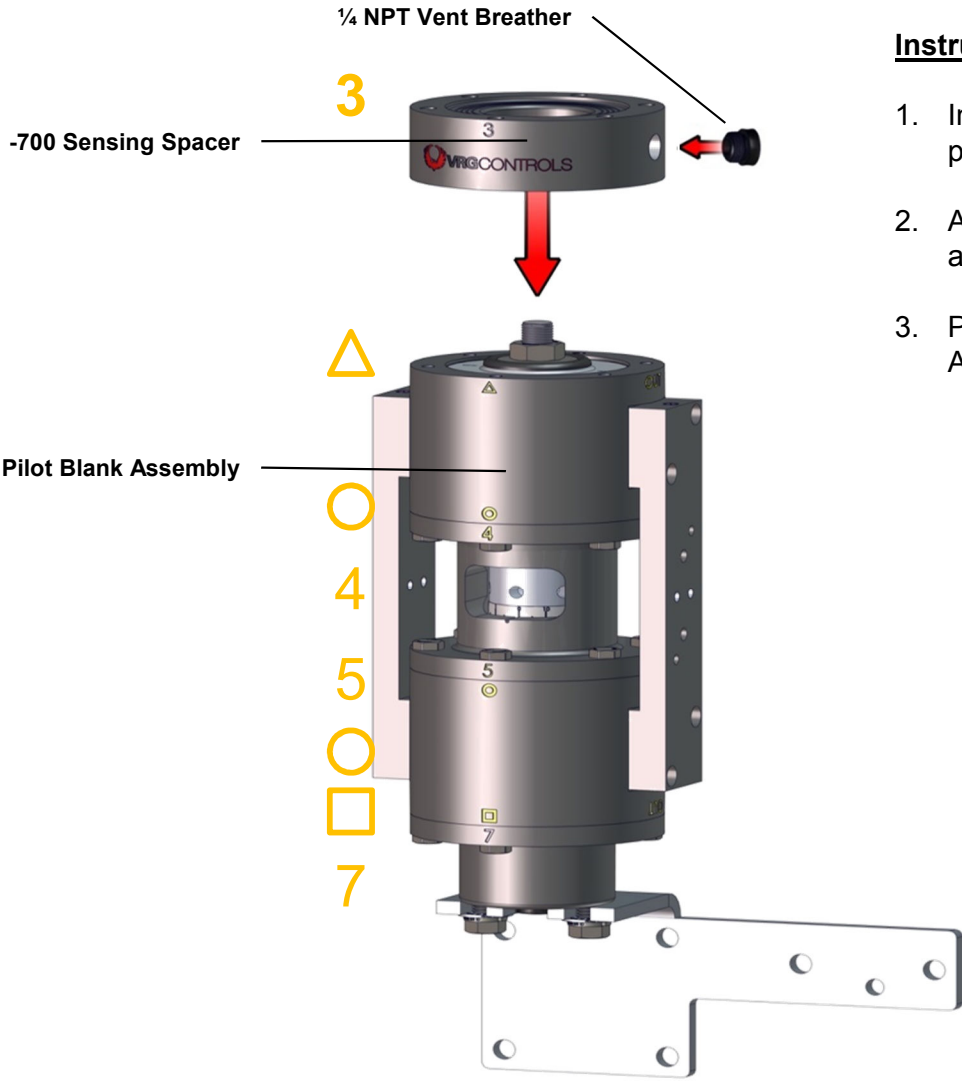




VPC-700-DA-SN Assembly Instructions

Install -700 Sensing Spacer on Pilot Blank Assembly



Instructions:

1. Install 1/4 NPT Vent Breather into NPT port on vent port on -700 Sensing Spacer
2. Align -700 Sensing Spacer with logo facing front of assembly (in-line with Adjusting Drum Window)
3. Push -700 Sensing Spacer onto Pilot Blank Assembly

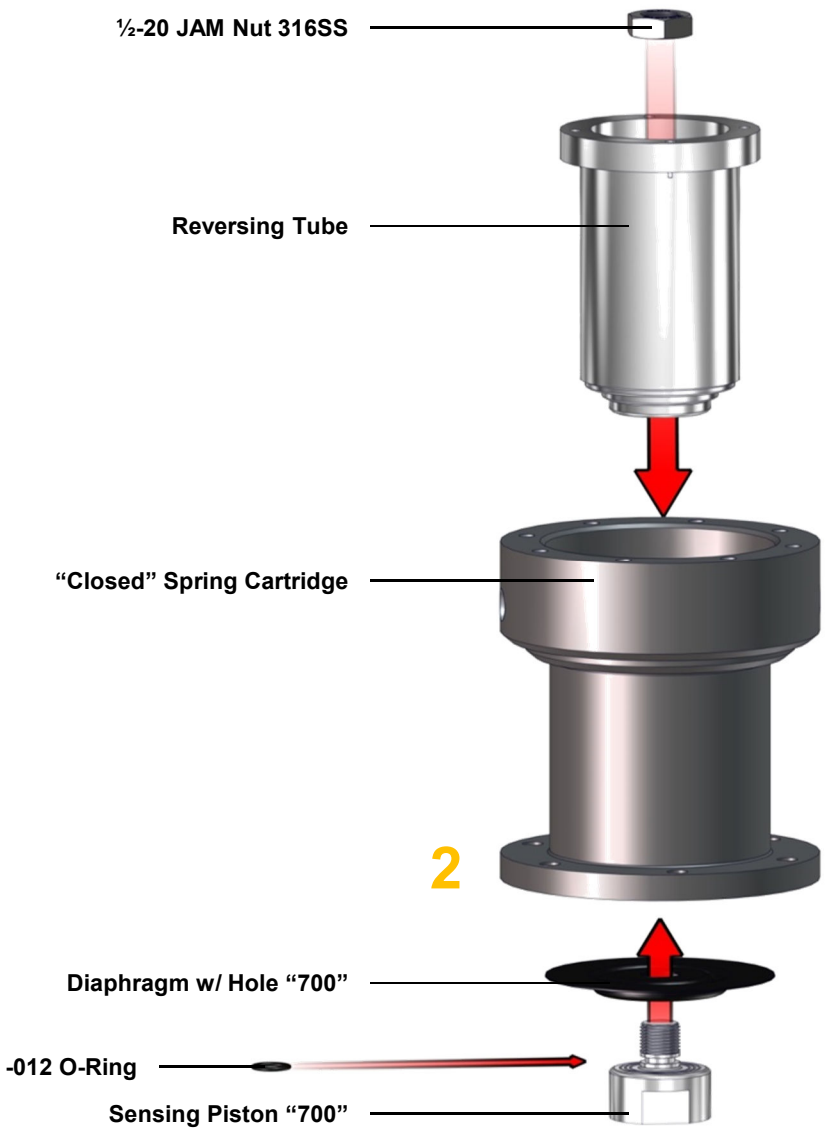
Pilot Blank Assembly with -700 Sensing Spacer Installed



