

Fig 33K Cast Iron Strainer

Description

The Fig 33K is a Y-type strainer with cast iron body and flanged connections. The standard stainless steel screen has the perforations listed below: 1.0 mm for DN15+DN50 range; 1.25 mm for DN65+DN80 range; 1.6 mm for DN100+DN200 range. As options, mesh versions are available. The strainer cap comes drilled and tapped for blowdown and drain valves insertion.

Standards

This product fully complies with the requirements of the European Pressure Equipment Directive 2014/68/EU.

Certification

This product is available with certification to EN10204 3.1.

Note: all certification/inspection requirements must be stated at the time of order placement.

Sizes and pipe connections

- Flanged EN 1092-2 PN16:
DN15, DN20, DN25, DN32, DN40, DN50, DN65, DN80, DN100, DN125, DN150, DN200

Optional extras

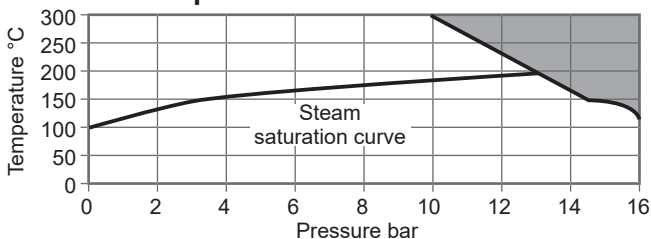
Stainless steel screen	Perforations	1,0 mm (DN15+DN50)
		1,25 mm (DN65 e DN80)
		1,6 mm (DN100+DN200)
Mesh		15, 28, 45, 100


Blowdown or drain valve connections

The cap comes drilled to the following sizes to enable a blowdown or drain valve to be fitted (valve available on request).

Strainer size	Drainage connection
15÷20	3/8"
25÷32	3/4"
40÷80	1"
80÷200	1 1/2"

Pressure/temperature limits



 The product must not be used in this region.

Body design conditions	PN16	
PMA Maximum allowable pressure	16 bar	
TMA	Maximum allowable temperature	300°C
	Minimum allowable temperature	-10°C
PMO Maximum operating pressure for service on saturated steam	13 bar	
Maximum operating temperature	300°C	
Minimum operating temperature	-10°C	
Designed for a maximum cold hydraulic test pressure of 24 bar		

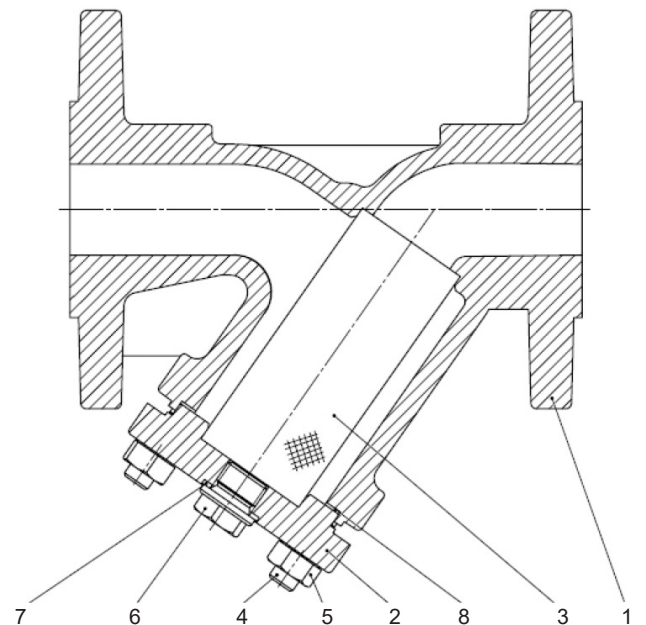


Fig 33K

Materials

N° Part	Material	Designation
1 Body	Cast Iron	EN-GJL-250 JL1040
2 Cap	Cast Iron	EN-GJL-250 JL1040
3 Strainer screen	Stainless steel	AISI 304
4 Bolts	Carbon steel	8.8-A2A
5 Hex nut	Carbon steel	8-A2A
6 Drain connection	Steel	C35E
7 Drain connection gasket	Stainless steel	A4 1.4571
8 Cover gasket	Reinforced exfoliated graphite	

