



Mican Engineers Pvt.Ltd.



www.micanengineers.com

ABOUT US

As the specialist in manufacturing Industrial Spray Nozzles, Pharmaceutical Spray gun, Peristaltic Pumps, Process equipment & systems, Mican Engineers has good, accumulated know-how excellence in making high quality and innovative technological product. Our products are made eith through research and technological advancement to satisfy our clint's needs.

Being the supplier of high-quality industrial Spray Nozzles Pharmaceutical equipment & guns around the word, We believe that trust of our customers come first. We keep focusing on continuous training for technical excellence and product development. Our top priority is to provide best quality and innovative products to our customers. Customer satisfaction is our greatest achievement and pride. Being a leading supplier helps Mican Engineers understand the complexity and competitive nature of the global industry. This understand is the driving force behind our creative idea and innovate product development.

MISSION

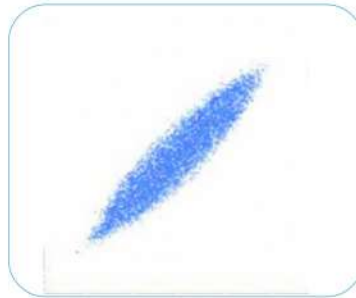
To provide integral solutions for productive processes based on the value and development of human resources placing ourselves at the forefront of technological innovation.

VISION

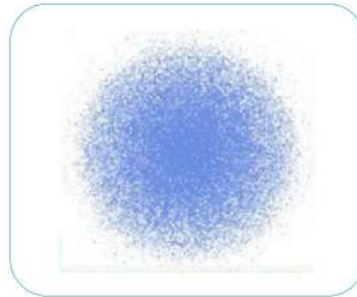
Customer satisfaction is and will always be our greatest achievement and pride.

Spray Pattern

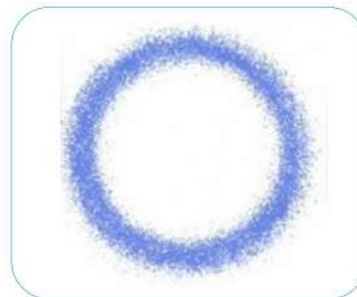
Flat Spray Nozzles



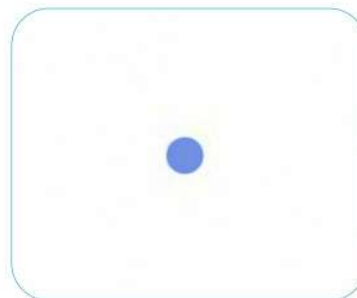
Full Cone Nozzles



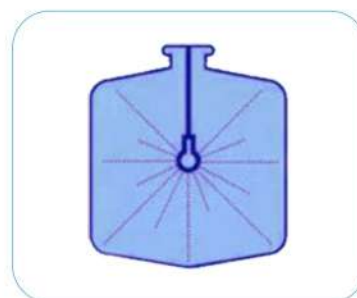
Hollow cone Nozzles



Straight Jet



Tank Cleaning Nozzles



Flat Spray Nozzles



F1 Series

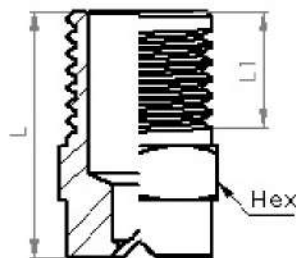
Standard design with self sealing thread connection. Stable spray angle, Uniform distribution of liquid, parabolic distribution of liquid.

Design:

- One piece construction
- Non clogging type

Application :

- Roll Cooling
- Surface treatment
- Filter cleaning
- Belt Cleaning
- Coating
- Lubricating
- Cleaning



Thread	L	L1	HEX
1/8" BSPT	18	6.5	11
1/4" BSPT	22	10	14
3/8" BSPT	25	12	17
1/2" BSPT	27	13.2	22

F2 Series

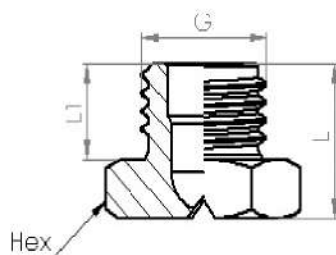
Uniform distribution of liquid, parabolic distribution of liquid, Stable spray angle, Compact design, Suitable for narrow installations.

Design:

- One piece construction
- Non clogging type

Application :

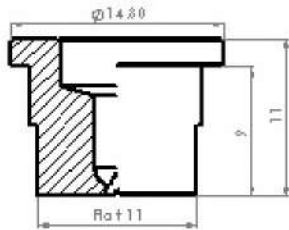
- Spray Headers
- Cooling Headers
- Cleaning Installations



Thread	L	L1	HEX
1/8" BSPP	11	7	14
1/4" BSPP	13	8	17
3/4" BSPP	15	8	32
1" BSPP	20	12	36
1 1/4" BSPP	22	14	50
2" BSPP	32	20	70

F3 Series

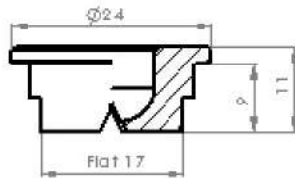
Assembly with retaining nut. Easy nozzle changing, simple jet alignment. Uniform, parabolic distribution of liquid. spray pipes equipped with nozzles show an extremely uniform total liquid distribution.



Application :

- Spray cleaning
- Surface treatment
- Lubricating
- Coating.
- filter cleaning
- belt cleaning
- Cleaning Installations

F4 Series

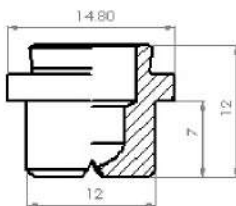


Application :

- Spray cleaning
- Surface treatment
- Lubricating
- Coating.
- filter cleaning
- belt cleaning
- Cleaning Installations

F5 Series

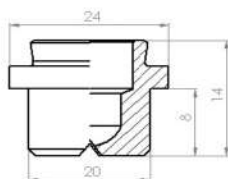
Dove-tail guided spray nozzle connected to Spray pipe or Spray header by the means of nipple and retaining nut. Easy nozzle changing, simple jet alignment. Uniform, parabolic, distribution of liquid. Spray pipes / Headers equipped with nozzles show an extremely uniform total liquid distribution.



Application :

- Cleaning Installations
- Cooling pipes
- Spray headers

F6 Series

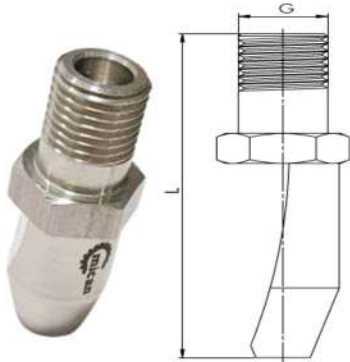


Application :

- Cleaning Installations
- Cooling pipes
- Spray headers
- Roll cooling

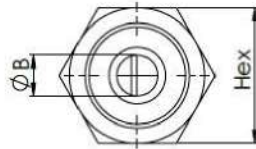
F7 Series

Narrow Jet non clogging flat spray nozzle with high impact value and sharp flat fan, works on principle of deflection.



