



## Spray Nozzles & Systems for Pharmaceutical Industry



### Spraytech Products at a Glance

#### Flow Line Products

- Spray Nozzles
- Spray Systems
- Flow Control Elements
- Control Valves
- Strainers & Filters

#### Pharma Products

- FBP, FBE, FBC, Spray Nozzles & Lances
- Wurster Coating Lance / Nozzles
- Top Spray Lance / Nozzles
- RMG / HSMG Spray Lance / Nozzles
- Tablet Coating Spray Nozzles ( Guns )
- CIP Spray Nozzles

#### Forged Products

- Forged Fittings
- Flanges
- Valve Manifolds
- Check Valves
- Hydraulic Fittings
- Compression Tube Fittings

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# | TOP SPRAY



## TS 50

Spray Pattern : Full cone  
Spray Angle : 15°-20° (Variable)  
Orifice Range : 0.5 to 1.8 mm  
Suitable For Shell ID : up to 350 mm  
Flow Rate : 0.1 to 1.5 LPM (Water)  
Auto Shut Off Needle : No  
Mounting & End Conn. : Direct Connection



## TS 50AS

Spray Pattern : Full cone  
Spray Angle : 15°-20° (Variable)  
Orifice Range : 0.5 to 1.8 mm  
Suitable For Shell ID : up to 350 mm  
Flow Rate : 0.1 to 1.5 LPM (Water)  
Auto Shut Off Needle : Yes  
Mounting & End Conn. : Direct Connection



## TS 70

Spray Pattern : Full cone  
Spray Angle : 15°-20° (Variable)  
Orifice Range : 0.5 to 1.8 mm  
Suitable For Shell ID : up to 350 mm  
Flow Rate : 0.1 to 1.5 LPM (Water)  
Auto Shut Off Needle : No  
Mounting & End Conn. : Lance type



## TS 70AS

Spray Pattern : Full cone  
Spray Angle : 15°-20° (Variable)  
Orifice Range : 0.5 to 1.8 mm  
Suitable For Shell ID : up to 350 mm  
Flow Rate : 0.1 to 1.5 LPM (Water)  
Auto Shut Off Needle : Yes  
Mounting & End Conn. : Lance type



## TS 100

Spray Pattern : Full cone  
Spray Angle : 15°-20° (Variable)  
Orifice Range : 0.5 to 2.0 mm  
Suitable For Shell ID : up to 500 mm  
Flow Rate : 0.3 to 2.5 LPM (Water)  
Auto Shut Off Needle : Yes  
Mounting & End Conn. : Lance type



## TS 150

Spray Pattern : Full cone  
Spray Angle : 35°-45° (Variable)  
Orifice Range : 0.5 to 2.5 mm  
Suitable For Shell ID : up to 1000 mm  
Flow Rate : 0.5 to 3.0 LPM (Water)  
Auto Shut Off Needle : Yes  
Mounting & End Conn. : Lance type



## TS 300

Spray Pattern : Full cone  
Spray Angle : 60° and 90° (Fixed)  
Orifice Range : 0.5 to 2.5 mm  
Suitable For Shell ID : up to 1800 mm  
Flow Rate : 0.6 to 7 LPM (Water)  
Auto Shut Off Needle : Yes  
Mounting & End Conn. : Lance type



## TS 600

Spray Pattern : Full cone  
Spray Angle : 60° and 90° (Fixed)  
Orifice Range : 0.5 to 2.5 mm  
Suitable For Shell ID : up to 2500 mm  
Flow Rate : 0.6 to 10 LPM (Water)  
Auto Shut Off Needle : Yes  
Mounting & End Conn. : Lance type



## TS 700

Spray Pattern : Full cone  
Spray Angle : 90° (Fixed)  
Orifice Range : 0.5 to 2.5 mm  
Suitable For Shell ID : up to 2500 mm  
Flow Rate : 0.6 to 12 LPM (Water)  
Auto Shut Off Needle : Yes  
Mounting & End Conn. : Lance type

# | BOTTOM SPRAY



## WS 30

Spray Pattern : Full cone  
Spray Angle : 15°-20° (Variable)  
Orifice Range : 0.5 to 1.8 mm  
Flow Rate : 0.1 to 1.5 LPM (Water)  
Auto Shut Off Needle : No  
Mounting & End Conn. : On perforated sheet/Plate



