



FSTR STRAINER

GENERAL FEATURES

Ayvaz FSTR Strainers are manufactured according to ANSI B16.34 design standards and a wide range of applications in industrial applications due to their high pressure and temperature resistant structure. Ayvaz FSTR Strainers can be designed in different body material, filter material, pressure class and connection types in accordance with ANSI standards according to fluid conditions.

Advantages

- Compact and robust design for high temperature and pressurized fluids
- Variety of designs suitable for fluid conditions
- Easy removable and cleanable filter

Design

- Bolted cover (BB) or Welded cover (WB)
- Y-Type or T-Type - Manual or electric actuated

Fluids

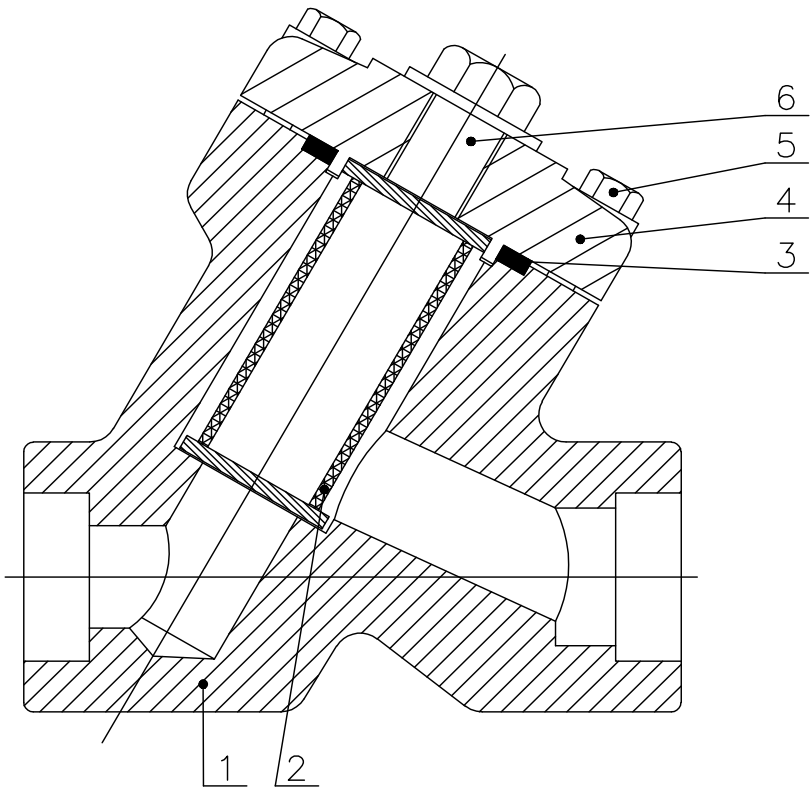
- Saturated Steam
- Superheated Steam
- Gas
- Oil and Derivatives
- Water
- Air
- Various Chemical fluids
- Acid

Applications

- Petrochemical plants
- Refineries
- Power Plants
- Iron and Steel Factories
- Sugar Factories
- Chemical Plants
- Food factories
- Paper Mills
- Boiler manufacturers
- Mine Facilities
- Cement Factories
- Fertilizer Plants

FSTR STRAINER

STANDARD BODY MATERIALS		
CODE	MATERIAL	MAX. OPERATING TEMPERATURE
A105	ASTM A105	-29 °C/+425 °C
LF2	ASTM A350 LF2	-46 °C/+425 °C
F316	ASTM A182 F316	-196 °C/+538 °C
316H	ASTM A183 F316H	-196 °C/+593 °C
F5	ASTM A182 F5	-29 °C/+600 °C
F9	ASTM A182 F9	-29 °C/+600 °C
F91	ASTM A182 F91	-29 °C/+600 °C
F11	ASTM A182 F11	-29 °C/+595 °C
F22	ASTM A182 F22	-29 °C/+595 °C



STANDARD MODELS PARTS LIST							
NO	PART	FSTR-10	FSTR-20	FSTR-30	FSTR-40	FSTR-50	FSTR-60
1	Body	A105	A182 F22	A350 LF2	A182 F11	A182 F304	A182 F316
2	Filter	SS316	SS316	SS304	SS316	SS304	SS316
3	Cover Gasket	SS304+Graphite	SS304+Graphite	SS304+Graphite	SS304+Graphite	SS304+Graphite	SS316+Graphite
4	Cover	A105	A182 F22	A350 LF2	A182 F11	A182 F304	A182 F316
5	Cover Bolt	A193 B7	A193 B16	A320 L7	A193 B16	A193 B8	A193 B8
6	Drainage Bolt	A193 B7	A193 B16	A320 L7	A193 B16	A193 B8	A193 B8

