



Spray Nozzles & Systems for Pharmaceutical Industry





A World Class Indian Spray Nozzle Manufacturer

Spraytech Systems (India) Pvt. Ltd. was started by Shri. Bapusaheb Kharade, in early 2000 as a Spray Nozzle Manufacturer for replacement market catering to Steel Industries. Primarily company was started in a 1000 sq. feet workshop & within a decade it is elaborated to 7000 sq. feet modern factory. An another factory is started at Indapur 100 kms. away from Pune with a area of 2,00,000 sq. feet is again a big achievement for the Organisation. Recently Spraytech has started one another factory at Rabale (Navi Mumbai) with area of 13000 sq. feet. All three factories are facilitated with next generation class CNC machines, heavy material handling equipments to serve raising market demands with no compromise with world class product quality. Along with this field of engineering we are entered in forging to serve respective product demands.

"Spraytech" is a leading organisation & a good name in the market for mfg. of Spray Nozzles.

We attribute our success to our motivated and skilled work force who can accomplish job orders of varying magnitudes and complexities. We are proud to have esteemed customers who have entrusted their faith in us over the years.

The aim of our organization is customer satisfaction which is achieved through following objectives: Commitment to quality, Prompt response, Technological solutions, On time delivery, After sales service.

Our challenge is to meet the widely ranging delivery demands of an equally diverse customer base coupled with constant upgradation of production equipment and techniques to keep pace with new market trends and applications.

Spraytech Product Coding For TABLET COATING SPRAY NOZZLES

The following description will help to explain our Part Number/ Code in relation to the "SPRAYTECH" Spray Nozzle
EXAMPLE ORDERING.

SPRAYTECH	RA	10	M2L	XA
↓ Company Name	↓ Spray Nozzle Series	↓ Orifice Size	↓ Material Code	↓ Thread Type
	↓ Sub-type of Nozzles			↓ Thread Size

1) Spray Nozzles Series

R = Coating Nozzle

2) Sub Type of Nozzles



3) Orifice Size

05 = 0.5mm
08 = 0.8mm
10 = 1.0mm
12 = 1.2mm
15 = 1.5mm
18 = 1.8mm
20 = 2.0mm

4) Material code

M2 = SS316
M2L = SS316L

5) Thread Type Code

X = BSPP
Note : Special Connection on request

6) Thread Size code

A = 1/8" B = 1/4"
C = 3/8"
Note : Special Size on request

P1 = PVC (Polyvinylchloride)
P2 = PP (Polypropylene)
P3 = Teflon®/PTFE (Polyterafluoroethylene)
P4 = Nylon (Polyamide)
P5 = Delrin®/POM (Polyacetate)
P6 = PVDF (Polyvinylidene fluoride)
P7 = Polyethylene

Tablet Coating Spray Nozzles RC SERIES



Spraytech's RC Series tablet coating spray nozzle are specially designed to meet GMP requirements where surface texture plays very important role.

The unique Air Cap design makes it Anti Bearding and keeps coating process shutdown free, thus higher production ratio and quality requirements are achieved.

RC series spray nozzle is a compact device incorporating of independent controls for Liquid, Atomizing Air and Fan Air for fine tuning of spray capacity, droplet size and spray patterns. It is available in wide variety of spray setups that give a complete selection of flow rate and flat spray patterns.

R series spray nozzles are externally mix nozzles. This means the liquid and air are mixed outside of air cap to produce complete atomized spray.

The liquid atomization is controlled by varying atomizing air and fan air pressures 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 high viscosity liquids, coatings and suspensions.