## WS 50

Spray Pattern : Full cone  
Spray Angle : 15°-20° (Variable)  
Orifice Range : 0.5 to 1.8 mm  
Flow Rate : 0.1 to 1.5 LPM (Water)  
Auto Shut Off Needle : No  
Mounting & End Conn. : On perforated sheet/Plate



## WS 50AS

Spray Pattern : Full cone  
Spray Angle : 15°-20° (Variable)  
Orifice Range : 0.5 to 1.8 mm  
Flow Rate : 0.1 to 1.5 LPM (Water)  
Auto Shut Off Needle : Yes  
Mounting & End Conn. : On perforated sheet/Plate



## WS 70

Spray Pattern : Full cone  
Spray Angle : 15°-20° (Variable)  
Orifice Range : 0.5 to 1.8 mm  
Flow Rate : 0.1 to 1.5 LPM (Water)  
Auto Shut Off Needle : No  
Mounting & End Conn. : Lance type



## WS 70AS

Spray Pattern : Full cone  
Spray Angle : 15°-20° (Variable)  
Orifice Range : 0.5 to 1.8 mm  
Flow Rate : 0.1 to 1.5 LPM (Water)  
Auto Shut Off Needle : Yes  
Mounting & End Conn. : Lance type



## WS 100

Spray Pattern : Full cone  
Spray Angle : 15°-25° (Variable)  
Orifice Range : 0.5 to 2.0 mm  
Flow Rate : 0.2 to 2.5 LPM (Water)  
Auto Shut Off Needle : Yes  
Mounting & End Conn. : On perforated sheet/Plate



## WS 200

Spray Pattern : Full cone  
Spray Angle : 20°-25° (Variable)  
Orifice Range : 0.5 to 2.2 mm  
Flow Rate : 0.3 to 2.8 LPM (Water)  
Auto Shut Off Needle : Yes  
Mounting & End Conn. : Lance type



## WS 300

Spray Pattern : Full cone  
Spray Angle : 20°-25° (Variable)  
Orifice Range : 0.5 to 2.5 mm  
Flow Rate : 0.3 to 3.2 LPM (Water)  
Auto Shut Off Needle : Yes  
Mounting & End Conn. : Lance type



## WS 400

Spray Pattern : Full cone  
Spray Angle : 20°-25° (Variable)  
Orifice Range : 0.5 to 2.5 mm  
Flow Rate : 0.3 to 3.2 LPM (Water)  
Auto Shut Off Needle : No  
Mounting & End Conn. : Lance type

# TABLET COATING SPRAY GUN



## RB SERIES

Spray Pattern : Flat spray  
 Spray Angle : 60°  
 Orifice Range : 0.5 mm - 1.8 mm  
 Auto Shut Off Needle : Yes  
 No. Of Inlet Port : 4+1(spare liquid inlet)  
 No. Of O-Ring : 8 nos  
 Suitable For : Auto-Coater



## RC SERIES

Spray Pattern : Flat spray  
 Spray Angle : 60°  
 Orifice Range : 0.5 mm - 1.8 mm  
 Auto Shut Off Needle : Yes  
 No. Of Inlet Port : 4 + 1(spare liquid inlet)  
 No. Of O-Ring : 2 Nos  
 Suitable For : Auto-Coater



## RCS SERIES

Spray Pattern : Flat spray  
 Spray Angle : 60°  
 Orifice Range : 0.5 mm - 1.2 mm  
 Auto Shut Off Needle : Yes  
 No. Of Inlet Port : 4  
 No. Of O-Ring : 2 Nos (Version 1 & 3) & 3 Nos (Version 2)  
 Suitable For : Auto-Coater & Lab Coater



## RDS SERIES

Spray Pattern : Flat spray  
 Spray Angle : 60°  
 Orifice Range : 0.5 mm - 1.8 mm  
 Auto Shut Off Needle : Yes  
 No. Of Inlet Port : 3  
 No. Of O-Ring : 2 Nos + 1 no PTFE gasket  
 Suitable For : Auto-Coater & Conventional Coater



