Introduction

Natural Gas Measurement - Best Practices

Field research and testing conducted by Southwest Research in San Antonio, Texas and the Pipeline Gas Compressor Research Council (PCRC) confirmed that pulsation created by compressors, flow control valves, regulators and some piping configurations may create undesirable levels of Square Root Error (SRE) and/or resulting Gauge Line Error (GLE). Pulsation at the orifice meter is a major source of lost and unaccounted for natural gas. These errors create large economic gains or losses for the buyer and seller along a natural gas pipeline system.

Conclusions determined that Transmitters or Electronic Flow Measurement (EFM) devices should be:

• Close coupled to the orifice taps (within 18 inches [460 mm] – “Rule of Thumb”)  
• Use equal length, large orifice (0.375 inch [9.5 mm] I.D. or greater), constant diameter gauge lines  
• Use Multi-Turn Valves to protect electronics from pressure spikes

Minimize or eliminate Gauge Line Error (GLE): Schneider DirectMount Systems (SDMS) are designed for a safe, efficient method of close coupling EFM’s and transmitters to the orifice fitting, eliminating or reducing the effects of Gauge Line Error.

SDMS are easy to install and available in both Vertical and Horizontal to Vertical Installations.

• SDMS reduces installation cost - No need to manufacture and install tube runs, fittings, and expensive pipe stands  
• Reduces potential leak points associated with NPT connections  
• Provides a safe compact leak free measurement installation  
• Internal porting promotes self draining of condensates and liquids to reduce freezing issues

Design Standards meet the Recommendations of:

• American Petroleum Institute (API)  
• Gas Processors Association (GPA)  
• American Gas Association (AGA)

Long-term Confidence and Commitment: You can rest assured in your decision to purchase AS-Schneider – we are a modern, international family-owned company since 1875. You can rely on our 140 years of manufacturing experience. The AS-Schneider Group with its headquarters in Germany is one of the world’s leading manufacturers of Instrumentation Valves and Manifolds. Our USA office and warehouse located in Houston Texas is committed to providing excellent service to our customers in the Americas.

Continuous product development may from time to time necessitate changes in the details contained in this catalogue. AS-Schneider reserves the right to make such changes at their discretion and without prior notice.

All dimensions shown in this catalogue are approximate and subject to change.
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
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<tbody>
<tr>
<td>Introduction</td>
<td>2</td>
</tr>
<tr>
<td>Contents</td>
<td>3</td>
</tr>
<tr>
<td>General Features</td>
<td>4</td>
</tr>
<tr>
<td>Features and Benefits</td>
<td>5</td>
</tr>
<tr>
<td>Valve Head Unit / Bonnet Options</td>
<td>6-7</td>
</tr>
<tr>
<td>Stabilized Connectors and Spacers</td>
<td>8-9</td>
</tr>
<tr>
<td>Spacers and 2 Valve Manifolds</td>
<td>10</td>
</tr>
<tr>
<td>5 Valve Manifolds</td>
<td>11-13</td>
</tr>
<tr>
<td>Adapters</td>
<td>14-15</td>
</tr>
<tr>
<td>Horizontal Installation</td>
<td>16</td>
</tr>
<tr>
<td>Vertical Installation</td>
<td>17</td>
</tr>
<tr>
<td>Manifolds for Ultrasonic Flow Meter Applications</td>
<td>18</td>
</tr>
<tr>
<td>Spare Parts</td>
<td>19</td>
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</tbody>
</table>
General Features

**Body Material Options**

<table>
<thead>
<tr>
<th>Material Group</th>
<th>AS Material Designation</th>
<th>Material Grade acc. to ASTM</th>
<th>Equivalent UNS-No.</th>
<th>Material No.</th>
<th>Short Name</th>
<th>Stabilized Connectors</th>
<th>Spacers</th>
<th>Manifolds</th>
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<td>S31600</td>
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<td>N10276</td>
<td>2.4819</td>
<td>NiMo 16 Cr 15 W</td>
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* Quadruple certified means 316 / 316L / 1.4401 / 1.4404

