CS Y-STRAINER FLANGED TYPE CL150

Y-Pattern Strainer · Carbon Steel A216 WCB · SS304 Screen · Flanged ASME Class 150

BRAND: SW FLOW CONTROLS | SKU: p-0029 | SIZE 1.1/4" TO 6" | CLASS 150 / 19.6 BAR



FIG. 1 | CS Y-STRAINER, FLANGED CLASS 150

PRODUCT OVERVIEW

The SWBM CS Y-Strainer Flanged Type CL150 removes scale, weld slag and other solids from the line to protect pumps, control valves, meters and steam traps downstream. Flow passes through a perforated stainless steel screen held in the angled leg of the body, where debris collects clear of the main flow path.

The body and cap are investment cast carbon steel to ASTM A216 WCB. The bolted cap gives direct access to the screen for cleaning or replacement without removing the strainer from the line. Raised face flanges are drilled to ASME B16.5 Class 150.

Strainer type	**Y-pattern, bolted cap**
Screen	**Perforated stainless steel 304**
Body material	**Carbon steel, ASTM A216 WCB**
End connection	**Flanged RF, ASME B16.5 Class 150**
Pressure rating	**ASME Class 150**
Size range	**1.1/4" to 6" (DN32 to DN150)**

TECHNICAL SPECIFICATION

Body construction	**Investment casting**	Testing	**API 598**
Face to face	**Manufacturer standard**	Shell test	**3.0 MPa (30 bar)**
Flange drilling	**ASME B16.5 Class 150**	Gas seal test	**0.6 to 0.8 MPa**
Flange face	**Raised face**	Temperature range	**-29°C to +200°C**
Cap	**Bolted, ASTM A216 WCB**	Media	**Water, steam, oil products**
Cap gasket	**PTFE**	Installation	**Horizontal, or vertical downward flow**

BILL OF MATERIALS

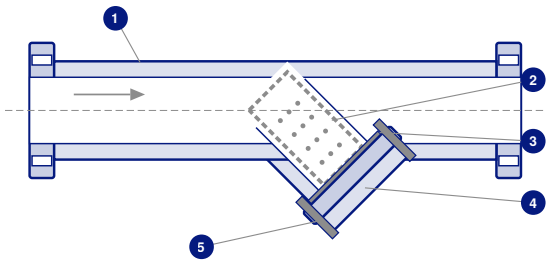


FIG. 2 | SECTIONAL ARRANGEMENT, FLOW LEFT TO RIGHT

#	COMPONENT	MATERIAL
1	Body	ASTM A216 WCB
2	Screen	Stainless steel 304, perforated
3	Cap gasket	PTFE
4	Cap	ASTM A216 WCB
5	Cap bolt	ASTM A193 B7

Cap bolts: 4, 6, 8 or 10 per size. Fine mesh lined screens, SS316 screens and a blow-off (drain) connection on the cap can be offered against enquiry.

DIMENSIONS AND WEIGHTS

SIZE	DN	BORE (MM)	L (MM)	D (MM)	PCD (MM)	RF DIA. (MM)	T (MM)	N X ØM
1.1/4"	32	32	180	117	89	64	13	4 x 15
1.1/2"	40	40	190	127	98.5	73	15	4 x 15
2"	50	50	210	152	120.5	92	16	4 x 19
2.1/2"	65	65	250	180	139.7	105	17.9	4 x 19
3"	80	80	280	190	152.4	127	19.5	4 x 19
4"	100	100	300	230	190.5	157	24.3	8 x 19
5"	125	125	350	255	215.9	186	24.3	8 x 22
6"	150	150	380	280	241.3	216	25.8	8 x 22

L = face to face length, D = flange outside diameter, PCD = bolt circle diameter, RF dia. = raised face diameter (raised face height 2 mm), T = flange thickness, n x ØM = number and diameter of bolt holes, Class 150. Dimensions are nominal and are given for guidance only. Weights and certified drawings for the supplied make and size are issued on request. 1/2" to 1" and 8" to 12" can be offered against enquiry.

ORDERING INFORMATION

FIELD	OPTIONS
Product code	p-0029
Size	1.1/4", 1.1/2", 2", 2.1/2", 3", 4", 5", 6"
Flange	Class 150 RF, ASME B16.5
Screen	SS304 perforated standard. Mesh lining on request
Order example	**p-0029 / 4" / CL150 RF / SS304 SCREEN**

Stock held in Dubai for fast despatch across the UAE and GCC. Contact our sales desk for pricing, availability, project quantities and certification requirements.

PRESSURE AND TEMPERATURE

-29°C to +38°C	**19.6 bar (285 psi)**
+100°C	**17.7 bar**
+150°C	**15.8 bar**
+200°C	**13.8 bar**

Body ratings for ASTM A216 WCB to ASME B16.34, standard class. The PTFE cap gasket limits service to +200°C. For higher temperatures specify a graphite or spiral wound gasket.

TYPICAL APPLICATIONS

- Pump suction and discharge protection
- Upstream of control valves, meters and steam traps
- Steam and condensate lines
- Fuel and lubricating oil systems
- Water supply and cooling water circuits
- General industrial process piping

COMPLIANCE AND QUALITY

- Flanges to ASME B16.5 Class 150, raised face
- Pressure testing to API 598
- Shell test 3.0 MPa, gas seal test 0.6 to 0.8 MPa
- 100% pressure tested prior to despatch
- Investment cast body and cap
- Body marked with flow direction
- Material test certificate EN 10204 3.1 on request

INSTALLATION AND OPERATION

- Install with the flow arrow on the body pointing in the direction of flow
- In horizontal lines, fit with the screen leg pointing downward
- In vertical lines, install for downward flow only
- Tighten flange bolts evenly in a crosswise sequence
- Isolate and depressurise the line before removing the cap
- Clean the screen when pressure drop rises. Fit a new cap gasket on reassembly

COMPANY

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