

FOAM BRANCH PIPE

MODEL: SD-500LXB

DESCRIPTION

The SD-500LXB Foam Hose Stream Nozzle/Low Expansion Branch Pipe is air aspirating type handline nozzle designed to maximize mobility and firefighting capability. The aspirating design makes the nozzle superior in performance by maximizing foam expansion and drainage time. When using handline proportioner/ in-line inductors as portable devices a pick-up tube is provided to draw foam concentrate from the portable foam containers.

FEATURES

- Operates with fresh or sea water.
- Air aspirating for use with all foam concentrates
- Produces most effective long lasting foam blanket
- Spray to straight stream pattern control without shutting off flow
- Polyester powder coat finish (tgic) for use in marine and other hostile environments
- Light weight and nozzle pressure within the control of an operator.
- 5 optimum size port holes of the nozzle ensure uniformity of flow, throw and increase reliability & efficacy during application.

APPLICATIONS

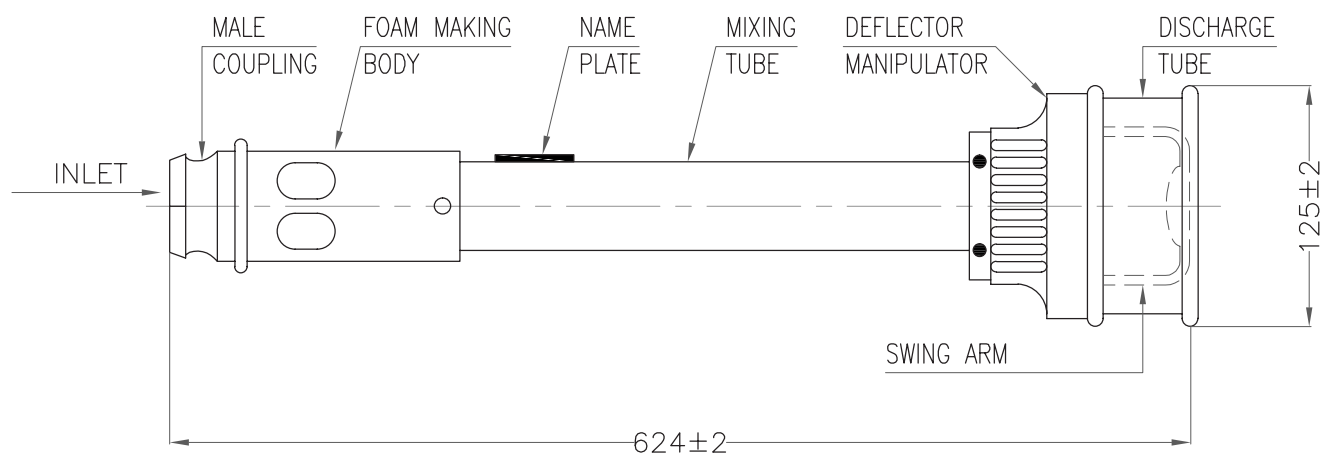
SD-500LXB is most useful in a long range of fire and hazardous situations involving combustible solids, flammable liquids and toxic liquid spills etc. The versatility of use as Jet (Straight Stream Pattern) & Spray type application make it suitable for various hazardous situation e.g., its long throw and rapid coverage with foam, make the unit suitable for outdoor fire situations as well as for areas used for storage of hazardous materials and also for cooling of tank shell with water spray only. The important applications are:

- To control fires involving all types of Hydrocarbon fires, paint, solvent and other hazards of Class 'A' and Class 'B' fires.
- To control fires, involving Liquefied Natural Gas (LNG), Liquefied Petroleum Gas (LPG) and suppression of hazards/toxic liquid Spills.
- The simple construction and reliable performance makes the nozzle ideal for Air Craft rescue and firefighting.
- Designed for application with Mobile Foam Unit.
- It is recommended to use this branch pipe along with the inductor model SD-350B (V)



TECHNICAL DATA

Inlet Water Pressure	4-10 bar (57.1-142.8 psi)
Flow	340-475 LPM (90.5-123 GPM)
Throw Range	13-25 m (42-82 ft)



Overall Length (L)	624 mm
Maximum Diameter (D)	125 mm
Weight	3.3 kg

MATERIALS

Part	Material
Foam Making Body	Aluminum
Mixing Tube	Aluminum
Retaining Collar	Aluminum
Deflector Manipulator	Aluminum
Discharge Tube	Aluminum
Deflector Disc Swing Arm	Stainless Steel
Diffuser	Stainless Steel 304
Nozzle	Aluminum
Male Coupling	Stainless Steel
Finish	T.G.I.C. Polyester Powder Coat(Black) / Red

FOAM BRANCH PIPE

MODEL: SD-500LXB225, SD-500LXB450

DESCRIPTION

SHIELD Foam Branchpipes are air aspirated nozzles for application of foam solution. They have been developed to combine superior throw with the ability to produce stable, cohesive foam. The unique design of these branchpipes results in the required expansion of the foam, ensures proper mixing in the tube & at the same time provides higher velocity to the emerging foam stream, giving excellent range.

Available with nominal foam solution capacity of 225 and 450 LPM at 7 bars pressure. It is recommended to operate this branch pipe model with SD-350B-225(V), SD-350B-450(V). These Foam Branches have been subjected to international material and performance standards (as per UL162), and you can be assured of effective performance and working life from these products.

FEATURES

- Air aspirating for use with all foam concentrates
- Produces most effective long lasting foam blanket
- Light weight and nozzle pressure within the control of an operator.

