

# FYREXTRA

## FOAM CHAMBER POURER SETS

Foam Chamber-pourer sets are an integral part of tank farm fire protection systems.



### PRODUCT OVERVIEW

These end of line devices introduces expanded foam onto the surface of flammable liquids with minimal submergence and fuel agitation. This ensures formation of an effective foam blanket and superior extinguishing capabilities.

The Knowsley SK Fyrextra range is designed and manufactured to the highest standards and classified as a Type II discharge device as stipulated by NFPA11

**We know fire. We know safety. We know you.**

Established in 1896, Knowsley SK Ltd. has an enviable reputation for manufacturing quality fire fighting equipment and systems for high value asset protection that can be relied upon when danger strikes.

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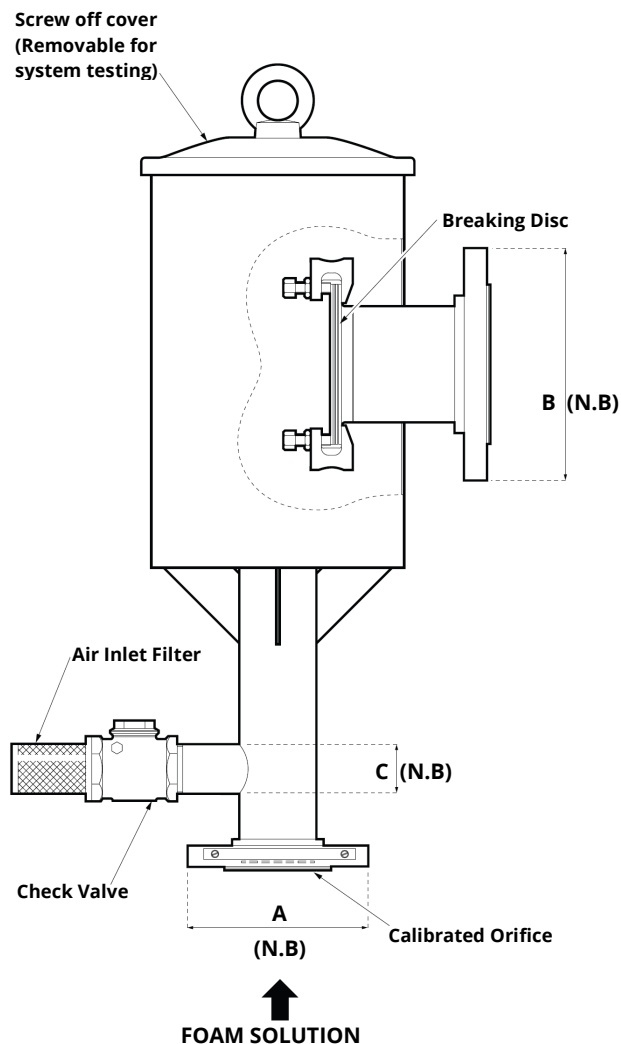
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**PRODUCT DETAILS**

- Choice of six different sizes to suit a wide range of flow rates
- Suitable for use with all available foam concentrates
- Factory calibrated to match specific flow and pressure ensuring superior foam quality
- Integral check valve prevents loss of foam solution
- System testing without discharging foam into storage tank
- Simple maintenance
- Anti-corrosion protective coating
- Held in stock for quick delivery.



**Figure 1** Foam Chamber

**PRODUCT DETAILS**

The Knowsley Fyrextra Foam Chamber Pourer sets are designed to introduce fire fighting foam onto the surface of flammable liquids contained in bulk storage tanks. This application is achieved with minimum of foam submergence and fuel agitation as stipulated by NFPA 11 to classify as a type II Discharge Device.

The chamber-pourer sets comprise a foam expansion chamber with integral

foam maker and a foam pourer (deflector) which directs the expanded foam towards the internal tank wall thus achieving the required gentle application. A stainless steel nozzle at the chamber inlet is specially calibrated to ensure the correct performance at a specified pressure. Air is entrained with the foam solution via a screened intake and check valve. Once the foam solution/air mixture passes into the foam chamber it expands

and the glass breaking disc bursts to enable an unrestricted flow of expanded foam into the tank.

The breaking disc assembly (Figure 2) is accessible via a removable top cover which enables simple maintenance of the glass breaking disc and also permits testing of the pourer without discharging into the tank. A lifting eye is fitted to the top cover for ease of initial installation.

**OVERALL DIMENSIONS**

Overall dimensions are shown in Table 1.  
See Figure 1 for corresponding annotations.