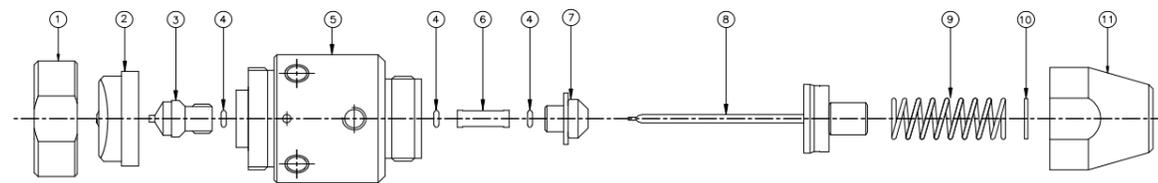
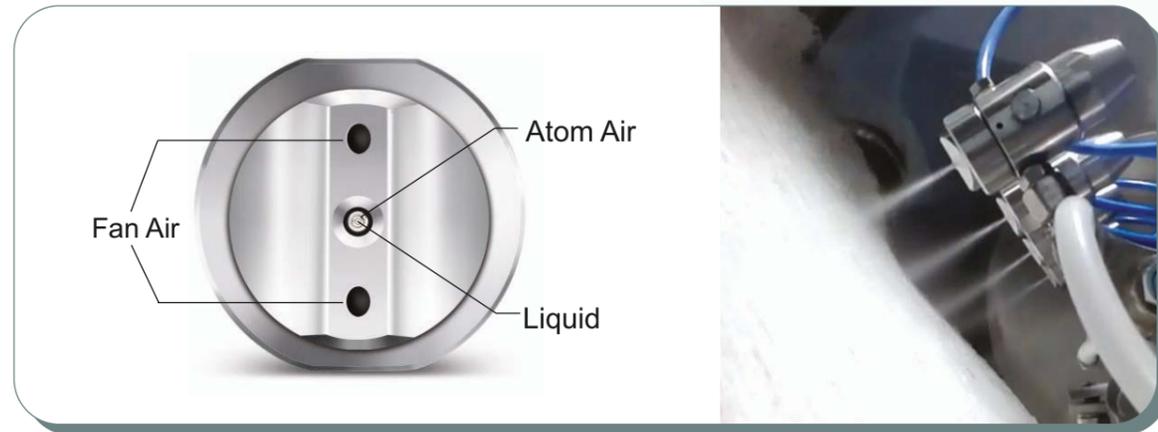
Tablet coating spray nozzle features a cylinder for controlled "on-off" operation. The cylinder controls a liquid clean-out/ Shut-off needle which also cleans the liquid orifice.

Spray Nozzle	Type	RC
Spray Type :	Airborne	Air Atomised
Liquid orifice size Range (standard)	mm	0.8 - 1.5, (1.0)
Solution Flow Rate (typical per nozzle)	Liters/hour	6 - 30
Atomizing Air Pressure Range	bar	0.7 - 3
Spray Width Pressure Range	bar	1.0 - 4.0
Maximum Compressed Air Pressure	bar	5.5
Compressed Air Consumption (maximum @ 2.0 bar)	Nm ³ /hour	10.5
Seal Material (standard) check compatibility for organic use	FDA	Approved

DESIGN FEATURES

1. Separate atomizing and fan air lines for complete control.
2. Provides variable coverage and fine control of drop size without affecting liquid flow rates.
3. Higher atomizing air pressure yields fine droplet size.
4. Higher fan air pressure yields broader patterns.
5. Non clogging and anti - bearding design

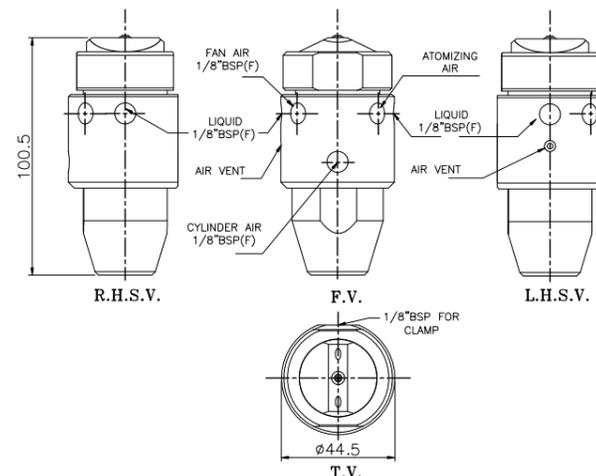
The R Series coating Spray Nozzle are a compact, precision nozzles. Incorporating independent controls of liquid atomizing air and fan air for fine tuning of spray capacity droplet size and spray patterns. It is available in a wide variety of spray Set-ups that give a complete selection of flow rates and flat spray patterns.