APPLICATIONS

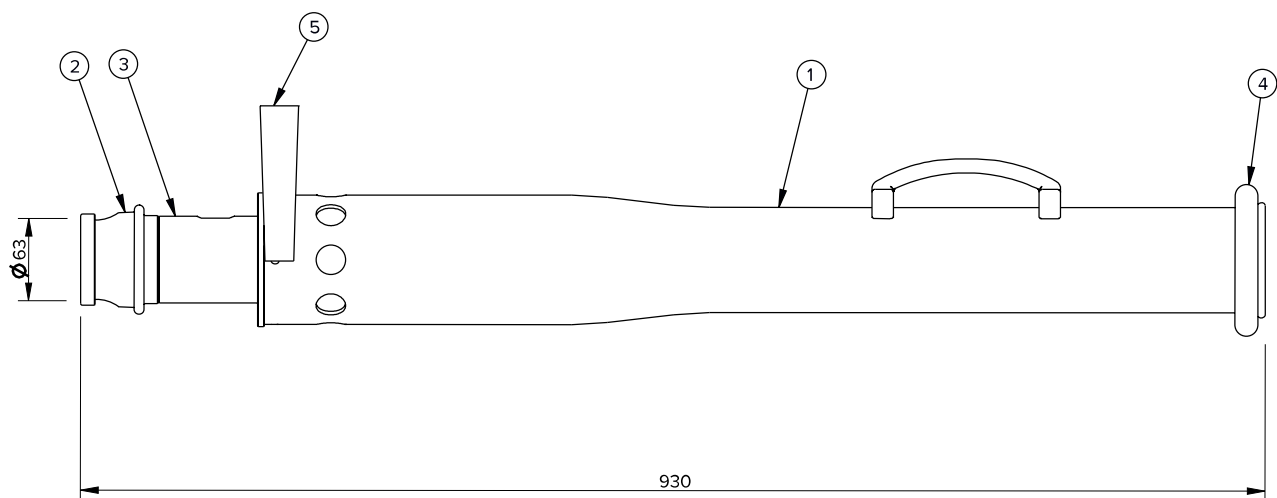
These are the most useful in a long range of fire and hazardous situations involving combustible solids, flammable liquids and toxic liquid spills etc., Its long throw and rapid coverage with foam, make the unit suitable for outdoor fire situations as well as for areas used for storage of hazardous materials and also for cooling of tank shell with water spray only.



PERFORMANCE DATA

Model	Performance	Inlet Pressure	Inlet
SD-500LXB225	225 LPM	65 psi	2½" Instantaneous
SD-500LXB450	450 LPM	65 psi	2½" Instantaneous

Foam Nozzles tested for 3% proportioning



PERFORMANCE DATA

Model No.	Pressure (bar)	Discharge Capacity (LPM)		Foam (%)	Throw (Meters)	Expansion (Min.)	Length (mm)
		Min.	Max.				
SD-500LXB225	7-7.5	225	250	3	12 Jet	8-10 times	635
SD-500LXB450	7-7.5	450	500	3	18 Jet	8-10 times	775

PART LIST

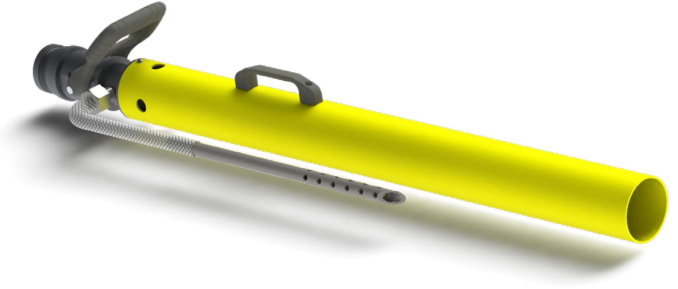
No.	Description	Material	
1	Pipe	S.S 304	SS 316
2	Male Inst.	S.S 304	SS 316
3	Body	S.S 304	SS 316
4	O ring	Rubber IS: 937	Rubber
5	Handle/Grip	S.S 306	SS 316

SELF INDUCTING FOAM BRANCH PIPE

MODEL: SD-VIBP, SD-FIBP SERIES

DESCRIPTION

SHIELD SD-VIBP, SD-FIBP Series are self-inducting foam type Branch Pipe designed to meet the long range performance. There are eight models with flow of 225 LPM and 450 LPM. This nozzle is an air aspirating handline nozzle designed to maximize mobility and firefighting capability. The self-inducting feature eliminates the need for a separate proportioner, which allows foam operation wherever water supply is available. The fully aspirating design provides superior performance compared to nonaspirating nozzles by maximizing foam expansion and 25% drainage life.



FEATURES

- Air aspirating for use with all foam concentrates
- Lightweight and portable for mobility
- Operates with fresh or sea water Self-inducting,
- Proportioner not required
- Self-proportion foam concentrate at either 1% or 3%

APPLICATION

SD-VIBP, SD-FIBP Series can be used wherever manual application of foam is required, tank farms, process units, chemical plants, loading racks, fixed foam system hydrants, hose reels, etc.

CONSTRUCTION

Manufactured out of Aluminum alloy and Stainless Steel 304, 316 and 316L these offer super superior corrosion resistance and offer proven robustness for any firefighting application in any demanding environment.

SPECIFICATION

Self-Inducting Low Expansion Foam Branch inlet size 2½" is capable of Inducting foam concentrate from the container and this facility eliminates the requirement of in-line Inductor which not only causes heavy pressure drops but also substantially increases the deployment time. Suitable to produce foam with good expansion ratio 1:2 to 1:12, these models offer longer throws and superior cooling.

The foam concentrate pick-up tube shall be provided along with these models. Isolation valve shall be provided upon request end connections are available in British Standard instantaneous coupling, storz coupling, gost coupling, american NST threaded and flanged connections.

