MEX Bund Pourers

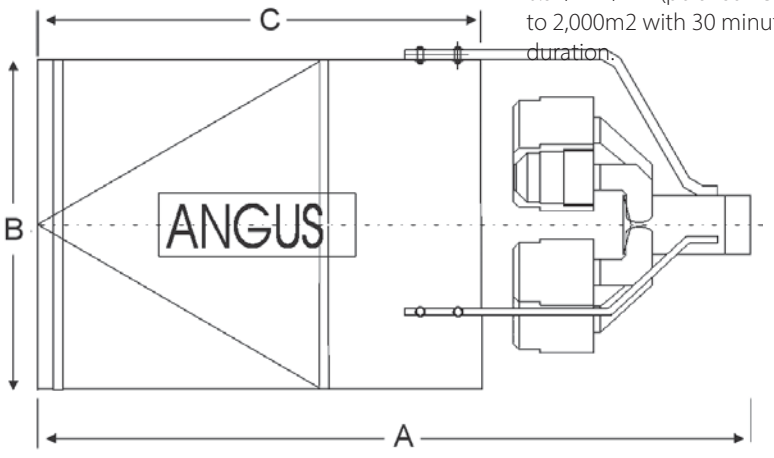
Designed for rapid foam coverage of bunded and diked areas

- Fast, effective, deep foam blanketing at low inlet pressures
- Reliable vapour and fire control over rough surfaces
- MEX foam safely submerges leaking valves and pipes
- Compact, robust and cost-effective bund/dike protection

Angus Medium Expansion (MEX) Bund Pourers are designed for fire protection systems and vapour suppression on bunded or diked areas surrounding flammable liquid or toxic chemical storage tanks. They are also suited for other applications requiring large volumes of free flowing foam eg. process areas, warehousing, cable tunnels, and diverse confined spaces protection.

Storage Tank bund or dike fires, because of their large surface area, are notoriously difficult to control and extinguish. Spillages in these bunded areas are common and have caused several major tank fires.

Significant quantities of unignited fuel can spread rapidly from leaking valves, flanges, cracked pipes, overfill relief systems, boil-overs and even routine maintenance, within the bunded area, threatening personnel and plant safety. Serious incident escalation results from ignition of these flammable vapours.



Fast, Efficient Blanketing

The most efficient and cost-effective way of quickly controlling these hazards is with a permanently installed Medium Expansion Bund Pourer system. The high performance Angus MEX Bund Pourer range has been specifically designed to effectively extinguish fires and control vapours in such large, high-risk areas.

Each MEX unit produces a large volume of free flowing but stable foam, providing rapid coverage, while keeping pipework and valving covered by the deep foam blanket. Such gentle, but rapid, foam application minimises mixing and contamination of foams by the fuel. It also reduces risk of escalation, as leaking fuel is often contained beneath the protective MEX foam blanket. The cohesive nature of AR-foams also minimises adverse effects of wind over these large surface areas.

MEX bund Pourers are highly effective when used using EN13565-2 recommended application rates of 4.1L/min/m2 (hydrocarbons) and 6.5L/min/m2 (polar solvents) for areas up to 2,000m2 with 30 minutes planned duration.

Most Effective At Low Pressures

The Angus MEX range comprises three larger flow pourers and two with smaller flows, to suit a wide range of application needs with these lightweight, compact and robust units. Foam solution flows range from 104 to 1800 litres per minute at inlet pressures of just 1.5 to 2.5 bar g.

Operating at such low pressure minimises pumping capacities and water requirements, ensuring a reliable, cost effective and maximised output from such MEX bund pourer foam systems.

These MEX units are particularly effective when used with Angus foam concentrates (whether fluorinated or fluorine-free) and rich polar solvent settings deliver maximum stability. Expansion ratios are typically around 4055:1 with AR-foams at optimum 2.5 bar g. g. inlet pressures.

- 55:1 with AR-foams at optimum 2.5 bar

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Specification						
		MEX 225 FI	MEX 450 FI	MEX 600 FI	MEX 1200 FI	MEX 1800 FI
Nozzle Quantity				3	6	9
Dimensions	A (mm)	410	540	630	905	920
	B (mm)	164	216	300	420	520
	C (mm)	350	475	397	608	648
Inlet Connection		2" BSP Taper (M)		2" BSP Taper (M)	2.5" BSP Taper (M)	3" BSP Taper (M)
Materials	Pipework Spider	Al. Alloy (powder coated)		Carbon Steel - Yellow Thermoplastic Powder Paint Finish		
	Nozzles	Brass, Ni/Cr Plated		Brass/Gunmetal Natural Finish		
	Pourer Tube	Stainless Steel to BS970 316S31				
	Internals	Stainless Steel to BS970 316S31				
	Screws, Nuts, Washers	Stainless Steel A2				
Approximate Weight		1.9 Kg	4.5 Kg	8.5 Kg	16 Kg	24.5 Kg

Performance Data (Typical)					
	MEX 225 FI	MEX 450 FI	MEX 600 FI	MEX 1200 FI	MEX 1800 FI
K Factor*	85	180	380	759	1138
Operating Pressure Range	1.5 - 3.5 bar g		1.5 - 2.5 bar g		
Optimum Flow Rate @ 2.5 bar g Inlet Pressure	134 litres/min	285 litres/min	600 litres/min	1200 litres/min	1800 litres/min
Typical Expansion Ratio (using AR-foam**)	55:1		40:1		
Typical Foam Output @ 2.5 bar g (using AR-foam**)	7m³/min	15m³/min	24 m³/min	48 m³/min	72 m³/min

* Flow (litre/min) = K√P where P = pressure in bar g

** Note: AR-foam can be used effectively through MEX Pourers at hydrocarbon induction settings although optimum foam stability is usually achieved at often richer polar solvent proportioner settings. (This accepts that AR-AFFF, AR-FFFP, AR-F3 have similar stability and are more likely to be a useful benchmark in future as F3s are increasingly used in such systems).

GENERAL SALES
Angus Fire Ltd
Station Road, Bentham, Lancaster, LA2 7NA, UK
Tel: +44 (0)1524 264000

Email: general.enquiries@angusuk.co.uk • Web: www.angusfire.co.uk

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