Pilot Blank Assembly with -700 Sensing Spacer Installed (QTY 1)



Assemble Closed Spring Cartridge Assembly



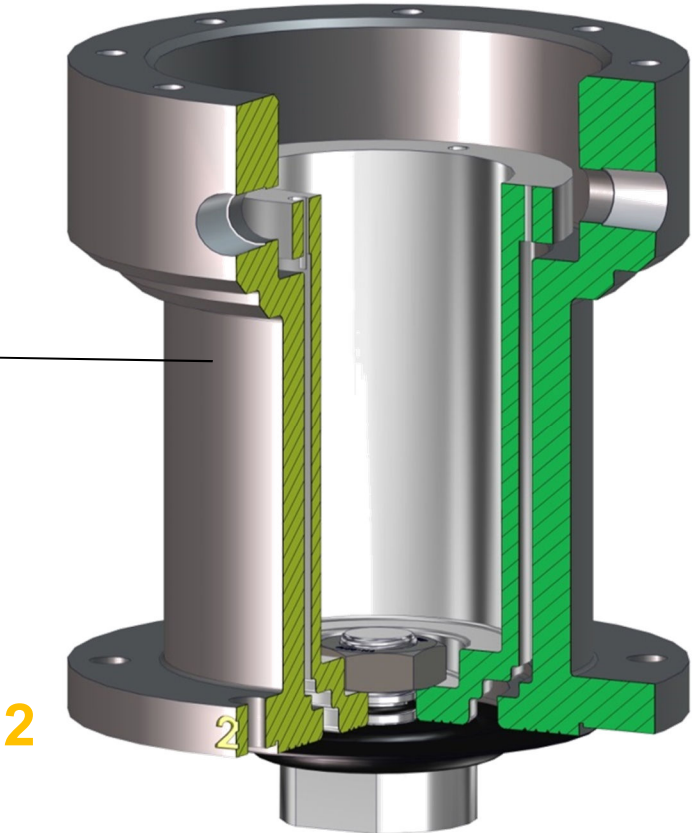
Instructions:

1. Lubricate and Install -012 O-Ring onto -700 Sensing Piston
2. Install -700 Diaphragm with convolute facing DOWN onto -700 Sensing Piston
3. Engage -700 Sensing Piston & Diaphragm into bottom of Closed Spring Cartridge
4. Insert Reversing Tube into Top of Closed Spring Cartridge
5. Using a 3/4 in Deep Well Socket, Install 1/2 - 20 Jam Nut 316SS to engage entire assembly and tighten to 110 in-lbs.

