

Injection unit TS*i*

Plug & Spray...

ABICOR
BINZEL[®]
ROBOTIC SYSTEMS



TSi Anti-Spatter Injection Unit System Overview

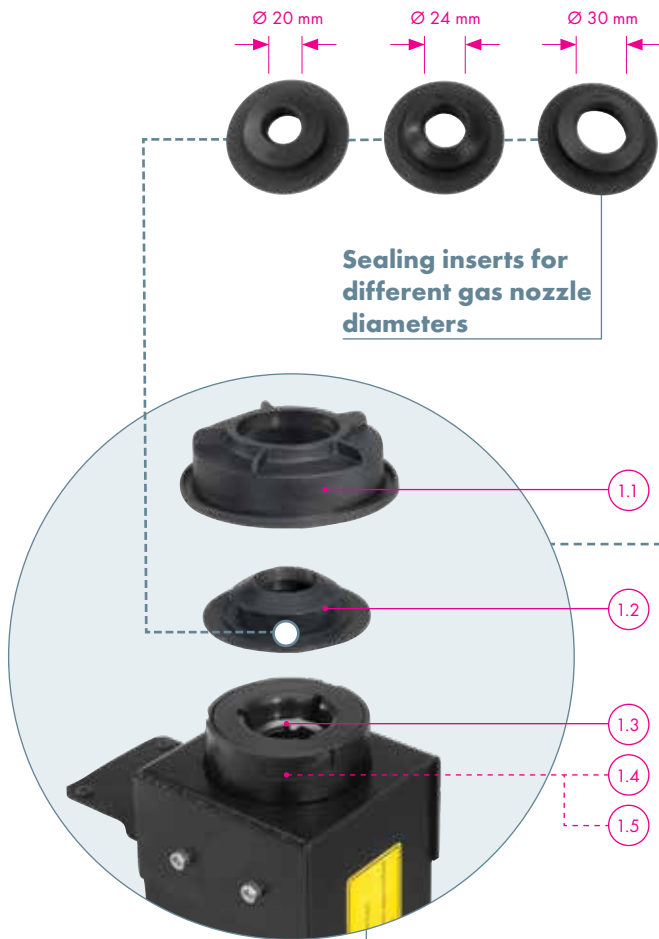


Figure 1:
Tool-free replacement
of spare parts by means
of bayonet fitting



Figure 2:
Sealed spraying
chamber



Injection unit TSi. Plug & Spray ...

The TSi from ABICOR BINZEL – the stand-alone welding torch injection unit for simple integration in existing or new processes. The spray pulse is triggered by the integrated activating mechanism as soon as the welding torch is moved into the TSi vertically up to the spraying position. This makes a complicated electric actuator or integration in the robot controller unnecessary.

In addition, the TSi scores with an economical and environmentally-conscious spraying process. The sealed spraying chamber prevents the anti-spatter fluid from escaping during the spray pulse and the infinitely variable spray fluid setting ensures correct dosing. Both enable the lowest

possible consumption of anti-spatter fluid and increase a safe and clean welding work environment.

Along with these features, the TSi guarantees the familiar and even coating of the cleaned welding torch inside and out – with ABICOR BINZEL's tried and tested anti-spatter fluid and in this way prevents weld spatter from sticking.

The TSi offers simple integration in the welding process, reliable welding torch maintenance and the efficient and environmentally-conscious use of anti-spatter fluid.

