Instrumentation Products
Soft Seated Needle Valves and Manifolds
The AS-Schneider Group with its headquarters in Germany is one of the World’s Leading Manufacturers of Instrumentation Valves and Manifolds. AS-Schneider offers a large variety of Valves, Manifolds and the relevant Accessories required for instrumentation installations globally.

AS-Schneider Soft Seated Valves and Manifolds are designed for maximum system reliability. AS-Schneider utilizes a field replaceable soft seat that provides premium tightness at closure, even in dirty service.

Model Number Selection can be made from a comprehensive range of body designs with a variety of connections and material options, optimizing installation and access opportunities. Many of the valves shown in this catalogue are available from stock. The dimensions shown in this catalogue apply to standard designs. If you need the dimensions for your individual type please contact the factory.

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. AS-Schneider is your number one choice for Tough Applications, providing Superior Quality and Outstanding Service Levels at a very Competitive Price. 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.
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Body Material Options

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<th>AS Material Designation</th>
<th>Material Grade acc. to ASTM</th>
<th>Equivalent UNS-No.</th>
<th>Material No.</th>
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<tr>
<td>Carbon Steel</td>
<td>Carbon Steel</td>
<td>A105</td>
<td></td>
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<td>Standard</td>
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<tr>
<td>Austenitic Stainless Steel</td>
<td>316 quadruple certified*</td>
<td>316</td>
<td>S31600</td>
<td>1.4401</td>
<td>X5CrNiMo17-12-2</td>
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<td>Nickel Based Alloys</td>
<td>Alloy 400</td>
<td>N04400</td>
<td>2.4360</td>
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<td>Alloy C-276</td>
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<td>NiMo 16 Cr 15 W</td>
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</tr>
</tbody>
</table>

* Quadruple certified means acc. to ASTM and EN: 316 / 316L / 1.4401 / 1.4404

Standard Features

- **Bore Size**
  - Isolate Valves: 1/4” (6.35 mm) 
  - 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
  - Cone Design for Chart Recorder Manifolds only.
  - 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.

Soft Seated Valves and Manifolds 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
**Standard Soft Seat Valve Head Units / Bonnets – Cone Design**

### Cone Design Valve Head Unit

**T Handle**
Ergonomic Handle Design.

**Valve Stem**
Stem with cold rolled threads for high strength and smooth operation.

**Needle Seal**
PTFE Packing or Double O-Ring

**Needle**
Non-rotating Needle for smooth operation and minimum wear of sealing elements.

**Back Seat**
Metal to Metal secondary needle seal and therefore the needle is anti-blowout / non-removable – For your safety.

**Valve Seat**
Material: ETFE, POM or PEEK
Valve Seats are field replaceable

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**Color Coded Dust Cap**
For operating thread protection:
- Isolate: BLUE
- Vent/Test: RED
- Equalize: GREEN

**Color Coded Options**
Following options are also color coded below dust cap:
- Oxygen Service
- TA-Luft Option

**Lock Pin**
Eliminates unauthorized removal of the bonnet assembly.

**Bonnet**
Bonnet-to-Body Metal Seal.

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**Traceability of Materials**
All AS-Schneider Soft Seated Valves and Manifolds have material traceability. A unique code is stamped on all valve bodies linking them with their material and chemical analysis certificates.

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**Pressure-Temperature Rating (Soft Seat)**

![Graph showing Pressure-Temperature Rating (Soft Seat)](image)

**Needle / Stem Seal Material**

<table>
<thead>
<tr>
<th>Material</th>
<th>Temperature Min.</th>
<th>Temperature Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>FKM</td>
<td>-13°F (-25°C)</td>
<td>392°F (200°C)</td>
</tr>
<tr>
<td>FKM (RGD resistant)</td>
<td>-40°F (-40°C)</td>
<td>450°F (232°C)</td>
</tr>
<tr>
<td>FEPM</td>
<td>-4°F (-20°C)</td>
<td>392°F (200°C)</td>
</tr>
<tr>
<td>PTFE</td>
<td>-67°F (-55°C)</td>
<td>450°F (232°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.
Isolate Valves Bore Size 1/4” – Head Units

Isolate Valves (Block Valves)

Bore Size 1/4” (6.35 mm) – Needle Seal: Packing
Soft Seat: Cone Design

Features
• Rising Plug Valve Design
• Soft Seated – Roddable Design
• Replaceable Valve Seat – ETFE, POM and PEEK
• Needle Seal
Standard Packing in PTFE
or Carbon filled PTFE – TA-Luft Option
• Non-rotating Needle
• External Stem Thread – Packing below stem threads.
Stem threads are protected from process media (non-wetted).
• Stem with Cold Rolled Threads
• Blow-out Proof Needle
• Back Seat – Metal to metal secondary stem seal
• Lock Pin – Eliminates unauthorized removal of the bonnet
• Color Coded Dust Cap for operating thread protection
• Valve Seat in ETFE 3,000 psi (207 bar) rated.
Valve Seat in POM and PEEK mod 6,092 psi (420 bar) rated.
• Anti-Tamper Valve Head Options available
• All Non-wetted parts in 316 Stainless Steel

