



**NOSHOK, INC.**  
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Part Number 2180-FFC, Soft Seat, 1/4" National Pipe Thread (NPT) Female x 1/4" National Pipe Thread (NPT) Female, Steel 2-Valve Chart Recorder Manifold, Soft Seat

- Designed for use with chart recorders
- 100% helium leak tested to  $1 \times 10^{-4}$  ml/s for guaranteed performance and reliability
- Replaceable Acetal seat and straight through porting for bidirectional, high capacity flow and easy roddable cleaning



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Specifications

Type	Manifold Valve
Materials	Zinc-nickel plated steel, electropolished 316 Stainless Steel
Series	2-Valve
Seat	Soft Seat
Process Type	Chart Recorder Manifold
Connection Size	1/4 in
Connection Type	National Pipe Thread (NPT)

<b>Valve Type</b>	Female-Female
<b>Valve Material</b>	Steel
<b>Pressure Rating at 200 Degree Fahrenheit (°F) Temperature</b>	6,000 psi
<b>Orifice Size</b>	0.187 in
<b>Flow Coefficient Cv</b>	0.76
<b>Stem Seal and Type</b>	All 316 Stainless Steel stems with Fluorocarbon (FKM) o-ring and Polytetrafluoroethylene (PTFE) back-up ring below the threads, Polytetrafluoroethylene (PTFE) packing optional
<b>Warranty</b>	3 yr

## Prop 65 Warnings

### Prop 65 Warnings

 **WARNING:** This product can expose you to chemicals including Lead and Nickel, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Limitations Which Apply Are

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These units must be operated within the catalogued environmental and application parameters. Determination of failure will be made by NOSHOK, Inc.'s equipment and personnel or a certified test facility specializing in this type of evaluation.

In keeping with and for purposes of product and/or manufacturing process improvements, NOSHOK, Inc. reserves the right to make design changes without prior notice.

## Options

## Options

o-ring materials, handles, packings, regulating stem and stem tips

## Additional Options

## Additional Options

- Packings
  - PTFE (P1)
- Stem Tips
  - Non-rotating (316 stainless) (T1)
- O-rings
  - EPDM (EM1)
  - FFKM (Perfluoroelastomer ( FFKM) 3018 or equivalent) (KZ1)
  - NBR (NB1)

Note for O-rings - Other o-ring materials available on request.
- Handles
  - 1" Round knurled (HL3)
  - 1-3/8" Phenolic (HL4)
  - 1-3/4" Phenolic (HL5)

## Options and Accessories

## Installed Options and Accessories

- Packing
- PTFE Manifold Gasket Ring (RG1-TF1)
- Graphite Manifold Gasket (RG1-GF1)

- Aflas (AF1) (For 1/8" NPT to 1/2" NPT only)
- Perfluoroelastomer (FFKM) 3018 (KZ1) (For 1/8" NPT to 1/2" NPT only)
- Perfluoroelastomer (FFKM) 4079 (KZ2) (For 1/8" NPT to 1/2" NPT only)
- Simriz 89D (KZ3) (For 1/8" NPT to 1/2" NPT only)
- Perfluoroelastomer (FFKM) 7075 (KZ4) (For 1/8" NPT to 1/2" NPT only)

## O-Ring Options

- Elast O Lion (EL1) (For 1/8" NPT to 1/2" NPT only)
- EPDM 80 (EM1) (For 1/8" NPT to 1/2" NPT only)
- EPDM 90 (EM2) (For 1/8" NPT to 1/2" NPT only)
- EPDM 70 (EM3) (For 1/8" NPT to 1/2" NPT only)
- NBR 70 (NB1) (For 1/8" NPT to 1/2" NPT only)
- EPDM 70 (EM1) (For 3/4" NPT to 1-1/2" NPT only)
- Perfluoroelastomer (FFKM) 4079 (KZ2) (For 3/4" NPT to 1-1/2" NPT only)
- Elast O Lion (EL1) (For 3/4" NPT to 1-1/2" NPT only)
- Low Temperature FKM (VT1) (For 1/8" NPT to 1/2" NPT only)
- Low Temperature FKM (VT2) (For 3/4" NPT to 1-1/2" NPT only)

## Additional Information

### Additional Information

- Blow-out proof stem provides a secondary stem seal in the full open position
- FKM o-ring seal and PTFE back-up ring below the stem threads to protect from corrosion and galling; PTFE packing optional
- All stems are 316 Stainless Steel
- All stem threads are rolled for strength and ease of operation
- One-piece bonnet with a metal-to-metal seal to the valve body below the bonnet threads
- Slotted spring pin to prevent accidental loosening
- Vinyl dust caps for bonnets and stems (non-packing)