Application :

- Cleaning
- washing
- Degreasing
- Phosphating

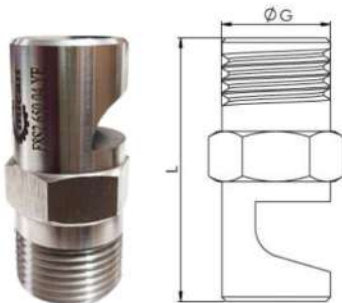


Thread (G)	L	L1	HEX
1/4" BSPT	65	10	17
3/8" BSPT	75	10	17
1/2" BSPT	80	13.2	22
3/4" BSPT	102	14.5	27

F8 Series

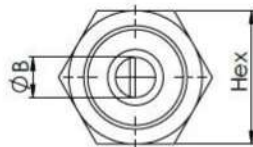
Wide angle Flat spray nozzle with high impact value and sharp flat fan, works on principle of deflection, non clogging.

Powerful and concentrated water jet.



Application :

- Cleaning
- washing
- Foam control
- Sewage treatment plant

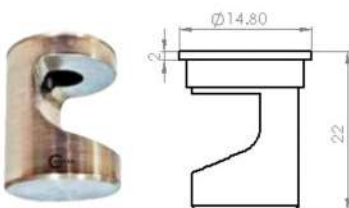


Thread (G)	1/8" BSPT	1/4" BSPT	3/8" BSPT	1/2" BSPT	3/4" BSPT	1" BSPT
L	22	30	36	50	56	94
L1	6.5	10	10	13.2	14.5	16.8
HEX	11	14	17	22	27	36

F9 Series

Wide angle Flat spray nozzle with high impact value and sharp flat fan, works on principle of deflection, non clogging.

Assembly with retaining nut.



Application :

- Cleaning
- washing
- Foam control
- Sewage treatment plant

Straight Jet

S1 Series

Straight Jet Spray Nozzle (Solid Stream Nozzle)

- Optimized flow technology
- Concentrated solid stream
- High Impact spray
- Flow rate : 1 lpm to 160 lpm @ 2BAR
- Spray angle : Solid Stream



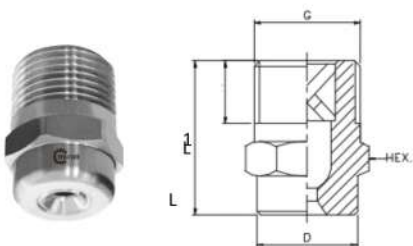
Thread	L	L1	D	HEX
1/8" BSPT	18	6.5	10.2	11
1/4" BSPT	22	10	13	14
3/8" BSPT	25	10	16	17
1/2" BSPT	32	13.2	21	22
3/4" BSPT	42	15	32	27
1" BSPT	56	17	39	36

Full Cone Spray Nozzles



E1 Series

Standard design with self sealing thread connection. Stable Spray angle, Uniform distribution of liquid, parabolic distribution of liquid.

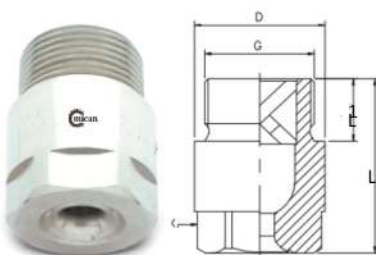


Design:

- Removable X Vane
- Non clogging type
- Axial flow

Application :

- Roll Cooling
- Surface treatment
- Filter cleaning
- Belt Cleaning
- Coating
- Lubricating
- Cleaning



Thread	L	L1	D	HEX
1/8" BSPT	18	6.5	10.2	11
1/4" BSPT	22	10	13	14
3/8" BSPT	25	10	16	17
1/2" BSPT	32	13.2	21	22
3/4" BSPP	42	15	32	27
1" BSPP	56	17	39	36

E2 Series

Standard design with self sealing Flanged connection. Stable spray angle, Uniform distribution of liquid, parabolic distribution of liquid, designed to deliver large capacity.

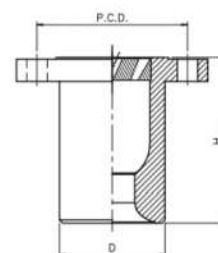
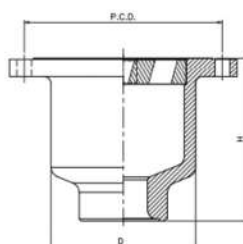
ANSI 16.5 Flange		PCD	H
INCH	MM		
3"	190.5	152.4	140
4"	228.6	190.5	160
5"	254	215.9	177
6"	279.4	241.3	190
8"	342.9	298.4	250
10"	406.4	361.9	290

Design:

- Removable X Vane
- Non clogging type
- Axial flow

Application :

- Cooling of gaseous liquid and solids
- Cooling and washing of gas.
- Improving chemical reaction via surface enlargement
- Scrubber



E3 Series

Square Pattern full cone spray nozzle, Standard design with self sealing connection. Stable spray angle, Uniform distribution of liquid.

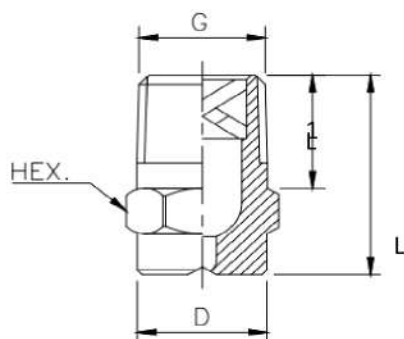


Design:

- Removable X Vane
- Non clogging type
- Axial flow square cone

Application :

- Cooling
- Liquor washer
- Product Washing
- Dust control
- Air & Gas Washing
- Scrubbers



Thread	L	L1	D	HEX
1/8" BSPT	18	6.5	10.2	11
1/4" BSPT	22	10	13	14
3/8" BSPT	25	10	16	17
1/2" BSPT	32	13.2	21	22
3/4" BSPP	42	15	32	27
1" BSPP	56	17	40	36

E4 Series

Spiral Full Cone Nozzle Standard design with self sealing thread connection. Stable spray angle, Uniform distribution of liquid.

Design:

- One piece construction
- Non clogging type

Application :

- Gas Washing
- Dust Suppression
- Cooling Tower
- Fire Fighting
- Scrubbing



MOC : SS 316, SS 304, Brass, PVDF, PVC, PP, PTFE.

