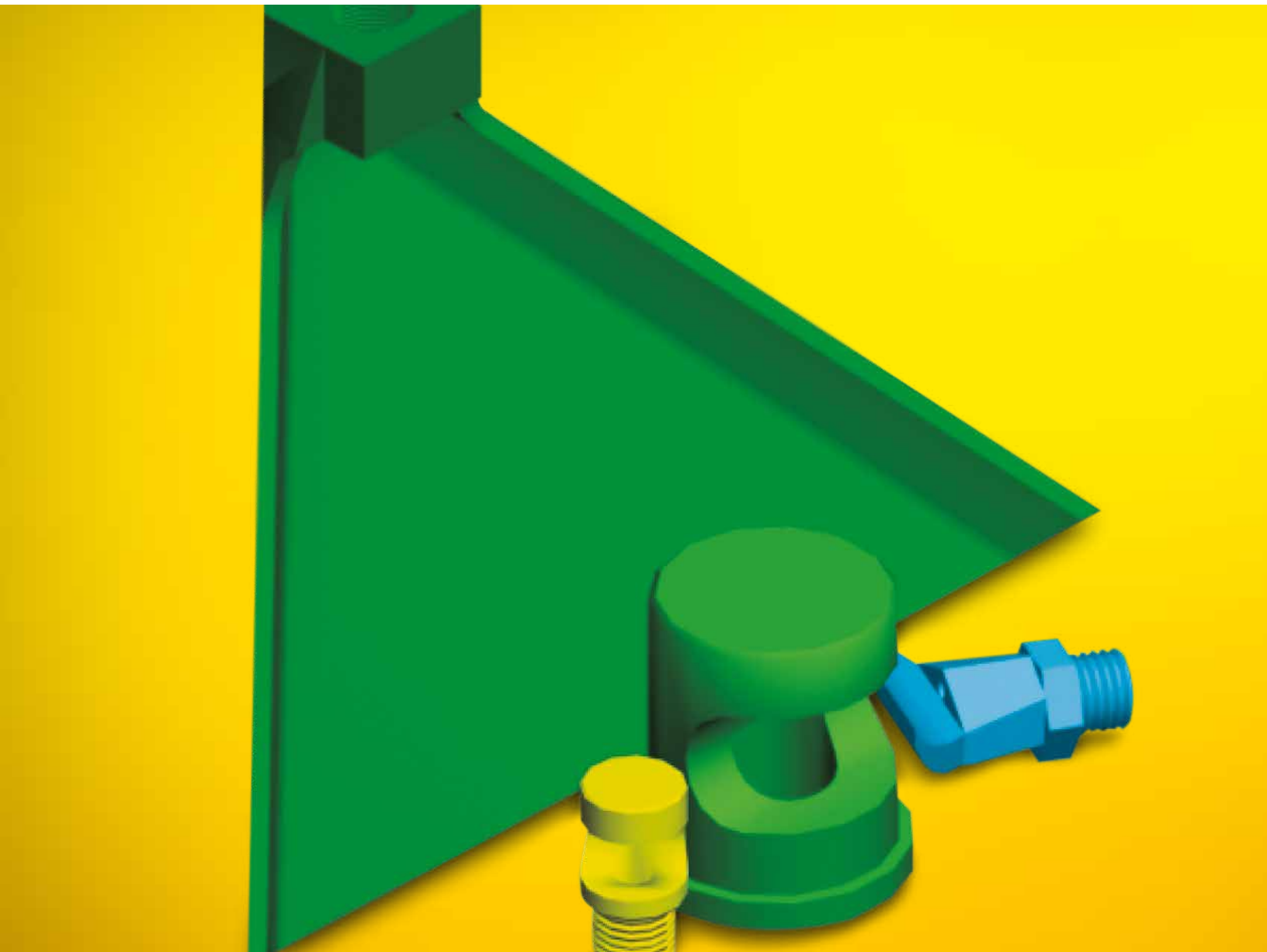


**TEMA ISENMANN**

## Polyurethane Flood and Spray Nozzles



Screening Media

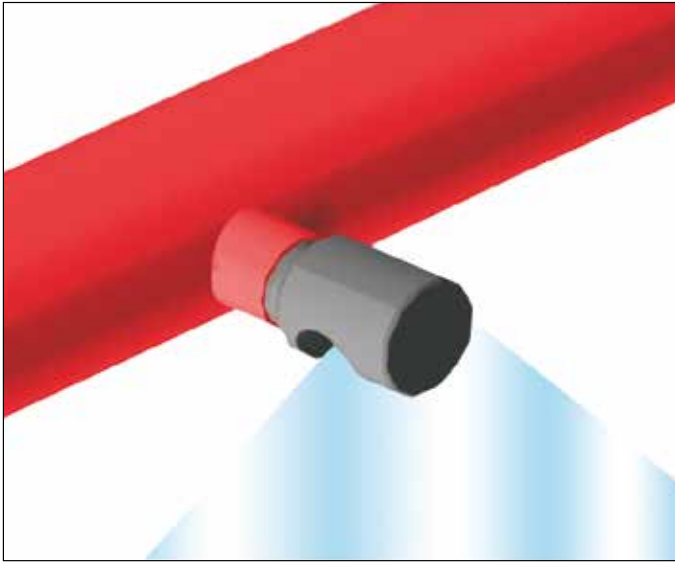
# Polyurethane Flood and Spray Nozzles

## Flood Nozzles

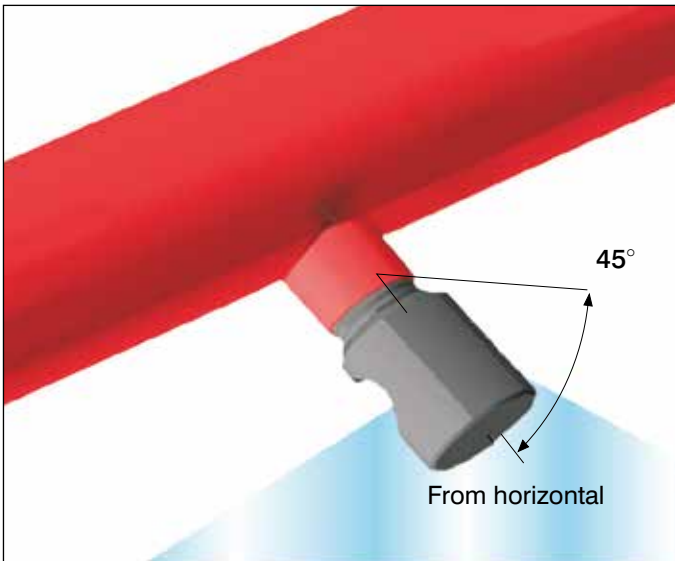
Multotec's Flood Nozzle design reduces downtime and ensures constant, efficient operation. Multotec Flood Nozzles are manufactured from abrasion resistant polyurethane, ensuring long life. They replace two or three conventional spray nozzles with one, by utilising a 120 degree spray angle.

The orifice diameter for standard sizes (Heavy Duty 18 mm and 10 mm) facilitates uninterrupted flow by reducing blockage problems from contaminated water.

## Mounting

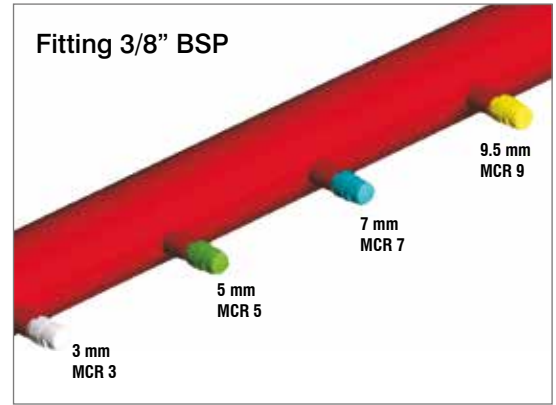


The Flood Nozzle can be mounted horizontally behind the pipe spray, reducing the possibility of damage or loss by positioning the nozzle out of the flow of the screen material.