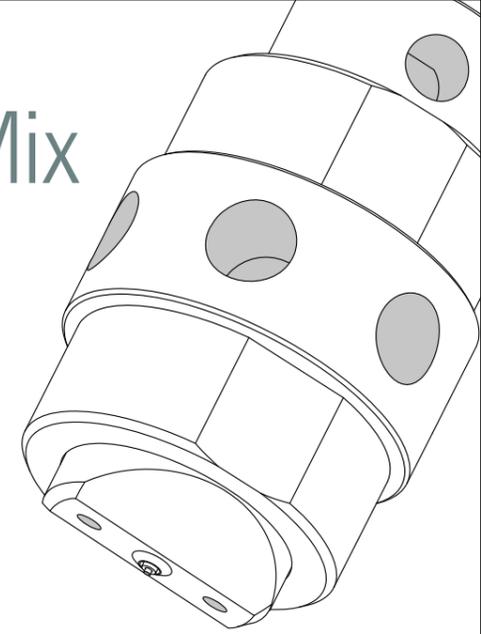
Part Details

- | | |
|-------------|--------------------|
| 1 Lock Nut | 7 Cup Seal Packing |
| 2 Air Cap | 8 Needle Assembly |
| 3 Fluid Cap | 9 Spring |
| 4 Seal | 10 Strainer Disc |
| 5 Body | 11 End Cap |
| 6 Spacer | |

Details of Inlet Connections

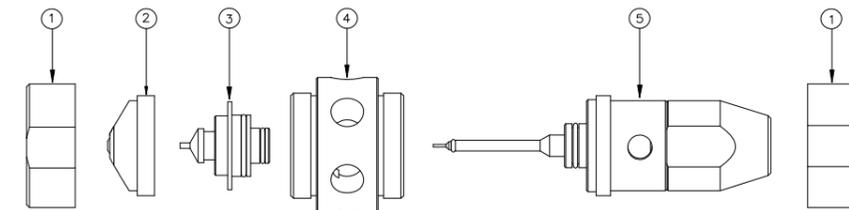


RB Series Flat External Mix Coating Spray Nozzles



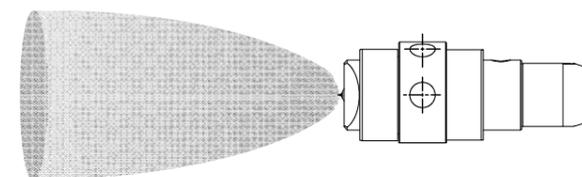
Design Summary :

- RB Series variable spray nozzles provide uniform spray distribution with uniform droplet sizes, even when spraying viscous fluids.
- For finest tuning of liquid flow rate along with spray pattern and droplet sizes independent controls are given in spray nozzles assembly.
- Suitable for large scale production.
- For various settings of spray droplet sizes separate air controller is given in spray nozzle assembly.
- Additional inlet /outlet port allows for liquid re-circulation that effectively maintains the flow of viscous liquids.
- Having removable auto shut off and spring loaded needle cylinder assembly is provided for maintenance.
(Liquid Orifice Range : 1.0 to 2.0 MM)



