers are used.
3. B125 Strainers are only available with a style R rotating cover.
4. B125 Strainers are complete with bottom drains.
5. B300 Strainers are complete with side drains, bottom drains are optional.
6. Dimension "F" applies to series B300 only.
7. Dimensions shown are subject to change. Consult factory for certified prints when required.

Quick Opening Covers Engineering Data, Pressure Drop-Liquids



Cover Type "C"
Quick Opening C-Clamp

Design Features:

- Ideal for low pressure applications.
- Allows for extremely quick access to strainer basket.
- To be used on non-lethal liquid service only.

Availability	
Size Range in (mm)	Available Body Material
1/2"-12" (15-300)	A126-B, B62, A216-WCB, A351-CF8M

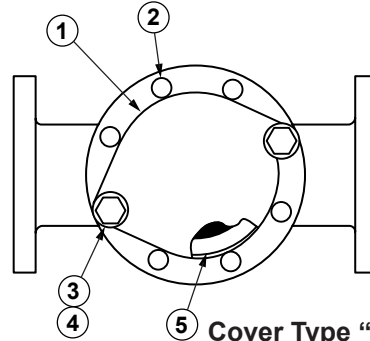
Upper Pressure Limits (Non-Shock)	
M.A.W.P. psig (Bars)	Max. Allowable Working Temp. °F (°C)
50 (3.44)	100 (37.8)

Parts List and Standard Materials		
Item	Part	Specification
1	Clamp Bolt ²	A449 Grade 5
2	Clamp	A516-70 Carbon Steel
3	Anti-Rotating Stud ²	A194-8
4	Gasket ¹	Viton O-Ring

Notes: 1. Recommended Spare Parts
2. Materials of equivalent strength may be substituted at manufacturer's option.

Gasket Materials Utilized	
Size Range in (mm)	Gasket Type
1/2"-6" (15-150)	Flat Rubber (Non-Asbestos)
8"-12" (200-300)	Buna-N O-Ring (Groove in Cover)

CAUTION: This type of closure does not meet the requirements of Section UG-35.2 of ASME Section VIII, Div. 1. Use caution when using this type of device.



Cover Type "R"- Rotating Cover

Design Features:

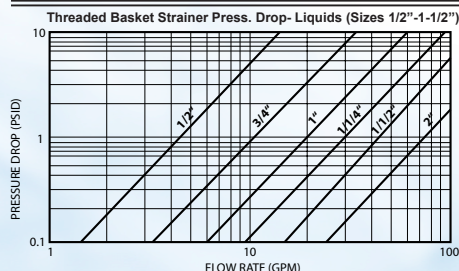
- Used for medium pressure applications.
- Easy maintenance and quick-opening.

Availability	
Size Range in (mm)	Available Body Material
1/2"-3" (15-80)	A126-B, B62, A216-WCB, A351-CF8M

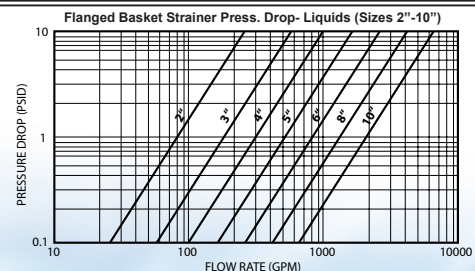
Upper Pressure Limits (Non-Shock)		
Body Material	M.A.W.P. psig (Bars)	M.A.W.T. °F (°C)
A126-B	200 (13.79)	100 (37.8)
B62	225 (15.51)	
A216-WCB	285 (19.65)	
A351-CF8M	275 (18.96)	

Parts List and Standard Materials			
Item	Part	Strainer Body Material	
		A126-B, WCB	B62, CF8M
1	Cover	A516-70	A240-304
2	Positioning Stud ²	Steel	Stainless Steel
3	Cover Stud ²	A193-B7	A193-B8-1
4	Cover Nut ²	A194-2H	A194-8
5	Gasket ^{1,4}	Flat Rubber	Flat EPDM

Notes: 1. Recommended Spare Parts
2. Materials of equivalent strength may be substituted at manufacturer's option.
3. Quick Release Knobs are available. Contact Factory.
4. Other Gasket Types are Available.



Notes: 1. Pressure drop curves are based on water flow with standard screens.



STRAINER INSTALLATION INSTRUCTIONS

- A. Ensure all machined surfaces are free of defects and that the inside of the strainer is free of foreign objects.
- B. For horizontal pipelines, the strainer should be installed so that the drain connection is pointed downwards.
- C. For flanged end strainers, the flange bolting should be tightened gradually in a back and forth clockwise motion. Threaded end strainers should use an appropriate sealant.
- D. Once installed, increase line pressure gradually and check for leakage around joints.
- E. If the Strainer is supplied with a start-up screen, monitor pressure drop carefully.

BASKET REMOVAL INSTRUCTIONS

- A. Drain Piping
- B. Vent line to relieve pressure.
- C. Loosen cover and open to access basket.
- D. Remove, clean and replace basket in original position. (Note: In some instances, a high pressure water jet or steam may be required for effective cleaning).
- E. Inspect cover gasket for damage. If necessary, replace. (Note: If spiral wound gaskets are used, they must be replaced and not used again).
- F. Tighten cover. The strainer is ready for line start-up.

CAUTION SHOULD BE TAKEN DUE TO POSSIBLE EMISSION OF PROCESS MATERIAL FROM PIPING. ALWAYS ENSURE NO LINE PRESSURE EXISTS WHEN OPENING COVER.

MAINTENANCE INSTRUCTIONS

For maximum efficiency, determine the length of time it takes for the pressure drop to double that in the clean condition. Once the pressure drop reaches an unacceptable value, shut down line and follow "Basket Removal Instructions" above.

A pressure gauge installed before and after the strainer in-line will indicate pressure loss due to clogging and may be used to determine when cleaning is required.

TROUBLE SHOOTING GUIDES

- A. After pressurizing, inspect cover and other joints for leakage. Gasket replacement or cover tightening is necessary if leakage occurs.
- B. If the required filtration is not taking place, ensure the basket is installed in the correct position, that being flush to the basket seating surfaces.

LIMITED WARRANTY

All products are warranted to be free of defects in material and workmanship for a period of one year from the date of shipment, subject to the limitations below: If the purchaser believes a product to be defective, the purchaser shall:

- (a) Notify the manufacturer, state the alleged defect and request permission to return the product.

- (b) If permission is given, return the product with transportation prepaid. If the product is accepted for return and found defective, the manufacturer will, at its discretion, either repair or replace the product, f.o.b. factory, within 60 days of receipt or refund the purchase price.

Other than to repair, replace or refund described above, the purchaser agrees that the manufacturer shall not be liable for any losses, costs, expenses, or damages of any kind arising out of the product, its use, installation or replacement, labeling, instructions, information or technical data of any kind, description of product use, sample or model, warnings or lack of foregoing. No other warranties, written or oral, expressed or implied, including the warranties of fitness for a particular purpose and merchantability, are made or authorized. No affirmation of fact, promise, description of product use or sample or model shall create any warranty from the manufacturer, unless signed by the president. These products are not manufactured, sold or intended for personal, family or household purposes.