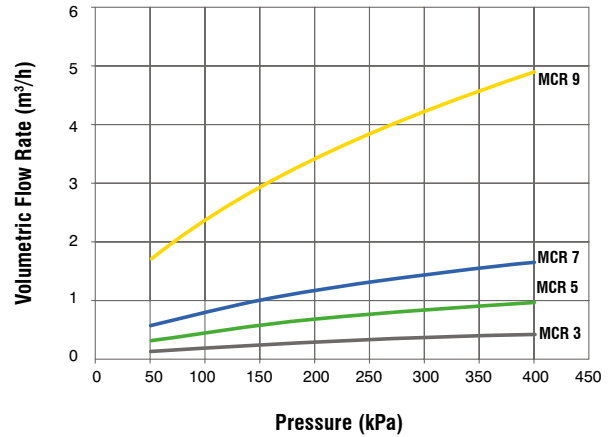


The Flood Nozzle can be mounted at an angle of up to 45 degrees into the flow to tumble material and to improve screening efficiency

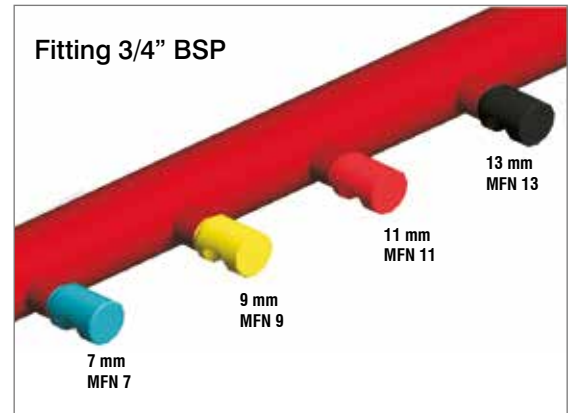
## Micro Flood Nozzle



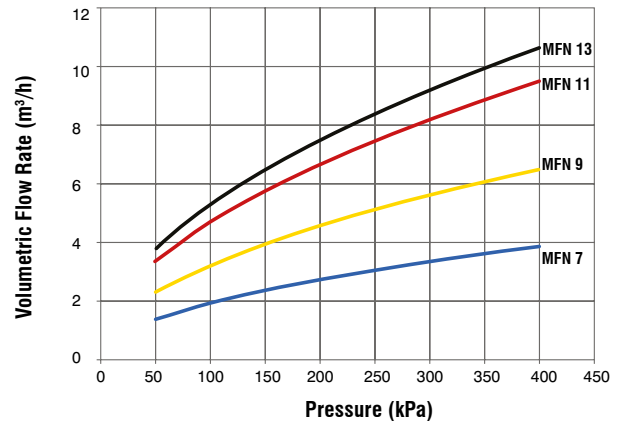
Micro Flood Nozzle Flow Rates



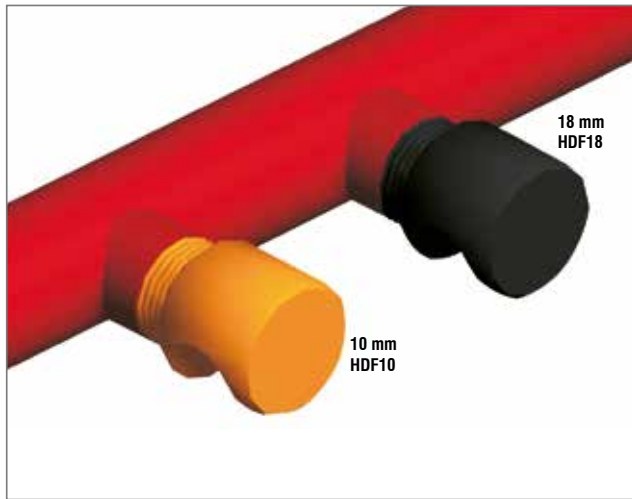
## Mini Flood Nozzle



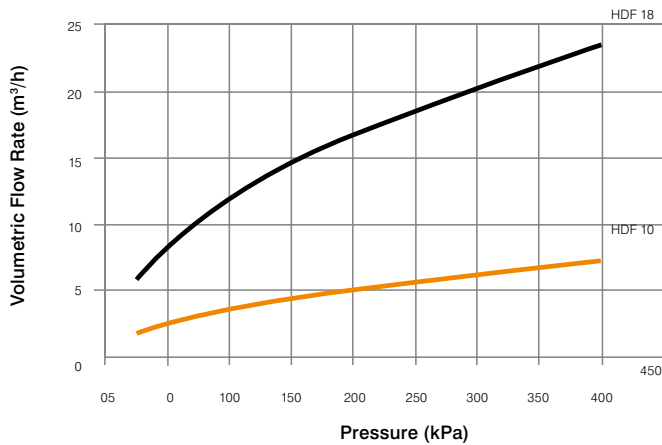
Mini Flood Nozzle Flow Rates



## Heavy Duty Flood Nozzle



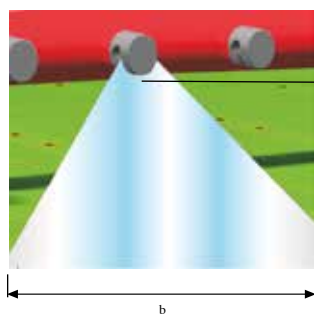
Heavy Duty Flood Nozzle Flow Rates