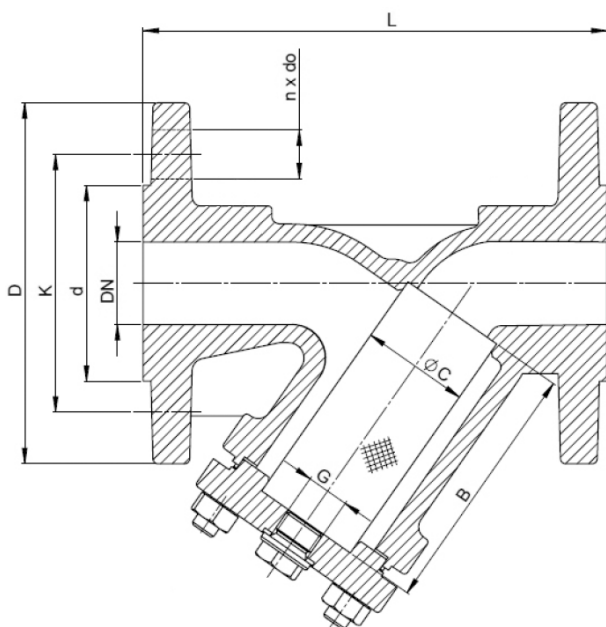
K_v values

DN	15	20	25	32	40	50	65	80	100	125	150	200
K _v	5,7	10,4	16,4	27,3	42	64,7	98	149	234	376	454	853

For conversion: C_v (US) = K_v / 0,865

Dimensions/weights (approximate) in mm and kg

PN16									
DN	L	D	d	K	nxdo	C	B	kg	
15	130	95	46	65	4x14	23	56	2,6	
20	150	105	56	75	4x14	28	68	3,0	
25	160	115	65	85	4x14	36	82	4,3	
32	180	140	76	100	4x19	42	98	6,8	
40	200	150	84	110	4x19	50	114	8,8	
50	230	165	99	125	4x19	61,5	119	11,0	
65	290	185	118	145	4x19	78,5	134	14,6	
80	310	200	132	160	8x19	89,5	149	18,6	
100	350	220	156	180	8x19	109,5	169	27	
125	400	250	184	210	8x19	137,5	199	38,5	
150	480	285	211	240	8x23	160	224	54,5	
200	600	340	266	295	12x23	210	284	110,0	



How to order

Example: 1 off DN80 Spirax Sarco Fig 33K strainer having Cast Iron body and EN 1092 PN16 flanged connections. The strainer must be supplied with a stainless steel screen having 1.25 mm perforations.

Safety information, installation and maintenance

For full details see the Installation and Maintenance Instructions (3.351.5275.203) supplied with the product.

Installation note:

The strainer should be installed on horizontal or vertical lines respecting the flow direction, as indicated on the body. On applications involving steam or gases the pocket should be in the horizontal plane. On liquid systems, the pocket (Y) should point downwards. Suitable isolation valves must be installed to allow for safe maintenance and steam trap replacement.

Maintenance

Maintenance can be completed with the strainer in the pipeline.

Pressure - Before undertaking any maintenance on the strainer carefully evaluate the characteristics of the fluid flowing in the line or previously contained in the piping. Strainer must be isolated from both the supply line and return line and any pressure allowed to safely normalise to atmosphere. The use of special Spirax Sarco depressurisation (BDV Series) simplifies the intervention. Do not assume that the valves system is depressurized even if the line pressure gauge indicates zero.

Temperature - Wait for the temperature to normalize after isolation to avoid the danger of burns. Consider whether it is advisable the use of shielding glasses or other protective clothing to safeguard against the danger, for example, caused by chemicals, high / low temperatures, risk to the eyes etc.

Warning: The cover gasket contains a thin stainless steel support ring which may cause physical injury if not handled and disposed of carefully.

Disposal

The product is recyclable. No ecological hazard is anticipated with disposal of this product providing due care is taken.

Spare parts

The spare parts available are shown in the Materials drawing (Pag. 1).

Available spares

Strainer screen	(state material, size of perforation or mesh and size of strainer)	3
Cap gasket	(packet of 3)	8

How to order spares

Always order spares by using the description given in the column headed 'Available spares' and state the size and type of strainer and perforations or mesh required.

Example: 1 - Stainless Steel Strainer screen with 1.0 mm perforations for a DN50 Spirax Sarco Fig 33K strainer.

Recommended tightening torques

Screw	N m
M8	15 - 20 Nm
M10	35 - 40 Nm
M12	65 - 70 Nm
M16	140 - 150 Nm
M24	350 - 400 Nm