**Standard Features**

- **Bore Size**
  - Isolate Valves: 3/8” (9.5 mm)
  - Equalize and Vent Valves: 0.138” (3.5 mm)

- **Soft Seat**
  - Isolate Valves: Cone Design (roddable)
  - Equalize and Vent Valves: Cup Design
  - Soft Seats are field replaceable

- **Double O-Ring Design as standard**

- **PTFE Packing is also available for all valve types**

- **5 Valve Manifolds are supplied with a bug plug in the 1/4 NPT female vent port (fitted)**

**Sour Gas Service:**

Wetted Parts according to a.m. material list are supplied as standard according to NACE MR0175/MR0103 and ISO 15156 (latest issue).

**Pressure Test:**

A shell test at 1.5 times the max. allowable (working) pressure and a seat leakage test are performed acc. to EN 12266-1 – P10, P11 and P12 respectively MSS-SP61 (and complies also with ASME B31.1 and B31.3) at every standard AS-Schneider Needle Valve / Manifold. 100% Pressure Tested!

**Certification:**

Certified Mill Test Report (CMTR) as Inspection certificate 3.1 acc. to EN 10 204 for valve body material and pressure test available on request.

**Packing adjustment may be required during the service life of the valve.**

**Valves that have not been cycled for a period of time may have a higher initial actuation torque.**

**Optional Features**

**Fugitive Emission Application:**

For Fugitive Emission Applications please contact the factory.

**Oxygen Service:**

AS-Schneider offers an option with Reinforced PTFE Packing cleaned and lubricated for Oxygen Service:

- **Pressure-Temperature Rating:**
  - Max. 6,092 psi (420 bar) @ 140°F (60°C)
  - Max. 392°F (200°C) @ 1,305 psi (90 bar)

Not every Valve Type is available for Oxygen Service!

If you don't find your options in this catalogue, please contact the factory.

**SDMS are manufactured to the following Codes and Specifications:**

- ASME B31.1 Power Piping
- ASME B31.3 Process Piping
- ASME B16.34 Valves – Flanged, Threaded and Welding End
- API 598 Valve Inspection and Testing
- MSS SP-25 Standard Marking Systems for Valves, Fittings and Flange Unions
- MSS SP-61 Pressure Testing of Valves
- MSS SP-99 Instrument Valves
- MSS SP-105 Instrument Valves for Code Applications
- NACE MR0175 / ISO 15156 Petroleum and Natural Gas Industries – Materials for use in H2S - Containing environments in oil and gas production
Features and Benefits

Meets the challenge – Soft goods available to meet the toughest dirty gas applications. H₂S, CO₂, amines, corrosion inhibitors, methanol, glycol, etc.

1. NEW STEM DESIGN
   Reduced operating torque.
   Minimized gap between stem and stem nut for additional operating thread protection.

2. COST SAVINGS
   Extended seal and packing life.

3. REDUCES FREEZING ISSUES
   Flow paths machined to self drain condensates and liquid accumulation.

4. PROTECTION AND CONVENIENCE
   6 1/2 turns to full open & close isolation valves. Protects electronics from pressure spikes.

5. CATHODIC PROTECTION
   Dielectric isolators protect expensive electronics.

6. COMFORTABLE EASY TURN
   Ergonomic handle design.

7. SAFETY
   Ships assembled & pressure tested.
   No seat and bonnet field assembly required.

FINALLY
   Bug plug standard in 5 valve manifold vent port (not shown).

Pressure-Temperature Rating (Soft Seat)

<table>
<thead>
<tr>
<th>Material</th>
<th>Temperature</th>
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<tbody>
<tr>
<td></td>
<td>Min.</td>
</tr>
<tr>
<td>FKM</td>
<td>-13°F (-25°C)</td>
</tr>
<tr>
<td>FKM (RGD resistant)</td>
<td>-40°F (-40°C)</td>
</tr>
<tr>
<td>FEPM</td>
<td>-4°F (-20°C)</td>
</tr>
<tr>
<td>PTFE</td>
<td>-67°F (-55°C)</td>
</tr>
</tbody>
</table>

Low Temperature Service down to -55°C (-67°F) – As standard for Valves with PTFE Packing and Soft Seats in ETFE resp. PCTFE only.