Isolate Valves (Block Valves)

Bore Size 1/4” (6.35 mm) – Needle Seal: Double O-Ring
Soft Seat: Cone Design

Features
• Needle Seal
Double O-Ring in FKM (optional RGD resistant) or FEPM
• All other features as above

<table>
<thead>
<tr>
<th>Components</th>
<th>Carbon Steel</th>
<th>Stainless Steel</th>
<th>Exotic Alloys</th>
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<tbody>
<tr>
<td></td>
<td>Material / Material No.</td>
<td></td>
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<tr>
<td>Body</td>
<td>A 105</td>
<td>316 / 316L</td>
<td>Alloy 400</td>
</tr>
<tr>
<td>Bonnet</td>
<td>316 / 316L</td>
<td></td>
<td>Alloy 400</td>
</tr>
<tr>
<td>Seat</td>
<td>ETFE, POM or PEEK</td>
<td></td>
<td></td>
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<tr>
<td>Needle</td>
<td>316 / 316L</td>
<td></td>
<td>Alloy 400</td>
</tr>
<tr>
<td>O-Ring</td>
<td>FKM or FEPM</td>
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</tr>
<tr>
<td>Back-up Rings</td>
<td>Carbon filled PTFE</td>
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<tr>
<td>Packing</td>
<td>PTFE or Carbon filled PTFE</td>
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<tr>
<td>Valve Stem</td>
<td>316 / 316L</td>
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<td>Gland</td>
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<tr>
<td>Stem Nut</td>
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<td>Lock Nut</td>
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<td>Set Screw</td>
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<tr>
<td>T Handle</td>
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<tr>
<td>Lock Pin</td>
<td>A4</td>
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</tbody>
</table>

Wetted components listed in bold.
### Isolate Valves (Block Valves)

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

#### Features
- Rising Plug Valve Design
- Soft Seated – Roddable Design
- Replaceable Valve Seat – ETFE, POM and PEEK
- Needle Seal – PTFE Packing
- 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 Needle
- Back Seat – Metal to metal secondary stem seal
- Lock Pin – Eliminates unauthorized removal of the bonnet
- Color Coded Dust Cap for operating thread protection
- Valve Seat in ETFE 2.000 psi (138 bar) rated.
  - Valve Seat in POM and PEEK mod 6,092 psi (420 bar) rated.
- Anti-Tamper Valve Head Options available
- All Non-wetted parts in 316 Stainless Steel

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### Isolate Valves (Block Valves)

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

#### Features
- Needle Seal
  - Double O-Ring in FKM (optional RGD resistant) or FEPM
- All other features as above

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<table>
<thead>
<tr>
<th>Components</th>
<th>Carbon Steel</th>
<th>Stainless Steel</th>
<th>Exotic Alloys</th>
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</thead>
<tbody>
<tr>
<td><strong>Body</strong></td>
<td>A 105</td>
<td>316 / 316L</td>
<td>Alloy 400</td>
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<tr>
<td><strong>Bonnet</strong></td>
<td>316 / 316L</td>
<td></td>
<td>Alloy C-276</td>
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<tr>
<td><strong>Seat</strong></td>
<td>ETFE, POM or PEEK</td>
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<tr>
<td><strong>Needle</strong></td>
<td>316 / 316L</td>
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<td>Alloy C-276</td>
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<tr>
<td><strong>O-Ring</strong></td>
<td>FKM or FEPM</td>
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<tr>
<td><strong>Back-up Rings</strong></td>
<td>Carbon filled PTFE</td>
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<td><strong>Packing</strong></td>
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<td>316 / 316L</td>
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<td><strong>Gland</strong></td>
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<tr>
<td><strong>Stem Nut</strong></td>
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<td><strong>Lock Nut</strong></td>
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<td><strong>Set Screw</strong></td>
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<td><strong>T Handle</strong></td>
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<tr>
<td><strong>Lock Pin</strong></td>
<td>A4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Wetted components listed in bold.
Standard Soft Seat Valve Head Units / Bonnets – Cup Design

Cup Design Valve Head Unit

T Handle
Ergonomic Handle Design.

Valve Stem
Stem with cold rolled threads for high strength and smooth operation.

Needle Seal / Stem Seal
PTFE Packing or Double O-Ring

Needle
Non-rotating Needle for smooth operation and minimum wear of sealing elements – PTFE Packed Valve Head Unit only.

Back Seat
Metal to Metal secondary needle seal and therefore the needle is anti-blowout / non-removable – For your safety.

Valve Seat
Material: POM, PCTFE or PEEK
Valve Seats are field replaceable

Color Coded Dust Cap
For operating thread protection:
Isolate
Vent/Test
Equalize

Color Coded Options
Following options are also color coded below dust cap:
Oxygen Service

Lock Pin
Eliminates unauthorized removal of the bonnet assembly.

Bonnet
Bonnet-to-Body Metal Seal.