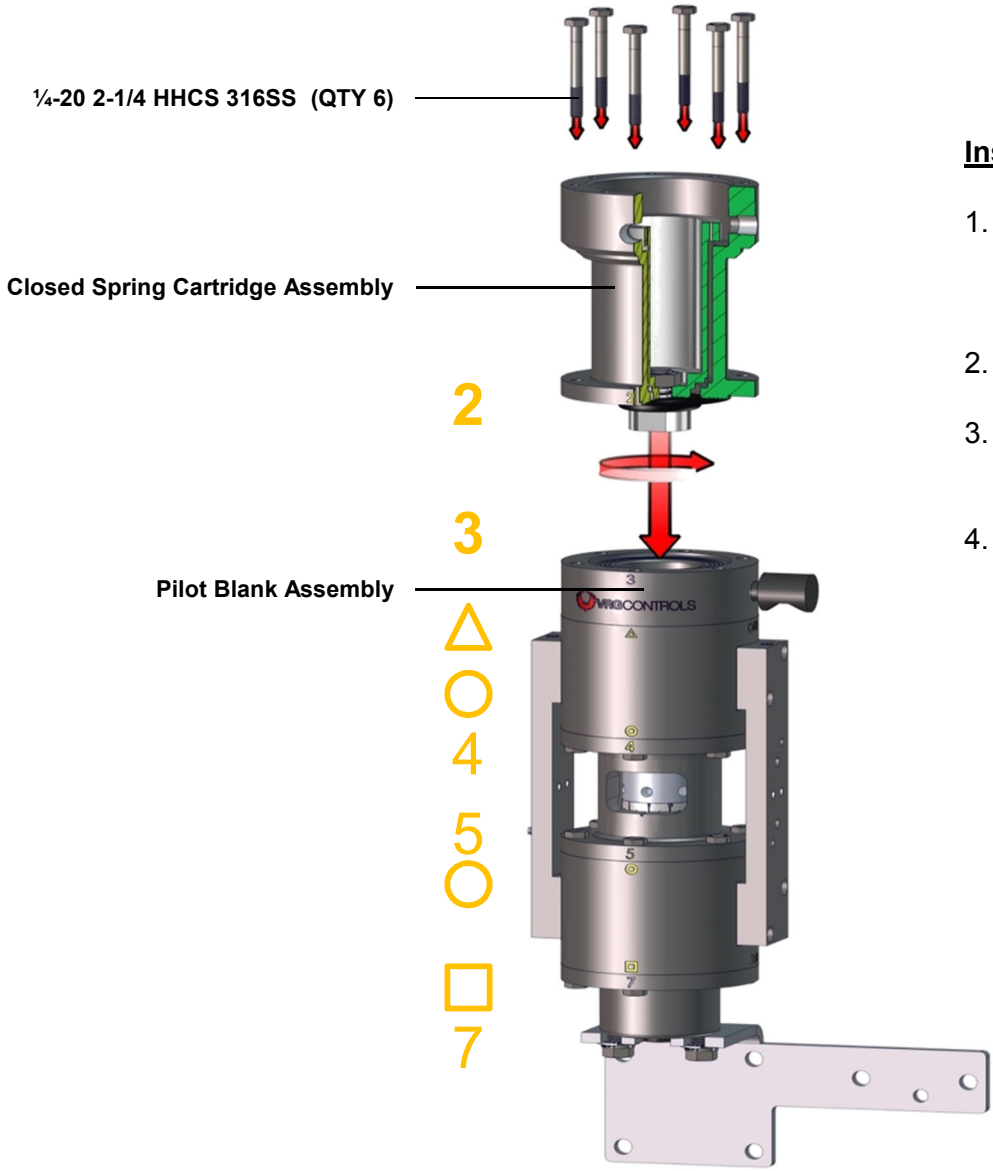
Closed Spring Cartridge Assembly



Closed Spring Cartridge Assembly



Install Closed Spring Cartridge Assembly onto Pilot Blank Assembly



Instructions:

1. Thread entire Closed Spring Cartridge Assembly onto Seat & Nozzle Piston on top of Pilot Blank Assembly until it is fully engaged.
2. DO NOT TIGHTEN BEYOND FINGER TIGHT.
3. Rotate until #2 aligns with #3 on front of assembly.
4. Install 1/4-20 2-1/4 HHCS 316SS and tighten firmly in star pattern (QTY 6)

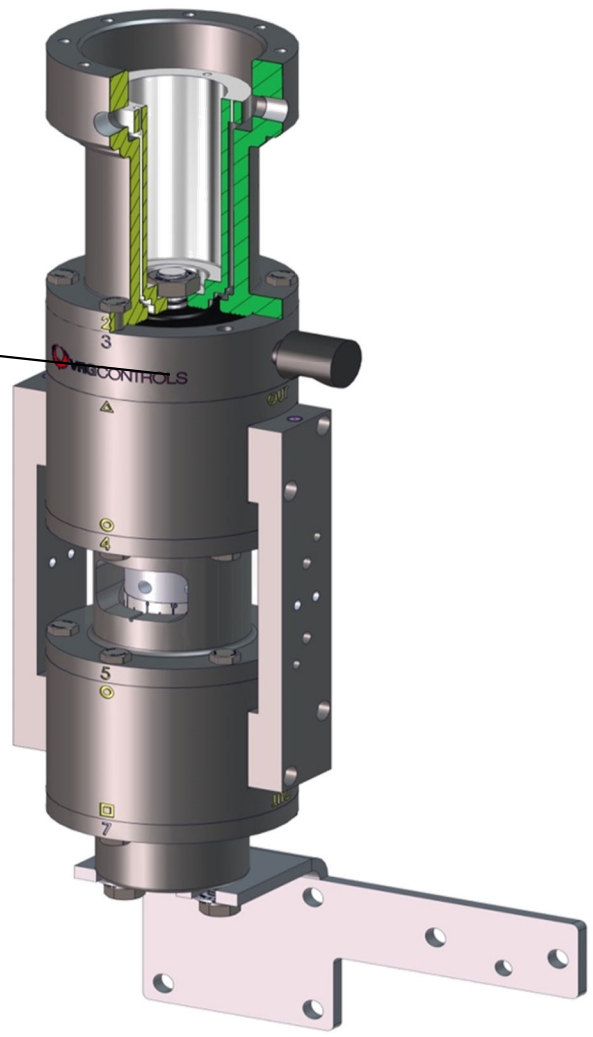
Pilot Blank Assembly with Closed Spring Cartridge Assembly Installed



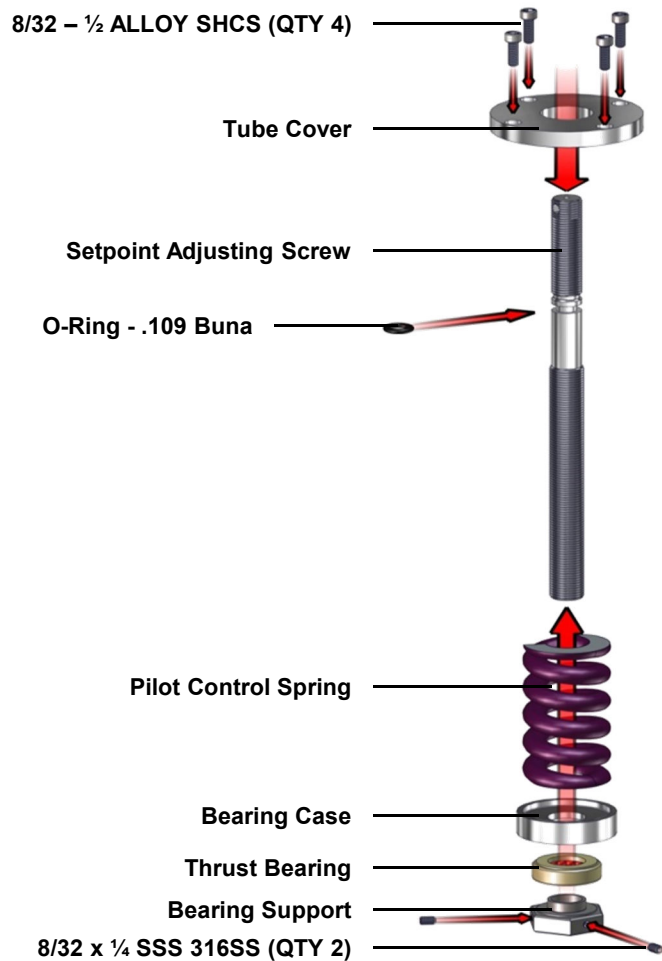
Pilot Blank Assembly with Closed Spring Cartridge Assembly Installed



