## **FOAM EQUIPMENT**

### Low expantion water / foam nozzle



A classic fire fighting component, in the two models pendent and upright, made our of a cast brass body and an impact dish studied for optimal jet distribution.

The liquid mix of water and foam agent is first broken inside the body by impact onto a fix member and then distributed by the bottom dish with an angle up 95° and an expansion ratio of about 1:7.

The applied density (flow per unit of area) of foam solution must meet the requirements of the Authority Having Jurisdiction for the type flammable liquid and occupancy. Per NFPA 16, coverage density must not be less than 0.16 GPM/ft2 (6,52 mm/min) of floor area with a resulting minimum discharge pressure of not less than 30 psi (2,1 bar). Foam-water sprinkler spacing must not exceed the requirements of NFPA 13 for extra hazard occupancies and the

RG COVERAGE EXAMPLE (K = 23,5 lpm/bar 1/2 COVERAGE EXAMPLE Inting height [ft] т

system must be hydraulically calculated to obtain the required density and discharge pressure.

We can supply coverage diagrams for water and foam mix at different pressures

### Materials

Rody

T52 - Naval brass

The nozzle is entirely made out stainless steel, connection nipple, body and deflector plate and provides foam with an expansion rate of about 1:10.

#### Pendent nozzle

Code	Сара	city in Ipm for p	Weight	Expansion rate		
	1.0	3.0	5.0	7.0	kg	
URK A080 T52DB	36	62	80	95	0.54	1:7
URK A090 T52DB	40	69	90	106	0.54	
URK A100 T52DB	45	77	100	119	0.54	



**URK-A** 

URK nozzles allow to obtain an expantion rate of 1:70 thanks to their double stainless steel screens. Their robust construction in high quality stainless steel makes them suitable for mobile service.

Capacity in Ipm for pressure values in Bar

5.0

80



Weight

kg

1.1

Pressure range

bar

3 to 8

Dish	B2 - AISI 304 stainless steel
<b>Options</b> Nickel plated body	

These nozzles provide a foam projection onto specific points where a fire hazard can be expected.

Code

URK C058 B31

Expansion rate

1:70

# FOAM EQUIPMENT Medium expansion foam nozzle



Medium expansion foam nozzles in the URK series have been designed according to the Venturi principle and produce a fractionated jet of foam mix which takes in air before impacting at high speed against a stainless steel mesh screen. Their expansion rate and inherent safety make them the best device for protection systems onto loading and unloading bays for hydrocarbon products.



Code	Capacity in	pm for pressure	values in Bar	Weight	Expansion rate
	2.0	3.0	5.0	kg	(*)
URK F050 T5EB	21	37	50	1.20	1:17
URK G050 B2EB	39	47	50	0.70	1 : 20
URK G075 B2EB	54	66	85	0.75	1 : 20
URK G100 B2EB	63	78	100	0.75	1 : 20
URK H110 B2EB	90	110	140	1.60	1:17

(\*) Expansion rate values are given for pressure = 2 bar and differ based on the outlet mesh size and the foam concentrate type

#### Materials

Nozzle

Mesh screen Body

URK-F Other types AISI 316 stainless steel Brass AISI 304 Brass