Thread	H	H1	HEX	Thread	H	H1	HEX
1/4" BSPT	48	10	14	1" BSPT	108	16.8	36
3/8" BSPT	58	10	17	1 1/2" BSPT	138	19.1	51
1/2" BSPT	76	13.2	22	2" BSPT	148	23.4	64
3/4" BSPT	86	14.5	27	3" BSPT	216	29.8	89

E5 Series

Multiple Full Cone Nozzle

Fine Full cone atomization with the aid of several hollow cones spraying into one another

Material : SS316, Ss304. Brass, PVC, PP

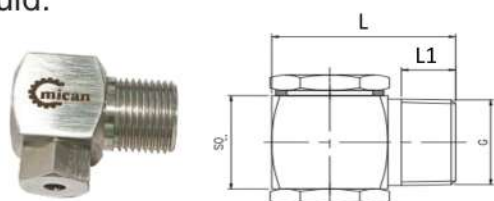


Spray Angle	Thread	H	D	HEX
75°	1/2"BSPP	30	50	46
	3/4"BSPP	46	75	65
130°	1/2"BSPP	38	40	30
	3/4"BSPP	51.5	60	50

Application : Cooling of Gaseous and solid material, Desuperheaters, Chlorine precipitation, to improve chemical reaction

E6 Series

Tangential Entry Vane Less Full Cone Spray Nozzle, Standard design with self sealing thread connection. Stable spray angle, Uniform distribution of liquid, parabolic distribution of liquid.



Thread	L	L1	Square
1/4" BSPT	35	10	16
3/8" BSPT	35	10	20
1/2" BSPT	35	10	20
3/4" BSPP	45	13	25
1" BSPP	57	16	30

Application :

- Washing
- Chemical reactions
- Cleaning
- Cleaning of gas
- Cleaning of Solid Products

Hollow Cone Spray Nozzles



H1 Series

Standard design with self sealing thread connection. Tangential entry, Very stable and uniform spray angle, Uniform distribution of liquid, self cleaning design.

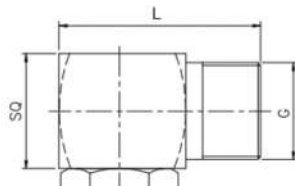
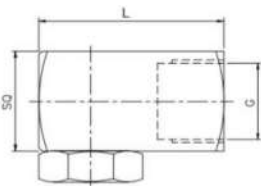


Design:

- Vaneless
- Non clogging type
- Tangential flow

Application :

- Chemical Process Engineering
- Humidification of air
- Humidification of textile
- Water re-cooling
- Gas treatment
- Fire protection
- Absorption
- Desuperheating
- Disinfection
- Cooling
- Foam destruction



Thread	L	HEX
1/8" BSPT	25	16
1/4" BSPT	35	20
3/8" BSPT	35	20
1/2" BSPT	45	25
3/4" BSPP	57	32

H2 Series

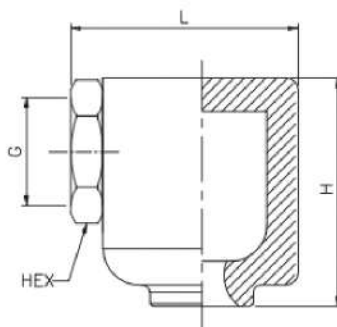
Standard design with self sealing thread connection. Tangential entry, Very stable and uniform spray angle, Uniform distribution of liquid, self cleaning design.

Design:

- Vaneless
- Non clogging type
- Tangential flow

Application :

- Chemical Process Engineering
- Humidification of air
- Humidification of textile
- Water re-cooling
- Gas treatment
- Absorption
- Desuperheating
- Disinfection
- Cooling
- Foam destruction
- Fire protection



Thread	L	H	HEX
1" BSPP	75	60	46
1 1/2" BSPP	92	90	60
2" BSPP	118	127	80
2 1/2" BSPP	140	156	100

H3 Series

Standard design with self sealing thread connection. Tangential entry, Very stable and uniform spray angle, Uniform distribution of liquid, self cleaning design.

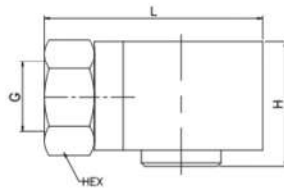
Design:

- Vaneless
- Non clogging type
- Tangential flow

Application :

- Chemical Process Engineering
- Humidification of air
- Humidification of textile

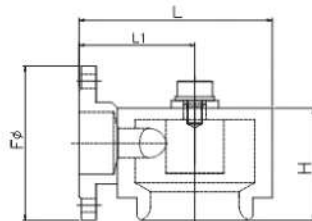
- Absorption
- Desuperheating
- Disinfection
- Cooling
- Foam destruction
- Fire protection
- Water re-cooling
- Gas treatment



Thread	L	H	HEX
1" BSPP	95	60	46
1 ½" BSPP	110	75	60
2" BSPP	140	90	75
2 ½" BSPP	190	127	90

H4 Series

Standard design with self sealing thread connection. Tangential entry, Very stable and uniform spray angle, Uniform distribution of liquid, self cleaning design.



FLANGE	DIA	L	L1	H
3"	200	250	150	155
4"	220	355	200	240

H5 Series

Standard design with self sealing thread connection Inline entry, Very stable and uniform spray angle, Uniform distribution of liquid, self cleaning design.

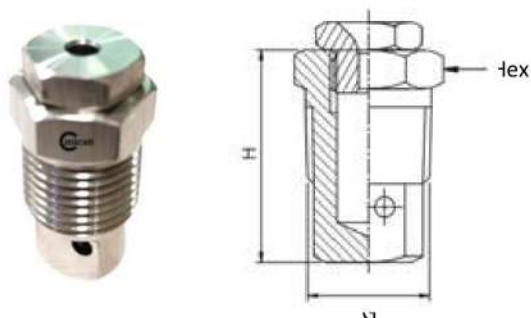
Design:

- Vaneless
- Non clogging type
- Axial Flow
- Two Piece Construction

Application :

- Chemical Process Engineering
- Humidification of air
- Gas Cooling
- Water re-cooling

- Desuperheating
- Disinfection
- Cooling
- Foam destruction
- Dust Suppression



Thread	H	HEX
1/4" BSPT	25	14
3/8" BSPT	27	17
1/2" BSPT	32	22
3/4" BSPT	38	27
1 1/2" BSPT	60	51

H6 Series

Axial Hollow cone Standard design with self sealing thread connection, Very stable and uniform spray angle, Uniform distribution of liquid, fine atomized spray.

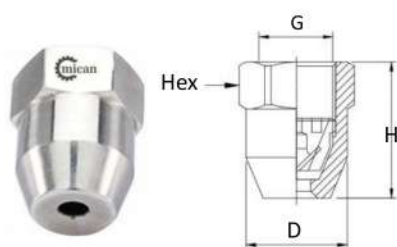
Design:

- Non clogging type
- Axial Flow
- Two Piece Construction

Application :

- Chemical Process Engineering
- Filter cleaning
- Gas Cooling

- Desuperheating
- Disinfection
- Dust Suppression



Thread	H	D	HEX
1/4" BSPP	22	16.5	17
3/8" BSPP	29	21.5	22
1/2" BSPP	36	26.7	27

Dry Fog (Dust Suppression Nozzle)



Dry Fog Nozzle has the ability to shear the water into extremely fine droplets by using Air, so called as “dry fog”, with droplets size 1-10 Microns.