**Table 1** Overall Dimensions

MODEL	A	B	C	WEIGHT Kg.
FYREXTRA FC-2	2"	3"	1.5"	19
FYREXTRA FC-3	2"	4"	1.5"	21
FYREXTRA FC-4	3"	4"	2"	24
FYREXTRA FC-6	3" – 4"	6"	2"	40
FYREXTRA FC-8	4"	8"	2"	45
FYREXTRA FC-10	6"	8"	3"	55

**Table 2** Performance Data

MODEL	
FYREXTRA FC-2	200 - 450 L/min
FYREXTRA FC-3	200 - 450 L/min
FYREXTRA FC-4	500 - 1260 L/min
FYREXTRA FC-6	1260 - 2600 L/min
FYREXTRA FC-8	1260 - 2600 L/min
FYREXTRA FC-10	2600 - 4000 L/min

**PRODUCT MATERIALS**

The Foam chamber is manufactured from the following high grade materials:

**Body:** Carbon Steel / stainless steel AISI 304

**Connection:** Flanged UNI or ANSI made in carbon steel A 105

**Nozzle:** Stainless steel AISI 304

**Vapor seal device:** Glass (note: On request vapor seal manufactures in graphite)

**Air Inlet Strainer:** SS A 304

**Check valve:** Brass

**STANDARD PAINTING CYCLE**

**Surface priming:**

Brushing / Chemical washing

One coat of Epoxyvinyllic Thk.50 Micron

Internal and external

**Finish:**

Polyurethanic Red Ral 3000 Thk.50 Micron

**Total thickness:** = min 100 Microns

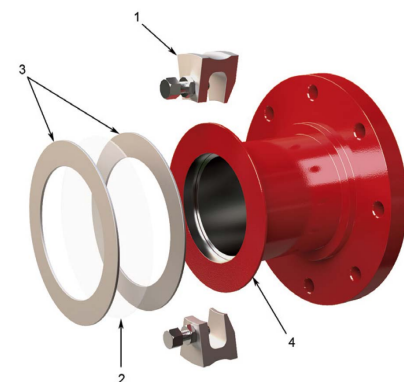
**SPARES INFORMATION**

Please contact our dedicated spares department for components listed here (see Figure 3 for corresponding data):  
[spares@knowsleysk.com](mailto:spares@knowsleysk.com)

1. Fixing device
2. Breaking Disc
3. Gasket
4. Motorsil 'D' sealant.



**Figure 2** Breaking disc detail



**Figure 3** Spares detail

**ACCESSORIES OVERVIEW**

Accessories available for this product are listed below.

1. Foam Pourer Model Fyrextra FP (Figure 4)
2. Foam Pourer Model Fyrextra FP External (Figure 5)

Foam Pourer model Fyrextra FP is installed inside the storage tank and ensures a gentle application of foam solution to the surface of the product. 4 sizes are available as detailed below.

Foam Pourer Model FP External is a bespoke unit fabricated to suit existing tank nozzles and enables installation from outside the tank

**ACCESSORIES DIMENSIONS**

Foam pourer dimensions are shown in Table 3. See Figure 4 for corresponding annotations.

Fyrextra FP External is a bespoke unit - dimensions to suit individual requirements.

**ACCESSORY MATERIALS**

The Foam chamber is manufactured from the following high grade materials:

Body: Carbon Steel / stainless steel AISI 304

Connection: Flanged UNI or ANSI made in carbon steel A 105

**STANDARD PAINTING CYCLE**

**Surface priming:**

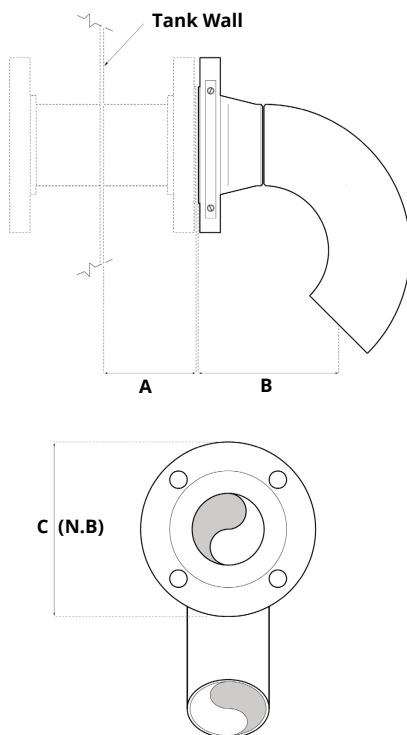
Brushing / Chemical washing

One coat of Epoxyvinyllic Thk.50 Micron

**Finish:**

Polyurethanic Red Ral 3000 Thk.50 Micron

Total thickness: = min 100 Microns



**Figure 4** Foam Pourer - model Fyrextra FP



**Figure 5** Foam Pourer - Fyrextra FP External

**Table 3** Foam Pourer dimensions

MODEL	SIZE			WEIGHT Kg.
	A (max)	B	Ø C	
FYREXTRA FP3	100	152	3"	7
FYREXTRA FP4	100	185	4"	11
FYREXTRA FP6	100	252	6"	21
FYREXTRA FP80	150	320	8"	41

