

## NARVIK-YARWAY MODEL 51

### FORGED HIGH PRESSURE Y-STRAINER

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 EN-ISO 9692
- Materials
  - ASTM SA 105 or C21 (1.0432)
 Capacity and pressure drop with a strainer element of 100  $\mu$  at 20°C.

#### GENERAL APPLICATION

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

#### 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.

#### TECHNICAL DATA

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

#### 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  $\mu$  (400  $\mu$  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.



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## FORGED HIGH PRESSURE Y-STRAINER

### 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 EN-ISO 9692 (see \* B)
- Socket weld connections 1" to 2½" to ANSI B16.11 (see \* A)



Special tool for disassembly

### Definition

$$K_V = Q \sqrt{\frac{S.G.}{\Delta p}}$$

Q = m<sup>3</sup> / hr.

S.G. = kg/dm<sup>3</sup>

Δp = bar

TABLE 1

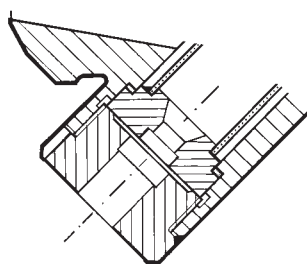
Bore mm	Max. flow (m <sup>3</sup> /hr)	K <sub>V</sub> / 100 μm*	Δp / 100 μm (bar)	K <sub>V</sub> / 400 μm**	Δp / 400 μm (bar)	BW max. Sch.	SW Class	Size DN
20.5	10	8.65	1.33	9.15	1.19	1	9000	DN 25 PN 400
20.5	15	8.65	3.00	9.15	2.68	1½	3000/6000/9000	-
30.0	15	16.00	0.88	18.50	0.66	1½	3000/6000/9000	DN 40 PN 400
30.0	20	16.00	1.56	18.50	1.17	2	3000/6000/9000	DN 50 PN 400
30.0	20	16.00	1.56	18.50	1.17	2½	3000	-
30.0	25	16.00	2.42	18.50	1.82	3	-	DN 80 PN 400

\* 100 μm = US mesh 150

\*\* 400 μm = US mesh 42

FIGURE 1

Standard materials/dimensions (in mm)



Detail 'A'

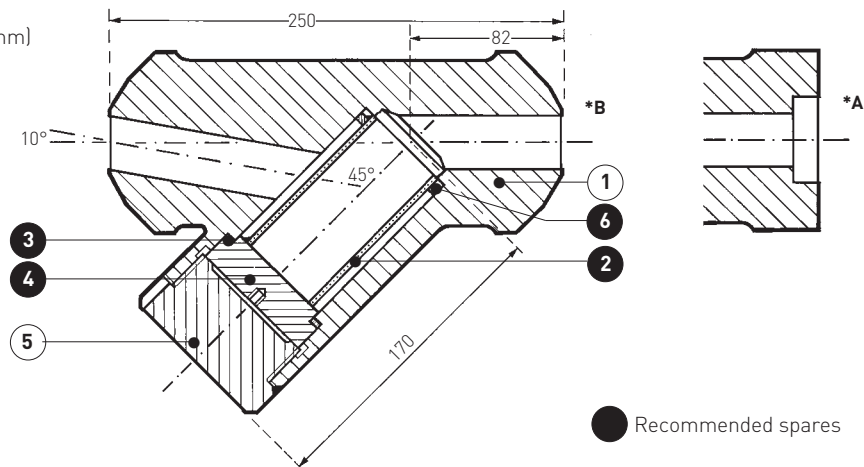


TABLE 2

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

\* Supplied as one (welded) spare part



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