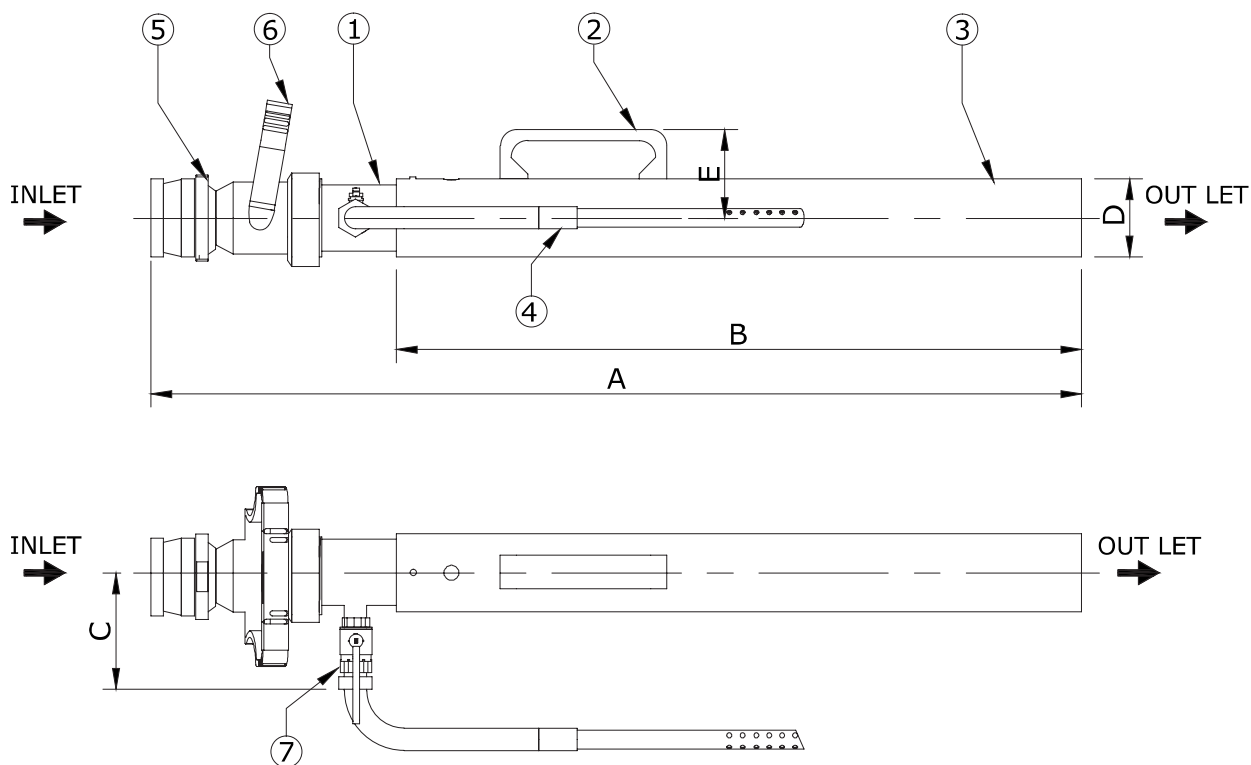
- Throw range shall be 20-30 m at 7 bar
- Branch pipe without isolation valve is standard supply
- Isolation valve shall be provided upon request
- Finishing shall be yellow or red.

TECHNICAL DATA

Model No.	Flow Rate 100 psi(LPM)	Material	Type	Percentage
SD-VIBP.2S	225	Stainless Steel	Variable	1% or 3%
SD-VIBP.4S	450	Stainless Steel	Variable	1% or 3%
SD-FIBP.2S	225	Stainless Steel	Fixed	3%
SD-FIBP.4S	450	Stainless Steel	Fixed	3%
SD-VIBP.2A	225	Aluminum Alloy	Variable	1% or 3%
SD-VIBP.4A	450	Aluminum Alloy	Variable	1% or 3%
SD-FIBP.2A	225	Aluminum Alloy	Fixed	3%
SD-FIBP.4A	450	Aluminum Alloy	Fixed	3%

ORDERING INFORMATION

- Flow requirement
- Induction (Variable /Fixed)
- Material of Construction



TECHNICAL DATA

Item No.	Description	Material	Qty.
1	Body	ALUMINUM/ASTM-A-351 GR-CF8/CF8M	1
2	Handle	PVC	1
3	Barrel	ALUMINUM/ASTM-A-312 TP-304/316/316L	1
4	Pick Up Tube	PVC	1
5	Male Coupling	ALUMINUM/ASTM-A-312 TP-304/316/316L	1
6	Shut Off Valve	ALUMINUM/ASTM-A-312 TP-304/316	1
7	Metering	ALUMINUM/SS	1

TECHNICAL DATA

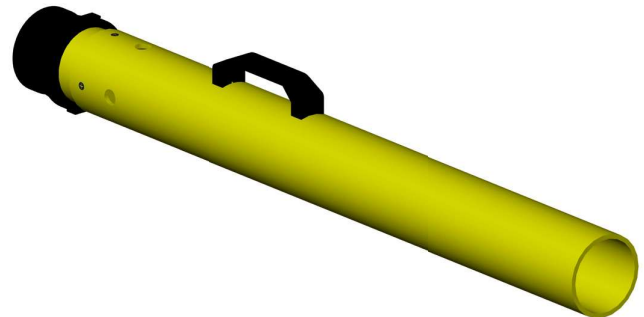
Model	A(mm)		B (mm)	C(mm)		D (mm)	E (mm)	Metering Valve Size (inch)	Inlet Size (inch)
	WITH Shut Off Valve	WITH OUT Shut Off Valve		WITH Metering Valve	WITH OUT Metering Valve				
SD-FIBP.4A	1098	1020	615	-	70	88	78	-	BS-2 ½"
SD-FIBP.4S	1084	1011	915	-	70	88	78	-	BS-2 ½"
SD-VIBP.2A	775	701	610	147	-	69	69	½"	BS-2 ½"
SD-VIBP.2S	768	693	610	147	-	66	67	½"	BS-2 ½"
SD-VIBP.4A	1094	1020	915	142	-	88	78	½"	BS-2 ½"
SD-VIBP.4S	1084	1011	915	142	-	88	78	½"	BS-2 ½"
SD-FIBP.2A	775	701	610	-	75	69	69	-	BS-2 ½"
SD-FIBP.2S	775	693	610	-	75	66	67	-	BS-2 ½"

FOAM BRANCH PIPE

MODEL: SD-BP(F).2, SD-BP(F).4

SHIELD Foam Branch pipes are air-aspirated nozzles for application of foam solution. They have been developed to combine superior throw with the ability to produce stable, cohesive foam. The unique design of these branch pipes results in the required expansion of the foam ensures proper mixing in the tube & at the same time provides higher velocity to the emerging foam stream, giving excellent range.

Available with nominal foam solution capacity of 225 and 450 LPM at 65 psi pressure. It is recommended to operate the NF-PI.225 & NF-PI.450 model with In-line Inductor only. These Foam Branches have been subjected to international material and performance standards (as per UL162), and you can be assured of effective performance and working life from these products.