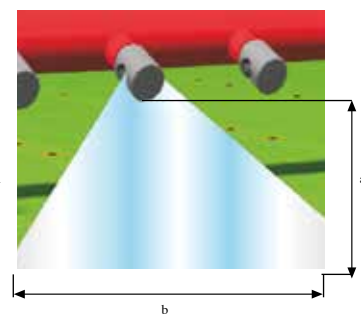
Flood Nozzle Spray Widths

	Height 'a'	Spray Widths 'b' (mm)	
		Installed horizontally	Installed at 45° from horizontal
<b>MCR Nozzles</b>	200	726	1 034
	300	1 072	1 524
	400	1 419	2 013
<b>MFN Nozzles</b>	200	753	1 118
	300	1 099	1 611
	400	1 445	2 102
<b>HDF Nozzles</b>	200	796	1 174
	300	1 143	1 663
	400	1 489	2 155

Installed horizontally



Installed at 45° from horizontal



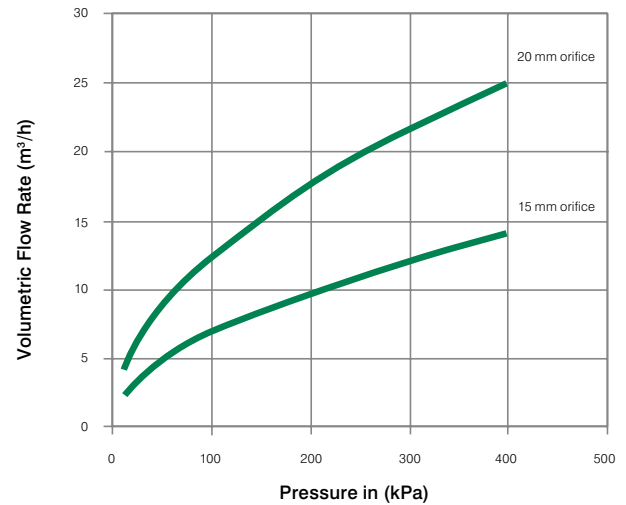
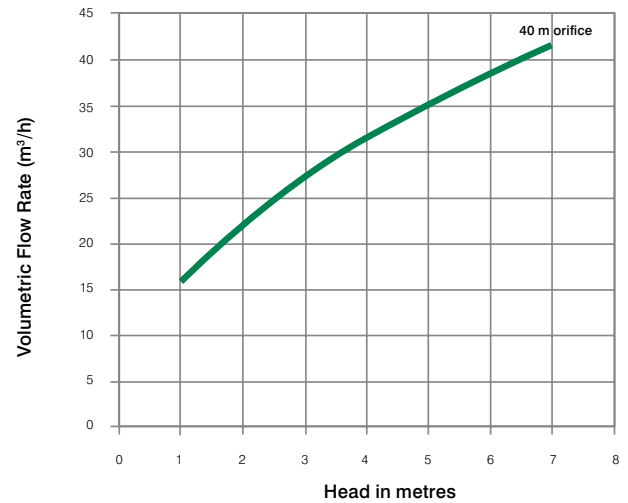
## Mafuta Extra Heavy Duty Flood Nozzle