Temperature Limit for Body Material:
- Carbon Steel A105: -20°F (-29°C)
All other materials are limited by soft goods.

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Isolate Valves – Head Units

Isolate Valves (Block Valves)

Bore Size 3/8” (9.5 mm)  –  Stem Seal: O-Ring
  –  Soft Seat: Cone Design

Features
• Rising Plug Valve Design
• Replaceable Valve Seat – ETFE, optional POM or PEEK
• Stem Seal – O-Ring in FKM (optional RGD resistant) or FEPM
• Non-rotating Needle
• External Stem Thread – Packing below stem threads. Stem threads are protected from process media (non-wetted).
• 6.5 turns to fully open or close the valve
• Heavy Duty Stem Threads
• Blow-out Proof Stem
• Back Seat – Metal to metal secondary stem seal
• Lock Pin – Eliminates unauthorized removal of the bonnet
• Color Coded Dust Cap for operating thread protection. Minimized gap between stem and stem nut for additional operating thread protection.
• Valve Seat in ETFE 2,000 psi (138 bar) rated – POM/PEEK 6,092 psi (420 bar) rated
• All non-wetted parts are 316 Stainless Steel

Isolate Valves (Block Valves)

Bore Size 3/8” (9.5 mm)  –  Stem Seal: PTFE Packing
  –  Soft Seat: Cone Design

Features
• Rising Plug Valve Design
• Replaceable Valve Seat – ETFE, optional POM or PEEK
• Stem Seal – PTFE Packing
• All other features as above

Components

<table>
<thead>
<tr>
<th>Components</th>
<th>Carbon Steel</th>
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<th>Exotic Alloys</th>
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<tr>
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<td>Bonnet</td>
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<td>316 / 316L</td>
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<tr>
<td>O-Ring</td>
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<td>FKM or FEPM</td>
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<tr>
<td>Packing</td>
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<td>A4 (316)</td>
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</table>

Wetted components listed in bold.
Equalize and Vent Valves – Head Units

Equalize and Vent Valves

**Bore Size 0.138” (3.5 mm)**

– Stem Seal: O-Ring
– Soft Seat: Cup Design

**Features**

- Replaceable Valve Seat - POM, optional PCTFE or PEEK
- Stem Seal - O-Rings in FKM (optional RGD resistant) or FEPM
- External Stem Thread - Packing below stem threads. Stem threads are protected from process media (non-wetted).
- 2.5 turns to fully open or close the valve
- Stem with Cold Rolled Threads
- Blow-out Proof Stem
- Back Seat - Metal to metal secondary stem seal
- Lock Pin - Eliminates unauthorized removal of the bonnet
- Color Coded Dust Cap for operating thread protection.
  - Minimized gap between stem and stem nut for additional operating thread protection.
  - Max. allowable (Working) Pressure (PS): 6,092 psi (420 bar)

Equalize and Vent Valves

**Bore Size 0.138” (3.5 mm)**

– Stem Seal: Packing
– Soft Seat: Cup Design

**Features**

- Replaceable Valve Seat – POM, optional PCTFE or PEEK
- Stem Seal – PTFE Packing
- Non-rotating Needle
- External Stem Thread – Packing below stem threads. Stem threads are protected from process media (non-wetted).
- 4 turns to fully open or close the valve
- Stem with Cold Rolled Threads
- Blow-out Proof Stem
- Back Seat – Metal to metal secondary stem seal
- Lock Pin – Eliminates unauthorized removal of the bonnet
- Color Coded Dust Cap for operating thread protection
- Max. allowable (Working) Pressure (PS): 6,092 psi (420 bar)
- All non-wetted parts are 316 Stainless Steel

Equalize and Vent Valves - O-Ring Head Unit

<table>
<thead>
<tr>
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<th>Stainless Steel</th>
<th>Exotic Alloys</th>
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<td>O-Ring</td>
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<td>Set Screw</td>
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<tr>
<td>T Handle</td>
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<td>Lock Pin</td>
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Wetted components listed in bold.