## RE SERIES

Spray Pattern : Flat spray  
 Spray Angle : 60°  
 Orifice Range : 1.0 mm - 2.5 mm  
 Auto Shut Off Needle : Yes  
 No. Of Inlet Port : 5  
 No. Of O-Ring : 2 Nos+2 no PTFE gasket  
 Suitable For : Sugar Coating  
 Features : Jacketed(Steam or Hot water)



## CAEA

Spray Pattern : Flat spray  
 Spray Angle : 60°  
 Orifice Range : 0.5 mm - 2.0 mm  
 Auto Shut Off Needle : No  
 No. Of Inlet Port : 2  
 No. Of O-Ring : 1 no PTFE gasket  
 Suitable For : Conventional Coater & Lab Coater



## DASA

Spray Pattern : Full cone  
 Spray Angle : 20 - 25°  
 Orifice Range : 0.5 mm - 2.0 mm  
 Auto Shut Off Needle : No  
 No. Of Inlet Port : 2  
 No. Of O-Ring : 1 no PTFE gasket  
 Suitable For : Conventional Coater & Lab Coater



## CAEA With Push in Needle & Ball joint Arrangement

Spray Pattern : Flat spray  
 Spray Angle : 60°  
 Orifice Range : 0.5 mm - 1.8 mm  
 Auto Shut Off Needle : No  
 No. Of Inlet Port : 2  
 No. Of O-Ring : 1 + 1 no PTFE gasket  
 Suitable For : Conventional Coater

## Optional Accessories available for R series coating spray nozzles



MOUNTING STUD FOR ROUND ROD (ACC405)



MOUNTING STUD FOR HEX ROD (ACC406)



PLUG (ACC006)



BARB CONNECTOR (ACC005)



TAPPED NIPPLE (ACC303)



PUSH-IN CONNECTOR (ACC304)



FLOW REGULATOR (ACC305)



'T' TYPE AIR FLOW REGULATOR (PUSH IN TYPE) (ACC306)



'T' TYPE PUSH IN CONNECTOR (ACC307)



'L' TYPE PUSH IN CONNECTOR (ACC308)



4 WAY PUSH IN CONNECTOR (ACC309)



MANUAL SOLENOID VALVE (ACC320)

# I RMG / HSG SPRAY NOZZLE & LANCE



## GL 50 / GN 50

Spray Pattern : Full Cone  
 Spray Angle : 15°-25°  
 No Of Head: Single  
 Orifice Range : 0.8 To 2.0 mm  
 Flow Rate : 0.1 To 1.5 Lpm (Water)  
 Auto Shut Off Needle : Yes  
 Mounting Position: Off Centre  
 Suitable Pump: Peristaltic Pump, AODD pump, Pressure Vessel.



## GL 70 / GN 70

Spray Pattern : Full cone  
 Spray Angle : 15°-25°  
 No of head: Single  
 Orifice Range : 0.5 to 2.5 mm  
 Flow Rate : 0.1 to 2 LPM (Water)  
 Auto Shut Off Needle : No  
 Mounting position: Off centre  
 Suitable Pump: Peristaltic Pump, AODD pump, Pressure Vessel.



## GL 100 / GN 100

Spray Pattern : Full cone  
 Spray Angle : 15°-25°  
 No of head: Single  
 Orifice Range : 0.8 to 3.0 mm  
 Flow Rate : 0.2 to 2.5 LPM (Water)  
 Auto Shut Off Needle : YES  
 Mounting position: Off centre  
 Suitable Pump: Peristaltic Pump, AODD pump, Pressure Vessel.



## GL 400 / GN 400

Spray Pattern : Hollow cone (combined)  
 Spray Angle : 90°  
 No of head: Four  
 Orifice Range : 1.0 to 5.0 mm  
 Flow Rate : 1.0 to 25 LPM (Water)  
 Auto Shut Off Needle : YES  
 Mounting position: Centre  
 Suitable Pump: Peristaltic Pump, AODD pump, Pressure Vessel.



