



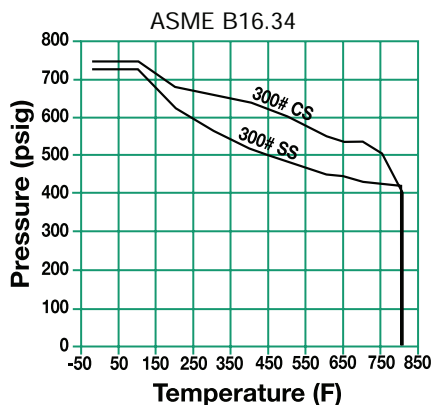
300B SERIES CAST CARBON STEEL, STAINLESS STEEL THREADED BASKET STRAINERS

PRESSURES TO 740 PSIG (51 BARG)
TEMPERATURES TO 800°F (427°C)

APPLICATIONS

- Water, oil systems
- Other liquid systems
- Protection of pumps, meters, valves and similar equipment

PRESSURE/TEMPERATURE CHART



For Quick Opening Covers Ratings, see page 467

- **SSI Exclusive – Cover flange is in dimensional accordance with ASME B16.5**
- **Over the top flow and machined basket seat eliminate any chance of dirty fluid by-pass**
- **Large screen area minimizes pressure drop and cleaning intervals**
- **Threaded or socketweld connections**
- **Stainless steel perforated baskets are standard**
- **Recommended minimum straining level is 40 microns**
- **NPT drain connection furnished with plug as standard**

MODELS

- 300B2T – Threaded over the top flow
- 300B2W – Socketweld over the top flow

OPTIONS

- Other screen perforations and mesh liners
- Quick Opening Covers - See page 467
- Socketweld Connections

APPLICABLE CODES

- ASME B16.5, B16.34

300B2 Series Ordering Code

300B2 Series Ordering Code

Inlet Size					Model				Con- nection	Body Material	Dash	Perf	Mesh	Add'l Requirements	
0	1	5	0	-	3	0	0	B	2	T	T	-	1	—	—
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Inlet Size - Position 1 - 4
 0050 - 1/2"
 0075 - 3/4"
 0100 - 1"
 0125 - 1 1/4"
 0150 - 1 1/2"
 0200 - 2"

Dash - Position 5

Model - Position 6 - 10
 300B2 - Straight Flow

Connection - Position 11
 T - Threaded
 W - Socketweld

Body Material - Position 12
 C - Carbon Steel
 T - Stainless Steel

Dash - Position 13

Perf¹ - Position 14

304 SS Material²

1 - 1/32"
 B - 3/64"
 A - None
 2 - 1/16"
 3 - 3/32"
 4 - 1/8"
 5 - 5/32"
 6 - 3/16"
 7 - 7/32"
 8 - 1/4"
 9 - 3/8"
 Z - Other

Mesh² - Position 15

**Leave Blank
If not Required
(Std. all)**

1 - 10
 2 - 20
 3 - 30
 4 - 40
 5 - 50
 6 - 60
 7 - 80
 8 - 100
 9 - 120
 Z - Other

Add'l Requirements -
 Position 16

**Leave Blank
If not Required**

D - Special Drain Size
 F - Silicon Free
 G - Special Gaskets
 N - Nace MR01-75
 T - Special Testing
 V1 - Clamp Cover
 X - Oxygen Cleaning
 Y - Other and / or
 Multiple Specials

**Indicate Specials
Clearly On the Order**

1. Standard screens All 1/2" - 1 1/2" — 1/32" perf, All 2" — 3/64" perf.

2. For other screen materials, contact factory.

For any variations, use the part numbering system above but clearly indicate the additional requirement.

300B SERIES

CAST CARBON STEEL, STAINLESS STEEL

THREADED BASKET STRAINERS

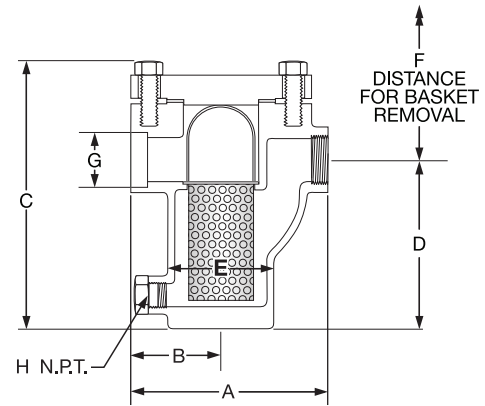
SPECIFICATION

Basket Strainer shall have over the top flow with a machined basket seat. The Basket Strainer shall be cast steel or stainless steel with 300 PSIG A rated threaded socketweld connections. The cover flange dimensions shall be in accordance with ASME B16.5. The screen shall be size _____ perforated stainless steel. The Strainer shall have an inlet size of _____ and open area ratio of _____. The Basket Strainer shall be SSI 300B2 Series.