Equalize and Vent Valves - Packing Head Unit

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<th>Exotic Alloys</th>
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<td>Lock Pin</td>
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</table>

Wetted components listed in bold.
The first item required for SDMS is the Stabilized Connector. The Stabilized Connector provides the foundation for your SDMS.

Select the proper model for your installation considering:

- Clearance requirements
- Dielectric isolation
- Orifice tap centers – 2 1/8" (54 mm) to 2 1/4" (57 mm)
- Size and weight of the electronic measurement device
- Environmental site location

The connector’s tensioning nut places the NPT threads in tension and transfers radial forces away from the NPT threads. The Short Type is designed to be installed without shoe, the Long Type and the Integral Valve Type are designed to be installed with shoe, providing a very solid and efficient connection.

The Integral Valve Type is provided with a patented swivel nut connection, enabling the easy positioning of the flange in any position through 360°. Therefore the Integral Valve Type does not require field assembly providing a simple pretested safe assembly to the orifice fitting.

The elongated bolt holes accommodate 2 1/8" (54 mm) to 2 1/4" (57 mm) centers.

Dielectric Isolation Kits are available (see page 19).
## Ordering Information - Stabilized Connectors

<table>
<thead>
<tr>
<th>1</th>
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<tbody>
<tr>
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<td>T</td>
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### Stabilized Connectors (always supplied as pair)

#### Dash

#### Stabilized Connector Design

<table>
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#### Material

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</table>

#### Stem Seal / Packing

<table>
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<tr>
<th>0</th>
<th>Stabilized Connectors without Isolation/Valve</th>
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</thead>
<tbody>
<tr>
<td>K</td>
<td>O-Ring FKM (RGD resistant)</td>
</tr>
</tbody>
</table>

#### Seat Material

| E | ETFE – 2,000 psi (138 bar) rated |

#### Options – Specify in alphabetical order (digits first then letters)

- B Cleaned for Oxygen Service
- D Dielectric Isolation – Only to be ordered with Accessory Kit Option Code 1 or 2
- M Wetted Parts with Certified Mill Test Report (CMTR) as 3.1 certificate acc. to EN 10204
- W Without Stabilizer Shoe – Vertical/Light Duty Installations delivered without Shoe

### Stabilized Connectors without Isolation/Valve

| 0 | Stabilized Connectors without Isolation/Valve |

### Dash

### Options – Specify in alphabetical order (digits first then letters)

- B Cleaned for Oxygen Service
- D Dielectric Isolation – Only to be ordered with Accessory Kit Option Code 1 or 2
- M Wetted Parts with Certified Mill Test Report (CMTR) as 3.1 certificate acc. to EN 10204
- W Without Stabilizer Shoe – Vertical/Light Duty Installations delivered without Shoe

### Hex Head Bolts

- 1 Hex Head Bolts 7/16-20 UNF x 1 1/4” lg. in CS and Washers in SS, Seal Ring in PTFE
- 2 Hex Head Bolts 7/16-20 UNF x 1 1/4” lg. and Washers in SS*, PTFE Seal Ring

* Bolt Material SS = 316 Stainless Steel ASTM F593 GP2 CW

Wetted Parts according to above mentioned material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue).

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## Ordering Information - Spacers

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### Spacers

#### HD Spacers – Flange x Flange

#### Spacer Design

| S | Straight Type |

#### Dash

#### Body Material

<table>
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<tr>
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<tbody>
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<td>1.4404 / 1.4405 / 316 / 316L</td>
</tr>
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</table>

#### Options – Specify in alphabetical order (digits first then letters)

- B Cleaned for Oxygen Service
- Accessory Kit – For Manifold to Transmitter mounting

1 Hex Head Bolts 7/16-20 UNF x 1” lg. in CS and Washers in SS, PTFE Seal Ring

2 Hex Head Bolts 7/16-20 UNF x 1” lg. and Washers in SS*, PTFE Seal Ring

7 FKM O-Rings for Flange Seal – Only to be ordered with Accessory Kit Option Code 1 or 2

* Bolt Material SS = 316 Stainless Steel ASTM F593 GP2 CW

Wetted Parts according to above mentioned material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue).
After selecting your stabilized connector consider if an optional Spacer or 2 Valve Manifold is required:

- Consider any clearance requirements, provide additional clearance between the orifice meter and your measurement device.
- 2 Valve Manifolds are recommended to eliminate the need to blow down your meter tube when periodic maintenance is required.