FSTR STRAINER

Design Standards

Design Standard:

- ANSI B16.34

Connection Standards:

- Socket Weld:ANSI B16.11(SW)
- Thread:ANSI B1.20.1(NPT)
- Butt Welded:ANSI B16.25(BW)
- Flanged:ANSI B16.5(RF)

Test Standard:

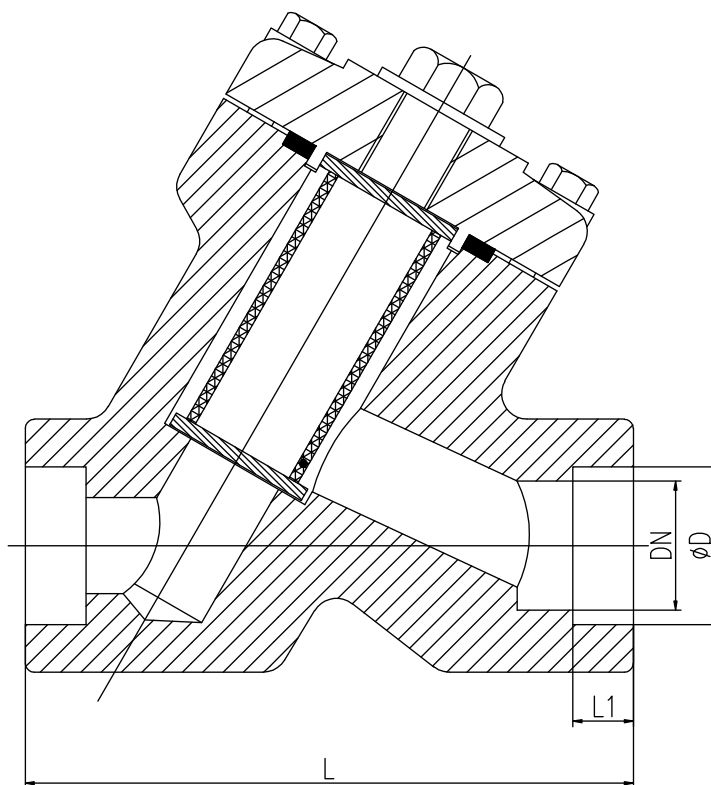
- API598

Production Diameter:

- DN15(1/2") - DN50(2")

Pressure Class:

- Class 150 - Class 1500



FSTR CLASS 800 (SW,BW,NPT)

DIA	DN	D	L1	L
1/2"	15	21.7	9.6	79
3/4"	20	27.1	12.7	92
1"	25	33.8	12.7	111
1 1/4"	32	42.5	12.7	120
1 1/2"	40	48.6	12.7	152
2"	50	61.1	15.7	172

FSTR CLASS 1500 (SW,BW,NPT)

DIA	DN	D	L1	L
1/2"	15	21.7	9.6	111
3/4"	20	27.1	12.7	111
1"	25	33.8	12.7	120
1 1/4"	32	42.5	12.7	152
1 1/2"	40	48.6	12.7	172
2"	50	61.1	15.7	220