Traceability of Materials
All AS-Schneider Soft Seated Valves and Manifolds have material traceability. A unique code is stamped on all valve bodies linking them with their material and chemical analysis certificates.
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 and PEEK
- Stem Seal – PTFE Packing
- 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 Needle
- 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)

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Equalize and Vent Valves

**Bore Size 0.138” (3.5 mm)**

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

### Features

- Stem Seal
  - O-Ring in FKM (optional RGD resistant) or FEPM
- All other features as above

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<table>
<thead>
<tr>
<th>Components</th>
<th>Carbon Steel</th>
<th>Stainless Steel</th>
<th>Exotic Alloys</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Body</strong></td>
<td>A 105</td>
<td>316 / 316L</td>
<td>Alloy 400</td>
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<td><strong>Bonnet</strong></td>
<td>316 / 316L</td>
<td>Alloy 400</td>
<td>Alloy C-276</td>
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<td><strong>Seat</strong></td>
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<td><strong>Valve Stem</strong></td>
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<td><strong>O-Ring</strong></td>
<td>FKM or FEPM</td>
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<td><strong>Packing</strong></td>
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</tr>
<tr>
<td><strong>Lock Pin</strong></td>
<td>A4</td>
<td></td>
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</tbody>
</table>

Wetted components listed in **bold**.
Hand Valves

AS-Schneider Hand Valves are available with a lot of options. HA Type Hand Valves are bi-directional. HX Type Hand Valves also, but the inlet is defined by the extension. We are showing on this page just the standard types. You find a lot more options on the next page – Ordering Information Hand Valves.

**Bore Size:** 1/4” (6.35 mm)

The dimensions shown apply only to the illustrated valves (1/2 NPT Threaded) – if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

**Hand Valve Female x Female Threaded**
HAFF Type

**Hand Valve Male x Female Threaded**
HAMF Type

**Hand Valve with Extended Body**
HXMF Type
Extended by approx. 3”
## Ordering Information

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<th></th>
<th>1</th>
<th>2</th>
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<tbody>
<tr>
<td>H</td>
<td>A</td>
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<td>4</td>
<td>–</td>
<td>M</td>
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</tr>
</tbody>
</table>

### Hand Valves – Soft Seated

**Basic Design**
- Standard – 1/4” Bore Size
- Extended Body

**Inlet x Outlet** → HA Type Valves are bi-directional
- FF Female x Female
- MF Male x Female

**Material**
- Carbon Steel A105
- 1.4404 / 1.4401 / 316 / 316L
- Alloy 400 UNS N04400
- Alloy C-276 UNS N10276

**Stem Seal / Packing**
- A PTFE
- K O-Ring FKM
- J O-Ring FKM (RGD resistant)
- P O-Ring FEPM
- W Carbon filled PTFE

**Seat Material**
- D POM – 6,092 psi (420 bar) rated
- E ETFE – 3,000 psi (207 bar) rated
- P PEEK – 6,092 psi (420 bar) rated

**Dash**

**Inlet**

<p>| | |</p>
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<th></th>
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</thead>
<tbody>
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**Outlet**

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</thead>
<tbody>
<tr>
<td>1/4 NPT</td>
<td></td>
</tr>
<tr>
<td>1/2 NPT</td>
<td></td>
</tr>
</tbody>
</table>

**Options – Specify in alphabetical order (digits first, then letters)**
- B Cleaned for Oxygen Service
- M Wetted Parts with 3.5 certificate

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

Note: Not every configuration which can be created in the ordering information is feasible / available.
AS-Schneider Gauge Valves are designed for mounting to Pressure Gauges, Pressure Transmitters and Pressure Switches. The standard types are equipped with a bleed screw. We are showing on this page just the standard types.

**Bore Size:** 1/4” (6.35 mm)

You find a lot more options on the next page – Ordering Information Gauge Valves. Accessories like Swivel Gauge Adaptors, Vent Valves etc. see Pages 27-29.

The dimensions shown apply only to the illustrated valves (1/2 NPT Threaded) – if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

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### Gauge Valve Female x Female Threaded
**GSFF Type**

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### Gauge Valve Male x Female Threaded
**GSMF Type**

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### Gauge Valve Male x Female Threaded
**GAMF Type**

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**Mounting Bracket**
**AKM-S Type**
See also Page 27.
## Ordering Information

<table>
<thead>
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### Gauge Valves – Soft Seated, 1/4" Bore Size

#### Vent Connection
- A: 1/4 NPT Female
- B: 1/2 NPT Female

#### Inlet
- M: Male
- F: Female

#### Outlet
- M: Male
- F: Female

#### Material
- C: Carbon Steel A105
- S: 1.4404 / 1.4401 / 316 / 316L
- M: Alloy 600 UNS N04400
- H: Alloy C-276 UNS N10276

#### Stem Seal / Packing
- A: PTFE
- K: O-RingFKM
- J: O-RingFKM (RGD resistant)
- P: O-RingFEPM
- W: Carbon filled PTFE

#### Seat Material
- D: POM – 6,092 psi (420 bar) rated
- E: ETFE – 3,000 psi (207 bar) rated
- P: PEEK – 6,092 psi (420 bar) rated