## GL 410 / GN 410

Spray Pattern : Hollow cone (combined)  
 Spray Angle : 90°  
 No of head: Four  
 Orifice Range : 0.8 to 2.5 mm  
 Flow Rate : 0.5 to 5.0 LPM (Water)  
 Auto Shut Off Needle : YES  
 Mounting position: Centre  
 Suitable Pump: Peristaltic Pump, AODD pump, Pressure Vessel.



## GL 600

Spray Pattern : Hollow cone (combined)  
 Spray Angle : 90°  
 No of head: Six  
 Orifice Range : 1.0 to 7.0 mm  
 Flow Rate : 3.0 to 70 LPM (Water)  
 Auto Shut Off Needle : YES  
 Mounting position: Centre  
 Suitable Pump: Peristaltic Pump, AODD pump, Pressure Vessel.



## INTERNAL MIX TYPE

Spray Pattern : Hollow cone (Combined)  
 Spray Angle : 90°  
 Flow Rate : 1.0 to 50 LPM (Water)  
 Auto Shut Off Needle : Yes  
 Mounting position: Centre  
 Suitable Pump: AODD pump, Pressure Vessel.



# TANK CLEANING SPRAY NOZZLE



## EA

Features : Compact design suitable for Cleaning small vessel/tanks  
 Spray Angle : 180° ↓ 270° ↓ 360°  
 Cleaning Diameter : Upto 1.5 M  
 Type : Self - rotating.  
 MOC : SS304, SS316, PTFE



## EB

Features : Compact design suitable for Cleaning small vessel/tanks  
 Spray Angle : 180° ↓ 270° ↓  
 Cleaning Diameter : Upto 1.5 M  
 Type : Self - rotating.  
 MOC : SS304, SS316



## EC

Features : Jet type spray pattern, Best suitable For Glass lined reactors  
 Spray Angle : 270° ↓ 360°  
 Cleaning Diameter : Upto 2.5 M  
 Type : Self - rotating.  
 MOC : SS304, SS316, PTFE



## ECB

PTFE (with hastelloy ring)



## ED

Features : Flat spray tips for high impact cleaning  
 Spray Angle : 270° ↓ ↑ 360°  
 Cleaning Diameter : Upto 2.5 M  
 Type : Self - rotating.  
 MOC : SS304, SS316



## EDB

(Double Race Bearing)



## EE

Features : Suitable Large vessels, High impact cleaning with maximum reach  
 Spray Angle : 180° ↓ ↑ 270° ↓ ↑ 360°  
 Cleaning Diameter : Upto 4 M  
 Type : Self - rotating.  
 MOC : SS304, SS316



## EF

Features : Unique rotating disc design. Best suitable for FBD, FBP, FBC  
 Spray Angle : 180° ↓ ↑ 360°  
 Cleaning Diameter : Upto 2 M  
 Type : Self - rotating.  
 MOC : SS304, SS316



## EG

Features : Double sided bearing for effortless rotation Best suitable for SS reactors, Pharmaceutical Vessels  
 Spray Angle : 270° ↓ ↑ 360°  
 Cleaning Diameter : Upto 2.5 M  
 Type : Self - rotating.  
 MOC : SS304, SS316



## EH

Features : Uni body design Multiple orifice for high impact jet spray  
 Spray Angle : 180° ↓ 270° ↓  
 Cleaning Diameter : Upto 1.5 M  
 Type : Stationary  
 MOC : SS304, SS316, PTFE



## EI

Features : Uni body design, Multiple jet spray with high flow  
 Spray Angle : 180° ↓ 270° ↓ 360°  
 Cleaning Diameter : Upto 2.5 M  
 Type : Stationary  
 MOC : SS304, SS316



## EK

Features : Unique retractable type pop up nozzle Best suitable for isolators  
 Spray Angle : 270°  
 Cleaning Diameter : Upto 1 M  
 Type : Self - rotating, Retractable  
 MOC : SS304, SS316



## EL

Features : High impact Double jet with controlled rotation. Best suitable tanks above 4 meters  
 Spray Angle : 360°  
 Cleaning Diameter : Upto 20 M  
 Type : Self - rotating.(Gear driven)  
 MOC : SS316



## EM

Features : High impact Four jet with controlled rotation. Best suitable tanks above 3 meters  
 Spray Angle : 360°  
 Cleaning Diameter : Upto 18 M  
 Type : Self - rotating.(Gear driven)  
 MOC : SS316



