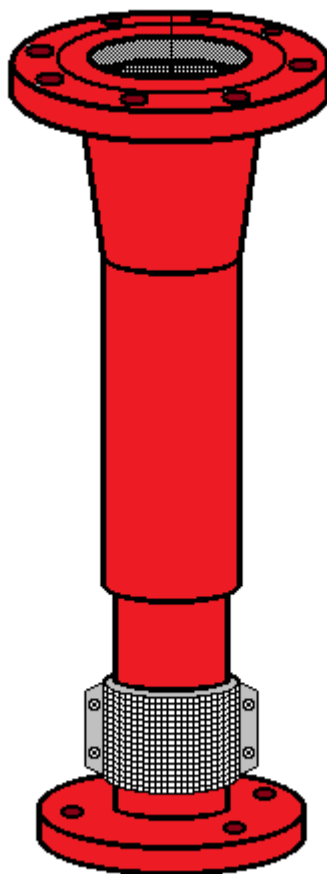



NP – 56

FOAM MAKER



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1 BASIC DATA

1.1 Name, trade name, model marking

Foam maker, NP-56

1.2 Supplier

Technica, s.r.o.
Za Mototechnou 1114/4
155 00 PRAHA 515
Czech Republic
Tel.: 251 615 017, fax: 602 287 510
e-mail: info@technica.cz

2 USE OF THE PRODUCT

NP-56 foam maker serves to make the fire fighting foam from the foaming solution and to deliver it on the place of the fire. It is used as an application device in fire fighting fix systems protecting fuel storage tanks, fuel storage tank pits and other establishments where the low expansion foam is to be used and where the application device must prove sufficient mechanical and heat resistance. The foam maker works in pressure range from 2 to 8 bar. It is produced in two modifications (NP-56/385 and NP-56/1600) which differ one from each other by flow rate.

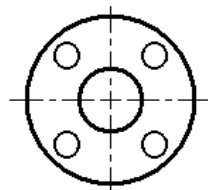
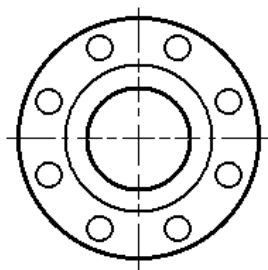
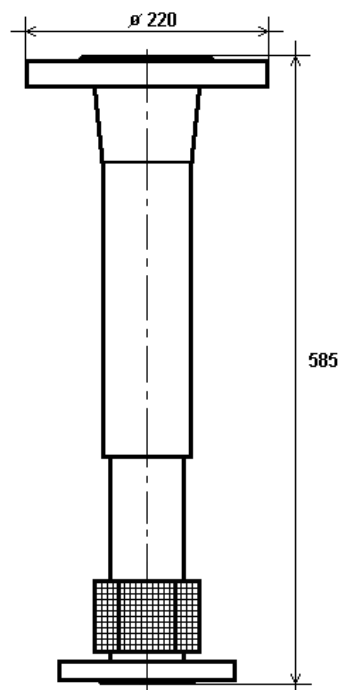
3 DESCRIPTION

Foam maker body is welded of steel parts. The product meets requirements of long life of the product, of the heat resistance and is tested according to the EN 13565-1 international standard.

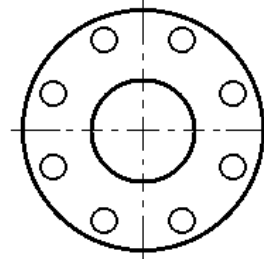
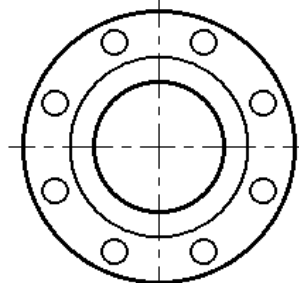
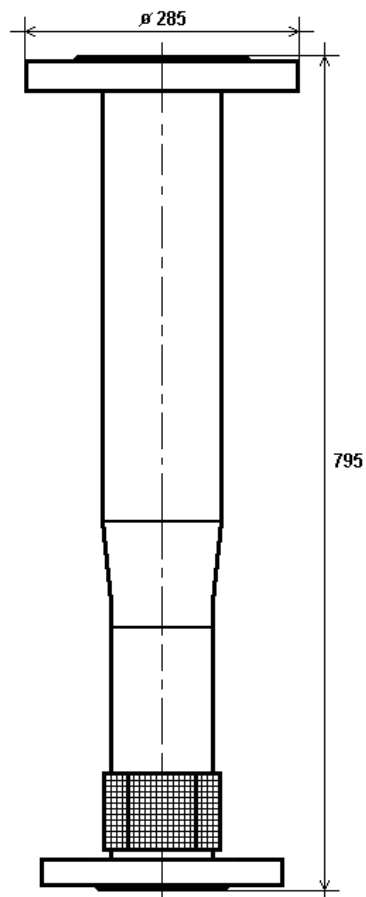
Foam maker body has a cylindrical shape, the inlet and outlet are equipped with standard flanges. The basic dimensions of the foam maker body are shown in Fig.1. The product is delivered coated with primer painting as a standard.