#### Dash

#### Thread Size
- N2: 1/4 NPT
- N4: 1/2 NPT
- N6: 3/4 NPT – Male Thread only

#### Options – Specify in alphabetical order (digits first, then letters)
- B: Cleaned for Oxygen Service
- M: Wetted Parts with 3.1 certificate

#### Accessory Kits
- B: SST Mounting Bracket AKM-5 Type for 2" Pipe Mounting supplied separately – For Vertical Impulse Piping Installations

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

Note: Not every configuration which can be created in the ordering information is feasible / available.
Multiport Gauge Valves

AS-Schneider Multiport Gauge Valves are designed for mounting to Pressure Gauges, Pressure Transmitters and Pressure Switches. The standard types are provided with 3 female outlet ports and are therefore suitable for vertical or horizontal installations.

**Bore Size:** 1/4" (6.35 mm)

Accessories like Pipe Plugs and Vent Valves can be ordered separately or already factory installed – see also options next page – Ordering Information Multiport Gauge Valves. Accessories like Swivel Gauge Adaptors, Vent Valves etc. see Pages 27-29.

The dimensions shown apply only to the illustrated valves (1/2 NPT Threaded) – if you need the dimensions for your individual type or should you still not find your options at all please contact the factory.

**Multiport Gauge Valve – Screwed Bonnet**
MAMA Type

**Multiport Gauge Valve with Extended Body**
MXMA Type
Extended by approx. 3"

Outlet Options
- Open
- Vent Valve VS
- Vent Valve VT
- Pipe Plug
### Multiport Gauge Valves

#### Ordering Information

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**M Multiport Gauge Valves – Soft Seated**

#### Basic Design

- **A** Standard – 1/4” Bore Size
- **X** Extended Body

#### Inlet

- **M** Male
- **F** Female

#### Outlet

- **A** 3 x Female
- **B** Outlet 1 – Female, Outlet 2 – Pipe Plug, Outlet 3 – Vent Valve VS
- **C** Outlet 1 – Female, Outlet 2 – Pipe Plug, Outlet 3 – Vent Valve VT
- **D** Outlet 1 – Female, Outlet 2 and 3 – Pipe Plug

#### Material

- **C** Carbon Steel A105
- **S** 1.4404 / 1.4401 / 316 / 316L
- **M** Alloy 400 UNS N04400
- **H** Alloy C-276 UNS N10276

#### Stem Seal / Packing

- **A** PTFE
- **K** O-Ring FKM
- **J** O-Ring FKM (RGD resistant)
- **P** O-Ring FEPM
- **W** Carbon filled PTFE

#### Seat Material

- **D** POM – 6,092 psi (420 bar) rated
- **E** ETFE – 3,000 psi (207 bar) rated
- **P** PEEK – 6,092 psi (420 bar) rated

#### Dash

**Inlet**

- **N2** 1/4 NPT
- **N4** 1/2 NPT
- **N6** 3/4 NPT – Male Thread only

**Outlet**

- **N2** 1/4 NPT
- **N4** 1/2 NPT

**Dash**

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

- **B** Cleaned for Oxygen Service
- **M** Wetted Parts with 3.1 certificate

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

Note: Not every configuration which can be created in the ordering information is feasible / available.
3 Valve and 5 Valve Manifolds

AS-Schneider Soft Seated Manifolds are designed for remote installation but also for direct mounting to Differential Pressure Transmitters. The standard vent connection is 1/4 NPT female. The vent connections of 3 Valve Manifolds are plugged as well as the test ports of the 5 Valve Manifolds. The vent port of the 5 Valve Manifolds is supplied with a fitted Bug Plug as standard.

When mounting the Manifolds to ΔP Transmitters, Smart Multivariable or Flow Computer you must consider the mounting bolt lengths.

**Bore Size:**
- Isolate Valves are roddable – Bore Size 1/4” (6.35 mm) or 3/8” (9.5 mm)
- Equalize and Vent Valves – Bore Size 0.138” (3.5 mm)

**We are offering 3 different Manifold Styles** (see also Ordering Information on Page 20):
- R-Style – Remote Mounted Manifolds (Thread x Thread)
- T-Style – Thread x Flange Style Manifolds
- H-Style – Flange x Flange Style Manifolds

2 Valve Manifolds for Pressure Measurement see Manifolds for Ultrasonic Flow Meter Applications on Pages 24/25. Accessories like Pipe Plugs and Vent Valves respectively Mounting Bracket Kits see Pages 27-29. Should you not find your option please contact the factory.