## EN

Features : Unique rotating disc design.  
 Spray Angle : 360°  
 Cleaning Diameter : Upto 2 M  
 Type : Self - rotating.  
 MOC : SS316, C-PTFE



## EP

Features : Compact design with flat slit for high impact spray  
 Spray Angle : 360°  
 Cleaning Diameter : Upto 1.5 M  
 Type : Self - rotating.  
 MOC : SS316



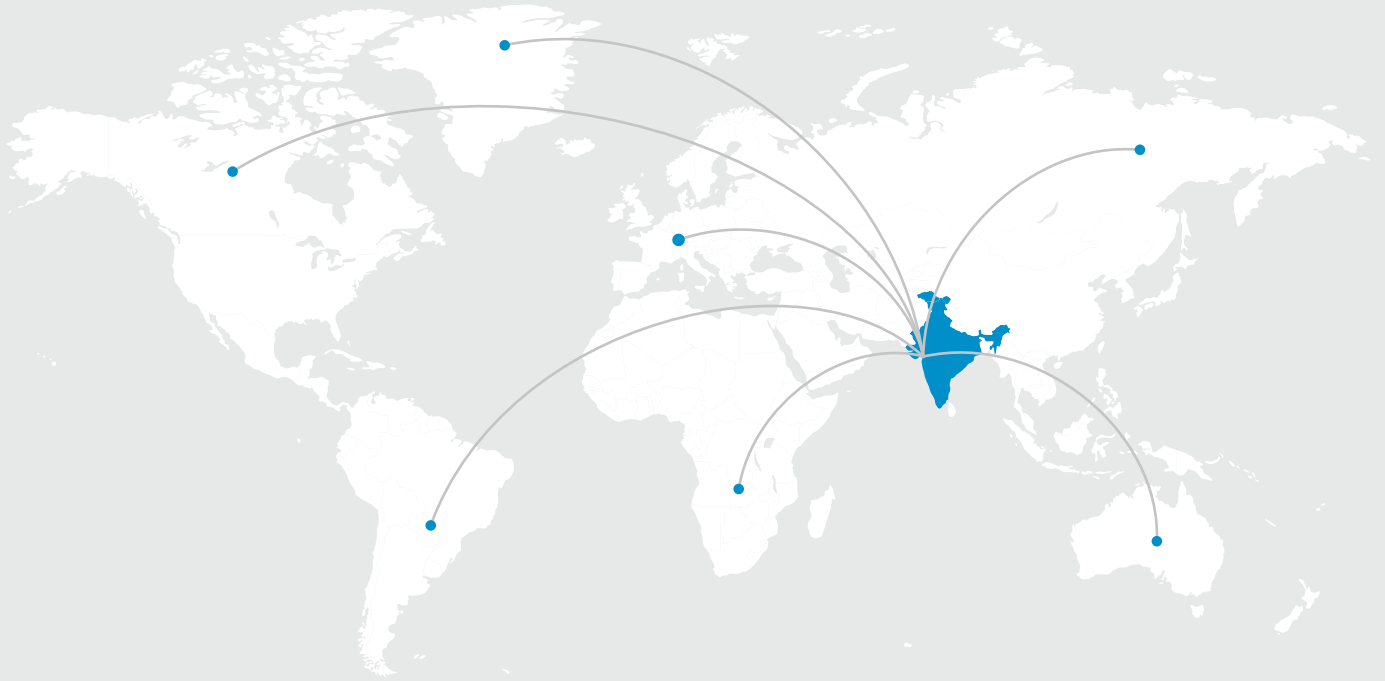
## EQA

Features : High impact, Compact design Double jet with controlled rotation. Best suitable tanks above 2 meters  
 Spray Angle : 360°  
 Cleaning Diameter : Upto 5 M  
 Type : Self - rotating.(Gear driven)  
 MOC : SS316



## EQB

Features : High impact Four jet with controlled rotation. Best suitable tanks above 3 meters  
 Spray Angle : 360°  
 Cleaning Diameter : Upto 8 M  
 Type : Self - rotating.(Gear driven)  
 MOC : SS316



# OUR BRANCHES

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