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Flow Control

**NARVIK
YARWAY**

Narvik-Yarway covers requirements for Desuperheaters, pneumatic actuators, strainers with a wide range of models, sizes and materials to satisfy all the specifications of the power-, pulp and paper industry and process gas applications.

Features

- Forged high pressure construction for steam and water service
- Pressure class and connections:
 - ASME /ANSI B16.34 class 900 to 2500
 - EN 12516 class PN 160 to 400
 - Flanged to ANSI 1" to 3"
 - Flanged to EN 1092-1 DN 25 to 80
 - Socket weld connections to ANSI B16.11
 - Butt weld connections to ANSI B16.25 or DIN 2559
- Materials
 - ASTM SA 105 or C21 (1.0432)

Field of application

The Narvik-Yarway high pressure Strainers are die-forged in material ASTM SA 105 (C21). They are available with end connections butt weld or socket weld as standard and with flanged connections as a special option (consult Narvik-Yarway or their local representative). The strainer element is manufactured by 'TRISLOT Systems' and has a nominal aperture of 100 μ (400 μ on request). To facilitate disassembly the spacer (4) is provided with a M8 threaded hole. If a blow down connection is required then 1/2" nominal size pipe can be welded into this spacer. Refer to detail 'A' / figure 1. CE-marking, if required.



Technical data

Strainer element: 100 μ (400 μ on request)
(AISI 316 L or 1.4404)
1/2" Blow-down connection available

General application

Filtration of water used for: A.T.-Temp, A.T.S.A.-Temp, S.U.-Temp, Que-Temp and Ven-Temp Desuperheaters.



Forged high pressure Y-strainer

Model: 51

Pressure/temperature range

Forged high pressure construction for steam and water service.

Maximum service temperature 425°C.

Pressure class and connections:

- ASME/ANSI B16.34 class 900 to 2500
- EN 12516 class PN 160 to 400
- Flanged to ANSI 1" to 3"
- Flanged to EN 1092-1 DN 25 to 80
- Butt weld connections 1" to 3" to ANSI B16.25 (see * B)
- Butt weld connections DN 25 to 80 to DIN 2559 (see * B)
- Socket weld connections 1" to 2 1/2" to ANSI B16.11 (see * A)

Materials of construction

- ASTM SA 105
- C21 (1.0432)

Capacity and pressure drop with a strainer element of 100 μ at 20°C.



Special tool for disassembly

Definition

$$K_v = Q \sqrt{\frac{S.G.}{\Delta P}}$$

Q = m³/hr.

S.G. = kg/dm³

Δp = bar

Table 1

Bore	Max. flow	Kv / 100 μ	Δp / 100 μ	Kv / 400 μ	Δp / 400 μ	Schedule (max.)	Size (max.)
20.5 mm	10 m ³ /hr	8.65	1.33 bar	9.15	1.19 bar	1" / 160	DN 25 PN 400
20.5 mm	15 m ³ /hr	8.65	3 bar	9.15	2.68 bar	1 1/2" / XXS	-
30 mm	15 m ³ /hr	16.0	0.88 bar	18.5	0.66 bar	1 1/2" / 160	DN 40 PN 400
30 mm	20 m ³ /hr	16.0	1.56 bar	18.5	1.17 bar	2" / XXS	DN 50 PN 400
30 mm	25 m ³ /hr	16.0	2.42 bar	18.5	1.82 bar	3" / XXS	DN 80 PN 400

Certification

The body forging (1) and cover (5) are supplied with material certificates in accordance with EN 10204 - 3.1. All strainers are hydrostatically tested and certified in accordance with EN 10204 - 3.1. Other special tests may be performed upon request. Please consult Narvik-Yarway for further information.

Figure 1
Standard materials/dimensions (in mm)

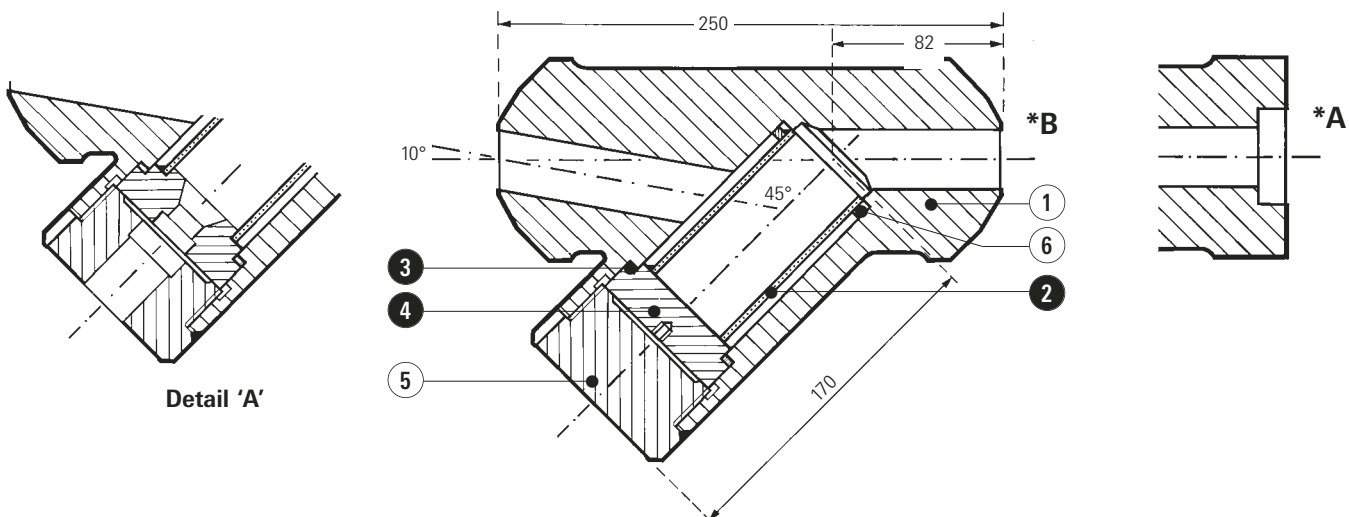


Table 2

Item	Name	Material	Equivalent
1	Body forging	ASTM SA 105	C21 (1.0432)
2	Strainer element	AISI 316 L	1.4404
3	Gasket	S.S. / graphite	S.S. / graphite
4	Spacer	AISI 316 L	1.4404
5	Cover	ASTM SA 105	C21 (1.0432)
6	Guiding ring	AISI 316 L	1.4404

● Recommended spares