FEATURES

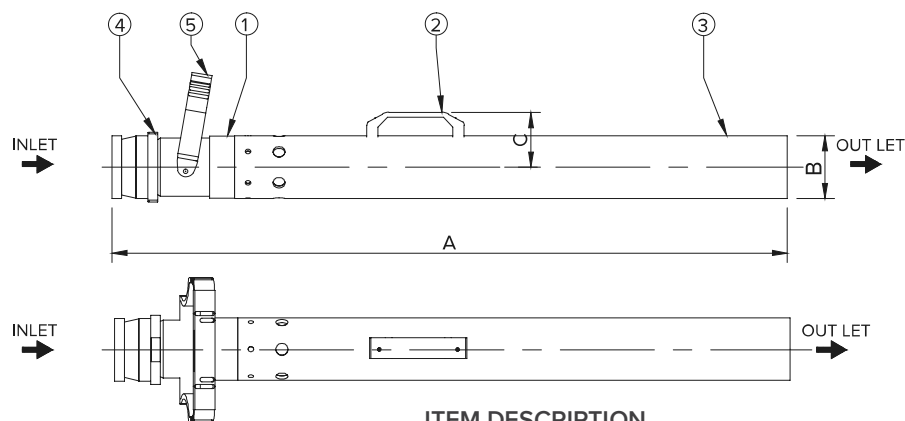
- Air aspirating for use with all foam concentrates
- Produces most effective long lasting foam blanket
- Lightweight and nozzle pressure within the control of an operator.
- Branch pipe without isolation valve should be standard supply.
- Isolation valve shall be provided upon request.
- Finishing shall be red or yellow.

APPLICATIONS

These are the most useful in a long range of fire and hazardous situations involving combustible solids, flammable liquids and toxic liquid spills etc., Its long throw and rapid coverage with foam, make the unit suitable for outdoor fire situations as well as for areas used for storage of hazardous materials and also for cooling of tank shell with water spray only.

PERFORMANCE DATA

Model	Performance	Inlet Pressure	Inlet
SD-BP(F).2	225 LPM	38 psi	2½" Instantaneous
SD-BP(F).4	450 LPM	50 psi	2½" Instantaneous



DIMENSIONAL DATA

Model	A (mm)		B (mm)	C (mm)	Inlet Size (inch)
	WITH Shut Off Valve	WITH OUT Shut Off Valve			
SD-BP(F).2	810	750	73	73	BS-2 ½"
SD-BP(F).4	970	900	88	80	BS-2 ½"

ITEM DESCRIPTION

Item No.	Description	Material	Qty.
1	Body	ASTM-A-351 GR-CF8/CF8M	1
2	Handle	PVC	1
3	Barrel	ASTM-A-312 TP-304/316/316L	1
4	Male Coupling	ASTM-A-351 GR-CF8/CF8M	1
5	Shut Off Valve	Aluminum	1

FOAM BRANCH PIPE

MODEL: SD-17

DESCRIPTION

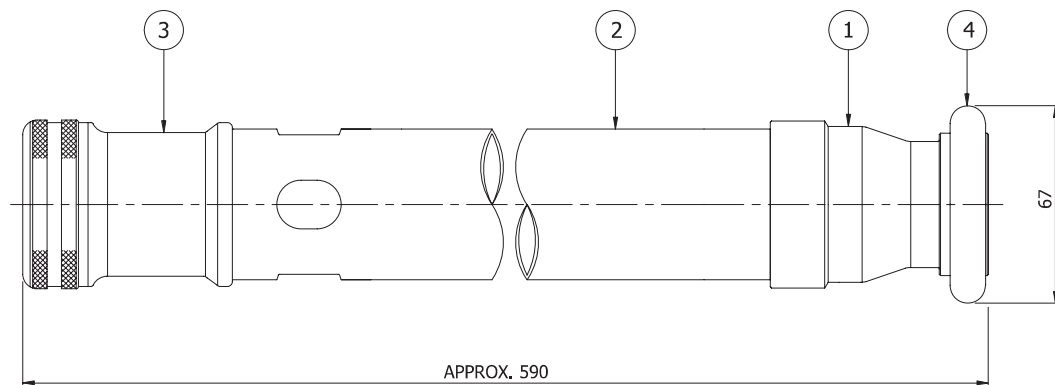
The need for low expansion foam cannon for fighting fires in large fuel storage tanks has become a necessity for all professional firefighters who are faced with such a risk. SHIELD foam cannon is especially designed to meet this demanding applications. This model is self-inducting and aspirating hand-held foam branch pipe

APPLICATION

Foam Branch pipe is a foam discharge nozzle used in all types of foam systems. It is hand-held pipe type and useful to where the foam is required to be applied manually. The branch pipe is used to protecting loading racks, tank farms, chemical plants, spill fires, etc..

TECHNICAL DATA

Inlet	1½" NH Swivel Female
Flow	305 LPM @ 7 bar
Foam discharge	AFFF 3% and class A foams
Material	Durable light-weighted Aluminum drawn tube (ASTM B221 6061) anodized finishing.
Foam inducting	Built-In foam inductor & pick up tube is required
Length	Approx. 597 mm
Net weight	1.2 kg



PART LIST

1. Tip
2. Pipe Body
3. Inlet Body
4. Protection Bumper

FOAM BRANCH PIPE

MODEL: SD-17S

DESCRIPTION

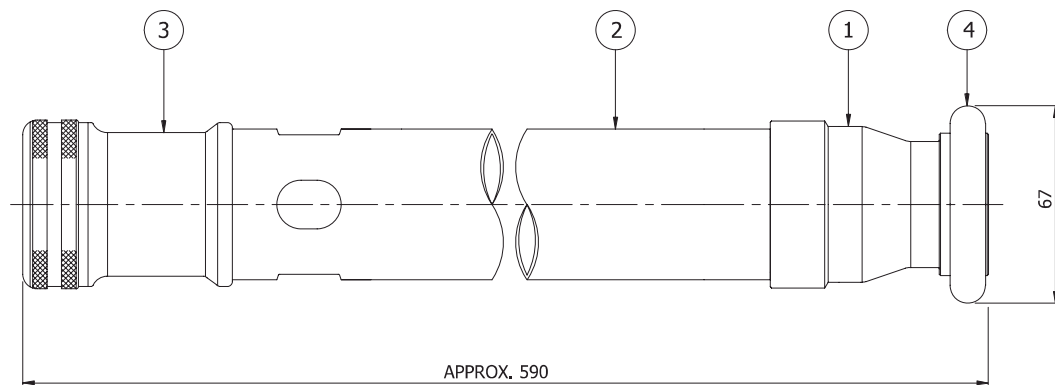
The need for low expansion foam cannon for fighting fires in large fuel storage tanks has become a necessity for all professional firefighters who are faced with such a risk. SHIELD foam cannon is especially designed to meet this demanding applications. This model is non self-inducting and aspirating hand-held foam branch pipe

APPLICATION

Foam Branch pipe is a foam discharge nozzle used in all types of foam systems. It is hand-held pipe type and useful to where the foam is required to be applied manually. The branch pipe is used to protecting loading racks, tank farms, chemical plants, spill fires, etc..

