

Manifolds Class 600 and 1500

Total RC THR RC INS 920

Contract: GLOB-0560

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

Total Refining and Chemicals - THR RC INS 920

| | |
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⚠ WARNING

FAILURE, IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries or its authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met. The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

Offer of Sale

The items described in this document are available for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. Any sale contract entered into by Parker will be governed by the provisions stated in Parker's standard terms and conditions of sale (copy available upon request).

Welcome to Parker catalogue 4190-Total, compliant to the TOTAL RC's Contract GLOB-0560, further requisition THR RC INS 920. This contract between TOTAL RC and Parker is for Manifold ANSI Class 600 and 1500.

Total RC is standardising on manifolds produced by the Instrumentation Products Division of Parker Hannifin, the global leader in motion and control technologies. The decision follows several years extensive temperature, pressure and corrosion testing of products from different manufacturers – Parker is the first company to have secured a 100 percent pass rate.

Specification

All 2, 4, 5 valve Manifolds, Close Couple Monoflange or Monoflange supplied for this contract GLOB-0560 have the following features:

- Stainless Steel 316 construction
- NACE MR0175 / ISO 15156 certified for the wetted parts
- IEC 61518 Type B with Graphite seals.
- Graphoil packing
- Anti-Tamper Bonnets on Vent Valves
- Steam Trace port for heat tracing (Available without this standard option)
- PTFree Connect™ or with welded Class 600 & 1500 Flanges
- Heat Code Traced

PTFree connect™

Our PTFree connect™ system provides a simple means of connecting impulse lines to manifolds without involving the use of taper threads, PTFE tape or thread sealant. Available as an option for every type of manifold valve block that Parker produces, PTFree connect offers different versions that accommodate metric tube sizes from 6 to 12 mm and imperial sizes from 1/4 to 1/2 inch.

In this Catalogue

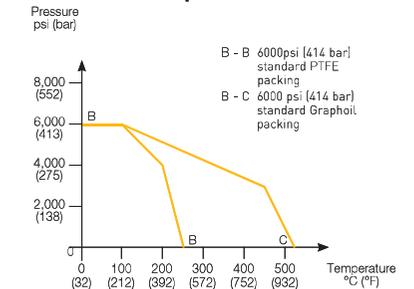
This catalogue details design innovation – based around TOTAL RC standardisation – that will save significant engineering and installation time and costs for users of process fluid instrumentation.

The following pages detail a range of manifolds and accessories for small-bore instrumentation requirements that allow anyone to select and order a manifold and available options for a process application in a few minutes. Once you have made your selection, Parker assembles and delivers the finished manifold to you - ready for immediate installation.

Need any help?