---

**Flow Pattern of 3 Valve Manifolds**

---

**Flow Pattern of 5 Valve Manifolds**
Remote Mounted Manifolds (3 and 5 Valve Manifolds)

3 Valve Manifolds – Thread x Thread
R3A Type – 1/4" Soft Seat

5 Valve Manifolds – Thread x Thread
R5A Type – 1/4" Soft Seat

3 Valve Manifolds – Thread x Thread
R3S Type – 3/8" Soft Seat

5 Valve Manifolds – Thread x Thread
RSA Type – 1/4" Soft Seat

5 Valve Manifolds – Thread x Thread
RSS Type – 3/8" Soft Seat
**T-Style Manifolds**

**T-Style Manifolds (3 and 5 Valve Manifolds)**

3 Valve Manifolds – Thread x Flange
T3A Type – 1/4" Soft Seat

3 Valve Manifolds – Thread x Flange
T3S Type – 3/8" Soft Seat

5 Valve Manifolds – Thread x Flange
T5A Type – 1/4" Soft Seat

5 Valve Manifolds – Thread x Flange
T5S Type – 3/8" Soft Seat

Mounting Bracket
AKM-U Type
See also Page 27.
H-Style Manifolds (3 and 5 Valve Manifolds)

3 Valve Manifolds – Flange x Flange
H3A Type – 1/4" Soft Seat

3 Valve Manifolds – Flange x Flange
H3S Type – 3/8" Soft Seat

5 Valve Manifolds – Flange x Flange
H5A Type – 1/4" Soft Seat

5 Valve Manifolds – Flange x Flange
H5S Type – 3/8" Soft Seat

Mounting Bracket
AKM-U Type
See also Page 27.
3 Valve and 5 Valve Manifolds

Ordering Information

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R  Remote Mounted Manifolds
T  T-Style Manifolds – Thread x Flange
H  H-Style Manifolds – Flange x Flange

Quantity Bonnets
3  3 Valve Manifold
5  5 Valve Manifold

Manifold Design – Bore Size Isolate Valves
A  1/4" (6.35 mm) Bore Size on Isolate Valves
S  3/8" (9.5 mm) Bore Size on Isolate Valves

Dash

Body Material
S  1.4404 / 1.4401 / 316 / 316L
M  Alloy 400 UNS N04400
H  Alloy C-276 UNS N10276

Stem Seal / Packing
A  PTFE
K  O-Ring FKM
J  O-Ring FKM (RGD resistant)

P  O-Ring FPM
W  Carbon filled PTFE

Seat Material – Isolate Valves x Equalize/Vent Valves
A  ETFE x POM – 2,000 psi (138 bar) / 3,000 psi (207 bar) rated
B  POM x POM – 6,092 psi (420 bar) rated
C  ETFE x PCTFE – 2,000 psi (138 bar) / 3,000 psi (207 bar) rated
D  POM x PCTFE – 6,092 psi (420 bar) rated
P  PEEK x PEEK – 6,092 psi (420 bar) rated

Options – Specify in alphabetical order (digits first, then letters)
B  Cleaned for Oxygen Service
D  Dielectric Isolation (for T&H-Style only) – Only to be ordered with Accessory Kit Option Code 1 to 4
M  Wetted Parts with 3.1 certificate

Accessory Kits – For Manifold to Transmitter mounting
1 Hex Head Bolts 7/16-20 UNF x 1” lg. and Washers in SS, Seal Ring in PTFE – To mount Transmitters / Flow Computers with Traditional Flange.
2 Hex Head Bolts 7/16-20 UNF x 1” lg. and Washers in SS, Seal Ring in PTFE – To mount Transmitters / Flow Computers with Traditional Flange.
3 Hex Head Bolts 7/16-20 UNF x 2 1/4” lg. and Washers in SS, Seal Ring in PTFE – To mount Transmitters / Flow Computers with Rosemount Coplanar™ Flange.
4 Hex Head Bolts 7/16-20 UNF x 2 1/4” lg. and Washers in SS, Seal Ring in PTFE – To mount Transmitters / Flow Computers with Rosemount Coplanar™ Flange.
5 FKMs O-Rings for Flange Seal – Only to be ordered with Accessory Kit Option Code 1 to 4.

For Example Manifold with Bolts, Washers and Seal Rings acc. to Option Code 2, but instead of PTFE Seal Ring with FKM Seal Ring add Option Code 27.

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

Mounting Bracket Kits
8 SST Mounting Bracket AKM-U Type for 2" Pipe Mounting supplied separately – For R and T-Style Manifolds
9 SST Mounting Bracket AKM-U Type for 2" Pipe Mounting supplied separately – For H-Style Manifolds incl. Spacer

* Bolt Material S.S. = 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).

Note: Not every configuration which can be created in the ordering information is feasible / available.

Dielectric Isolation Kit

1 Flange Seal in POM
2 Bolt Sleeve in PEEK
   Rating: 2.500 VDC
   Resistance: 5 Meg Ohms
3 Bolt
5 Washer
   1.5mm thick
4 Washer
   3mm thick
Equalizer Manifolds (3 Valve Manifolds)

AS-Schneider Equalizer Manifolds (Double Equalize and 1 x Vent) are designed for direct mounting to Differential Pressure Transmitters. The standard vent connection is 1/4 NPT female. The test/calibration ports 1/4 NPT female are plugged.