TECHNICAL DATA

Inlet	1½" NH Swivel Female
Flow	330 LPM @ 7 bar
Foam discharge	AFFF 3% and class A foams
Material	Durable light-weighted Aluminum drawn tube (ASTM B221 6061) anodized finishing.
Length	Approx. 590 mm
Net weight	1.1 kg



PART LIST

1. Tip
2. Pipe Body
3. Inlet Body
4. Protection Bumper

FOAM BRANCH PIPE

MODEL: SD-17PS

DESCRIPTION

The need for low expansion foam cannon for fighting fires in large fuel storage tanks has become a necessity for all professional firefighters who are faced with such a risk. SHIELD foam cannon especially designed to meet this demanding applications. This model is self-inducting and aspirating hand-held foam branch pipe.

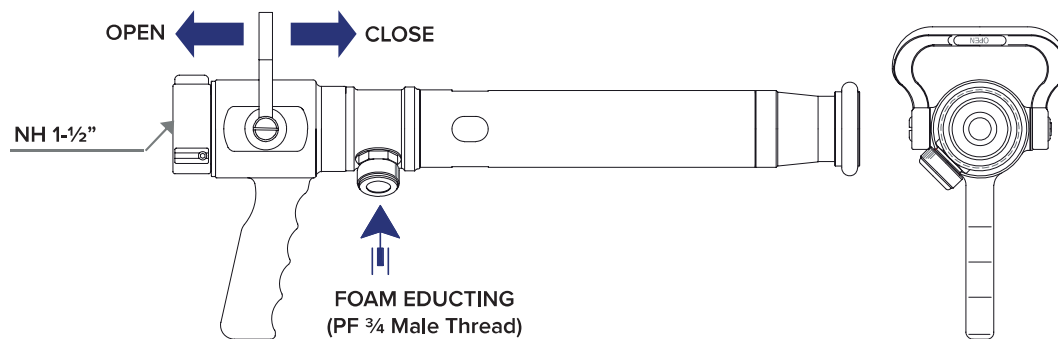
APPLICATION

Foam Branch pipe is a foam discharge nozzle used in all types of foam systems. It is hand-held pipe type and useful to where the foam is required to be applied manually. The branch pipe is used to protecting loading racks, tank farms, chemical plants, spill fires, etc..



TECHNICAL DATA

Inlet	1½" NH Swivel Female
Flow	305 LPM @ 7 bar
Foam Discharge	AFFF 3% and class A foams
Material	Durable light-weighted Aluminum drawn tube (ASTM B221 6061) anodized finishing.
Foam Inducting	Built-In foam inductor & pick up tube is required
Length	Approx. 630 mm
Net Weight	2.3 kg



SELF INDUCTING FOAM BRANCH PIPE

MODEL: SD-19MB

DESCRIPTION

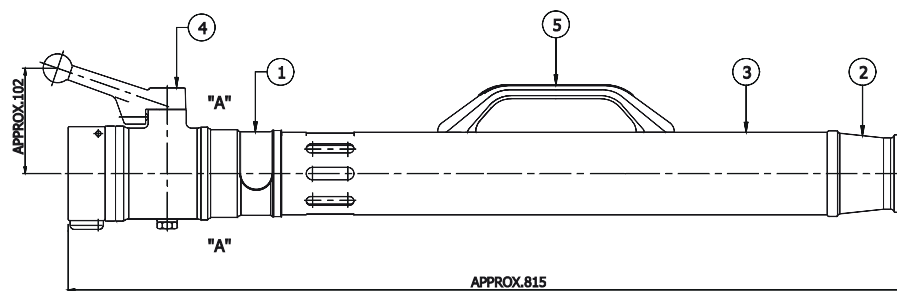
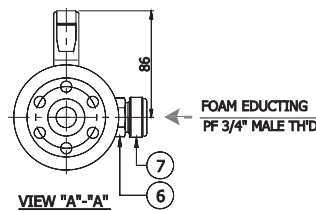
The need for low expansion foam cannon for fighting fires in large fuel storage tanks has become a necessity for all professional firefighters who are faced with such a risk. SHIELD foam cannon especially designed to meet this demanding applications. This model is self-inducting and aspirating foam branch pipe installed on monitor. Standard foam ratio is 3% and 1% ~ 6% metering valve is optional device.

APPLICATION

Foam Branch pipe is a foam discharge nozzle used in all types of foam systems. It is hand-held pipe type and useful to where the foam is required to be applied manually. The branch pipe is used to protecting loading racks, tank farms, chemical plants, spill fires, etc..

TECHNICAL DATA

Inlet	2-1/2" NH swivel female
Flow	560 LPM @ 7 bar
Foam discharge	AFFF 3% and class A foams
Material	Durable light-weighted Aluminum drawn tube (ASTM B221 6061) anodized finishing.
Foam inducting	Built-In foam inductor & pick up tube is required
Length	Approx. 815 mm
Net weight	4.25 kg



PART LIST

- | | |
|-------------------|-------------------|
| 1. Inlet Body | 5. Handle |
| 2. Nozzle Head | 6. Pick Up Nipple |
| 3. Foam Barrel | 7. Nipple Cap |
| 4. Valve Assembly | |

In line with shield policy for continuous product development, shield has the right to change specifications without prior notice.