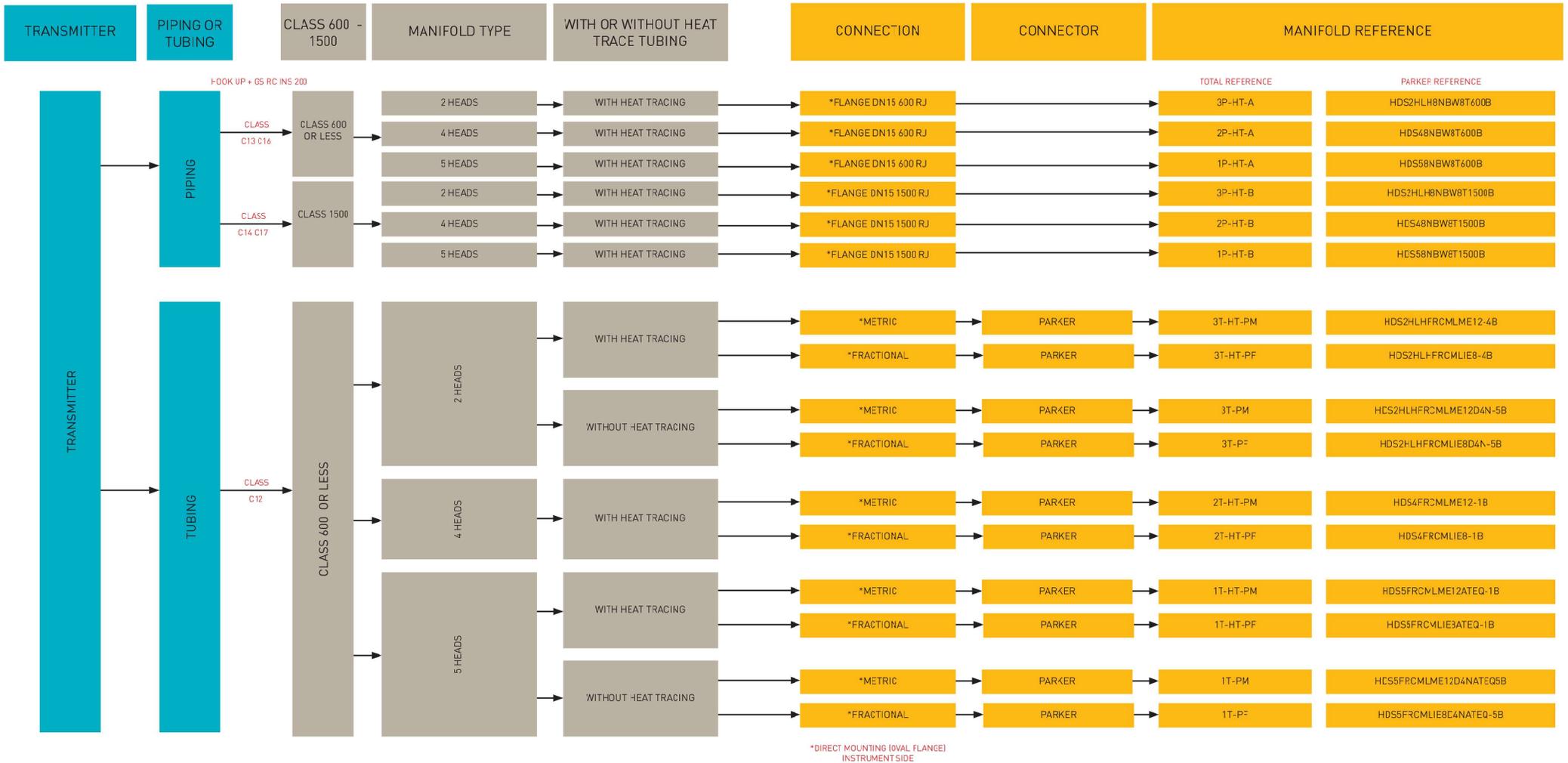
If you need help in selecting a manifold, available options or complementary products, Parker welcomes your contact, see the back page of this catalogue to find your local office.

Pressure vs temperature



Manifolds for Transmitters

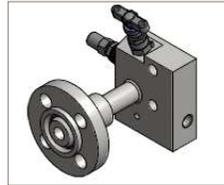
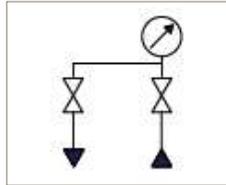
Choice Guide, Manifold for New Installation or Revamped Hook-ups



Manifolds for Transmitters

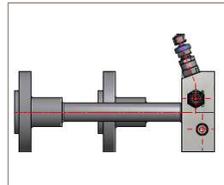
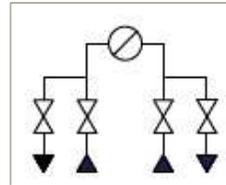
2, 4, 5 Valve Manifolds for Transmitter to Piping Class 600

- 2 Valve Manifold
- With Heat Tracing
- Flange DN15 600 RJ
- IEC 61518 Type B



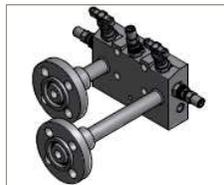
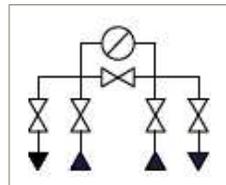
| Inlet | Outlet | Vent | Total Part Number | Parker Part Number |
|--|---------|------------------|-------------------|--------------------|
| 1/2" NB RT 600 LB ANSI B16.5 R11 Ring Groove | Flanged | 1/4-18 NPT (FEM) | 3P-HT-A | HDS2HLH8NBW8T600B |

- 4 Valve Manifold
- With Heat Tracing
- Flange DN15 600 RJ
- IEC 61518 Type B



| Inlet | Outlet | Vents | Total Part Number | Parker Part Number |
|--|---------|------------------|-------------------|--------------------|
| 1/2" NB RT 600 LB ANSI B16.5 R11 Ring Groove | Flanged | 1/4-18 NPT (FEM) | 2P-HT-A | HDS48NBW8T600B |

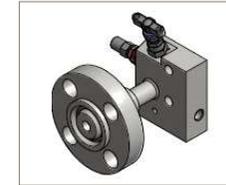
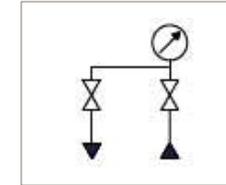
- 5 Valve Manifold
- With Heat Tracing
- Flange DN15 600 RJ
- IEC 61518 Type B



| Inlet | Outlet | Vents | Total Part Number | Parker Part Number |
|--|---------|------------------|-------------------|--------------------|
| 1/2" NB RT 600 LB ANSI B16.5 R11 Ring Groove | Flanged | 1/4-18 NPT (FEM) | 1P-HT-A | HDS58NBW8T600B |