Detailed view of the roller push-button for controlling the valve

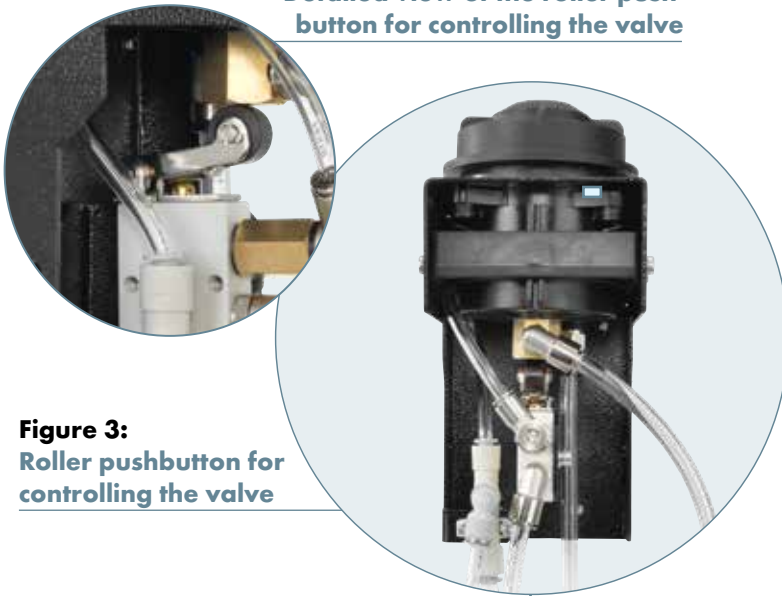


Figure 3:
Roller pushbutton for controlling the valve

■ **Figure 1:**
Tool-free replacement of spare parts by means of bayonet fitting

- 1.1 Device cover
- 1.2 Seal insert
- 1.3 Pressure flange
- 1.4 Injection nozzle
- 1.5 Collecting tank

■ **Figure 2:**
Sealed spraying chamber

No overspray and therefore no coating of the workpiece and the surroundings with anti-spatter fluid
 Individual sealing inserts for different gas nozzle diameters
 Even coating of the welding torch – inside and out
 Highly efficient spraying process
 Clean and safe welding environment

■ **Figure 3:**
Roller pushbutton for controlling the valve

Integrated activation mechanism
 Robot movement actuates the roller pushbutton and starts the spray pulse
 Robust and maintenance-free construction

■ **Figure 4:**
Dosing the anti-spatter fluid

Variable dosing of the anti-spatter fluid
 Easy to adjust using a flat-tip screwdriver
 Highly efficient spraying process guaranteed
 Economic and environmentally-conscious torch maintenance

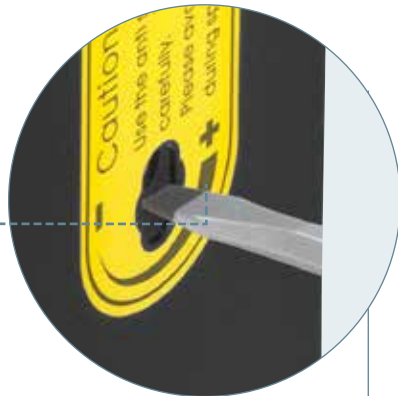
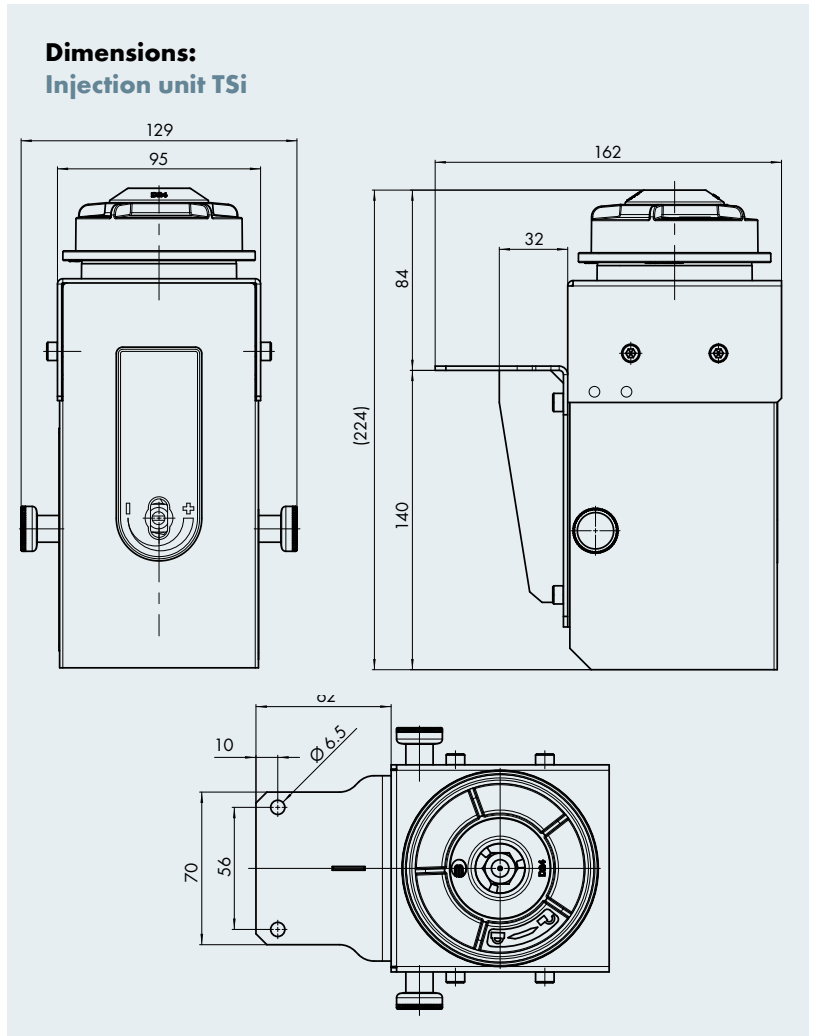


