spirax sarco

TI-P169-08 CMGT Issue 7

Fig 16HP Stainless Steel Strainer

Description

The Fig 16HP is a stainless steel Y-type strainer designed to remove scale, rust and other debris from the pipeline. The standard stainless steel screen is 0.8 mm perforations.

Standards

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

Certification

The product is available with a manufacturer's Typical Test Report for the body and cap as standard and EN 10204 3.1 to special order at extra cost.

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

Sizes and pipe connections

1/4", 3/6", 1/2", 3/4", 1", 11/4" 11/2" and 2"

Screwed BSP T Rp (ISO 7-1) or NPT

Socket weld ends to BS 3799 Class 3000 lb

Optional extras

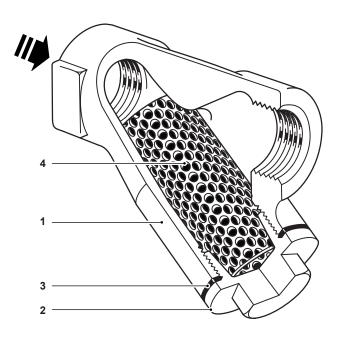
Strainer screens

Stainless steel screen	Perforations	1.6 mm and 3.0 mm		
Staimess steer screen	Mesh	40, 100 and 200		
Manalaguan	Perforations	0.8 mm and 3.0 mm		
Monel screen	Mesh	100		

Blowdown or drain valve connections

The cap can be drilled to the following sizes to enable a blowdown or drain valve to be fitted at extra cost.

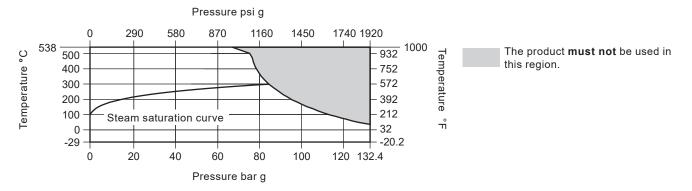
Blowdown valve	Drain valve	
1/4"	1/4"	
1/2"	1/2"	
1"	3/4"	
11/4"	3/4"	
	1/4" 1/2" 1"	



Materials

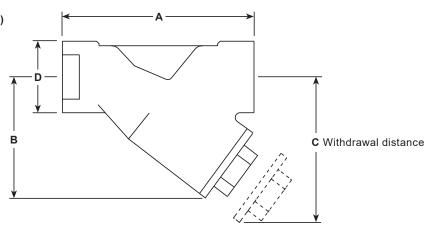
No.	Part		Material	
4	Body	1/4" to 1/2"	Stainless steel	A182 F316L/1.4404
1		3⁄4" to 2"	Stainless steel	ASTM A351 CF8M/1.4408
2	Сар		Stainless steel	ASTM A351 CF3M/1.4409
3	Cap ga	asket	Reinforce	d exfoliated graphite
4	Straine	er screen	Stainless steel	A240 316L

Pressure/temperature limits



Body design conditions		ASME Class 800
PMA Maximum allowable pressure	132.4 bar g @ 38 °C	(1920 psi g @ 100 °F)
TMA Maximum allowable temperature	538 °C @ 66.8 bar g	(1000 °F @ 969 psi g)
Minimum allowable temperature	-29 °C	(-20 °F)
PMO Maximum operating pressure for saturated steam service	85 bar g @ 300 °C	(1233 psi g @ 572 °F)
TMO Maximum operating temperature	538 °C @ 66.8 bar g	(1000 °F @ 969 psi g)
Minimum operating temperature	-29 °C	(-20 °F)
Note: For lower operating temperatures consult Spirax Sarco.		
Product is safe for use under full vacuum conditions		
Designed for a maximum cold hydraulic test pressure of:	200 bar g	(2900 psi g)

Dimensions/weights (approximate) in mm (inches) and kg (lbs)



Size	Α		В		(С	D Screening		g area cm² Weight		ight	
1/4"	70	(0.70)	F4	(0.04)	00	(0.45)				(1.06)	0.43	(0.95)
3/8"	70	(2.76)	51	(2.01)	80	(3.15)	32	(1.26)	27		0.49	(1.08)
1/2"	73	(2.87)	52	(2.05)	81	(3.19)					0.56	(1.23)
3/4"	90	(3.54)	64	(2.52)	100	(3.94)	36	(1.42)	43	(1.69)	0.72	(1.59)
1"	105	(4.13)	74	(2.91)	120	(4.72)	46	(1.81)	73	(2.87)	1.17	(2.58)
11/4"	140	(5.51)	102	(4.02)	164	(6.46)	60	(2.36)	135	(5.31)	2.35	(5.18)
11/2"	152	(5.98)	115	(4.53)	184	(7.24)	70	(2.76)	164	(6.46)	3.30	(7.28)
2"	178	(7.01)	138	(5.43)	224	(8.82)	80	(3.15)	251	(9.88)	4.95	(10.9)

Kv values

Size	1/4"	3/8"	1/2"	3/4"	1"	11/4"	1½"	2"
Perforations 0.8, 1.6 and 3 mm	1	2.6	3.6	11	15.5	26	41	68
Mesh 40 and 100	1	2.6	3.6	11	15.5	26	41	68
Mesh 200	1	2.6	2.6	9	13.0	21	35	55

For conversion: Cv (UK) = Kv x 0.963 Cv(US) = Kv x 1.156

Safety information, installation and maintenanceFor full details see the Installation and Maintenance Instructions (IM-S60-17) supplied with the product.

Warning

The strainer cap 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.

How to order

Example: 1 off Spirax Sarco 11/2" Fig 16HP strainer having screwed BSP connections with a stainless steel screen having 0.8 mm perforations.

Spare parts

The spare parts available are shown in solid outline. Parts drawn in a grey line are not supplied as spares.

Available spares

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

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 perforation or mesh required.

Example: 1 off Stainless steel strainer screen having 0.8 mm perforations for a 3/4" Spirax Sarco Fig 16HP strainer.

Note: When replacing the strainer cap coat the thread only with anti-seize compound, making sure none gets on the gasket or gasket faces.



Recommended tightening torques

Item	Size	or mm	N m	ft lbf
	1/4", 5/8" and 1/2"	22 A/F	70 - 80	52 - 59
2	3/4"	27 A/F	95 - 115	70 - 85
	1"	32 A/F	230 - 250	170 - 184
	11/4"	46 A/F	330 - 370	243 - 273
	1½"	50 A/F	380 - 420	280 - 310
	2"	60 A/F	600 - 670	443 - 494