**Bore Size:**
- Process to instrument connection – Bore Size 3/8” (9.5 mm)
- Equalize and Vent Valves – Bore Size 0.138” (3.5 mm)

Accessories like Pipe Plugs and Vent Valves etc. see also Pages 27-29. Should you not find your option please contact the factory.

### Equalizer Manifolds
#### EM3 Type

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- **Body Material**
  - C: Carbon Steel A105
  - S: 1.4404 / 1.4401 / 316L
  - M: Alloy 400 UNS N04400
  - H: Alloy C-276 UNS N10276

- **Seat Material**
  - D: POM K
  - P: PCTFE
  - PEEK

- **Thread Size**
  - N2: 1/4 NPT
  - N4: 1/2 NPT

- **Dash**

#### Accessories KIt – For Manifold to Transmitter mounting

1. 4 Hex Head Bolts 7/16-20 UNF x 1 3/4” lg. in CS, Seal Ring in PTFE – To mount Transmitters / Flow Computers with Traditional Flange.
2. 4 Hex Head Bolts 7/16-20 UNF x 1 3/4” lg. in SS, Seal Ring in PTFE – To mount Transmitters / Flow Computers with Traditional Flange.
3. 4 Hex Head Bolts 7/16-20 UNF x 3” lg. in CS, Seal Ring in PTFE – To mount Transmitters / Flow Computers with Rosemount Coplanar™ Flange.
4. 4 Hex Head Bolts 7/16-20 UNF x 3” lg. in SS, Seal Ring in PTFE – To mount Transmitters / Flow Computers with Rosemount Coplanar™ Flange.
5. FKM O-Rings for Flange Seal – Only to be ordered with Accessory Kit Option Code 1 to 4.
6. For Example Manifold with Bolts and Seal Rings acc. to Option Code 2, but instead of PTFE Seal Ring with FKM Seal Ring add Option Code 27.

*B Bolt Material S.S. = 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).

Note: Not every configuration which can be created in the ordering information is feasible / available.
AS-Schneider Chart Recorder Manifolds are designed for the calibration of chart recorders on natural gas pipelines.

**Two main types are available:**
- 3 Valve Manifolds – Double Equalize and Vent and
- 5 Valve Manifolds – Double Isolate / Double Equalize / Vent

The standard vent connection is 1/4 NPT female. The test/calibration ports 1/4 NPT female are plugged.

**Bore Size:** 1/4” (6.35 mm)

Accessories like Pipe Plugs and Vent Valves etc. see also Pages 27-29. Should you not find your option please contact the factory.

**3 Valve Manifold**
Available with PTFE Packing or Double O-Ring Needle Seal
Chart Recorder Manifolds

5 Valve Manifold
Available with PTFE Packing or Double O-Ring Needle Seal

Ordering Information

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<td>5 Valve Manifold</td>
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Quantity Valves

Dash

Body Material

- C Carbon Steel A105
- S 1.4404 / 1.4401 / 316 / 316L

Stem Seal / Packing

- A PTFE
- K O-Ring FKM

- J O-Ring FKM (RGD resistant)
- P O-Ring FEPM

Seat Material

- D POM – 6,092 psi (420 bar) rated
- E ETFE – 3,000 psi (207 bar) rated
- P PEEK – 6,092 psi (420 bar) rated

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

- B Cleaned for Oxygen Service
- M Wetted Parts with 3.1 certificate

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

Note: Not every configuration which can be created in the ordering information is feasible / available.
Manifolds for Ultrasonic Flow Meter Applications

Block & Bleed Manifolds – Flanged and Threaded Style

The following AS-Schneider Block & Bleed Manifolds are designed for a close coupled installation to Ultrasonic Flow Meters. The manifolds are supplied with stabilizer shoe as standard.

Two main types are available:

• Flanged Style – Multiport Type (3 outlet ports):
  1. Flange Connection
  2. 1/2 NPT Female Rod Out Port plugged and
  3. 1/4 NPT Female Vent/Calibrate Port
  4. Stabilizer Shoe

• Threaded Style – Multiport Type (3 outlet ports):
  3 Outlet Ports 1/2 NPT Female. Pipe Plugs / Vent Valves to be ordered separately.

The standard bleed/vent connection is 1/4 NPT female. To plug the vent ports use Option Code A.

Bore Size: Isolate Valves are roddable: Bore Size 1/4” (6.35 mm)  
Vent Valves: Bore Size 0.138” (3.5 mm)

Clearance of Process Connection to Transmitter = approx. 8”

Both Manifold Styles are supplied with a stabilizer shoe. Accessories like Pipe Plugs, Vent Valves, Swivel Gauge Adaptors and Mini Valves see also Pages 27-29 or Catalogue AS-2601 respectively AS-4303. Should you not find your option please contact the factory.

Block & Bleed Manifold – Flanged Style
Available with PTFE Packing or Double O-Ring Needle Seal

Block & Bleed Manifold – Threaded Style
Available with PTFE Packing or Double O-Ring Needle Seal
Manifolds for Ultrasonic Flow Meter Applications

INSTALLATION OF FLANGED TYPE BLOCK & BLEED MANIFOLDS

Example – Vertical Installation
Mini Valve assembled to bleed/calibrate connection, 2 outlet ports plugged.