Ordering Information Spacer (Straight Adapter) see page 9.
Ordering Information 2 Valve Manifold see page 13.
**5 Valve Manifolds**

The next step after selecting the stabilized connector and the optional Spacer / 2 Valve Manifold is to select the proper 5 Valve Manifold.

**Vertical Installations** – Select the Straight Type 5 Valve Manifold.

**Horizontal Installations** – Select the Angle Type 5 Valve Manifold (orients electronics of the transmitter in vertical position) or the Straight Type 5 Valve Manifold.

The 5 Valve Manifold is used in most custody transfer applications. However if you don’t require a 5 Valve Manifold AS-Schneider is also supplying a 3 Valve Manifold. For more details please contact the factory.

When mounting the 5 Valve Manifold to $\Delta P$ Transmitter, Smart Multivariable or Flow Computer you must consider the mounting bolt lengths.

5 Valve Manifold Vent Port – The 1/4 NPT female Vent Port is supplied with a fitted Bug Plug as standard.

Roddable - Both Straight and Angle Type 5 Valve Manifolds.
5 Valve Manifolds

Flow Pattern of Straight Type 5 Valve Manifold

Flow Pattern of Angle Type 5 Valve Manifold

REDUCES FREEZING ISSUES:
Flow paths machined to self drain condensates and liquid accumulation.

Straight Type 5 Valve Manifold

2 Test Ports 1/4 NPT

11.45" (291) open

4.69" (119)

Vented Port with fitted Bug Plug

4 Mounting Holes for 7/16-20 UNF Bolts
2 and 5 Valve Manifolds

### Angle Type 5 Valve Manifold

- **2.125" (54)** open
- **11.45" (291) open**
- **4.33" (110)**
- **4.17" (106) open**
- **2.125" (54)**
- **2 Test Ports**
- 1/4 NPT
- **4 Mounting Holes**
- for 7/16-20 UNF Bolts
- **2 Drain Ports**
- 1/4 NPT
- **2 Rod out Ports**
- 1/2 NPT
- Vent Port 1/4 NPT with fitted Bug Plug
- **2 Test Ports**

### Ordering Information

<table>
<thead>
<tr>
<th>1</th>
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#### Manifolds

- **H** - Style Manifolds – Flange x Flange

#### Quantity Bonnets

- **2** - 2 Valve Manifold
- **5** - 5 Valve Manifold

#### Manifold Design

- **S** - Straight Type, 3/8" (9.5 mm) Bore Size on Isolate Valves
- **L** - Angle Type, 3/8" (9.5 mm) Bore Size on Isolate Valves

#### Dash

- **C** - Carbon Steel A105
- **1.4404 / 1.4401 / 316 / 316L**
- **H** - Alloy C-276 UNS N10276

#### Body Material

- **K** - O-Ring FKM
- **P** - O-Ring FEPM
- **A** - PTFE Packing

#### Seat Material – Isolate Valves x Equalize/Vent Valves

- **A** - ETFE x POM – 2,000 psi (138 bar) rated
- **B** - POM x POM – 6,092 psi (420 bar) rated
- **C** - POM x PCTFE – 2,000 psi (138 bar) rated
- **D** - POM x PCTFE – 6,092 psi (420 bar) rated
- **P** - PEEK x PEEK – 6,092 psi (420 bar) rated
- **C** - ETFE x PCTFE – 2,000 psi (138 bar) rated

#### Options – Specify in alphabetical order (digits first then letters)

- **B** - Cleaned and Lubricated for Oxygen Service
- **D** - Dielectric Isolation – Only to be ordered with Accessory Kit Option Code 1 to 6
- **M** - Wetted Parts with Certified Mill Test Report (CMTR) as 3.1 certificate acc. to EN 10204