Fig. 1 – Basic dimensions of the foam maker body. Dimensions are in mm. The mutual position of flanges (seen from outlet to inlet) is shown in the lower part of the figure.

NP-56/385



NP-56/1600



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4 TECHNICAL DATA

Quantity, unit	Modification	
	NP-56/385	NP-56/1600
Weight of the body (kg)	12,5	24,5
Weight of the set (kg)	20,5	39,5
Min. flow rate (l/min) at pressure (bar)	155	530
	2	2
Max. flow rate (l/min) at pressure (bar)	1250	3500
	8	8
K-Factor	110-440	375 - 1235
Expansion ratio*	5 - 10	5 - 10
Inlet connection**	Flange DN65PN16 ČSN 131224.0	Flange DN100PN10 ČSN 131223.0
Outlet connection**	Flange DN100PN10 ČSN 131223.0	Flange DN150PN10 ČSN 131223.0

* With foaming concentrate meeting EN-1568-3 or EN 1568-4 standard.

** The product can be equipped with flanges of another standard (e.g. DIN, ANSI). Please consult the supplier.

5 OPERATION DATA

5.1 Ordering information

For correct ordering, the modification, flow rate and operation pressure should be given by the client, e.g.: NP-56/385, flow rate 530 l/min at pressure 5 bar.

5.2 Packaging

The products are delivered on Euro palettes (6 units of NP-56/385 or 4 units of NP-56/1600 on a palette) or free without package. Accessories (flange gaskets, bolts etc.) are delivered in cardboard box.

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5.3 Stocking

Before installation and final coating, the product should be stocked in covered stores that ensure sufficient protection against atmospheric effects. Except above mentioned the product does not need any special treatment.

5.4 Assembling

Complete set consists of the following parts:


NP-56/385

Cat. No.	Part denomination	Quantity
832011	Foam maker body	1
832012	Inlet flange gasket	2
832013	Inlet orifice plate	1
832014	Outlet flange gasket	1
832015	Mounting pad gasket	1
832016	Mounting pad	1
832017	Deflector	1
832018	Inlet flange screw set (bolts, washers, nuts)	1
832019	Outlet flange screw set (bolts, washers, nuts)	1
832020	Mounting pad screw set (washers, nuts)	1

NP-56/1600

Cat. No.	Part denomination	Quantity
833011	Foam maker body	1
833012	Inlet flange gasket	2
833013	Inlet orifice plate	1
833014	Outlet flange gasket	1
833015	Mounting pad gasket	1
833016	Mounting pad	1
833017	Deflector	1
833018	Inlet flange screw set (bolts, washers, nuts)	1
833019	Outlet flange screw set (bolts, washers, nuts)	1
833020	Mounting pad screw set (washers, nuts)	1

Assembling of the foam maker is explained in Fig. 2.

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5.5 Installation

The foam maker is usually installed on the external side of the tank wall (tank pit wall) on the mounting pad welded to the foam inlet orifice. The foam maker can be fixed directly to the mounting pad or through a shaped foam piping (DN100 for NP-56/385 and DN150 for NP-56/1600). A suitably shaped foam piping allows to mount the product in a vertical position to save the space and ensure comfortable maintenance (see Fig. 2). The deflector is mounted on the opposite side of the wall. It can be fixed with nuts on the mounting pad bolts or welded directly to the tank wall in the horizontal position so that its upper edge were positioned tangentially to the foam inlet orifice. Dimensions for fixing of the mounting pad are shown in Fig. 3.