FOAM BRANCH PIPE

MODEL: SD-19MS

DESCRIPTION

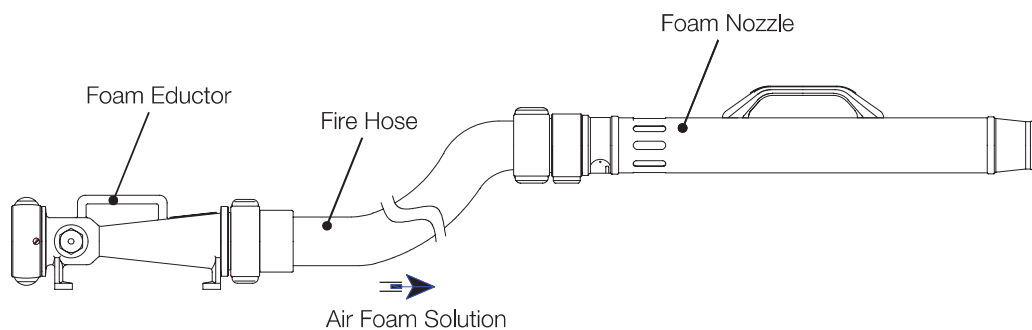
The need for low expansion foam cannon for fighting fires in large fuel storage tanks has become a necessity for all professional firefighters who are faced with such a risk. SHIELD foam cannon especially designed to meet this demanding applications.

APPLICATION

Foam Branch pipe is a foam discharge nozzle used in all types of foam systems. It is hand-held pipe type and useful to where the foam is required to be applied manually. The branch pipe is used to protecting loading racks, tank farms, chemical plants, spill fires, etc..

TECHNICAL DATA

Inlet	2-1/2" NH swivel female
Flow	560 LPM @ 7 bar
Foam discharge	AFFF 3% and class A foams
Material	Durable light-weighted Aluminum drawn tube (ASTM B221 6061) anodized finishing.
Foam inducing	Pre-mixed foam nozzle, or self-inducting (optional)
Length	Approx. 700 mm
Net weight	2.6 kg



SELF INDUCTING FOAM BRANCH PIPE

MODEL: SD-19GM

DESCRIPTION

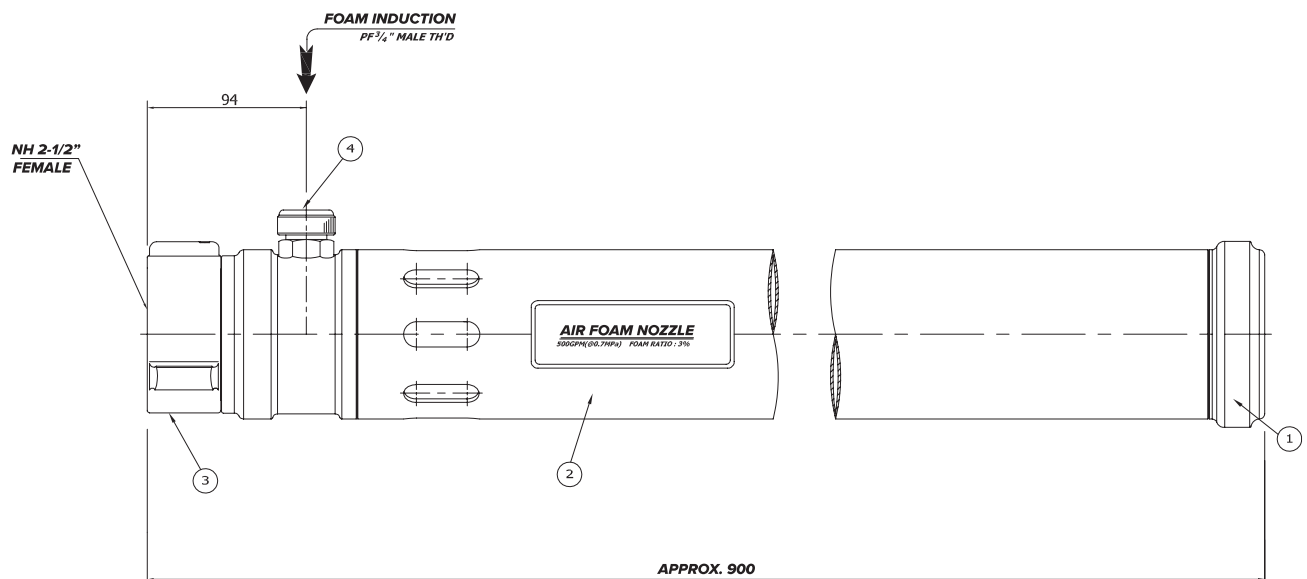
The need for low expansion foam cannon for fighting fires in large fuel storage tanks has become a necessity for all professional firefighters who are faced with such a risk. SHIELD foam cannon especially designed to meet this demanding applications. This model is self-inducting and aspirating foam branch pipe installed on monitor. Standard foam ratio is 3% and 1% ~ 6% metering valve is optional device.

APPLICATION

Foam Branch pipe is a foam discharge nozzle used in all types of foam systems. It is hand-held pipe type and useful to where the foam is required to be applied manually. The branch pipe is used to protecting loading racks, tank farms, chemical plants, spill fires, etc..

TECHNICAL DATA

Inlet	2-1/2" NH swivel female
Flow	350/500 GPM @ 7 bar
Foam discharge	AFFF 3% and 6% class A foams
Material	Durable light-weighted Aluminum drawn tube (ASTM B221 6061) anodized finishing.
Foam inducing	Built-In foam inductor & pick up tube is required
Length	Approx. 900 mm
Net weight	8.5 kg
Effective Reach	40 m @ 45° Horizontal Shooting



PART LIST

- | | |
|----------------|-------------------------|
| 1. Nozzle Head | 3. Inlet |
| 2. Pipe | 4. Pick-up nipple & cap |