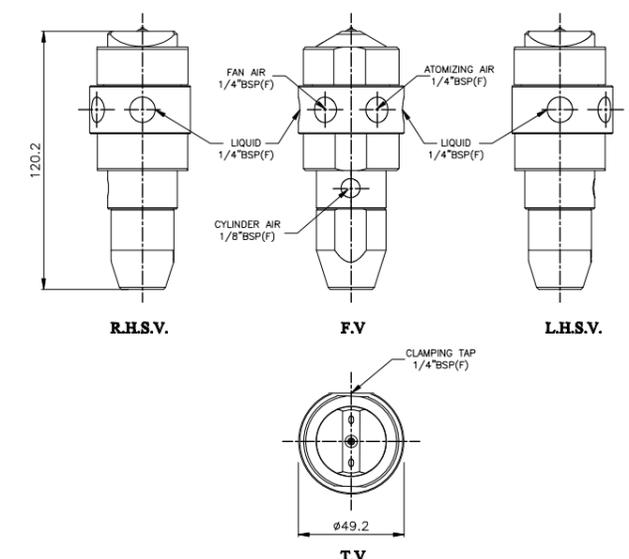
Part Details

- 1 Lock Nut
- 2 Air Cap
- 3 Fluid Cap
- 4 Body
- 5 Cylinder (Needle) Assembly



With fan air: Flat Spray Pattern.
Without fan air: Round Spray Pattern.

Details of Inlet Connections :



RAS Flat External Mix Coating Spray Nozzles



Liquid Orifice Range : 0.5 to 1.2 MM

RAS type tablet coating spray nozzle is very compact and light weight design and it comes with 4 ports of controls.

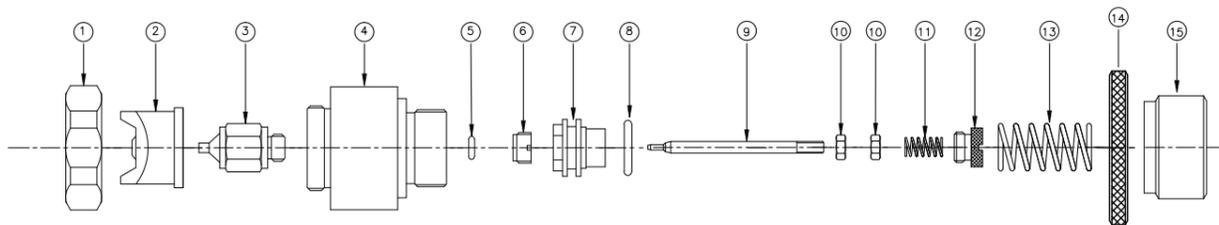
Externally mixed atomized spray properties could be changed as per need with fine tuning of individual pressures of Atomizing air, Fan Air & liquid pressure.

Integrated needle assembly provide the Auto-shut off and Auto Cleaning of liquid orifice.

RAS type spray nozzle is suitable for Lab-coater, Auto Coater and Conventional coater.

Spray setup available with Flat Fan, and Round Pattern.

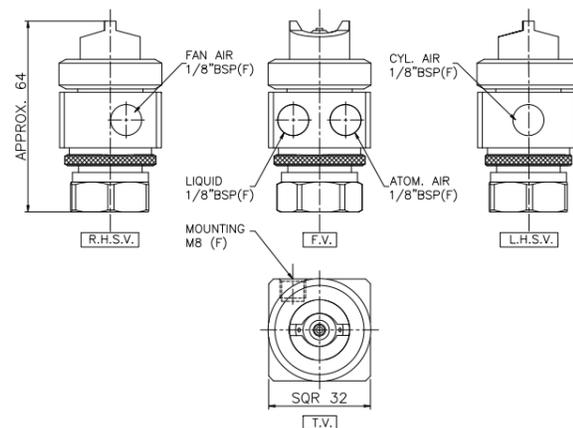
All Sealing materials are FDA Approved.



