



Your global partner for high quality powder coating

Injector Function principle

Injectors are based on the <u>Venturi principle</u> and are sometimes referred to Venturi

(Giovanni Battista Venturi, *1746, +1822)





The higher the flow rate, the lower the static pressure in a pipe in the environment.

https://www.youtube.com/watch?v=Na9ORhYjvJU



Injector function principle







Digital Valve Control DVC





Injector OptiFlow IG06

Keep it smart and simple!

- robust Design
- Simple Maintenance
- Powder output until 250 g/min
- No powder depositons
- Coded quick release couplings
- 2 conductive O-Rings
- Easy exchangeable Injector nozzle





Injector OptiFlow IG06 Versions

IG06 (Standard)

Part Nr. 1007 780

Used for: Manual units OptiFlex series PH / HF - hoppers





IG06-P

Part Nr. 1007 779

Used for: OptiCenter OC01, OC02, OC04



Insert Sleeve / IG06



Copy Protection

 Insert sleeve with keyed alignment (triangular cone with an axis offset compensation)







Caution:

The use of a copied insert sleeve can lead to the wear of the injector body (compact fusion)



Stability of an injector over time





Plug gauge IG06









IG06 – Maintenance





Important

Items 9

Filter elements - Ø 9/4x27 mm Part Nr. 1003 698# are **wearing parts**! Dirt, Oil and water can clogg the filter elements. Replace at least once a year / 1 shift



Important

Item 10

Nozzle Part Nr.1006 488 (*New:Part Nr.1006491*) Partly clogged or mechanically damaged nozzle can lead to the early wear of the Insert sleeve. Convince your customers to check / clean the nozzle and resplace it , if mechanically damaged



Injector IG06 NEWS

New Injector sleeve

Injector sleeve IG06 with glass insert

Material 1) Glass = Robust against abrasion Material 2) ETFE = Resistant to most chemical solvents!

(11/2014)





Benefits of the injector sleeve:

The glass insert is very robust against abrasion The injector sleeve provides a uniform powder output during the life time of the glass part Remarks:

Glass as a friction material in combination with powder can cause impact fusion. Therefore a periodically check and cleansing of the injector nozzle is essential! For the cleansing of the injector

sleeve, solvents can be applied!

Part-No.

1010 424

Injector IG06 Comparison Teflon versus Glass sleeve





Examples of bad maintenance

Defective O -Rings



Compact fusion on injector body / nozzle