Dry Fog Nozzle has a carefully designed resonator to produce high frequency wave.

Liquid capable of being pumped into the cavity is vigorously sheared into fine droplets at resonator.

Air by passing the resonator carries the atomized droplets down stream in a soft plume shaped spray.

Type	Model1 (80deg)	Model2 (60deg)	Model3 (30deg)
AirPressure	5 bar	5 bar	3 bar
WaterPressure	1.5bar	1.5bar	0.8bar
AirFlowRate	110l/min	230l/min	260l/min
WaterFlowRate	8 l/hr	23l/hr	47l/hr
DropleSize	3-6 micron	7-10 micron	4-10 micron

Application

Reduce fugitive dust from a variety of material handling points such as:

i) Conveyortransferpoints

ii) Crushers

iii) Screens

iv) Truckdumps

v) Loading/Unloadingpoint

vi) Ashsilodischargẽhute

vii) Trippers& Reclaimers

Atomizing Nozzles

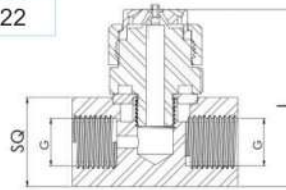
Atomization produced by a combination of air and liquid pressures. Air atomising spray nozzles mixes liquid and air. Liquid is get broken into small droplets as air provides shearing effects on liquid droplets.

This type of nozzles utilize a collision of air and liquid to provide on atomized spray various type of nozzle designs are available to comply with customers special application.

Applications :

1. Dust Suppression
2. Paper Moisturising
3. Tablet Coating
4. Thin Film Coating
5. Humidification
6. Lubrication

G	L	SQ
1/4"	45	22



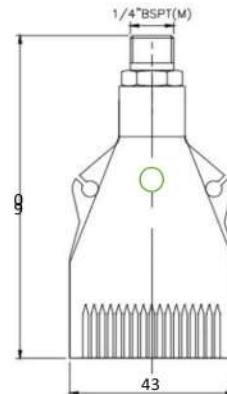
Spray Angle	Connection	Materials
15°, 20°, 25°, 30°, 45° , 60°, 90°, 120°	1/8" to 1/4" BSP (F)	SS-316, SS-304 Brass
Special material and connections on request.		

Wind Jet Spray Nozzle

Wind Jet Nozzle features a high impact, flat fan distribution of compressed air. It is available in durable ABS plastic, SS 304 & aluminum alloy. It produces a quiet. Efficient, controlled flat fan distribution of compressed air. The air stream is discharged through 16 precision orifices that ensure uniform distribution and spray pattern integrity.

It fits through 1/4 inch inlet connection with BSPT male screw thread. Two convenient mounting holes on the ABS model ensure correct positioning on the header or manifold or fixed applications. offering uniform distribution of air curain.

Plastic Wind Jet Nozzle with stands temperatures up to 77 C at 7 bar



Model	Inlet	Capacity - CFM (LPM)			
	(Inch)	0.7 bar	2 bar	4 bar	6 bar
Wn1	1/4 (M)-Straight	6.8 (193)	12.8 (357)	21.3 (586)	29.6 (16)

	Orifice	Flow rate in NM ³ /hr at Pressure				
pressure (Bar)		1	2	3	4	5
Flow Rate	0.8 mm	12	16	22	28	34
	1.0 mm	14	21	26	35	40

M.O.C.: ABS Plastic, SS 304, Aluminum.

Tank Cleaning Nozzles



T1 Series

Self Rotating slotted spray balls are available with different connections. BSPP Female threads as standard and Clip-on, Weld-on, Tri-clamp connection on request.

Cleaning Fluid Drives the spray head. Available in coverage of 180° (up & down side) 270° (up & down side), 360°



Thread	A	B
1/8" BSPP	21	59
1/4" BSPP	21	59
3/8" BSPP	25	71
1/2" BSPP	34	79
3/4" BSPP	44	89
1" BSPP	44	94
1 1/4" BSPP	49	99
1 1/2" BSPP	64	120

- Self Rotating
- Efficient slot design
- Modern bearing construction
- Double ball bearing
- Material : SS316l
- Max Temp.: 140C

T2 Series

Pin type Self Rotating slotted spray balls, designed for equipment's with high vibration. Cleaning Fluid Drives the spray head. Available in coverage of 180° (up & down side) 270° (up & down side), 360°



Thread	A	B
1/2 " (ID 12.70 mm)	21	51
5/8 " (ID 15.90 mm)	25	71
3/4 " (ID 19.05 mm)	34	79
1" (ID 25.40 mm)	44	89
1 1/4" (ID 31.75 mm)	44	94
1 1/2" (ID 38.10 mm)	64	120
2" (ID 50.80 mm)	64	120

- Self Rotating
- Efficient slot design
- Modern bearing construction
- Double ball bearing
- Material : SS316l
- Max Temp.: 140° C

Required line filter: 100 micron

T3 Series

High impact Self Rotating slotted spray balls with controlled rotation ranging from 40 to 70 RPM. Slide bearing and controlled rotation makes it more reliable and durable. Cleaning Fluid Drives the spray head. Available in coverage of 270° 360°.



- Self Rotating
- Efficient slot design
- Slide bearing (PTFE)
- Operating Pressure 5 – 10 bar
- Material : SS316l
- Max Temp.: 80° C

T4 Series

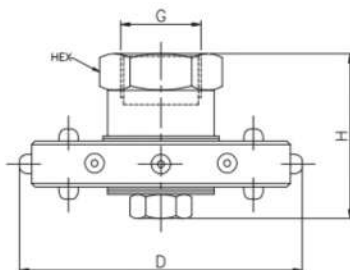
Self Rotating slotted spray balls, This nozzles are highly effective in vertical duct cleaning. cleaning Fluid Drives the spray head. Available in coverage of 270° 360°.



- Self Rotating
- Efficient slot design
- Double ball bearing
- Material : SS316l
- Max Temp.: 140° C

T5 Series

Self Rotating flat spray Tank Cleaning nozzles, designed for large and medium size Process equipments and tanks, Cleaning Fluid Drives the spray head. Available in coverage of 180°, 270°, & 360°.



