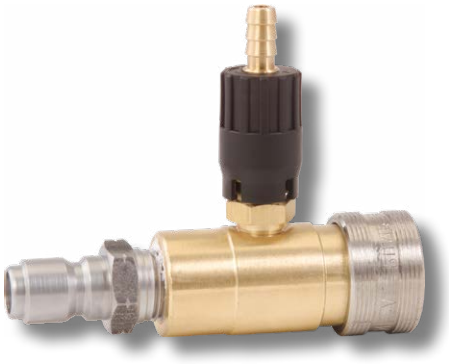
**GENERAL PUMP** *A member of the Interpump Group*

# Adjustable Injector

***Quick Connect - SS Plug / SS Plug & Collar***



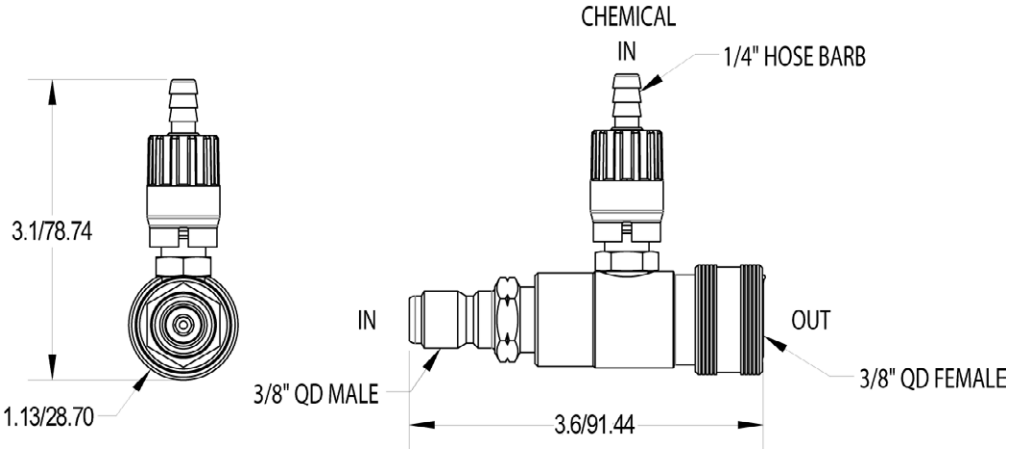
## FEATURES

- **Adjustable chemical draw rate**
- **Easy installation with quick disconnects**
- **Made in the USA**
- **Cost effective solution for chemical application**

## SPECIFICATIONS

| Model | 100653 | 100654 | 100655 | 100763 | 100764 | 100765 |
|---|---|---|---|---|---|---|
| Style | Adjustable | | | | | |
| Pressure | 3,500 PSI | | | 4500 PSI | | |
| Flow Range | 2 - 3 GPM | 3 - 5 GPM | 5 - 8 GPM | 2 - 3 GPM | 3 - 5 GPM | 5 - 8 GPM |
| Max Temp | 190º F | | | | | |
| Inlet Port | 3/8” M-QD | | | | | |
| Outlet Port | 3/8” F-QD | | | | | |
| Chemical Port | 1/4” Hose Barb | | | | | |
| Collar | Brass | | | Stainless Steel | | |
| Dimensions | 3.7” x 3.1” x 1.2” | | | | | |
| Weight | 6.4 oz | | | | | |
| Materials | Brass, Stainless Steel, Viton, Nylon | | | | | |

## DIMENSIONAL DRAWING






ACCESSORIES

# *GP Injector*

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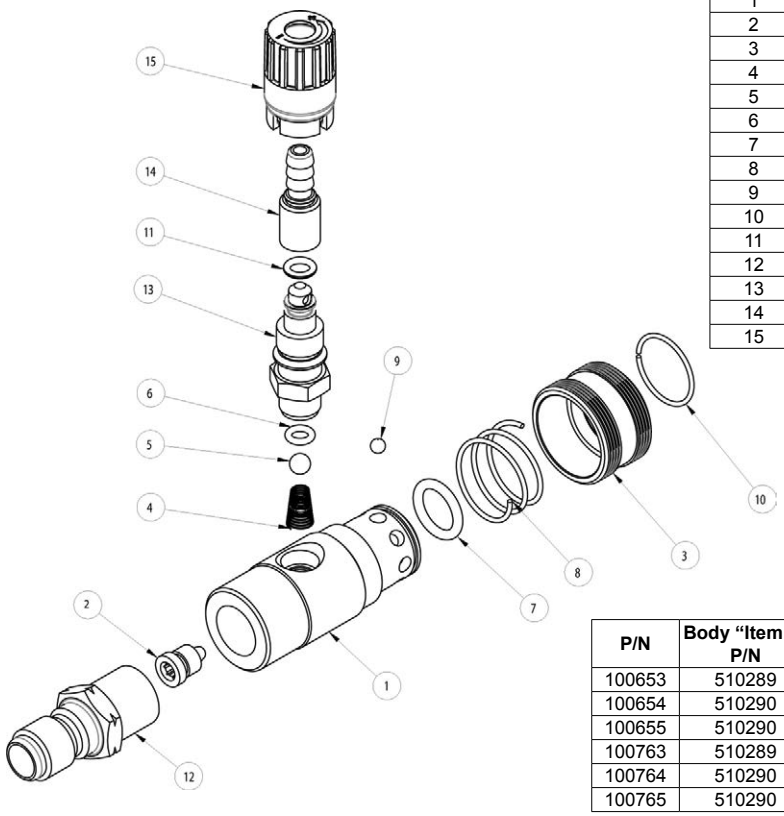
## INSTALLATION