SELF INDUCTING FOAM BRANCH PIPE

MODEL: SD-19GM-A

DESCRIPTION

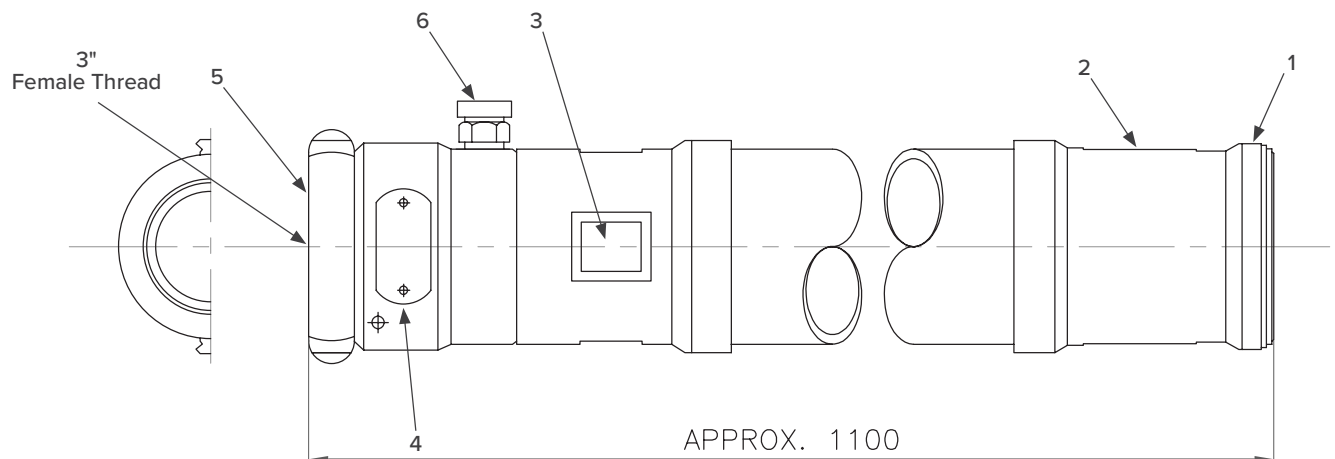
The need for low expansion foam cannon for fighting fires in large fuel storage tanks has become a necessity for all professional firefighters who are faced with such a risk. SHIELD Foam cannon especially designed to meet this demanding applications. This model is self-inducting and aspirating foam branch pipe installed on monitor.

APPLICATION

Foam Branch pipe is a foam discharge nozzle used in all types of foam systems. It is hand-held pipe type and useful to where the foam is required to be applied manually. The branch pipe is used to protecting loading racks, tank farms, chemical plants, spill fires, etc..

TECHNICAL DATA

Inlet	3" NH swivel female
Flow	750 & 1000 GPM @ 7 bar
Foam Discharge	AFFF 3% and class A foams
Material	Durable light-weighted Aluminum drawn tube (ASTM B221 6061) anodized finishing.
Foam Inducting	Built-In foam inductor & pick up tube is required
Length	Approx. 1150 mm
Net Weight	6 kg
Effective Reach	• 55 m @ 45° Horizontal Shooting (750 GPM) • 62 m @ 45° Horizontal Shooting (1000 GPM)



PART LIST

- | | |
|-------------------|-------------------------|
| 1. Tip | 4. Foam Maker |
| 2. Pipe Body | 5. NH 3" Female |
| 3. Air Inlet Body | 6. Pick up nipple & cap |

SELF INDUCTING FOAM BRANCH PIPE

MODEL: SD-19M

DESCRIPTION

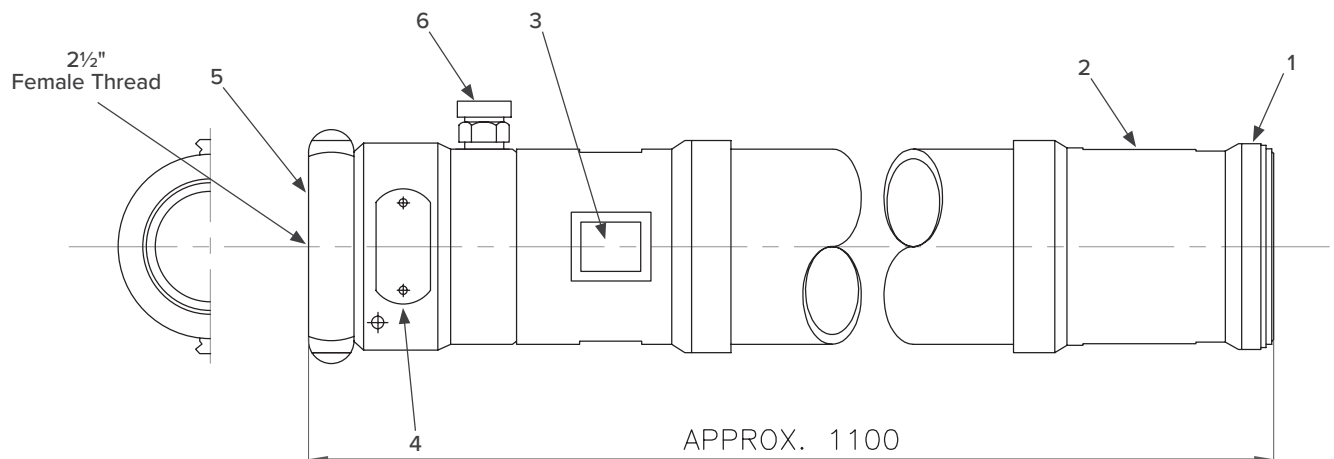
The need for low expansion foam cannon for fighting fires in large fuel storage tanks has become a necessity for all professional firefighters who are faced with such a risk. SHIELD foam cannon especially designed to meet this demanding applications. This model is self-inducting and aspirating foam branch pipe installed on monitor. Standard foam ratio is 3% and 1% ~ 6% metering valve is optional device.

APPLICATION

SHIELD foam branch pipe is a foam discharge nozzle used in all types of foam systems. It is generally used where the foam is required to be applied manually. The branch pipe is used to protecting loading racks, tank farms, chemical plants, spill fires, etc.