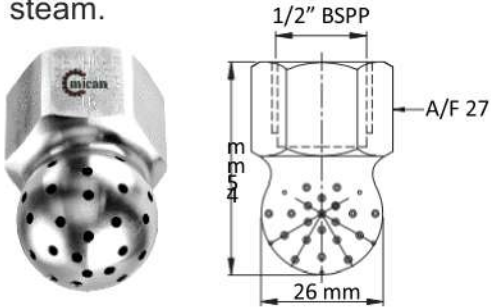
- Self Rotating
- Slide bearing (PTFE)
- Material : SS316l
- Max Temp.: 90° C

Thread	H	D	HEX
1" BSPP	62.5	117	41
2" BSPP	97	131	71
3" BSPP	116.5	194	100

- Required line filter: 100 micron
- Recommended Pressure : 3 bar

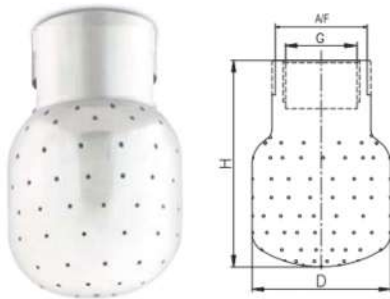
T6 Series

Static Spray Ball, compact design with effective solid jets. Available in coverage of 120°, 240° & 270° Used for cleaning and rinsing of small drums and small size tanks, also to use with saturated steam.



- Material : SS316l / PTFE
- Max Temp.: 200° C

SPRAY ANGLE	END CONNECTION	LPM				
		PRESSURE(bar)				
240°	1/2" BSPP	1	2	3	5	7
T6S2.180	XD	12.94	18.00	22.05	28.44	33.66
T6S2.280	XD	20.13	28.00	34.30	44.24	52.36
T6S2.520	XD	37.38	52.00	63.70	82.16	97.24
T6S2.800	XD	57.50	80.00	98.00	126.40	149.60
T6S3.100	XD	71.88	100.00	122.50	158.00	187.00



Thread	H	D	HEX
3/4" BSPP	78	40.5	28
1" BSPP	90	60	40
1 1/4" BSPP	116	70	50
1 1/2" BSPP	116	70	50
2" BSPP	152	100	62

- COVERAGE : 180° & 360°
- Material : SS316l / PTFE
- Max Temp.: 200° C

Rotary Tank washer nozzle MICAN-05

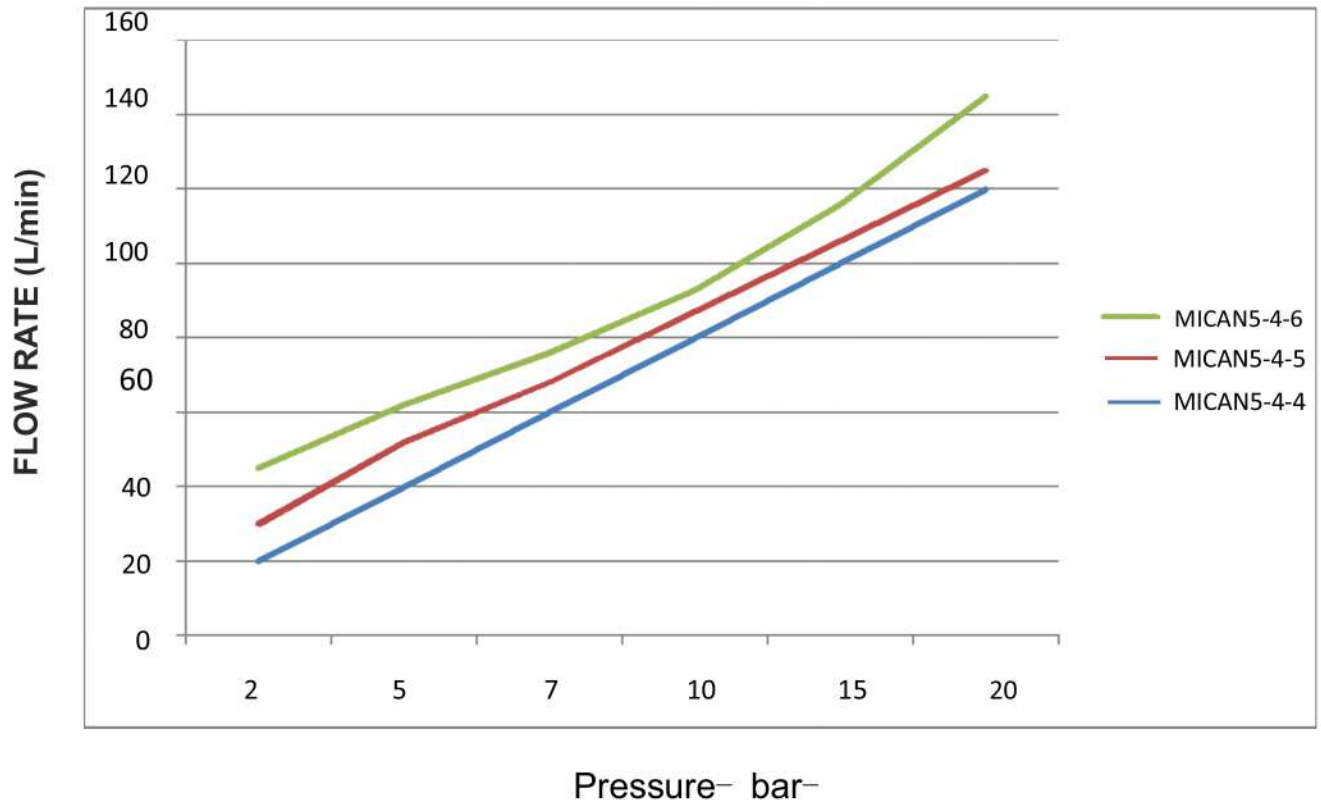


MICAN-05 Specification

Material - 316L SS PEEK
Lubrication Self lubricating through cleaning fluid
Working Pressure 3-150 bar
Recommend Pressure 4 - 100 bar
Max working Temperature 95-C
Max Temperature 140-C
Clean angle 360
Clean Diameter 5m
Min cut size 110 mm
Connection 3/4" BSPP Female
Weight 2.6 kg
Clean cycle 3-5 min

➤ Technical Data :

Performance Curve



SPRAY GUN-SG DIVISION

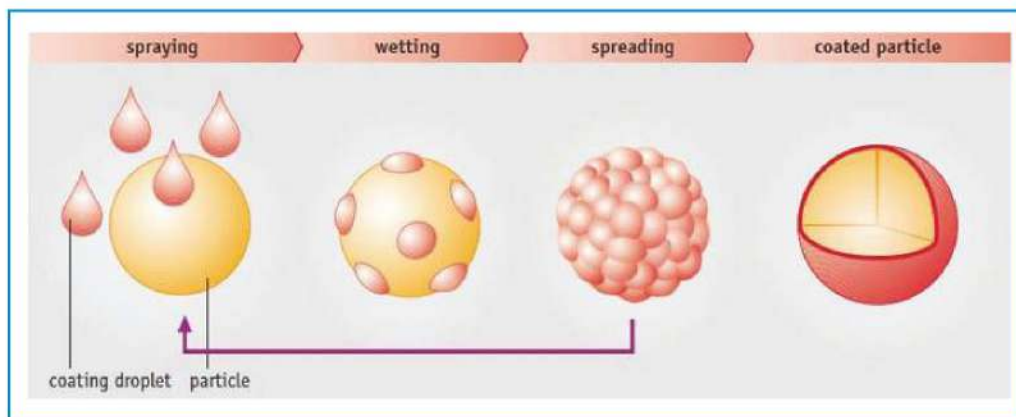
Pharmaceutical coating is a technique in which an outer dry film of the coating composition is applied on the desired dosage form (mainly tablet and granules) to attain specific advantages (taste masking, environmental protection).