The Multotec Extra Heavy Duty Flood Nozzle has been designed to cater for large volumes of water requirements in certain screening applications, utilising a 90 degree spray angle.

Mafuta with connecting flange and adaptor



Mafuta Flood Nozzle Flow Rates



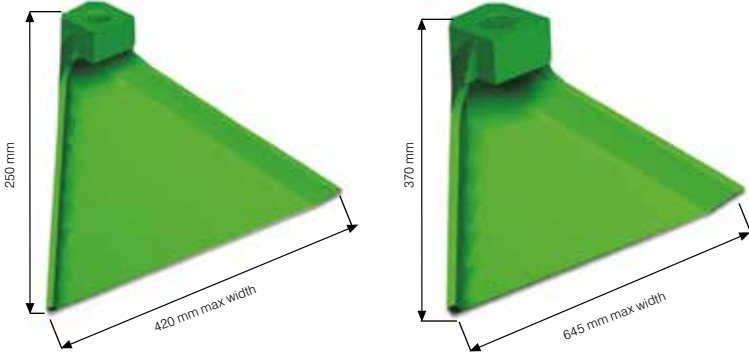
EHDF Nozzle Spray Widths

	Height 'a'	Spray Widths 'b' (mm)	
		Installed horizontally	Installed at 45° from horizontal
<b>EHDF</b>	200	480	572
	300	680	856
	400	880	1 138

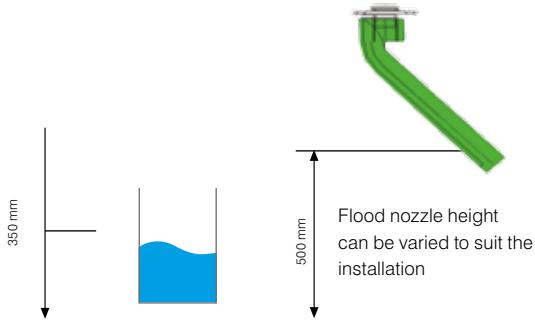
# Super Flood Nozzles

The Multotec Super Flood Nozzle has been designed to replace conventional flood boxes.

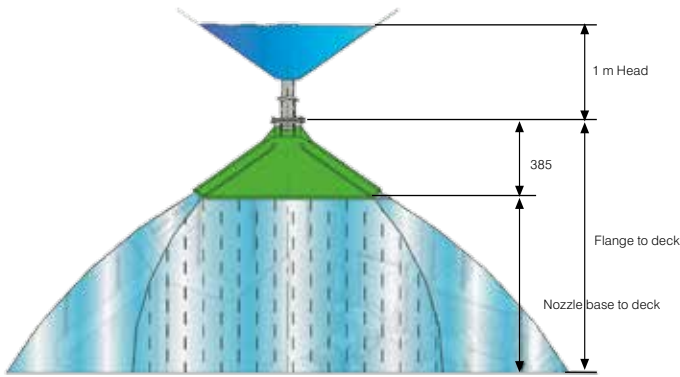
- No more silting up of the flood boxes - better access to panels
- Low pressure, high volume water curtain with no blockages
- Available in two sizes - 370 x 645 mm and 250 x 420 mm



Flood box prone to silting with solids and media



- The orifice diameter of 40 mm allows solids to pass through the screen



Normal Spray Curtain - Standard flow-rate: 16 m<sup>3</sup>/h

Spray widths (mm)

Flange to deck	Nozzle base to deck	Std Spread	Max Spread
685	300	895	1 296
785	400	960	1 449
885	500	1 015	1 586
1 085	700	1 080	1 817
1 285	900	1 100	2 000