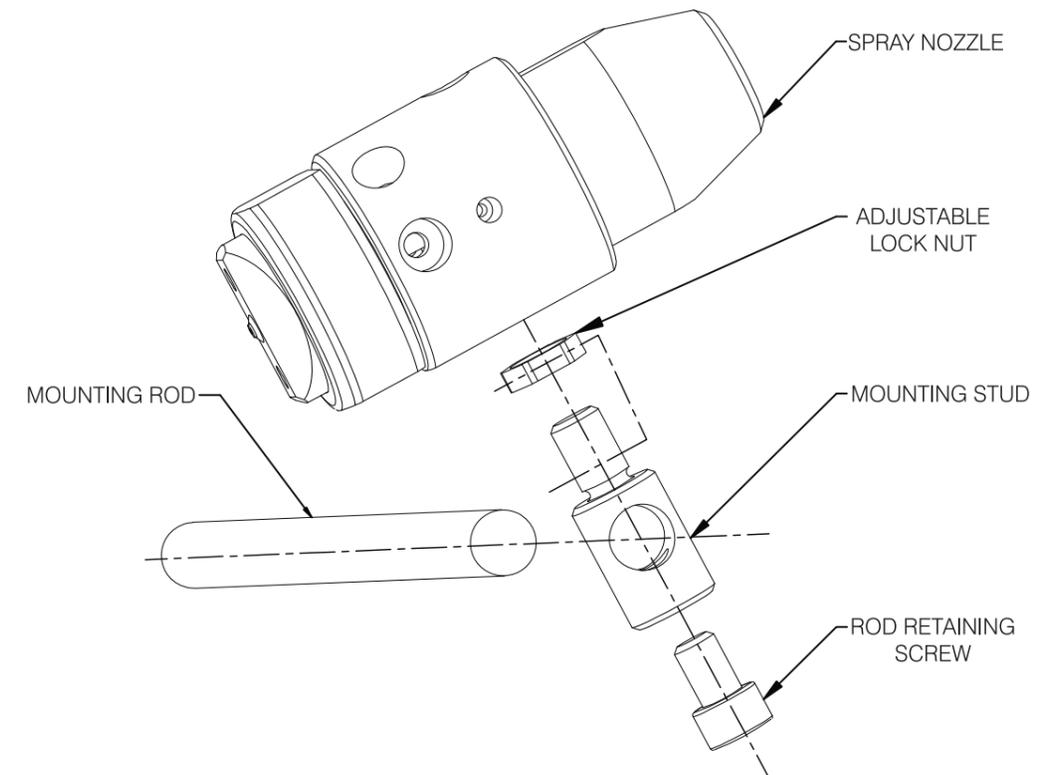
Part Details

- | | |
|----------------------|------------------|
| 1 Lock Nut | 9 Needle |
| 2 Air Cap | 10 Needle Nut |
| 3 Fluid Cap | 11 Needle Spring |
| 4 Body | 12 Packing Screw |
| 5 Seal | 13 Rear Spring |
| 6 Seal Guide Packing | 14 Retainer Nut |
| 7 Piston | 15 End Cap |
| 8 Seal | |