TECHNICAL DATA

Inlet	2-½" NH swivel female (BIC Male Option)
Flow	250 GPM @ 7 bar
Foam discharge	AFFF 3% and 6% class A foams
Material	Durable light-weighted Aluminum drawn tube (ASTM B221 6061) anodized finishing.
Foam inducing	Built-In foam inductor & pick up tube is required
Net weight	3 kg
Effective Reach	40 m @ 45° Shooting



PART LIST

- | | |
|-------------------|-------------------------|
| 1. Tip | 4. Foam Maker |
| 2. Pipe Body | 5. NH 2½" Female |
| 3. Air Inlet Body | 6. Pick up nipple & cap |

SELF INDUCTING FOAM BRANCH PIPE

MODEL: SD-19GM-L

DESCRIPTION

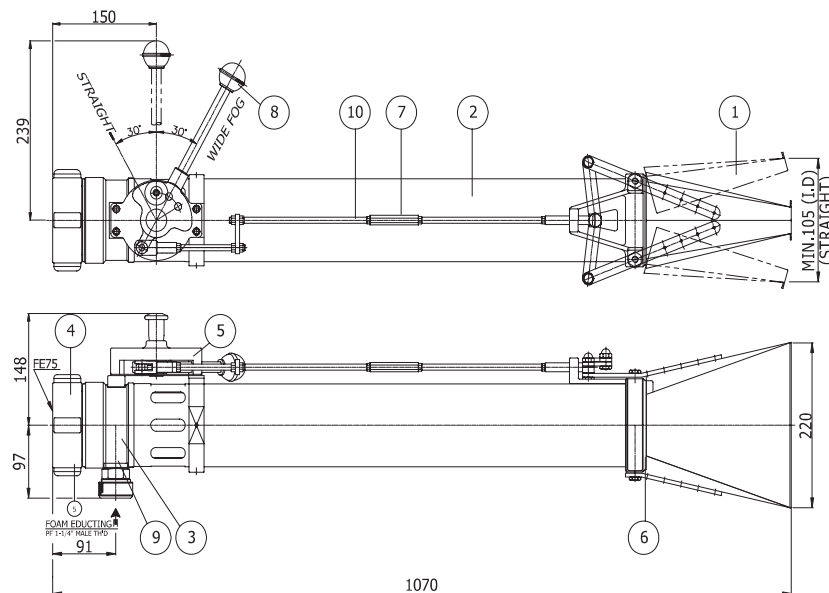
The need for low expansion foam cannon for fighting fires in large fuel storage tanks has become a necessity for all professional firefighters who are faced with such a risk. SHIELD foam cannon especially designed to meet this demanding applications. This model is self-inducting and aspirating foam branch pipe installed on monitor.

APPLICATION

Foam Branch pipe is a foam discharge nozzle used in all types of foam systems. It is hand-held pipe type and useful to where the foam is required to be applied manually. The branch pipe is used to protecting loading racks, tank farms, chemical plants, spill fires, etc..

TECHNICAL DATA

Inlet	2½" or 3" NH swivel female
Flow	• 350 to 500 GPM @ 7 bar(2½") • 750 to 1000 GPM @ 7 bar(3")
Flow Pattern	Fog and straight stream through the blabber mouth
Foam discharge	AFFF 3% and class A foams
Material	Durable light-weighted Aluminum drawn tube (ASTM B221 6061) anodized finishing.
Foam inducting	Foam pick up tube is required
Length	Approx. 1150 mm
Net weight	10 kg
Effective Reach	55 m @ 45° Horizontal Shooting

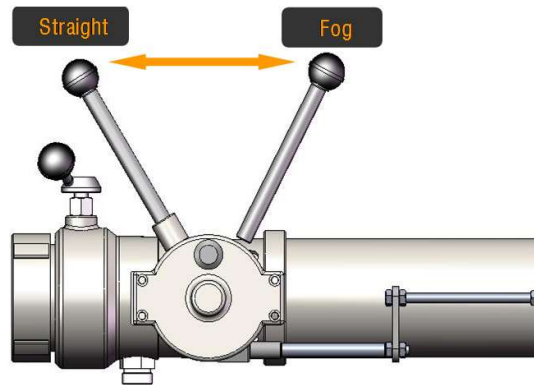
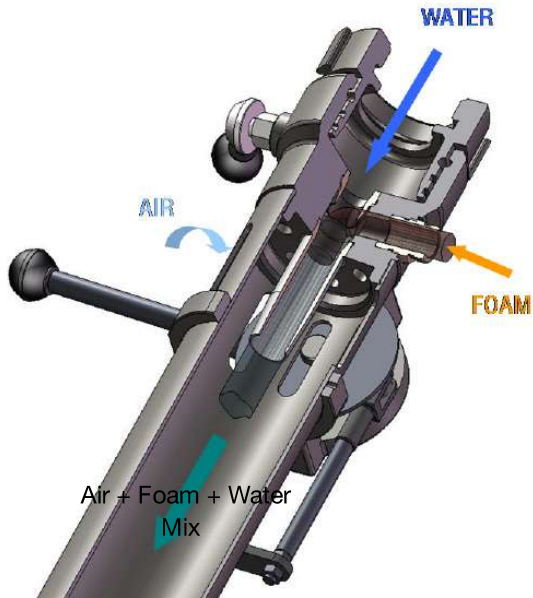


PART LIST

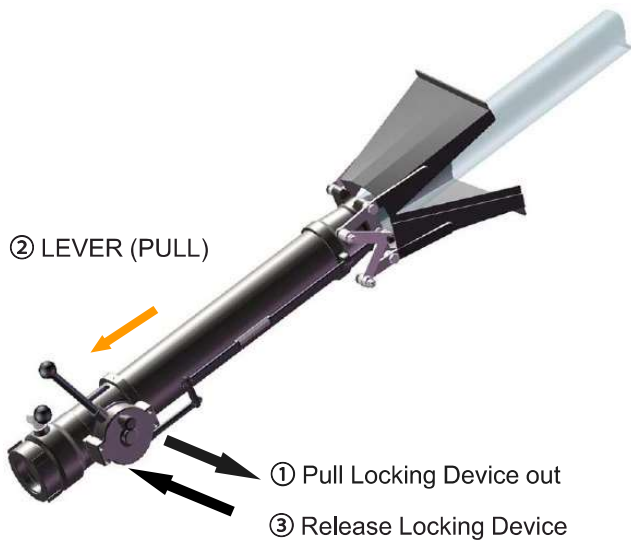
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|------------------|-------------------|------------------------|
| 1. Blabber Mouth | 4. Nut | 8. Lever |
| 2. Pipe | 5. Fog Controller | 9. Foam Pick-Up Nipple |
| 3. Foam Maker | 6. Head | 10. Rod |
| | 7. Rod Connector | |

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FLOW OPERATION



STRAIGHT STREAM



FOG POSITION