It is recommended to protect the product against atmospheric effects with a suitable final coating. Please pay attention not to obstruct protective grid at the inlet of air (see Fig. 2, pos. 8).

5.6 Mode of use, operation instruction

N/A

5.7 Maintenance

The foam maker does not need any special maintenance. Visual verification should be performed in regular intervals recommended by the manufacturer of the fix system. The verification should concern the fixing of the foam maker body and free passage of the outlet orifice. According to the recommendation of the manufacturer of the fix system, operation test should be performed. Flushing with clear water is recommended after any test of operation with use of foaming agent.

Fig. 2 – Assembling of the foam maker.

1 – inlet flange gasket, 2 – Inlet orifice plate, 3 – foam maker body, 4 – Outlet flange gasket, 5 – Mounting pad gasket, 6 – Mounting pad, 7 – deflector, 8 – protective grid at the inlet of air

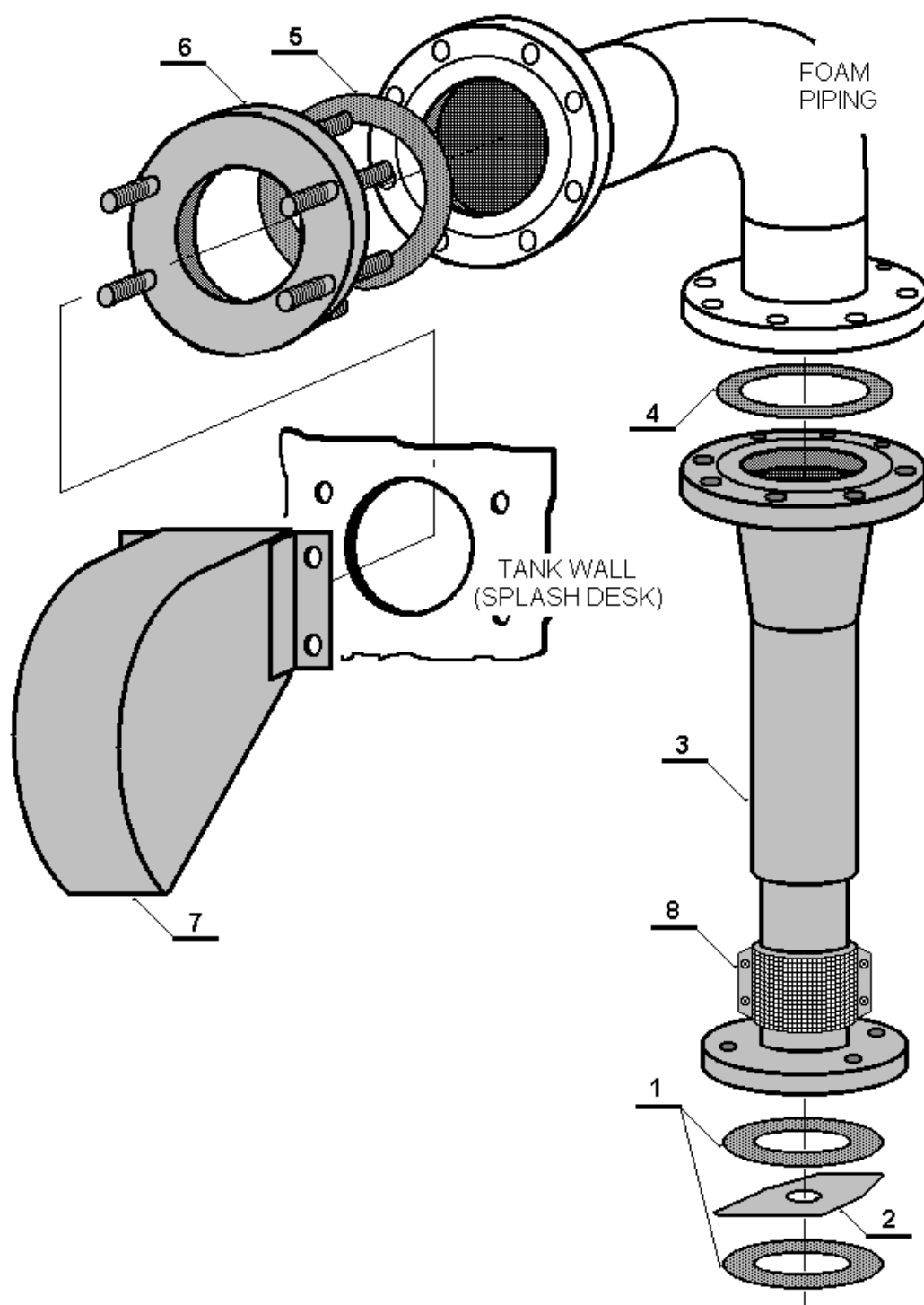
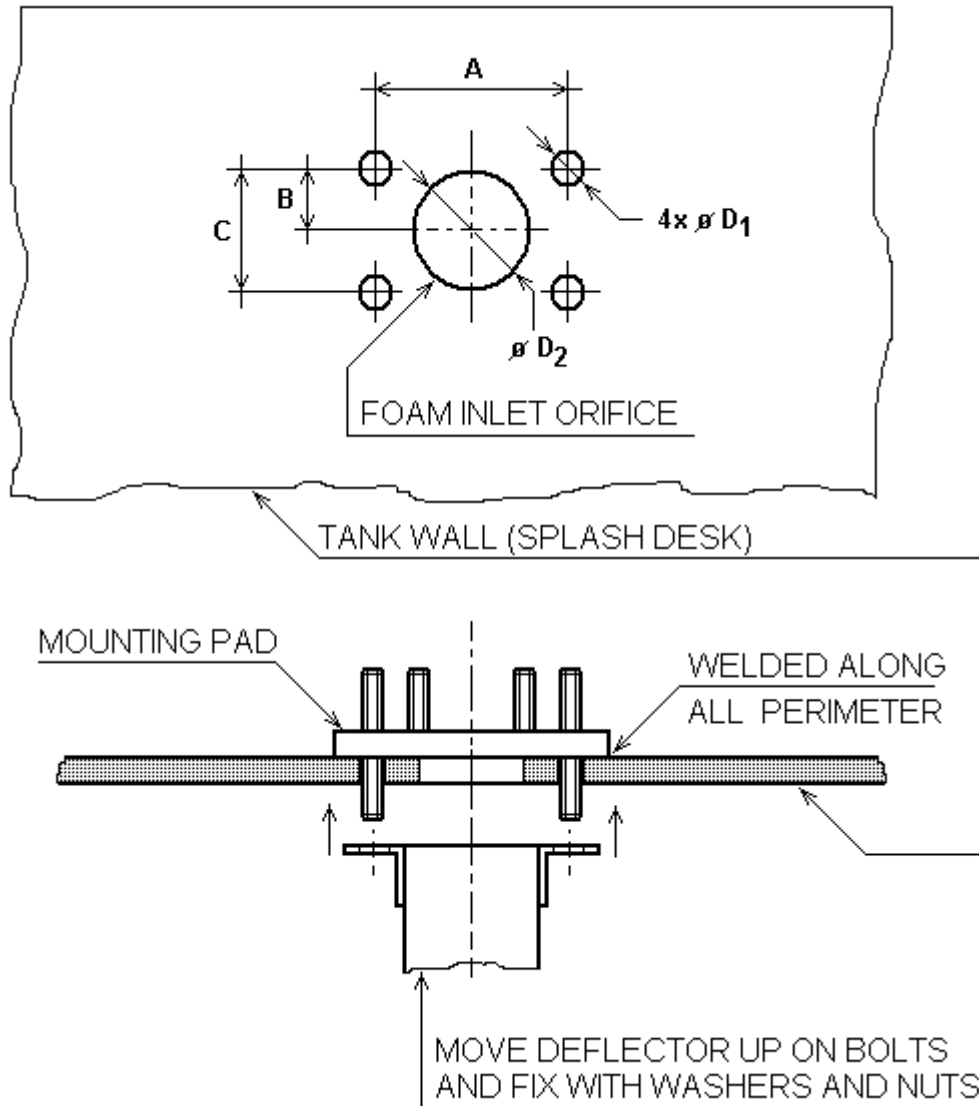


Fig. 3 – Installing the foam maker with use of the mounting pad. Dimensions in mm are shown in the table below.



Dimension	Modification	
	NP-56/385	NP-56/1600
A	165	222
B	36	49
C	68	92
D ₁	20	25
D ₂	110	160