Details of Inlet Connections

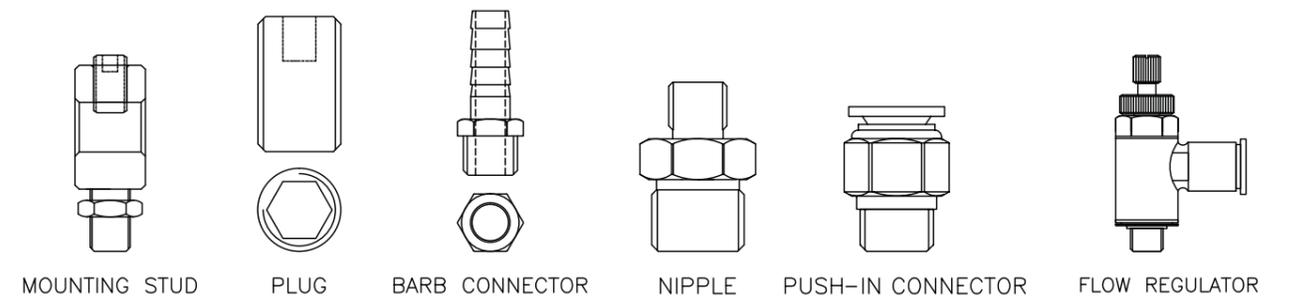


Mounting Assembly



Accessories

Optional Accessories available for R series coating spray nozzles



Tablet Coating Spray Nozzle

Customer Details

Company Name _____ Contact No. _____
 Contact Person _____ E-mail _____

Equipment Details

Equipment Auto Coater Conventional Coater Lab Coater
 Equipment Make _____ Pan Size (Inch) _____
 No. of Coating Nozzle at Present in Coater _____ Existing Coating Nozzle Coating Nozzles None

Existing Coating Nozzle Details

Manufacture Name _____ Model No. _____
 Material of Construction _____ Liquid Nozzle Orifice Size _____
 Coating Nozzle Features Anti Bearding Auto-Shut off / Anti-Drip
 No. Connection Ports on _____ Existing Coating Nozzle _____

Required Parameters for Spraytech Make Coating Nozzle :

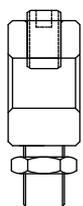
Spraytech Make Coating Spray Nozzle Model RAS RB RC
 Required Liquid Nozzle Orifice Size _____ Quantity _____

Spares :

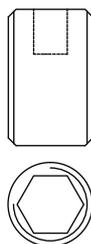
Spraytech Make Coating Nozzle Spares Air Cap Fluid Cap Needle Assembly O-Rings
 For Other Make Coating Nozzle Spares Air Cap Fluid Cap Needle Assembly
 (Please Provide Part Number and Sample)

Accessories for Coating Spray Nozzle (Please Refer Below Schematic for Selection) :

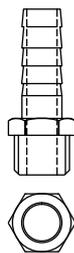
<input type="radio"/> Mounting stud	Rod size	_____	Qty. _____
<input type="radio"/> Plug	End connection	_____	Qty. _____
<input type="radio"/> Barb connector	Tube ID	_____	Qty. _____
<input type="radio"/> Nipple	End connection	_____	Qty. _____
<input type="radio"/> Push-in connector	End connection	_____	Qty. _____
<input type="radio"/> Flow regulator	End connection	_____	Qty. _____