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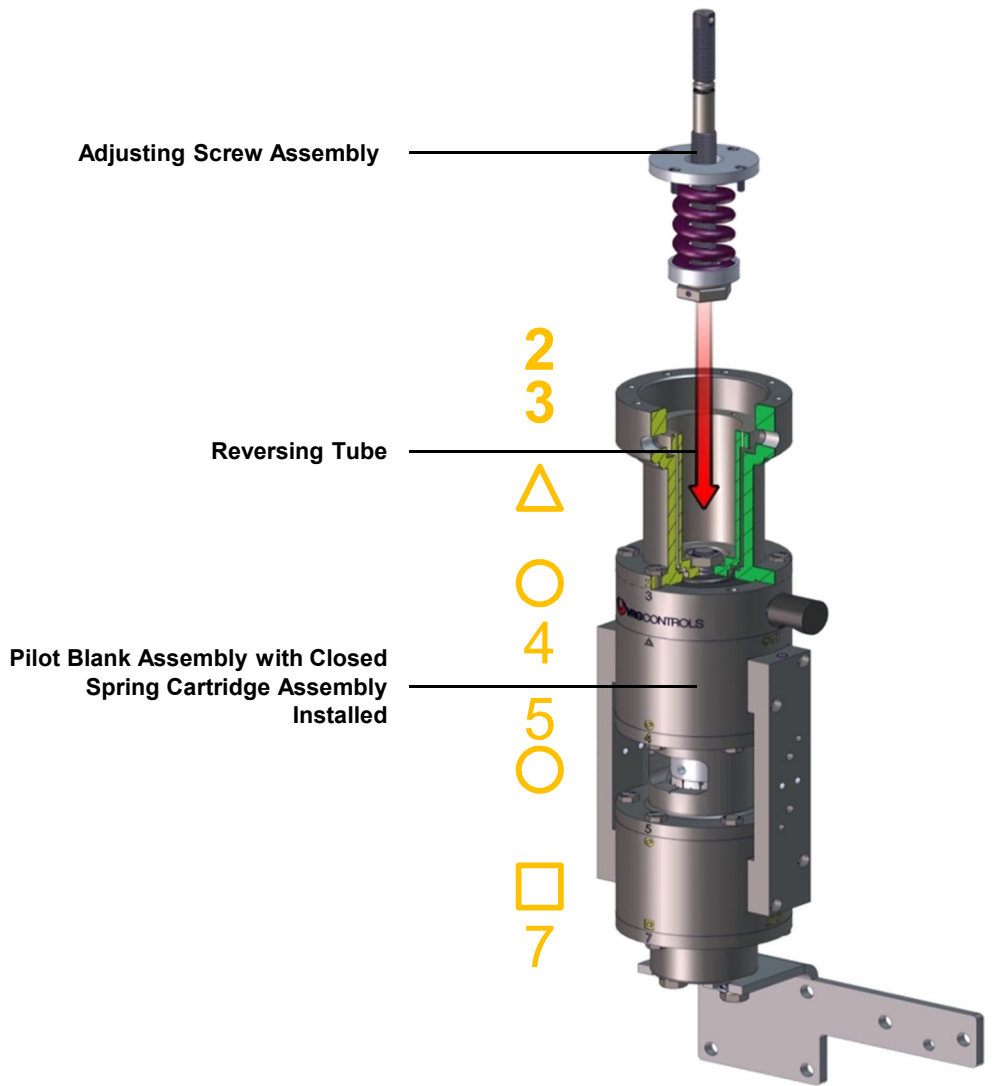
Assemble Setpoint Screw Assembly



Instructions:

1. Mount bearing support onto Setpoint Adjusting Screw with 8/32 x ¼ SSS (Self-Locking).
2. Press Thrust Bearing into Bearing Support with stamped letters side first. Thrust Bearing should fit snugly inside Bearing Support and bearing surface should face outward and rotate freely.
3. Install Bearing Support/Bearing Assembly onto Setpoint Adjusting Screw
4. Thoroughly lubricate and Install Pilot Control Spring onto Adjusting Screw
5. Lubricate -109 O-Ring and install in groove at top end of Adjusting Screw
6. Place 8/32 – ½ ALLOY SHCS in through holes of Tube Cover and slip over top of Setpoint Adjusting Screw