The spray guns use high-pressure air to atomize the coating solution into fine droplets during spraying. The amount of air pressure determines the droplet size—higher atomizing air pressure results in smaller droplets, and lower atomizing air pressure results in larger droplets.

We at Pharma spray Solutions with our research & experience have developed different spray gun for different process such as tablet coating, wurster coating, pellet coating, RMG binder spray, Spheronizer spray etc.

Tablet Coating

Tablet coating is a process by which an essentially dry, outer layer of coating material is applied to the surface of a dosage form in order to confer specific benefits over uncoated variety.



Anti-Bearding Air Cap Advantage



Non Clogging Anti Bearding Air Cap



Air Cap With Horns

Frequent shutdowns to clean coating material from air atomizing spray gun components have a series impact on productivity. Anti-bearding Flat Spray Air Cap can help to improve process quality, volume and profitability in these situations.

Anti-bearding Flat Spray Air Cap does not allow negative pressure to build at the upper surface in compare to Cap with Horns creates negative pressure & results in clogging of Fan air Port & subsequently Liquid port as well. Manual coating machine & auto coater machine. At Pharma Spray Solution we have developed spray guns to optimise both the process of coating with different models.

ABH Spray Nozzle Assembly

The ABH is External Mix Nozzle, means liquid & Air are mixed externally to produce a complete atomizing spray. The liquid atomizing is control by varying the atomizing air & Fan air pressure without changing liquid flow rates. The flat spray pattern is controlled by varying the fan air pressure in conjunction with the atomizing air. This is effective for higher viscosity liquid, coating & suspension.

Anti-bearding Flat Spray Air Cap can help to improve process quality, volume, and profitability.

Benefits

Modular design offers the flexibility to fit various unique spray applications

Maximizes uniform spray distribution

Minimizes overspray

Energy savings in adjustable fan air settings

Decreases seal failure, bearding and plugging

Reduces maintenance costs

Easy access dramatically cuts cleaning and maintenance downtime

High performance, with higher flow

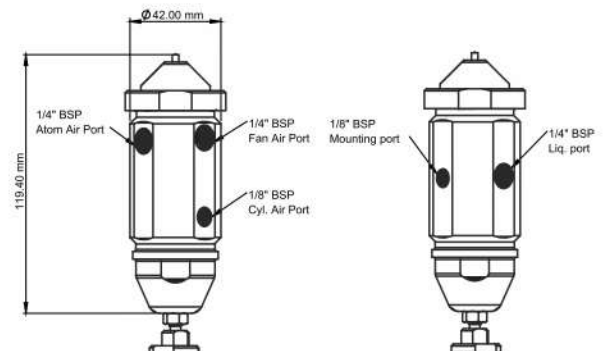
Improves spray and product quality

Easy change-over from any model-to-model ABH

Thread less sanitary design with no internal threads in the liquid chamber

Specification

Spray Nozzle	Type	ABH 1030/40, 1031/1041
Spray Pattern	Oval Flat	Air Atomizing
Liquid Nozzle Orifice Size Range	mm	0.8 - 1.5 (1.0, 1.2)
Flow Rate(For Coating Application)	gm / min	20-220 g/min
Atomizing Air Pressure	bar	0.7 - 4
Spray Angle	deg	10 - 60 deg
Maximum Compressed Air Pressure	bar	5.5
Compressed Air Consumption (@ 2 bar)	Nm ³ / hour	11.5
Seal Material Standard Approvals	FDA	Approved



ABG Spray Nozzle Assembly

The ABG variable automatic spray nozzle Assembly is designed with modular components to provide solutions to even the most demanding spray application challenges.



Features & Benefits

Uniform spray distribution

Anti - Bearding (Non-Clogging)
designed spray Nozzle Assembly

Anti - Dripping

Liquid Flow adjustment

Easy to clean – User Friendly

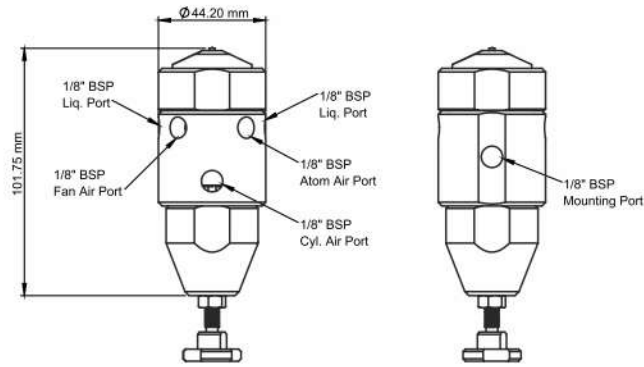
Low Maintenance

Compatible in all Coating Machines

Unique Pan Pattern with angle
adjustment option

Specification

Spray Nozzle	Type	ABG 1040/1041/1042
Spray Pattern	Oval Flat	Air Atomizing
Liquid Nozzle Orifice Size	mm	0.8 - 1.5 (1.0, 1.2)
Flow Rate(For Coating Application)	gm / min	20-150 g/min
Atomizing Air Pressure	bar	0.7 - 3
Spray Angle	deg	10 - 70 deg
Spray Nozzle	Type	ABH 1030/40, 1031/1041
Maximum Compressed Air Pressure	bar	5.5
Compressed Air Consumption (@ 2 bar)	Nm ³ / hour	10.0
Seal Material Standard Approvals	FDA	Approved



ABGS Spray Nozzle Assembly

The ABGS variable automatic spray nozzle Assembly is compact in size to provide solutions to even the most demanding spray application challenges for main scale production as well as for Lab Coaters.