## Mounting Options



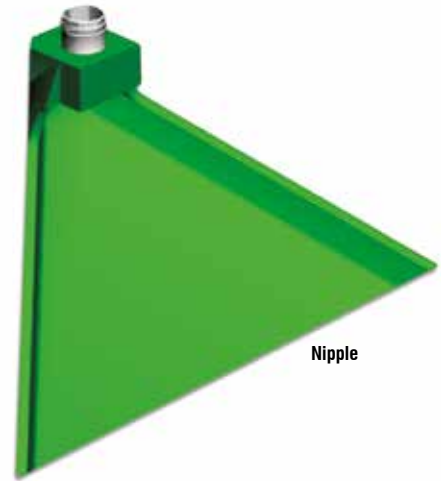
Flange

Loose flange and connecting pipe



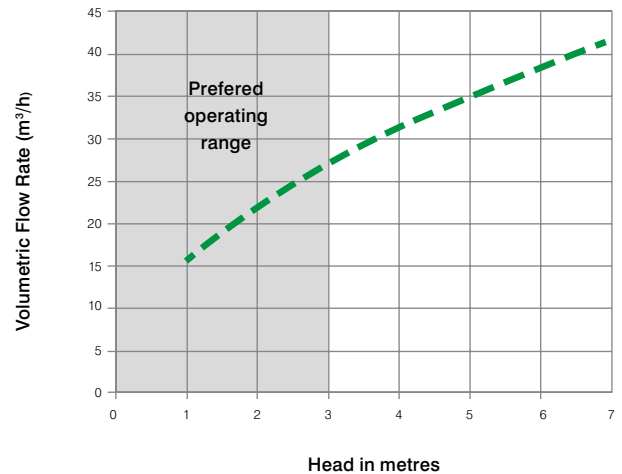
1.5" BSP threaded pipe

1.5" BSP threaded pipe



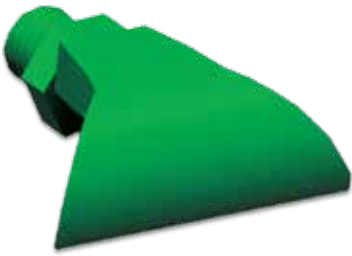
Nipple

Super Flood Nozzle Flow Rate

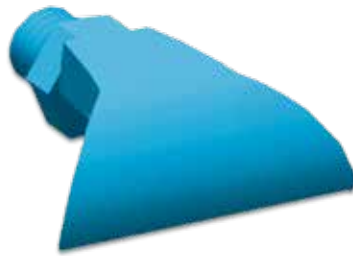


## Spray Nozzles

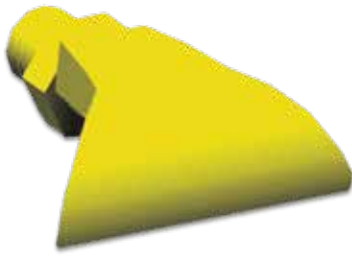
### Multospray Nozzle Identification



PDR 5 PDS 5



PDR 7 PDS 7



PDR 9 PDS 9



PDR 11 PDS 11

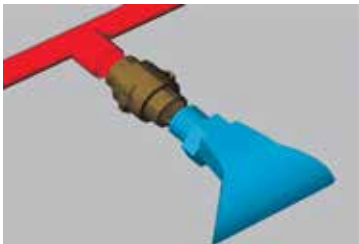
PDR = Round

PDS = Rectangular

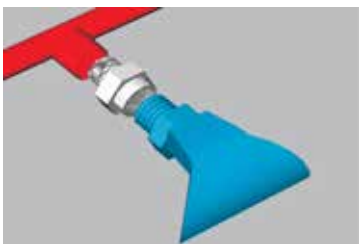
### Multospray Mounting Options



Multospray Nozzles are manufactured with a standard thread to fit a BSP 3/4" pipe socket.



Quick release adaptors can be used in conjunction with Multospray, allowing for quick and easy installation.

