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Southern Paper Group
Turn to us.

SPG Ruby Trim Squirt Nozzle Overview



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Introduction-

SPG Trim Squirt nozzles are standard equipped with 1 (single “S”) or 2 (dual “D”) or 3 (triple “T” Razir Jet™ series only) precision manufactured synthetic Red Ruby jeweled orifices to provide exceptional spray characteristics.

Trim Squirt Product Family-

Two (2) types of Trim Squirt nozzles offered by SPG-

- **“18” Series**
 - Available in Brass (360 grade) or 316 stainless steel body with ruby orifice
- **Razir Jet™ Series**
 - Stainless steel (316 grade) with ruby orifice
 - Anti-stick Forest Green coating with stainless steel (316 grade) with ruby orifice.

Materials of construction-

Two (2) standard materials of construction for trim squirt nozzle bodies (red ruby jeweled orifice inserts are standard).

- **Brass (360 grade)** body with ruby orifice
- **Stainless steel (316 grade)** with ruby orifice
 - **Anti-stick coating** over stainless steel (316 grade) with ruby orifice available on Razir Jet™ Series- Coating is FEP (fluorinated ethylene propylene) Forest Green in color.

Part Number Identification-

Trim squirt identification for SPG trim squirt nozzles is simple. The part number is laser marked on each nozzle.

Part numbers as marked on the nozzle indicate the orifice size of the sprayed needle jet in “thousands of an inch” by using a three digit variable “xxx” where “xxx” is equal to the nozzle orifice size in thousands of an inch. For example .020 would be shown as “020” or PARTNUMBER020.

This method of part identification is used for single, dual and triple jet trim squirt nozzles - regardless of the number of jeweled ruby orifices in the nozzle body; the “xxx” is the orifice size diameter of the needle jet for each of the rubies in the nozzle. For example if the nozzle is marked with “020” and has three ruby orifice jewels- each ruby orifice jewel has a jet diameter of .020”. For actual part number examples by nozzle series refer to the latest SPG Nozzle Catalog.

Accessories-

Trim squirt accessories include-

- Wire Mesh Filter Screens
- Slip on Teflon® angled “Drip Tip” for TT and DT series
- Filter adapters are also available for using a standard 3/8” male npt filter with the STP, DTP and TTP also referred to as the “10mm” series

Refer to the latest SPG Nozzle Catalog for part number specific to each nozzle series.

Razir Jet™ Series – Premier Trim Squirt Nozzles

- Razir Jet™ series trim squirt nozzles are constructed of 316 stainless steel bodies.
- Available with 1, 2 or 3 ruby jeweled orifice(s) inserts for producing high precision needle jets for accurate smooth edge trimming.
- Anti-stick external coating on 316 stainless steel body option.



Razir Jet™ Series Types -STP, DTP, TTP -

Razir Jet™ trim squirt nozzles with 10mm metric thread connection, dual o-rings and independently angled tip alignment allows for ease of leak free installation and the ability to rotate the nozzle tip without affecting the water feed connection.

Part Numbers for this series begin with STP, DTP and TTP have 1, 2 or 3 ruby orifices.

Advantages of the type STP DTP and TTP Razir Jet™ nozzles-

- Fits many existing installations for units made with male 10mm metric threaded connection on nozzle holder.
- Can upgrade existing systems currently using 1/8" npt connection by using adapter part number 10mm18SS and 10mm18SS-C to effectively adapt thread from 10mm to 1/8" male npt.
- Independent from threaded connection the "drip tip" can be radially positioned without changing radial position of the primary nozzle connection to the water feed.
- Filters - With optional adapter for 10mm thread to 1/8" npt adapter (part numbers 10mm18SS solid 316 stainless steel or 10mm18SS-C for Anti-Stick coated shown below) the 10mm series can accept industry standard stainless steel 100 mesh Filters with female 1/8" npt x 3/8" male npt connection.
- Ease of installation and adjustability due to independent swivel angled tip and threaded connection to water feed.
- No Teflon® tape required to seal 10mm connection thread to original equipment nozzle holder- dual o-rings ensure positive sealing to nozzle holder.

Below are images of the body type STP, DTP and TTP shown with some options and accessories – refer to latest copy of SPG Nozzle Catalog for details.



Figure 1 – shows DTP10mm025 with 10mm thread and dual o-rings



Figure 2 – shows DTP10mm025 and adapter 10mm18SS and filter SA6100R (100 mesh 1/8” female npt x 3/8” npt male connection).



Figure 3 – Shows items in Figure 2 assembled.

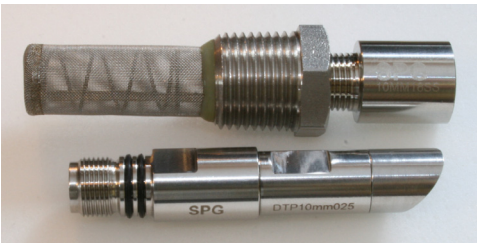


Figure 4 - Shows DTP10mm025 (dual .025” ruby orifice) alone and with optional adapter 10mm18SS installed in option 100 mesh 316 stainless steel filter SA6100R



Figure 5 – 1/8” npt to 10mm thread adapters shown top and bottom faces- 10mm18SS (left two images) and 10mm18SS-C (right two images)

Razir Jet™ Series - Types RSDS, RSDD and RSDT 1/8” male npt connection-

Advantages of the type RSDS, RSDD and RSDT Razir Jet™ nozzles-

- Fits most existing installations for units made with male 1/8” npt connection on nozzle holder.
- Fixed angle “Drip Tip” rotates radially with 1/8” npt connection thread.
- Accepts industry standard stainless steel 100 mesh Filter type with female 1/8” npt x 3/8” male npt connection.
- Available with Anti-Stick coating (shown below)-
- Economical high performance nozzle-



Figure 1 – Shows RSDD025-C with 100 mesh 316 stainless steel filter SA6100R

“18 Series” Trim Squirts –
TT, DT, TTS, DTS style 1/8” male npt connection –



- Fits most existing installations for units made with male 1/8” npt connection on nozzle holder.
- Available in 360 Brass or 316 Stainless Steel body construction with or without optional slip on Teflon® “drip tip” (sold separately as part number TTTIP)
- Single or Double red ruby orifice jewel insert.
- Accepts industry standard stainless steel 100 mesh Filter type with female 1/8” npt x 3/8” male npt connection.
- High performance and flexibility at economical price.



Figure 7 – (left) DT025-S (Brass body double .025” ruby with Teflon® “drip tip”) assembled with Filter SA6100R and (right) DTS025 (316 stainless steel body dual .025 ruby) assembled with optional filter SA6100R