Example – Horizontal Installation
2 Mini Valves assembled to bleed/vent and vent/calibrate connections.

INSTALLATION OF THREADED TYPE BLOCK & BLEED MANIFOLDS

Example – Horizontal Installation
Mini Valve assembled to bleed/calibrate connection, 2 outlet ports plugged.

Example – Vertical Installation
Mini Valve assembled to bleed/calibrate connection, 2 outlet ports plugged.
# Manifolds for Ultrasonic Flow Meter Applications

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### U: Manifolds for Ultrasonic Flow Meter Applications

#### Quantity Bonnets

- 2 Valve Manifold

#### Manifold Design

- T: Threaded Style
- F: Flanged Style

#### Dash

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<td>Alloy 400 UNS N04400</td>
<td>Alloy C-276 UNS N10276</td>
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#### Body Material

- S: 1.4404 / 1.4401 / 316 / 316L
- H: Alloy C-276 UNS N10276
- M: Alloy 400 UNS N04400

#### Stem Seal / Packing

- A: PTFE P O-Ring FEPM
- K: O-Ring FKM
- W: Carbon filled PTFE

#### Seat Material

- A: ETFE x POM – 3,000 psi (207 bar) rated
- B: ETFE x PCTFE – 3,000 psi (207 bar) rated
- C: PEEK x POM – 6,092 psi (420 bar) rated
- D: PEEK x PCTFE – 6,092 psi (420 bar) rated

#### Inlet

- N4: 1/2 NPT Male

#### Dash

- Options – Specify in alphabetical order (digits first, then letters)
  - A: Vent Port Plugged
  - B: Cleaned for Oxygen Service
  - D: Dielectric Isolation (for Flanged Style only) – Only to be ordered with Accessory Kit Option Code 1 to 4
  - M: Wetted Parts with 3.1 certificate
  - W: Without Stabilizer Shoe

### Accessory Kits for Flanged Style Manifolds – For Manifold to Transmitter mounting

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| Hex Head Bolts 7/16-20 UNF x 1 3/4” lg. and Washers in SS, Seal Ring in PTFE – To mount Transmitters / Flow Computers with Traditional Flange. | Hex Head Bolts 7/16-20 UNF x 1 3/4” lg. and Washers in SS, Seal Ring in PTFE – To mount Transmitters / Flow Computers with Traditional Flange. | Hex Head Bolts 7/16-20 UNF x 3 1/4” lg. and Washers in SS, Seal Ring in PTFE – To mount Transmitters / Flow Computers with Rosemount Coplanar™ Flange. | Hex Head Bolts 7/16-20 UNF x 3 1/4” lg. and Washers in SS, Seal Ring in PTFE – To mount Transmitters / Flow Computers with Rosemount Coplanar™ Flange. | FKM O-Rings for Flange Seal – Only to be ordered with Accessory Kit Option Code 1 to 4 For Example Manifold with Bolts, Washers and Seal Rings acc. to Option Code 2, but instead of PTFE Seal Ring with FKM Seal Ring add Option Code 27.

* Bolt Material S.S. = 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).

Note: Not every configuration which can be created in the ordering information is feasible / available.
**Mounting Bracket Kits**

**AKM-U Type – For Horizontal and Vertical Tube Run Installations**
For Manifolds Type H, R and T

**AKM-S Type**
For Valves and Manifolds with 1 1/4” Square Valve Body (Type H, G and M)

### Mounting Bracket Kit
Mounting Bracket Kits are containing:
- Mounting Bracket
- “U” Bolts*
- Washers – 8.4º
- Hexagon Nuts M8*
- Screws and Cups for Mounting the Manifold to the Bracket – if applicable

* Amount depending on bracket type. See illustrations.

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**AKM** Mounting Bracket Kits

Dash

Mounting Bracket incl. screws for mounting the bracket to the manifold (if applicable)

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<tr>
<td></td>
<td>Manifolds Type R</td>
</tr>
<tr>
<td></td>
<td>Manifolds Type T</td>
</tr>
</tbody>
</table>

**Mounting Method**

P 2” Pipe Mounting – Incl. “U” Bolt, Nuts and Washers

**Material**

| S | 316 Stainless Steel |

Dash

H Mandatory for Manifolds Type H and U-Type Bracket (incl. Spacer)
**Accessories**

## Bleeder Valves

### O-Ring Sealed Valve Head Unit

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Bleeder Valve Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/4 NPT</td>
<td>1/2 NPT</td>
</tr>
<tr>
<td>H</td>
<td>1.18&quot; (30)</td>
</tr>
</tbody>
</table>

### PTFE Packed Valve Head Unit

**Soft Seated**

**Metal Seated**

### Ordering Information

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
</tr>
</thead>
<tbody>
<tr>
<td>V</td>
<td>B</td>
<td>M</td>
<td>S</td>
<td>K</td>
<td>D</td>
<td>N</td>
<td>4</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**VB Bleeder Valves**