FSTR STRAINER

OPERATING TEMPERATURE	CLASS 150					CLASS 300					CLASS 600				
	A105	F316	F11	F22	LF2	A105	F316	F11	F22	LF2	A105	F316	F11	F22	LF2
-46 °C		19.0			19.6		49.6			51.1		99.3			102.1
-29 °C/38 °C	19.6	19.0	19.8	19.8	19.6	51.1	49.6	51.7	51.7	51.1	102.1	99.3	103.4	103.4	102.1
50 °C	19.2	18.4	19.5	19.5	19.2	50.1	48.1	51.7	51.7	50.1	100.2	96.2	103.4	103.4	100.2
100 °C	17.7	16.2	17.7	17.7	17.7	46.6	42.2	51.5	51.5	46.6	93.2	84.4	103.0	103.0	93.2
150 °C	15.8	14.8	15.8	15.8	15.8	45.1	38.5	49.7	50.3	45.1	90.2	77.0	99.5	100.3	90.2
200 °C	13.8	13.7	13.8	13.8	13.8	43.8	35.7	48.0	48.6	43.8	87.6	71.3	95.9	97.2	87.6
250 °C	12.1	12.1	12.1	12.1	12.1	41.9	33.4	46.3	46.3	41.9	83.9	66.8	92.7	92.7	83.9
300 °C	10.2	10.2	10.2	10.2	10.2	39.8	31.6	42.9	42.9	39.8	79.6	63.2	85.7	85.7	79.6
325 °C	9.3	9.3	9.3	9.3	9.3	38.7	30.9	41.4	41.4	38.7	77.4	61.8	82.6	82.6	77.4
350 °C	8.4	8.4	8.4	8.4	8.4	37.6	30.3	40.3	40.3	37.6	75.1	60.7	80.4	80.4	75.1
375 °C	7.4	7.4	7.4	7.4	7.4	36.4	29.9	38.9	38.9	36.4	72.7	59.7	77.6	77.6	72.7
400 °C	6.5	6.5	6.5	6.5	6.5	34.7	29.4	36.5	36.5	34.7	69.4	58.9	73.3	73.3	69.4
425 °C	5.5	5.5	5.5	5.5	5.5	28.8	29.1	35.2	35.2	28.8	57.5	58.3	70.0	70.0	57.5
450 °C	4.6*	4.6	4.6	4.6	4.6*	23.0*	28.8	33.7	33.7	23.0*	46*	57.7	67.7	67.7	46*
475 °C	3.7*	3.7	3.7	3.7	3.7*	17.4*	28.7	31.7	31.7	17.4*	34.9*	57.3	63.4	63.4	34.9*
500 °C	2.8*	2.8	2.8	2.8	2.8*	11.8*	28.2	25.7	28.2	11.8*	23.5*	56.5	51.5	56.5	23.5*
538 °C	1.4*	1.4	1.4	1.4	1.4*	5.9*	25.2	14.9	18.4	5.9*	11.8*	50.0	29.8	36.9	11.8*
550 °C								12.7	15.6				25.4	31.3	
575 °C								8.8	10.5				17.6	21.1	
600 °C								6.1	6.9				12.2	13.8	

OPERATING TEMPERATURE	CLASS 800					CLASS 1500					
	A105	F5	F316	F316H	LF2	F9	F11	F22	"A105 LF2"	F22	F316
-46 °C			132.4		136.2				255.3		248.2
-29 °C/38 °C	136.2	137.9	132.4	132.4	136.2	137.9	137.9	137.9	255.3	258.6	248.2
50 °C	133.7	137.3	128.3	128.3	133.7	137.9	137.9	137.9	250.6	258.6	240.6
100 °C	124.3	134.5	112.5	112.5	124.3	137.4	137.3	137.4	233.0	257.6	211.0
150 °C	120.2	128.5	102.7	102.7	120.2	133.8	132.6	133.8	225.4	250.9	192.5
200 °C	116.8	123.4	95.1	95.1	116.8	129.6	127.9	129.6	219.0	243.4	178.3
250 °C	111.8	119.5	89.0	89.0	111.8	123.6	123.6	123.6	209.7	231.8	166.9
300 °C	106.2	114.3	84.3	84.3	106.2	114.3	114.3	114.3	199.1	214.4	158.1
325 °C	103.2	110.2	82.4	82.4	103.2	110.2	110.2	110.2	193.6	206.6	154.4
350 °C	100.2	107.3	80.9	80.9	100.2	107.3	107.3	107.3	187.8	201.1	151.6
375 °C	97.0	103.5	79.7	79.7	97.0	103.5	103.5	103.5	181.8	194.1	149.4
400 °C	92.6	97.6	78.5	78.5	92.6	97.6	97.6	97.6	173.6	183.1	147.2
425 °C	76.7	93.4	77.7	77.7	76.7	93.4	93.4	93.4	143.8	175.1	145.7
450 °C	61.3*	90.2	76.9	76.9	61.3*	90.2	90.2	90.2	115.0*	169.1	144.2
475 °C	46.5*	74.3	76.4	76.4	46.5*	84.5	84.5	84.5	87.2*	158.2	143.4
500 °C	31.4*	57.0	75.3	75.3	31.4*	75.3	68.6	75.3	58.8*	140.9	140.9
538 °C	15.7*	36.5	66.8	66.8	15.7*	46.7	39.7	49.2	29.5*	92.2	125.5
550 °C		32.1		66.5		40.0	33.9	41.7		78.2	
575 °C		23.5		63.8		27.9	23.5	28.1		52.6	
600 °C		16.2		53.1		19.1	16.3*	18.4*		34.4	

* We kindly advise NOT TO USE in that temperatures.



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