#### Accessory Kits – For Manifold to Transmitter mounting

1. Hex Head Bolts 7/16-20 UNF x 1" lg. in CS, Washers in SS, PTFE Seal Ring – To mount Transmitters / Flow Computers with Traditional Flange and J.P to J.P Adapters.
2. Hex Head Bolts 7/16-20 UNF x 1" lg. and Washers in SS, PTPE Seal Ring – To mount Transmitters / Flow Computers with Traditional Flange and J.P to J.P Adapters.
3. Hex Head Bolts 7/16-20 UNF x 2 1/4" lg. in CS, Washers in SS, PTPE Seal Ring – 1. To mount Transmitters / Flow Computers with Rosemount Coplanar™ Flange (with Dielectric Isolation: Option Code 3D).
   2. To mount J.P to Static Adapters and Transmitters / Flow Computers with Traditional Flange. For this Application the Bolt Length for Manifolds with or without Dielectric Isolation are identical. (With Dielectric Isolation: Option Code DV)
4. Hex Head Bolts 7/16-20 UNF x 2 1/4" lg. and Washers in SS, PTPE Seal Ring –
   1. To mount Transmitters / Flow Computers with Rosemount Coplanar™ Flange (with Dielectric Isolation: Option Code 4D).
   2. To mount J.P to Static Adapters and Transmitters / Flow Computers with Traditional Flange. For this Application the Bolt Length for Manifolds with or without Dielectric Isolation are identical. (With Dielectric Isolation: Option Code DY)
5. Hex Head Bolts 7/16-20 UNF x 3 1/2" lg. in CS, Washers in SS, PTPE Seal Ring – To mount J.P to Static Adapters and Transmitters / Flow Computers with Rosemount Coplanar™ Flange, for 5 Valve Manifolds only. 2 Valve Manifolds supplied with 1" lg. Bolts.
6. Hex Head Bolts 7/16-20 UNF x 3 1/2" lg. and Washers in SS, PTPE Seal Ring – To mount J.P to Static Adapters and Transmitters / Flow Computers with Rosemount Coplanar™ Flange, for 5 Valve Manifolds only. 2 Valve Manifolds supplied with 1" lg. Bolts.
7. FKM O-Rings for Flange Seal – Only to be ordered with Accessory Kit Option Code 1 to 6.
   For Example Manifold with Bolts, Washers and Seal Rings acc. to Option Code 2, but instead of PTPE Seal Ring with FKM Seal Ring add Option Code 27.

#### NOTE:

- Manifolds with Dielectric Isolation supplied with additional 1/4" to bolt length.

---

* Bolt Material SS = 316 Stainless Steel I ASTM F593 GP2 CW
* Wetted Parts according to above mentioned material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (Latest issue).
Adapters

When mounting both ΔP and Static Transmitter a SDMS Adapter is required. ΔP to ΔP Adapter is also available for Dual Custody and Bi-Directional Installations.

Bolt Selection for these Adapters is located on page 15.

ΔP to Static Adapters are full 3/8" Orifice (ΔP and Static Side) to reduce or eliminate freezing issues.

ΔP to ΔP Adapter – Bore Size 3/8" (9.5 mm)

ΔP to ΔP Adapter

ΔP to Static Adapter
**Adapters**

### ΔP to Static Adapter – Bore Size 3/8” (9.5 mm)

![Image of ΔP to Static Adapter]

- **Part Number**: 1/2 NPT Female AKA-FC, AKA-FS; 1/2 NPT Male AKA-MC, AKA-MS
- To be ordered separately.