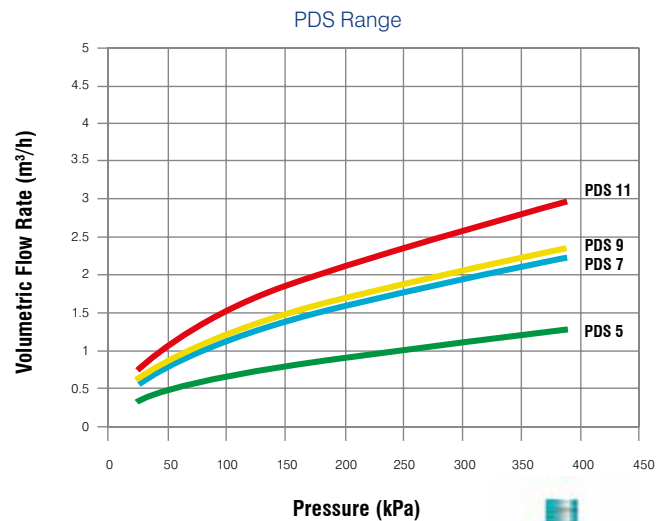
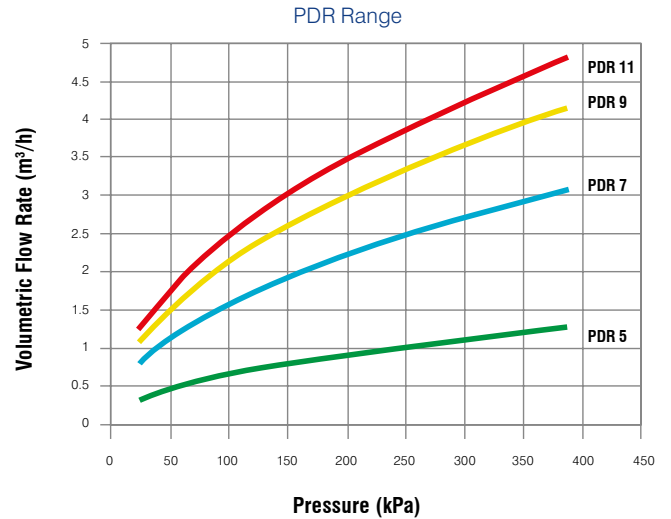


3/8" to 3/4" adaptors can be supplied with the Multospray where existing installations have a BSP 3/8" socket.

### Multosprays have many applications including:

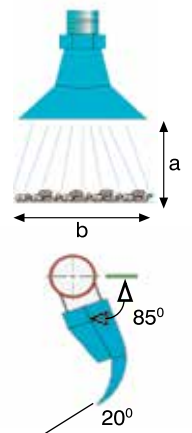
- Wet screening
- Ore washing
- Medium recovery
- Slimes removal
- Conveyor belt cleaning
- Cooling
- Orifices range from 5 mm to 11 mm
- Corrosion and wear resistant polyurethane
- Operating pressure range up to 4 bar
- Uniform water curtain with high operating efficiencies
- Standard fittings for easy installations

### Multospray flow rates

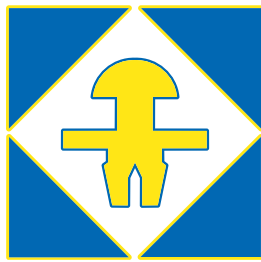


### Operating width of Multosprays

Height 'a' (mm)	200	300	400
Spray Size	Operating width of spray 'b' (mm)		
PDR/PDS			
5	400	500	700
	2.5	500	800
7	350	450	500
	2.5	400	550
9	500	600	800
	2.5	600	700
11	500	600	800
	2.5	500	700
	2.5	500	1 000



The Multospray Nozzles operate with maximum efficiency in the 1.5 to 2.5 bar pressure range.



**TEMA ISENMANN**

**Screening Solutions**  
**Call (859) 252-0613**  
**Email: [sales@temaisenmann.com](mailto:sales@temaisenmann.com)**



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