Install Setpoint Adjusting Screw Assembly



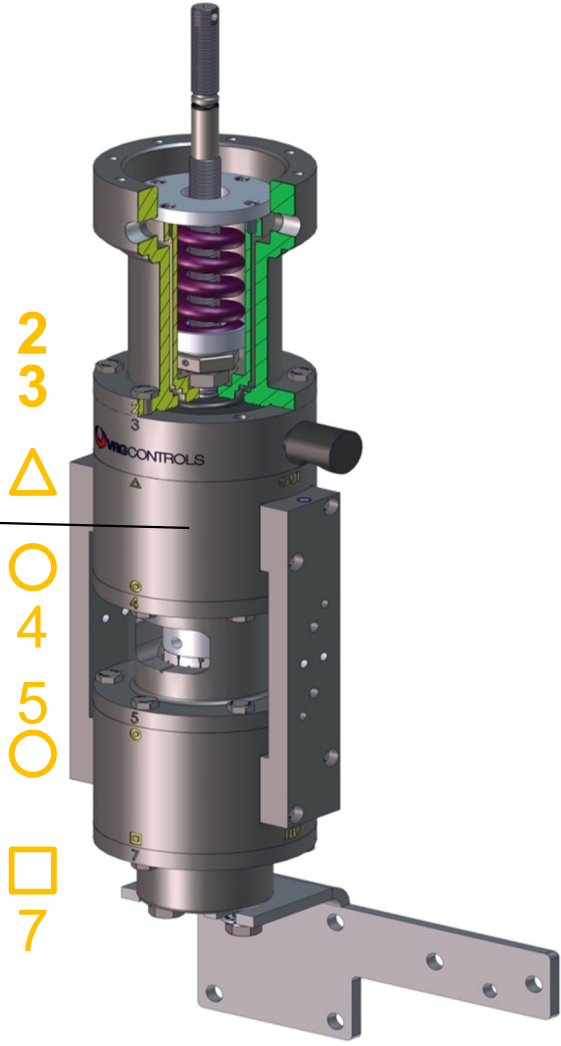
Instructions:

1. Slip entire Setpoint Adjusting Screw Assembly into Reversing Tube
2. Tighten 8/32 – 1/2 ALLOY SHCS in star pattern. Hold opposing side of Tube Cover down when tightening first screw to ensure proper alignment when tightening

Pilot Blank Assembly with Setpoint Adjusting Screw Assembly Installed

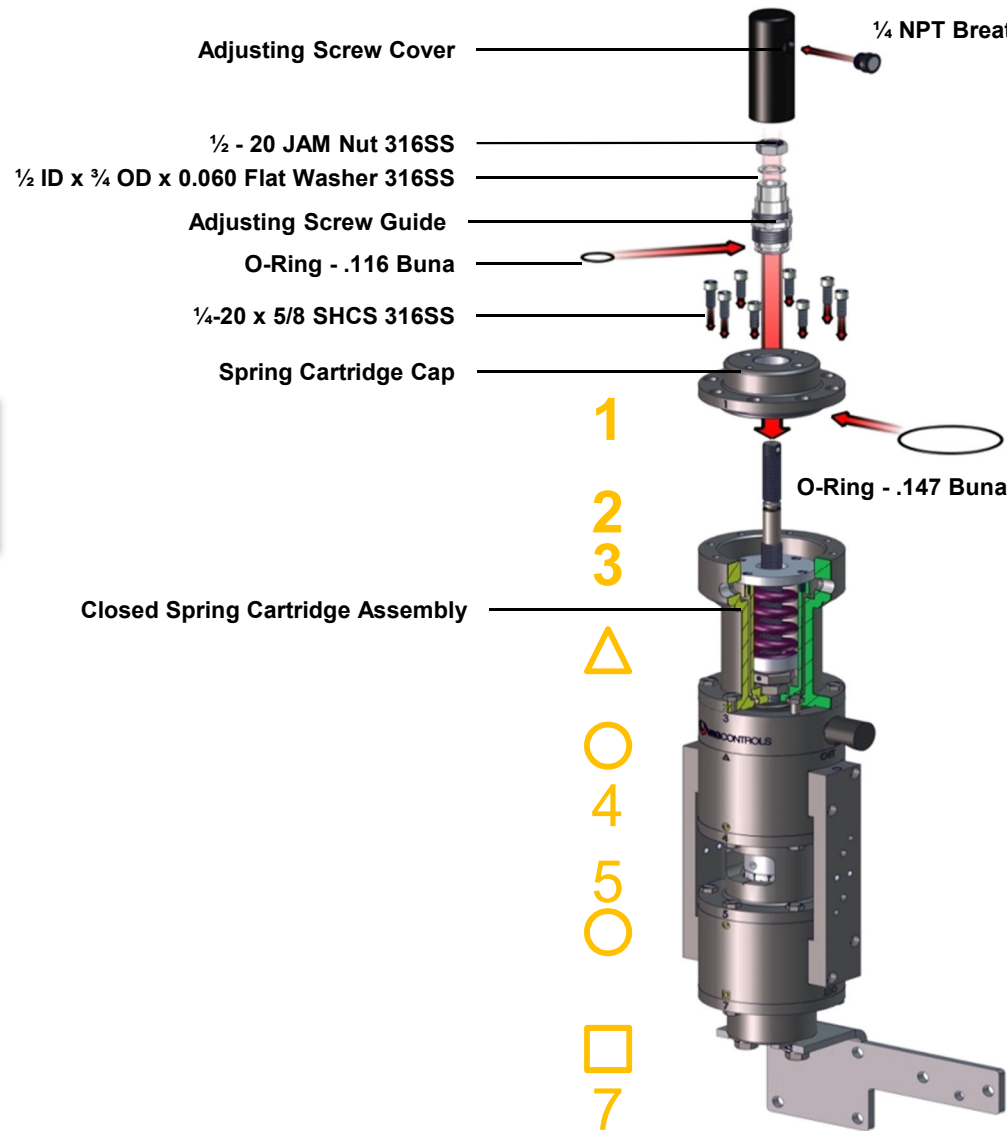


Pilot Blank Assembly with Setpoint Adjusting Screw Assembly Installed





Install Spring Cartridge Cap Assembly



Instructions:

1. Lubricate -116 O-Ring and Install on Adjusting Screw Guide
2. Lubricate -147 O-Ring and Install on Spring Cartridge Cap
3. Thread Adjusting Screw Guide into Spring Cartridge Cap and Tighten
4. Drop Spring Cartridge Cap/Adjusting Screw Guide Assembly onto Setpoint Adjusting Screw and push over O-Ring.
5. Continue to install Spring Cartridge Cap Assembly by threading onto Setpoint Adjusting Screw. NOTE REVERSE THREADS.
6. Insert all 1/4-20 x 5/8 SHCS 316SS into Spring Cartridge Cap and tighten in star pattern until fully engaged. Tighten fully in star pattern.
7. Install Flat Washer and 1/2 - 20 JAM Nut SS.
8. Install 1/4 NPT Breather Vent into Adjusting Screw Cover and thread assembly onto Setpoint Adjusting Screw.