### NPT Static Adapters

<table>
<thead>
<tr>
<th>NPT Static Adapter</th>
<th>Part Number</th>
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<tr>
<td>Carbon Steel</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>1/2 NPT Female</td>
<td>AKA-FC, AKA-FS</td>
</tr>
<tr>
<td>1/2 NPT Male</td>
<td>AKA-MC, AKA-MS</td>
</tr>
</tbody>
</table>

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**AXA Adapters**

- **Dash**

#### Adapters Design

- **D**: ΔP to ΔP Adapter → No Vent Valve
- **S**: ΔP to Static Adapter → 1 Vent Valve - Bore Size 3/8” (9.5 mm)

#### Body Material

- **C**: Carbon Steel A105
- **S**: SS UNS 316 / 316L

#### Stem Seal / Packing

- **0**: Adapter without Vent Valve
- **P**: O-Ring FEPM
- **A**: O-Ring FKM (RGD resistant)

#### Seat Material – Vent Valve

- **0**: Adapter without Vent Valve
- **D**: POM
- **E**: ETFE
- **P**: PEEK

### Options – Specify in alphabetical order (digits first then letters)

1. **Hex Head Bolts 7/16-20 UNF x 1 3/4” lg. in CS and PTFE Seal Ring** – To mount Traditional Flange Transmitters respectively NPT Static Adapters.
2. **Hex Head Bolts 7/16-20 UNF x 1 3/4” lg. in SS* and PTFE Seal Ring** – To mount Traditional Flange Transmitters respectively NPT Static Adapters.
3. **Hex Head Bolts 7/16-20 UNF x 3 1/4” lg. in CS and PTFE Seal Ring** – To mount Rosemount 2051/3051 Flange Transmitters.
4. **Hex Head Bolts 7/16-20 UNF x 3 1/4” lg. in SS* and PTFE Seal Ring** – To mount Rosemount 2051/3051 Flange Transmitters.
5. **No Bolts (but supplied with Seal Rings)** – Just 5 means Seal Rings PTFE, Seal Rings in FKM add Option Code 57.
6. **PKM O-Rings for Flange Seal** – Only to be ordered with Accessory Kit Option Code 1 to 5.

**NOTE**: ΔP to Static Adapter is supplied with 4 Bolts and 3 Seal Rings (1 for Static Transmitter, 2 for ΔP Transmitter). ΔP to ΔP Adapter is supplied with 8 Bolts and 4 Seal Rings.

* Bolt Material SS = 316 Stainless Steel I ASTM F279 / GP2 CW

Wetted Parts according to above mentioned material list are supplied according to NACE MR0175/MR0103 and ISO 15156 (latest issue).
Horizontal Installation

Horizontal Installation – Exploded View

1. ORIFICE FITTING
2. STABILIZED CONNECTORS WITH INTEGRAL VALVE
3. DIELECTRIC ISOLATION
   To be ordered with Stabilized Connector
4. ANGLE TYPE 5 VALVE MANIFOLD
   c/w Accessory Kits to mount the Transmitters, Flow Computers or Adapters
5. ΔP TO STATIC ADAPTER (OPTIONAL)
   c/w Accessory Kit for Static Transmitter Side
6. NPT STATIC ADAPTER
1. ORIFICE FITTING
2. STABILIZED CONNECTORS
3. DIELECTRIC ISOLATION
   To be ordered with stabilized connector
4. SPACER OR 2 VALVE MANIFOLD (OPTIONAL)
   c/w Accessory Kit
5. STRAIGHT TYPE 5 VALVE MANIFOLD
   c/w Accessory Kits to mount the transmitters, flow computers or adapters
6. ΔP TO ΔP ADAPTER (OPTIONAL)
   c/w Accessory Kits to mount the transmitters/flow computers
Manifolds for Ultrasonic Flow Meter Applications

Horizontal Installation of Flanged Type Block & Bleed Manifolds

Horizontal Installation of Threaded Type Block & Bleed Manifolds

For detailed information see Catalogue 'AS-4302 I Soft Seated Needle Valves and Manifolds – Page 24-26.
## Dielectric Isolation Kits

AS-Schneider is providing the following Dielectric Isolation Kits (always supplied as pair: 2 Dielectric Flange Seals, 4 Washers 1.5mm thick, 4 Washers 3mm thick and 4 Bolt Sleeves):

### To mount a Stabilized Connector to a Spacer/Manifold:

<table>
<thead>
<tr>
<th>Components</th>
<th>Material</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dielectric Kit w/CS Bolts (1 1/2&quot; lg.) and 316 SS Washers</td>
<td>DEK-01C</td>
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</tr>
<tr>
<td>Dielectric Kit w/316 SS Bolts (1 1/2&quot; lg.) and 316 SS Washers</td>
<td>DEK-01F</td>
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</tr>
</tbody>
</table>