Features & Benefits

Compact Size

Anti - Bearding (Non-Clogging)
designed spray Nozzle Assembly

Anti-Dripping

Liquid Flow adjustment

Uniform spray distribution

Easy to clean – User Friendly

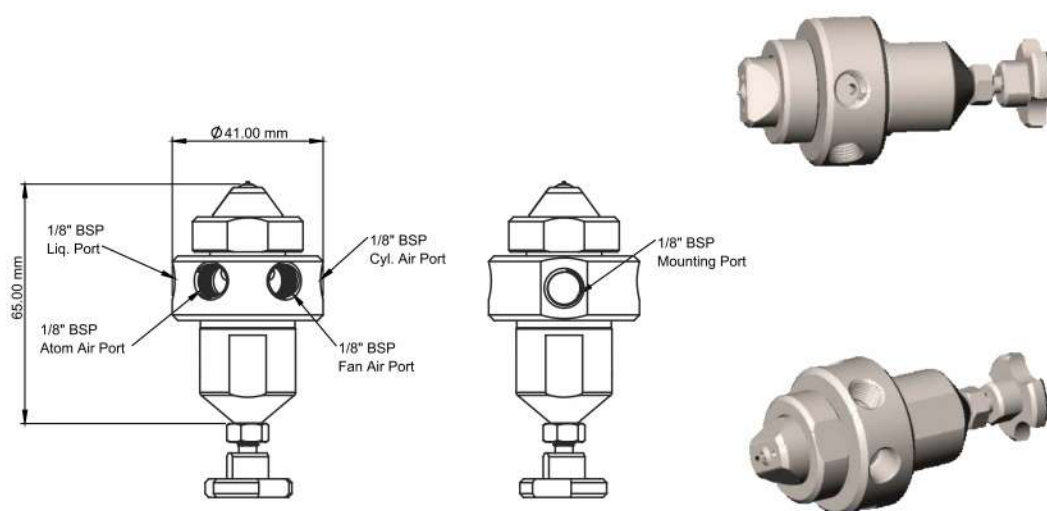
Low Maintenance

Compatible in all Coating Machines

Compatible in all Coating Machines Unique
Pan Pattern with angle adjustment option

Specification

Spray Nozzle	Type	ABGS 1120/1130, 1140
Spray Pattern	Oval Flat	Air Atomizing
Liquid Nozzle Orifice Size	mm	0.8 - 1.5 (1.0, 1.2)
Flow Rate(For Coating Application)	gm / min	15-120 g/min
Atomizing Air Pressure	bar	0.7 - 3
Spray Angle	deg	10 - 60 deg
Maximum Compressed Air Pressure	bar	5.0
Compressed Air Consumption (@ 2 bar)	Nm ³ / hour	8.0
Seal Material Standard Approvals	FDA	Approved



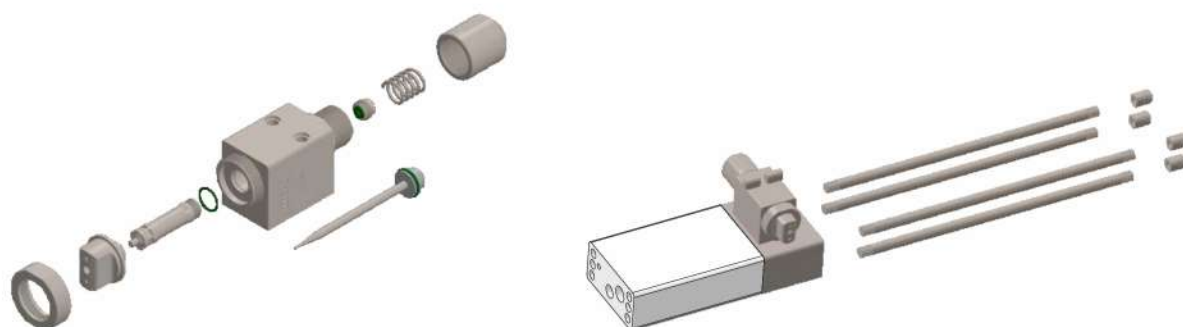
ABH-3000 Modular Spray Arm

The ABH variable automatic spray nozzle Assembly is compact in size to provide solutions to even the most demanding spray application challenges for main scale production as well as for Lab Coaters.



Specification

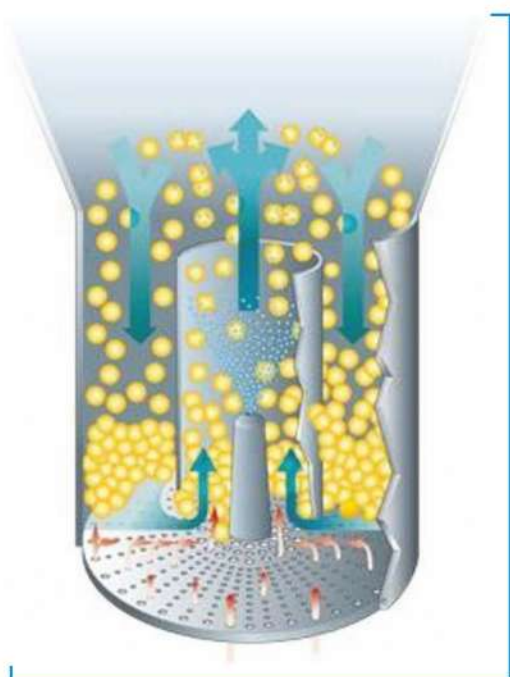
Spray Nozzle	Type	ABH 3000
Spray Pattern	Oval Flat	Air Atomizing
Liquid Nozzle Orifice Size Range	mm	0.8 - 1.5 (1.0, 1.2)
Flow Rate(For Coating Application)	gm / min	20-220 g/min
Atomizing Air Pressure	bar	0.7 - 4
Spray Angle	deg	10 - 60 deg
Maximum Compressed Air Pressure	bar	5.5
Compressed Air Consumption (@ 2 bar)	Nm ³ / hour	11.5
Seal Material Standard Approvals	FDA	Approved



Wurster Coating

Wurster coating, synonymous with fluid bed microencapsulation, is the encapsulation of discrete particles in a fluidized bed using differential air flow to create a cyclic movement of material.

The Wurster coating process can be applied to a range of core materials in numerous particle sizes and shapes.



Flow Chart

Pressure Liquid	1.5 mm orifice	1.8 mm orifice	2.0 mm orifice	2.2 mm orifice	2.5 mm orifice
1 Bar	1.4 lpm	2 lpm	2.47 lpm	2.95 lpm	3.65 lpm
1.5 Bar	1.75 lpm	2.45 lpm	3 lpm	3.6 lpm	4.2 lpm
2 Bar	2 lpm	2.84 lpm	3.6 lpm	4.3 lpm	5.1 lpm
3 Bar	2.45 lpm	3.35 lpm	4.4 lpm	5.08 lpm	5.7 lpm

Top Spray Coating Gun

An atomizing spray gun with tri-axial wand is the standard spray gun used with for fluid bed top spray coating. Solution, atomization air and cylinder air are supplied through the spray gun assembly, creating a non-cluttered, easy to use spray gun. The number of nozzles vary depending on the batch sizes.

Generally Standard head used for coatings are single.