Figure 4:
Dosing the anti-spatter fluid

Arguments that speak for themselves:

- Simple activation – electric actuator not required
- Spray pulse activated by the robot movement
- No complicated integration into the robot controller
- Sealed and highly efficient spraying process – no overspray
- Clean and safe welding environment
- Low consumption of the anti-spatter fluid
- Plug & spray – no programming needed

Technical Data & Dimensions

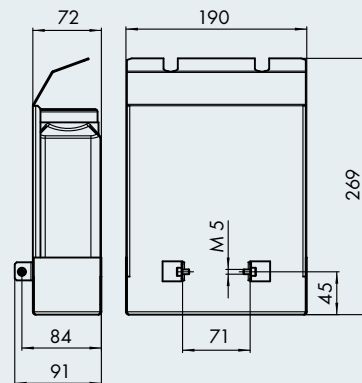


Technical Data:
Injection unit TSi

General information:

- Weight:** 3.3 lbs/1.5 kg (without anti-splatter fluid)
- Ambient temperature in operation:** 32°F to 104°F/0 °C to +40 °C
- Relative humidity in operation:** up to 90% at 20 °C
- Pneumatic connection:**
- Connection port:** \varnothing 8 mm
- Operating pressure:** min. 72 PSi up to max. 87 PSi

Dimensions (in millimeters):
TSi bottle holder



TSi Anti-Spatter Injection Unit

Replacement Parts



Injection unit TSi

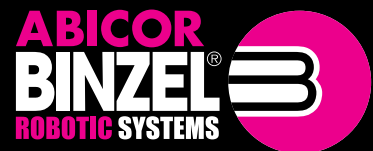
No.	Type	Description	Part-No.
1	Injection unit TSi	Injection unit TSi incl. 1 liter anti-spatter fluid and three sealing inserts (Ø 20, 24, 30 mm)	830.2285.1

Spare parts for the injection unit TSi

No.	Type	Description	Part-No.
2	Device cover	Device cover with bayonet fitting	830.2237
3	Sealing insert: Ø 20 mm Ø 24 mm Ø 30 mm	Seal to the gas nozzle	830.2232 830.2233 830.2234
4	Pressure flange	Contact surface of the gas nozzle for spray pulse activation	830.2265
5	Injection nozzle	Injection nozzle for the even distribution of the anti-spatter fluid	830.2133
6	Collecting tank	Collecting tank and filter for excess anti-spatter fluid	830.2240
7	Anti-spatter fluid	1 liter bottle 5 liter canister	192.9017 192.9012
not ill.	Fixing bracket TSi	Fixing bracket for attaching the TSi to torch cleaning stations	831.0824



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