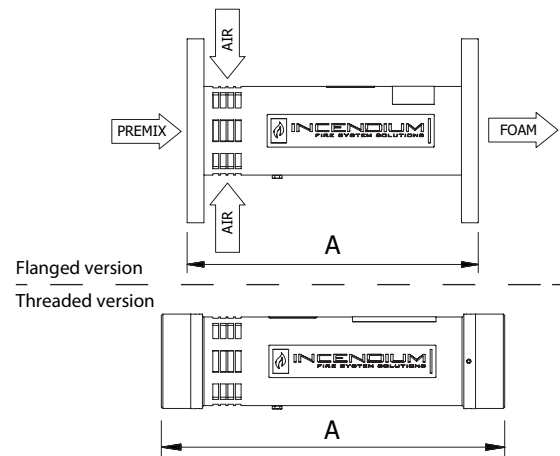


High Back Pressure Foam Generator

The High Back Pressure Foam Generator (TSR) is a generator intended for fixed installation. It is generally used for subsurface and semi-subsurface foam application through a BISS unit or similar in storage tanks containing flammable liquids.

The generators are used with most types of foam systems like foam pumps, bladder tanks or in-line proportioners. The TSR is designed to introduce air into a water/foam-concentrate mix and is made according to customer specific data.

The TSR produces a uniform slow draining foam of a nominal expansion ratio at 4:1.



DIMENSIONAL DATA

Model	Length A [mm]	Connection	Weight [kg]
TSR-50	210	DIN DN50 PN16 or 2" ANSI 150lbs	6
TSR-50 T	292	2" BSP Female	2
TSR-80	280	DIN DN80 PN16 or 3" ANSI 150lbs	11
TSR-80 T	388	3" BSP Female	4,5
TSR-100	352	DIN DN100 PN16 or 4" ANSI 150lbs	14
TSR-100 T	411	4" BSP Male	5,5

All parts have been selected for reliable and trouble free service using corrosion resistant materials for low maintenance.

Material:

Body:	Stainless steel (316/316L)
Nozzle:	Polyoximethylene (POM)
Flange*:	Stainless steel (316/316L)

*If flanged version

Product Features

- Stainless steel body
- Easy to install
- Maintenance free design
- Suitable vertical or horizontal installation
- Different types of connections available (flanged or threaded as standard)
- Designed and tested according to EN 13565-1, EN13565-2 chapter 5.2.3.2

PERFORMANCE DATA

Model	Inlet pressure [bar]	Water Capacity [l/min]*	Foam Expansion ratio **
TSR-50	6-16	100-750	4:1
TSR-80	6-16	750-1400	4:1
TSR-100	6-16	1400-2400	4:1

* at 7 bar

** Depending on foam concentrate type

The TSR allows a high back pressure of up to 40% of inlet pressure. For flows in 50%-100% range of each unit, customers should widen downstream pipe by one size (e.g., a TSR-80 at 70% capacity requires a DN100 pipe downstream)