**Connection**

- M Male

**Material**

- S 1.4404 / 1.4401 / 316 / 316L
- M Alloy 400 UNS N04400
- H Alloy C-276 UNS N10276

**Bonnet Seal / Packing**

- A PTFE Packing
- K O-Ring FKM
- J O-Ring FKM (RGD resistant)
- P O-Ring FEPM

**Seat Material**

- D POM
- K PCTFE
- M Metal to Metal (Integral)
- P PEEK

**Threaded Connection**

- N2 1/4 NPT
- N4 1/2 NPT

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

- B Cleaned and Lubricated for Oxygen Service
- M Wetted Parts with Certified Mill Test Report (CMRT) as 3.1 certificate acc. to EN 10204
- V Round Handle in Stainless Steel
- Y Round Handle in Aluminium

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

Note: Not every configuration which can be created in the ordering information is feasible / available.
Vent Valves, Pipe Plugs and Pipe Fittings

Please see Ordering Information in our Catalogue 'AS-2601 I E Series Valves and Manifolds'.

Swivel Gauge Adapters

Vent Valves

Pipe Plugs

Female to Male Adapters

Hex Nipples

<table>
<thead>
<tr>
<th>Thread Size</th>
<th>A (Available Lengths)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.50” (38.1 mm)</td>
</tr>
<tr>
<td></td>
<td>1.75” (44.5 mm)</td>
</tr>
<tr>
<td></td>
<td>2.00” (50.4 mm)</td>
</tr>
<tr>
<td></td>
<td>3.00” (76.2 mm)</td>
</tr>
<tr>
<td></td>
<td>4.00” (101.6 mm)</td>
</tr>
<tr>
<td>N2, G2</td>
<td>Standard</td>
</tr>
<tr>
<td>N4, G4, M4</td>
<td>Standard</td>
</tr>
<tr>
<td>Combination of #2 and #4</td>
<td>Standard</td>
</tr>
</tbody>
</table>

Test and Calibration Mini Valves

Please see Ordering Information in our Catalogue 'AS-4303 I Mini Valves and Rupture Disc Holders'.

Straight Pattern

Angle Pattern
AS-Schneider is providing the following Dielectric Isolation Kits (always supplied as pair: 2 Dielectric Flange Seals, 4 Bolts, 4 Washers and 4 Bolt Sleeves):

### Components

**Dielectric Isolation Kits**

<table>
<thead>
<tr>
<th>Flange Seal Rings and Valve Seats</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Components</strong></td>
</tr>
<tr>
<td>Flange Seal Ring for Stabilized Connectors and Manifolds</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Valve Seats – Isolate Valves (Block Valves)</td>
</tr>
<tr>
<td>– 3/8&quot; (9.5 mm) Bore Size – Cone Design</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Valve Seats – Isolate Valves (Block Valves)</td>
</tr>
<tr>
<td>– 1/4&quot; (6.35 mm) Bore Size – Cone Design</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Valve Seats – Equalize and Vent Valves</td>
</tr>
<tr>
<td>– 0.138&quot; (3.5 mm) Bore Size – Cup Design</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
Comparison of AS-Schneider's Soft Seated Valve Options

**Soft Seat – Cone Design**

- Bore Size 1/4" (6.35 mm) and 3/8" (9.5 mm)
- Seat Material: ETFE, POM, PEEK
- Straight-Through Design → Fully Roddable for easy cleaning if used in dirty service
- Bi-directional Flow
- Field Replaceable

**Soft Seat – Cup Design**

- Bore Size 0.138" (3.5 mm)
- Seat Material: PCTFE, POM, PEEK
- Field Replaceable
- Small in size but big on pressure load

**Soft Tip Design**

- Bore Size 0.197" (5 mm)
- Tip Material: PCTFE, POM
- Same Valve Body as for all E Series Metal Seated Valves and Manifolds

**Needle Valves with Soft Tip**

**Bore Size 0.197" (5.0 mm)** — Needle Seal: PTFE Packing or O-Ring

**Features**

- Integral Valve Seat
- Needle Seat
  - PTFE Packing or
  - O-Rings in FKM (optional RGD resistant) or EPDM
- Soft Tip PCTFE or POM
- Non-rotating Needle
- External Stem Thread – Packing below stem threads. Stem Threads are protected from process media (non-wetted).
- Stem with cold rolled Threads
- Blow-out proof Needle
- Back Seat – Metal to metal secondary needle seal
- Lock Pin – Eliminates unauthorized removal of the bonnet
- Color Coded Dust Cap for operating thread protection
- Standard 6,092 psi (420 bar) rated
- Anti-Tamper Valve Head Options available
- All non-wetted parts in 316 stainless steel

**Valve Head Units with Soft Tip are specified in Catalogue ‘AS-2601 I E Series Valves and Manifolds’.”**
YOUR GLOBAL PARTNER

for Instrumentation and Double Block & Bleed Valves

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