Pilot Blank Assembly with Spring Cartridge Cap Assembly Installed



Pilot Blank Assembly with Spring Cartridge Cap Assembly Installed

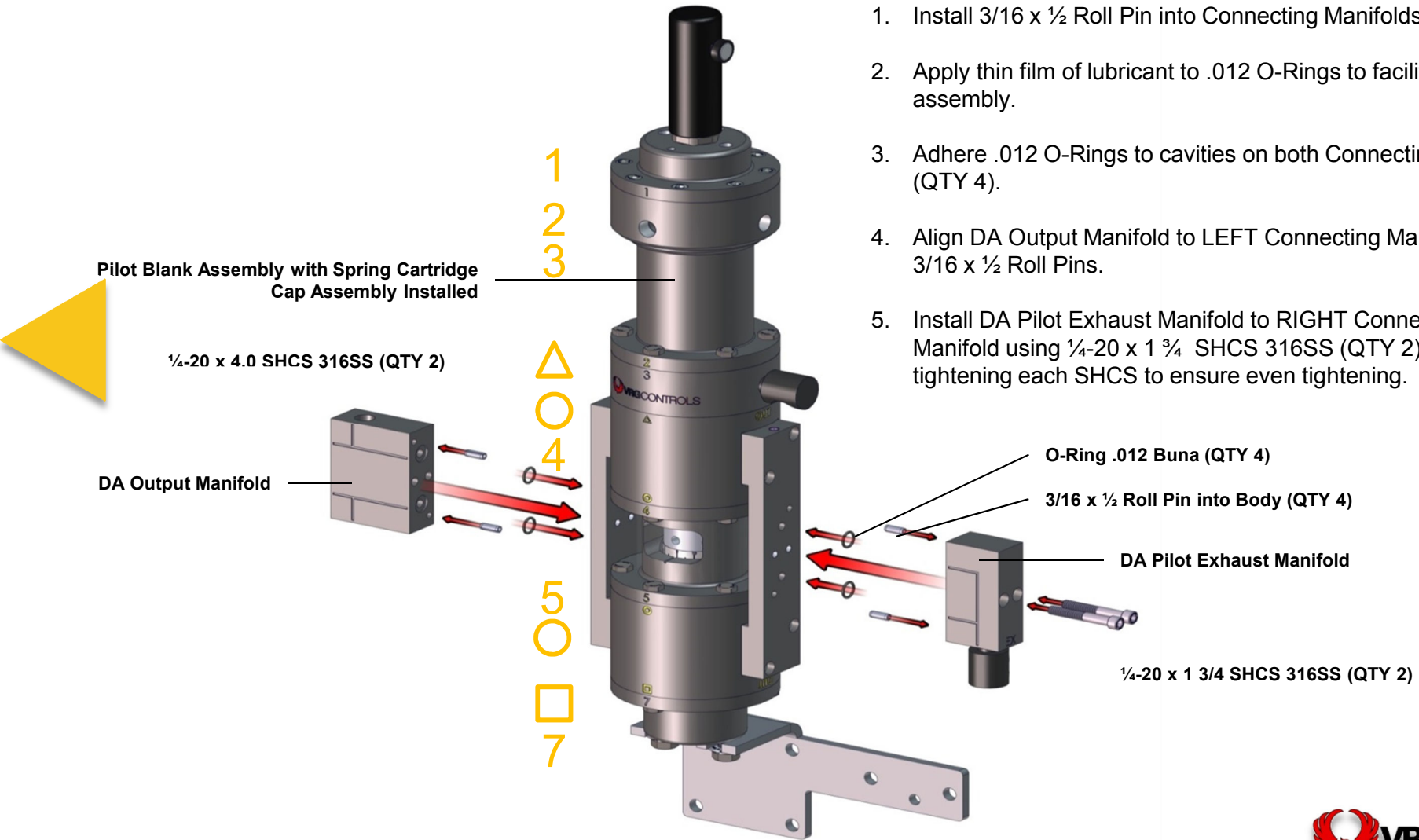


Install Pilot Manifolds



Instructions:

1. Install 3/16 x 1/2 Roll Pin into Connecting Manifolds (QTY 4)
2. Apply thin film of lubricant to .012 O-Rings to facilitate assembly.
3. Adhere .012 O-Rings to cavities on both Connecting Manifolds (QTY 4).
4. Align DA Output Manifold to LEFT Connecting Manifold using 3/16 x 1/2 Roll Pins.
5. Install DA Pilot Exhaust Manifold to RIGHT Connecting Manifold using 1/4-20 x 1 3/4 SHCS 316SS (QTY 2). Alternate tightening each SHCS to ensure even tightening.