**This product is to be used with clean, fresh water. For different or corrosive liquids, contact GP Technical Service Department. With not clean liquids, appropriate filtration should be installed. Select the injector based on the nomnal operating rating; system rated pressure, max flow and max temperature. Install valve with direction arrow pointing downstream. For proper operation a control device such as a dual lance wand, quick couple nozzles, or an adjustable nozzle holder must be used to lower the system pressure at the nozzle.**
**Under no circumstances should the pressure of the system exceed the maximum rated pressure of any component.**

## TROUBLESHOOTING

| Problem | Cause | Solution |
|---|---|---|
| Chemical Injector will not draw Chemical | Incorrect nozzle | Check and change nozzle |
| | System is not in low pressure mode | Change or adjust nozzle to put system in low pressure mode |
| | Discharge hose is too long | Reduce length of discharge hose or change injector* |
| | Chemical line is clogged | Clear chemical line of obstruction |
| Rate of draw seems too slow | Discharge hose is too long | Reduce length of discharge hose or change injector* |
| | Air leak in chemical line | Locate and repair leak |
| | Chemical is too viscous | Reduce chemical with water to decrease its viscosity |
| Chemical Injector is leaking from hose barb | Onstruction in hosebarb checkvalve | Disassemble and remove obstruction |
| | Damaged o-ring in checkvalve | Remove and replace o-ring |
| Excessive pressure load on pump, motor or engine | Clogged injector | Clear injector orifice of obstruction |
| | Improperly sized injector orifice | Change orifice* |
| *Contact GP Technical Service for Assistance | | |

## PARTS LIST




| Item No. | Part Number | Description | Qty. |
|---|---|---|---|
| 1 | See Table | Housing, Injector | 1 |
| 2 | See Table | Nozzle, Injector | 1 |
| 3 | See Table | Collar, 3/8" QD | 1 |
| 4 | 720040 | Spring, Conical, .473FL., 316SS | 1 |
| 5 | 520008 | Ball, 7/32, 316SS | 1 |
| 6 | 701008V | O-Ring, 70 Duro, Viton, .176ID x .070CS | 1 |
| 7 | 701049 | O-Ring, 70 Duro, Viton, .487ID x .103CS | 1 |
| 8 | 720041 | Spring, .920 OD, .62 FL, 320 SS | 1 |
| 9 | 520117 | Ball, 5/32, 440C | 8 |
| 10 | 202031 | Retaining Ring, .74 ID, .048 CS 302SS | 1 |
| 11 | 701501 | O-Ring, 70 DURO, Viton .208ID x .070CS | 1 |
| 12 | 520136 | Nipple, 3/8"QD x 3/8" NPT-M, 416SS, 4SST-3M | 1 |
| 13 | 510413 | Post, ADJ Hose Barb, High Draw, Brass | 1 |
| 14 | 510412 | Barb, Adj. Hose Barb, Brass | 1 |
| 15 | 660166 | Knob, Adj. Hose Barb | 1 |

| P/N | Body "Item 1" P/N | Body Thru Hole DIA | Nozzle "Item 2" P/N | Nozzle Orifice | Collar "Item 3" P/N |
|---|---|---|---|---|---|
| 100653 | 510289 | .098 | 520116 | 1.8 mm | 510249 |
| 100654 | 510290 | .116 | 520115 | 2.1 mm | 510249 |
| 100655 | 510290 | .116 | 520127 | 2.3 mm | 510249 |
| 100763 | 510289 | .098 | 520116 | 1.8 mm | 520166 |
| 100764 | 510290 | .116 | 520115 | 2.1 mm | 520166 |
| 100765 | 510290 | .116 | 520127 | 2.3 mm | 520116 |

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**Ref 310120 Rev. A**
**05-18**

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