### Transmitter/Flow Computer with Traditional Flange

<table>
<thead>
<tr>
<th>Components</th>
<th>Material</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dielectric Kit w/CS Bolts (1 1/4&quot; lg.) and 316 SS Washers</td>
<td>DEK-02C</td>
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<tr>
<td>Dielectric Kit w/316 SS Bolts (1 1/4&quot; lg.) and 316 SS Washers</td>
<td>DEK-02F</td>
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</tr>
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</table>

### Transmitter/Flow Computer with Rosemount Coplanar™ Flange

<table>
<thead>
<tr>
<th>Components</th>
<th>Material</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dielectric Kit w/CS Bolts (2 1/2&quot; lg.) and 316 SS Washers</td>
<td>DEK-03C</td>
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</tr>
<tr>
<td>Dielectric Kit w/316 SS Bolts (2 1/2&quot; lg.) and 316 SS Washers</td>
<td>DEK-03F</td>
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</tr>
</tbody>
</table>

### To mount a 5 Valve Manifold to a:

#### Transmitter/Flow Computer with Traditional Flange

<table>
<thead>
<tr>
<th>Components</th>
<th>Material</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dielectric Kit w/CS Bolts (2 1/4&quot; lg.) and 316 SS Washers</td>
<td>DEK-12C</td>
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<tr>
<td>Dielectric Kit w/316 SS Bolts (2 1/4&quot; lg.) and 316 SS Washers</td>
<td>DEK-12F</td>
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</table>

#### Transmitter/Flow Computer with Rosemount Coplanar™ Flange

<table>
<thead>
<tr>
<th>Components</th>
<th>Material</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dielectric Kit w/CS Bolts (3 3/4&quot; lg.) and 316 SS Washers</td>
<td>DEK-13C</td>
<td></td>
</tr>
<tr>
<td>Dielectric Kit w/316 SS Bolts (3 3/4&quot; lg.) and 316 SS Washers</td>
<td>DEK-13F</td>
<td></td>
</tr>
</tbody>
</table>

### To mount a 5 Valve Manifold with a ΔP to Static Adapter (ΔP to Transmitter Side) to a:

#### Transmitter/Flow Computer with Traditional Flange

<table>
<thead>
<tr>
<th>Components</th>
<th>Material</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dielectric Kit w/CS Bolts (2 1/4&quot; lg.) and 316 SS Washers</td>
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<tr>
<td>Dielectric Kit w/316 SS Bolts (2 1/4&quot; lg.) and 316 SS Washers</td>
<td>DEK-12F</td>
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#### Transmitter/Flow Computer with Rosemount Coplanar™ Flange

<table>
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<tr>
<th>Components</th>
<th>Material</th>
<th>Part Number</th>
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<tr>
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<td>Dielectric Kit w/316 SS Bolts (3 3/4&quot; lg.) and 316 SS Washers</td>
<td>DEK-13F</td>
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</table>

## Flange Seal Rings and Valve Seats

### Components

<table>
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<tr>
<th>Components</th>
<th>Material</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flange Seal Ring for Stabilized Connectors and Manifolds</td>
<td>PTFE</td>
<td>S006.23.351.08</td>
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<tr>
<td></td>
<td>FKM</td>
<td>S31044</td>
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<tr>
<td>Valve Seats – Equalize and Vent Valves – 0.138&quot; (3.5 mm) Bore Size</td>
<td>ETFE</td>
<td>S007.01.350.1105</td>
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<tr>
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<td>POM</td>
<td>S007.01.350.1101</td>
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<td>PEEK</td>
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<tr>
<td>Valve Seats – Isolate Valves (Block Valves) – 3/8&quot; (9.5 mm) Bore Size</td>
<td>POM</td>
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<td>PEEK</td>
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</table>
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for Instrumentation and
Double Block & Bleed Valves

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AS-4301-EN | May 2021