VPC-700-DA-SN with Manifolds Installed



VPC-700-DA-SN with Manifolds Installed

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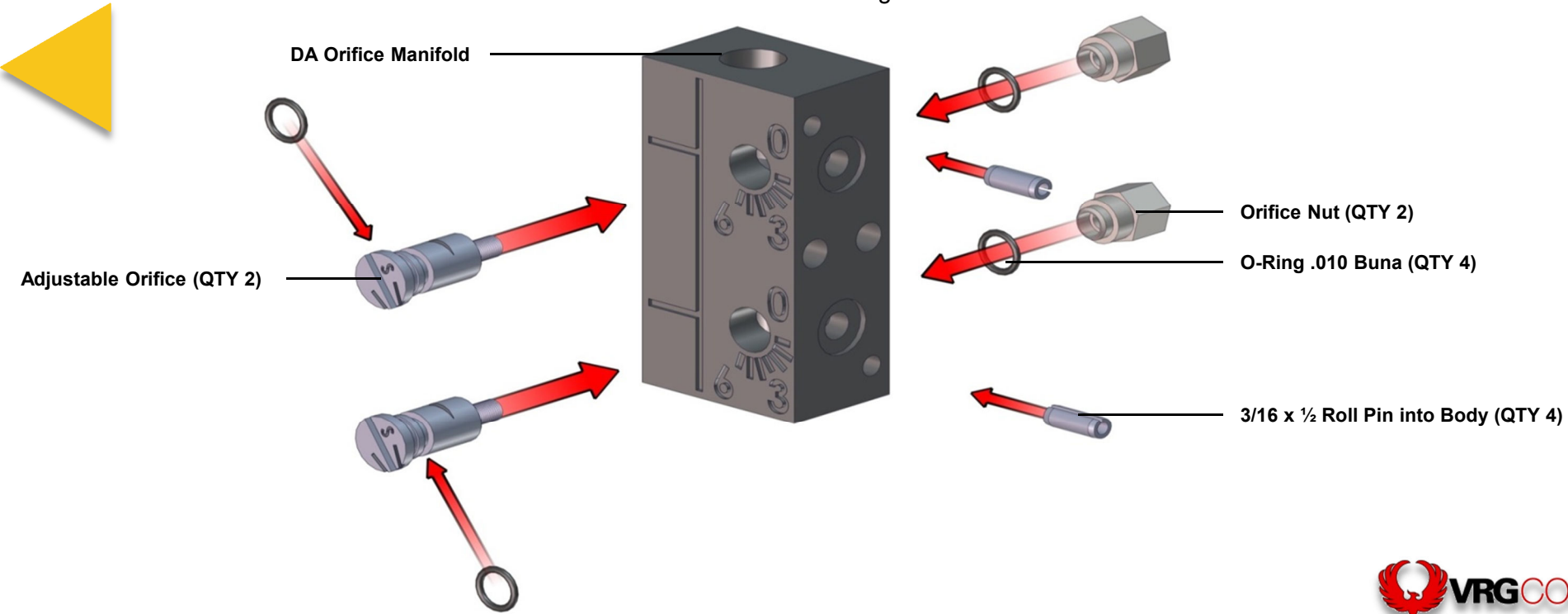


Install Adjustable Orifices



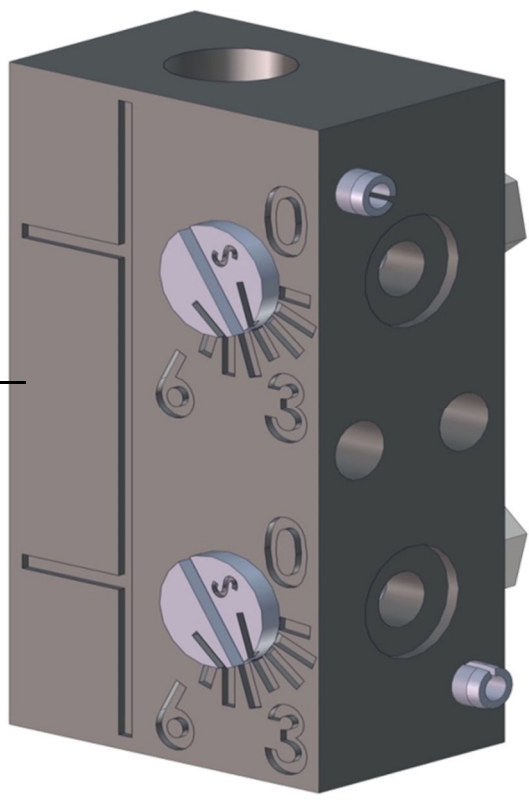
Instructions:

1. Install 3/16 x 1/2 Roll Pin into DA Orifice Manifolds
2. Apply thin film of lubricant to .010 O-Rings to facilitate assembly.
3. Install .010 O-Rings to cavities on Adjustable Orifice and Orifice Nuts
4. Insert Adjustable Orifices into DA Orifice Manifold
5. Install Orifice Nuts and Tighten. Be careful to ensure proper installation of O-Rings.