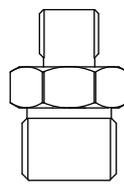
MOUNTING STUD



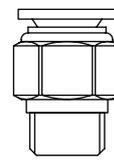
PLUG



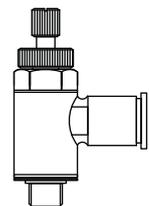
BARB CONNECTOR



NIPPLE

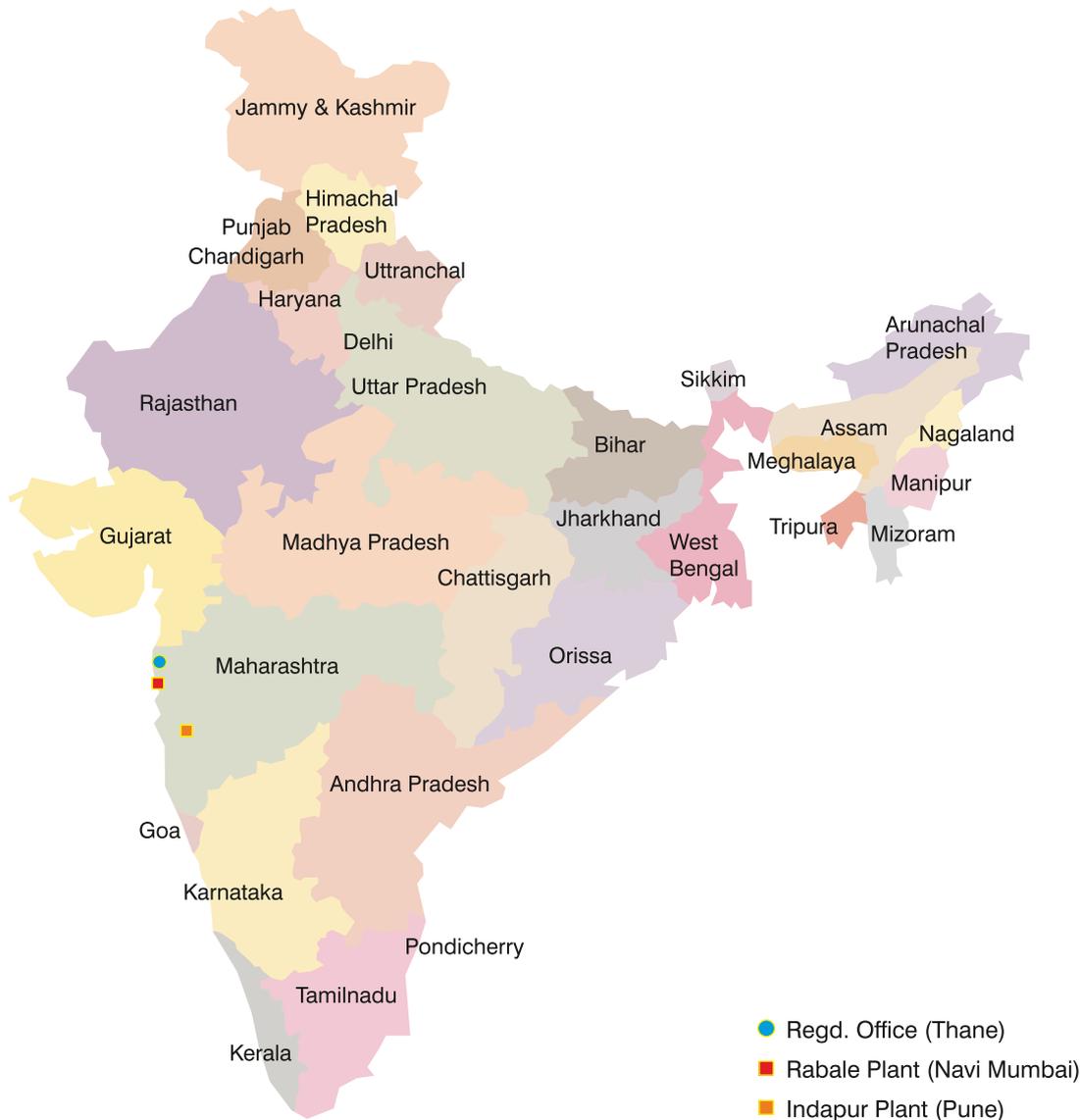


PUSH-IN CONNECTOR



FLOW REGULATOR

Spraytech Location Map



- Regd. Office (Thane)
- Rabale Plant (Navi Mumbai)
- Indapur Plant (Pune)

Regd. Office :
20 KMS from Mumbai International Airport



Regd. Office :

Spraytech House, Plot A-132, Road No. 23,
Spraytech Circle, Wagale Indl. Estate,
Thane (W) - 400 604. Mumbai - Maharashtra, (India)
Tel. : 91-022-2582 8929/2735/2736
Fax : 91-022-2581 2861
E-mail : sales@spraytechindia.com
sales1@spraytechindia.com

Rabale Plant :

Spraytech Systems (I) Pvt. Ltd.,
Plot No.: R-513, MIDC,
TTC Industrial Area,
Rabale, Navi Mumbai-400 701.

Indapur Plant :

Spraytech Systems (I) Pvt. Ltd.,
Plot No.: A-5,
Indapur Five Star Industrial Area
Village - Loni Devkar Balpudi,
Tal. - Indapur,
Dist. - Pune. 413103