* Single Head

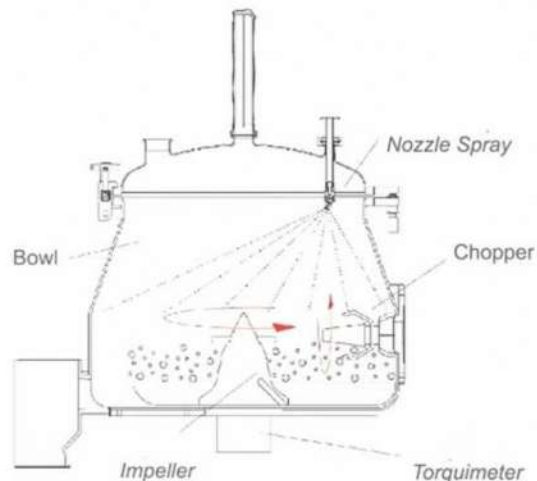


* Multi Head



RMG / HSG Spray Gun

Spray Gun is very important for binder spray & mixing of liquid in side RMG/HSG. It helps reduction of lumps during process & decrease the load capacity of equipment. For this purpose we designed different top spray center mounted Or side mounted with designated spray pattern & multiple heads.



Spray Lance & Spray Headers Fabrication

We are manufacturing "SPRAY LANCE & SPRAY HEADERS FABRICATION".

Spillback lances are extensively employed in a variety of industrial processes, including the production of cement, the incineration of waste, and the cooling of blast furnace gas in iron mills. They have a long history of dependable and efficient operation.

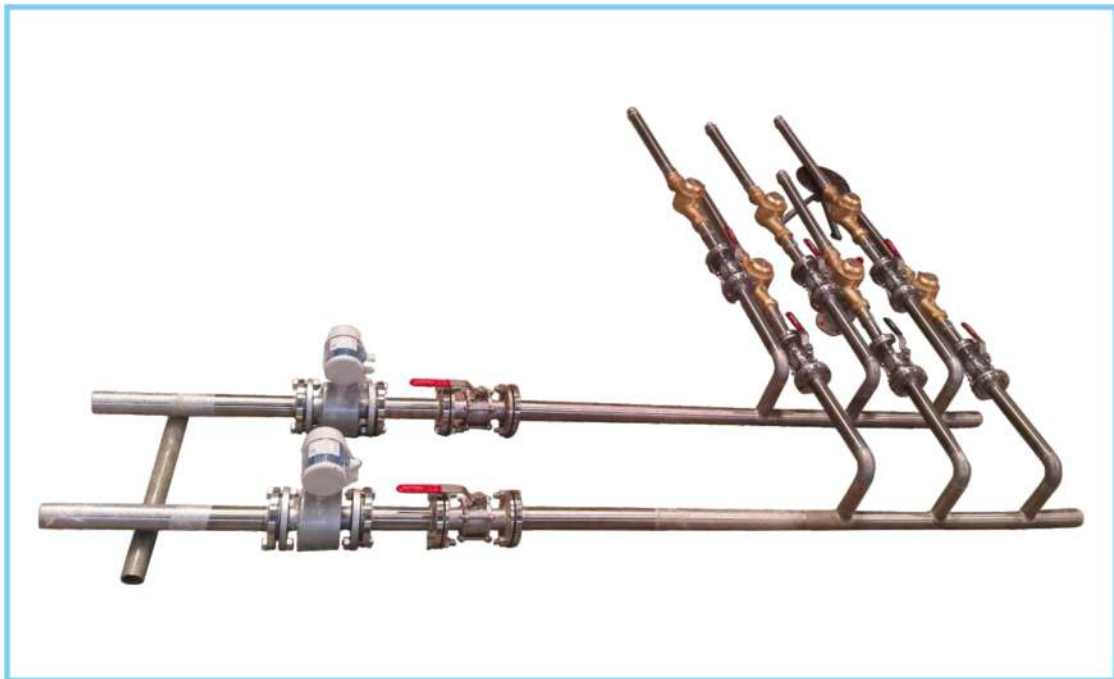
The only fluid passing through the nozzle in a spillback lance is the liquid being atomized, and this process operates on the basis of pressure atomization. By using an indefinitely variable capacity adjustment with a 1:10 ratio, spillback lances may create fine sprays throughout a large capacity range with little changes in other spray parameters, such droplet sizes.

With a normal spray angle of ninety degrees, the spray pattern is a hollow cone. With the spillback nozzle, a large variety of capacity values may be obtained.

Spray Lance



Spray Headers Fabrication



Water Jet Gun

MOC : SS - 304

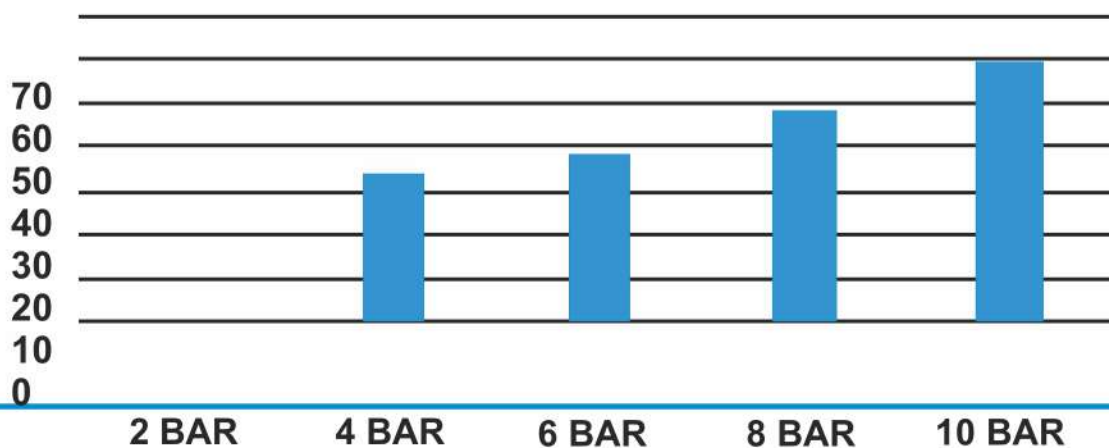
Operating pressure : 2 - 10 Bar
Max. Temperature : 90 Degree
Flow Rate : 20 - 60 LPM
Blue rubber surface cover
Adjustable spray pattern from hollow
cone to solid stream.



Flow Patterns.



New Chart



ACCESSORIES



CONNECTORS



THREADED NIPPLE



WELDED NIPPLE



COUPLING



BARB CONNECTORS



QUICK RELEASE COUPLING



OUR CLIENTS





Mican Engineers Pvt.Ltd.



Plot No.E5 Behind Sachin Hotel MIDC Aanand Nagar,
Ambernath (E), 421 506



mican.engineers@gmail.com



Mumbai : +91 77700 24084

Odisha : +91 91686 16574

Gujrat : +91 77700 24074

Hydrabad : +91 80187 87754

Himachal / Sikkim : +91 91686 16574



www.micanengineers.com