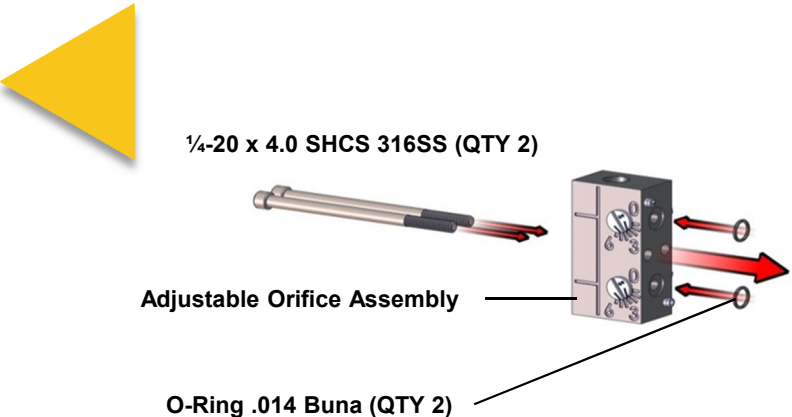




DA Orifice Assembly



Install Adjustable Orifice Assembly



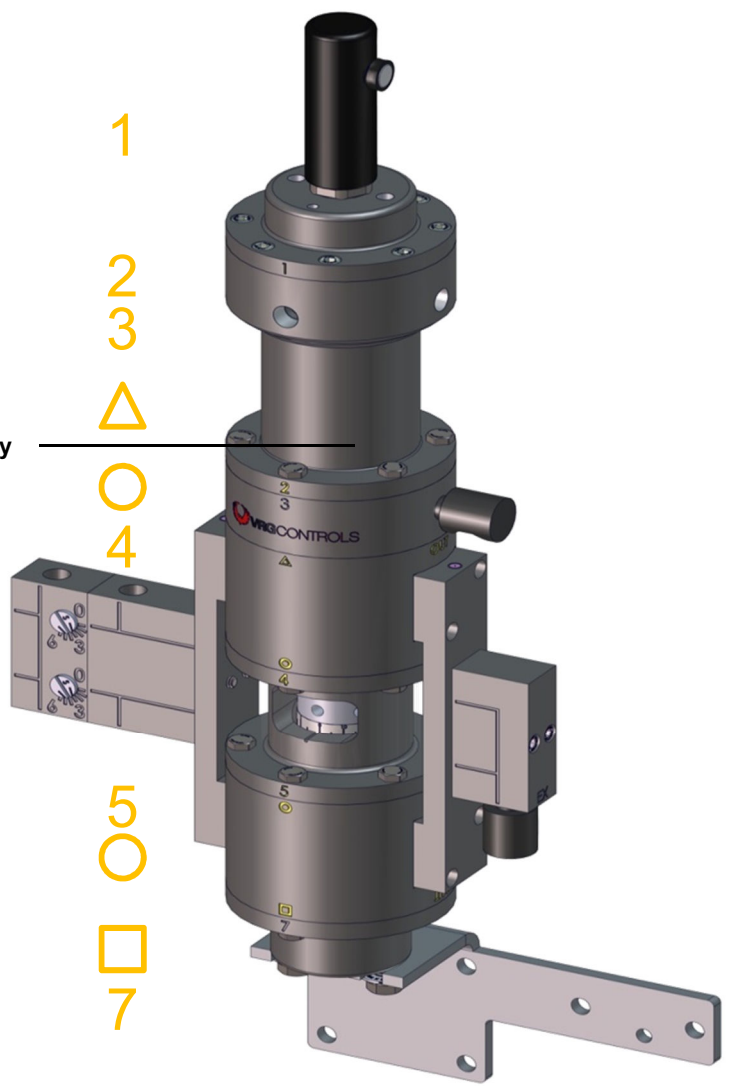
Instructions:

1. Apply thin film of lubricant to .012 O-Rings to facilitate assembly.
2. Adhere .012 O-Rings to cavities on Adjustable Orifice Assembly.
3. Install DA Orifice Assembly on DA Output Manifold using 1/4-20 4.0 SHCS.

VPC-700-DA-SN Completed Assembly



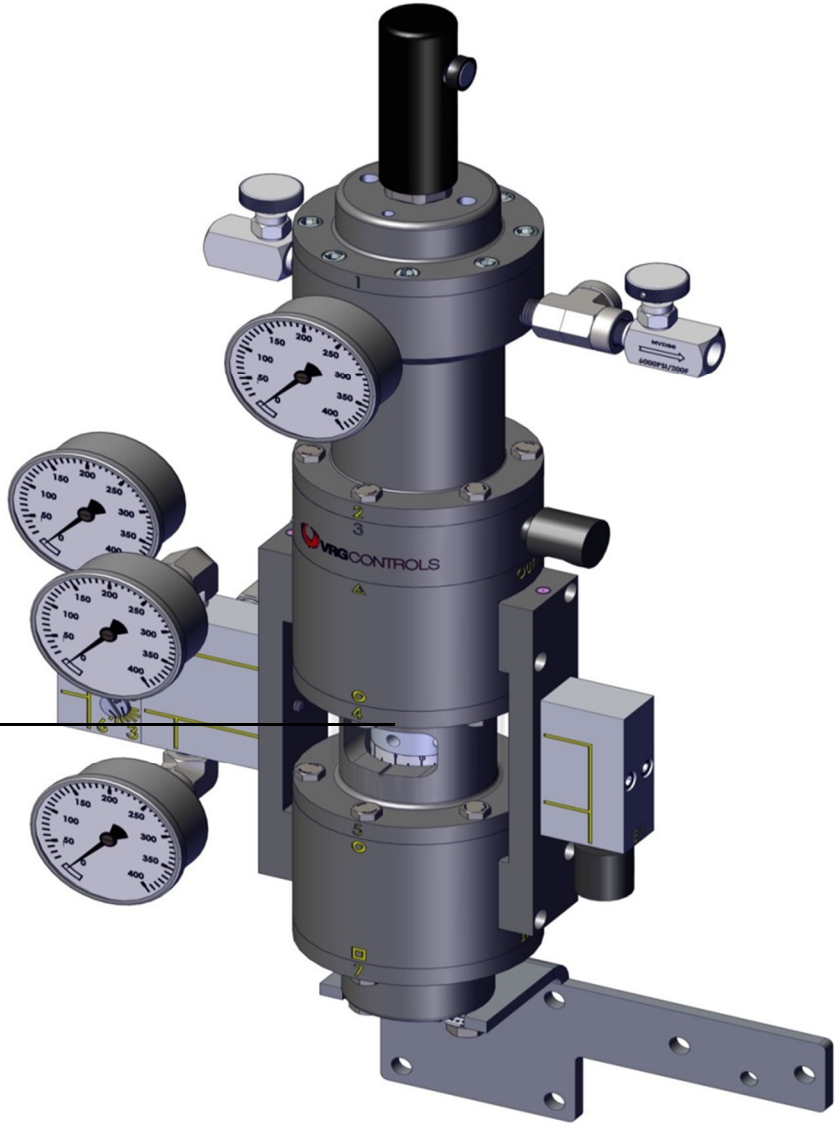
VPC-700-DA-SN Completed Assembly



VPC-700-DA-SN Completed Assembly with Fittings & Gages Installed



VPC-700-DA-SN Completed Assembly with Fittings & Gages Installed



VPC-700-DA-SN Completed Assembly with Fittings & Gages Installed



VPC-700-DA-SN Completed Assembly with Fittings & Gages Installed