MATERIALS OF CONSTRUCTION

Part	Carbon Steel	Stainless Steel
Body	A216-WCB	A351-CF8M
Cover	A216-WCB	A351-CF8M
Screen ¹	304SS	304SS
Plug ²	A105	A182-316
Gasket ¹	304SS Spiral Wound ³	304SS Spiral Wound ³
Bolt/Stud ²	A193-B7	A193-B8-1
Nut ²	A194-2H	A194-8

1. Recommended Spare Parts
2. Materials of equivalent strength may be substituted.
3. Gasket for bolted cover. *For Quick Opening Covers, see page 467*



Connections: 1/2" – 2"
NPT or Socketweld

SCREEN OPENINGS

SIZE	STANDARD SCREEN	MATERIALS
1/2" – 1 1/2"	1/32 Perf.	304 SS
2"	3/64 Perf.	304 SS

DIMENSIONS inches (mm) AND WEIGHTS pounds (kg)

SIZE	A	B	C*	D	E	F	H	WEIGHT	
								Cover	Unit
1/2 (15)	6 1/8 (156)	3 1/8 (80)	6 5/8 (179)	4 (102)	2 1/8 (54)	5 3/8 (146)	3/8 (10)	6 (2.7)	20 (9.1)
3/4 (20)	6 3/4 (171)	3 7/8 (87)	8 1/8 (213)	5 (127)	2 1/2 (64)	7 1/8 (189)	3/8 (10)	8 (3.6)	25 (11.4)
1 (25)	6 3/4 (171)	3 7/8 (87)	8 1/8 (213)	5 (127)	2 1/2 (64)	7 1/8 (189)	1/2 (15)	8 (3.6)	25 (11.4)
1 1/4 (32)	8 1/8 (206)	4 5/8 (109)	11 15/16 (303)	7 3/4 (197)	3 7/8 (87)	11 1/8 (281)	3/4 (20)	12 (5.4)	46 (20.9)
1 1/2 (40)	8 1/8 (206)	4 5/8 (109)	11 15/16 (303)	7 3/4 (197)	3 7/8 (87)	11 1/8 (281)	3/4 (20)	12 (5.4)	46 (20.9)
2 (50)	9 (229)	4 13/16 (122)	12 7/8 (316)	7 3/4 (197)	4 1/4 (108)	11 11/16 (297)	1 (25)	16 (7.3)	61 (27.8)

*For models with Quick Opening Cover, consult factory.

Dimensions shown are subject to change. Consult factory for certified drawings.

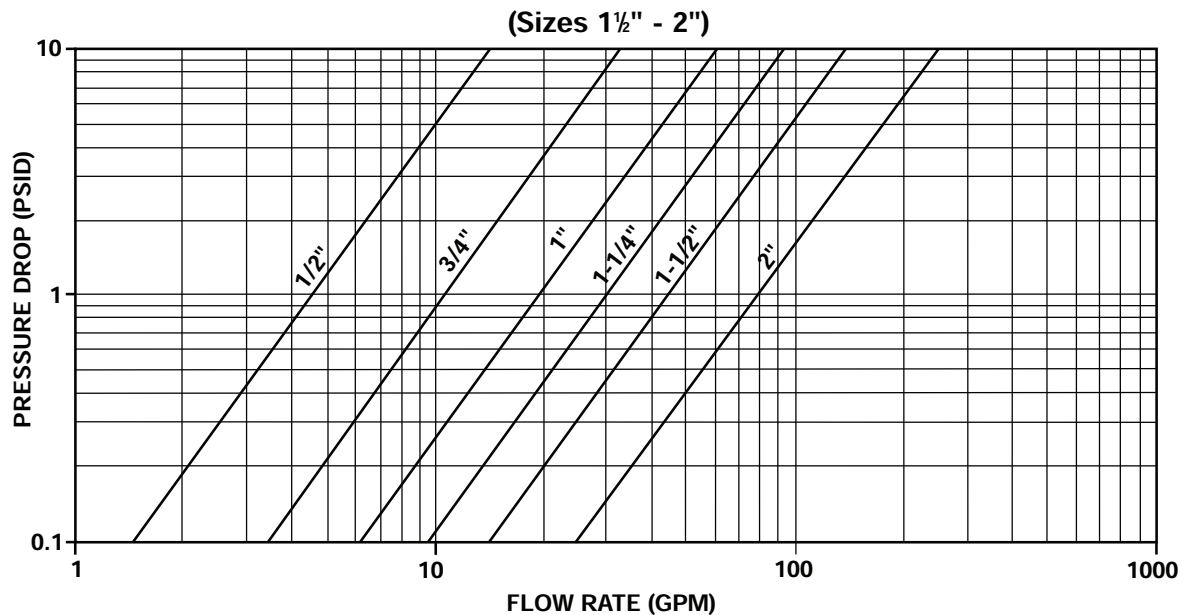
300B2 SERIES
BASKET STRAINERS

300B SERIES

CAST CARBON STEEL, STAINLESS STEEL

PRESSURE DROP VS FLOW RATE

Water Service, Clean Basket, 1/32" - 1/4" Perforated Screen*



* For Gas, Steam or Air service, consult factory.

300B SERIES

CAST CARBON STEEL, STAINLESS STEEL

OPEN AREA RATIOS

with Standard Perforated Screen

Size	Opening Diameter (in)	Opening %	Nominal Inlet Area (in²)	Gross Screen Area (in²)	Free Screen Area (in²)	Open Area Ratio (OAR)
1/2	1/32	28	0.30	14.1	4.0	13.0
3/4	1/32	28	0.53	22.3	6.2	11.7
1	1/32	28	0.86	22.3	6.2	7.2
1 1/4	1/32	28	1.50	46.9	13.1	8.8
1 1/2	1/32	28	2.04	46.9	13.1	6.4
2	3/64	36	3.36	57.1	20.6	6.1

OAR = Free Screen Area / Nominal Inlet Area

Free Screen Area = Opening % x Gross Screen Area

Other Screen Openings
Page 466

Basket Burst Pressure
Page 472

Correction Factors for Other
Viscous Liquids and/or Mesh Liners
Page 471

Correction Factors
for Clogged Screens
Page 471