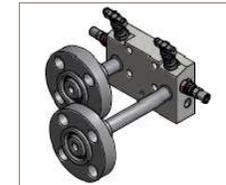
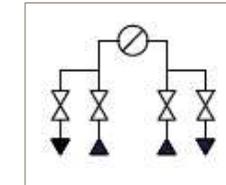
2, 4, 5 Valve Manifolds for Transmitter to Piping Class 1500

- 2 Valve Manifold
- With Heat Tracing
- Flange DN15 1500 RJ
- IEC 61518 Type B



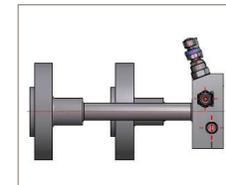
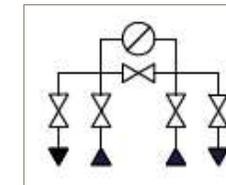
| Inlet | Outlet | Vent | Total Part Number | Parker Part Number |
|---|---------|------------------|-------------------|--------------------|
| 1/2" NB RT 1500 LB ANSI B16.5 R12 Ring Groove | Flanged | 1/4-18 NPT (FEM) | 3P-HT-B | HDS2HLH8NBW8T1500B |

- 4 Valve Manifold
- With Heat Tracing
- Flange DN15 1500 RJ
- IEC 61518 Type B



| Inlet | Outlet | Vents | Total Part Number | Parker Part Number |
|---|---------|------------------|-------------------|--------------------|
| 1/2" NB RT 1500 LB ANSI B16.5 R12 Ring Groove | Flanged | 1/4-18 NPT (FEM) | 2P-HT-B | HDS48NBW8T1500B |

- 5 Valve Manifold
- With Heat Tracing
- Flange DN15 1500 RJ
- IEC 61518 Type B

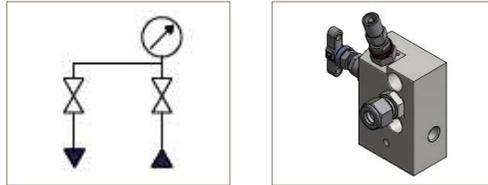


| Inlet | Outlet | Vents | Total Part Number | Parker Part Number |
|---|---------|------------------|-------------------|--------------------|
| 1/2" NB RT 1500 LB ANSI B16.5 R12 Ring Groove | Flanged | 1/4-18 NPT (FEM) | 1P-HT-B | HDS58NBW8T1500B |

Manifolds for Transmitters

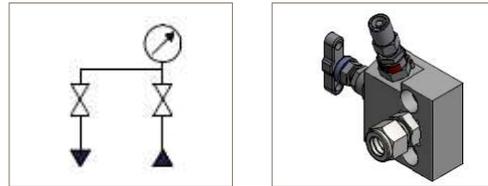
2, 4, 5 Valve Manifolds for Transmitter to Tubing Below Class 600

- 2 Valve Manifold
- With Heat Tracing
- Metric and Imperial Connections
- IEC 61518 Type B



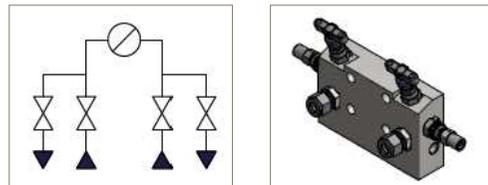
| | Inlet | Outlet | Vent | Total Part Number | Parker Part Number |
|----------|----------------|---------|------------------|-------------------|--------------------|
| Metric | 12mm O.D A-LOK | Flanged | 1/4-18 NPT (FEM) | 3T-HT-PM | HDS2HLHFRCLME12-4B |
| Imperial | 1/2" O.D A-LOK | Flanged | 1/4-18 NPT (FEM) | 3T-HT-PF | HDS2HLHFRCLME8-4B |

- 2 Valve Manifold
- Without Heat Tracing
- Metric and Imperial Connections
- IEC 61518 Type B



| | Inlet | Outlet | Vent | Total Part Number | Parker Part Number |
|----------|----------------|---------|------------------|-------------------|-----------------------|
| Metric | 12mm O.D A-LOK | Flanged | 1/4-18 NPT (FEM) | 3T-PM | HDS2HLHFRCLME12D4N-5B |
| Imperial | 1/2" O.D A-LOK | Flanged | 1/4-18 NPT (FEM) | 3T-PF | HDS2HLHFRCLME8D4N-5B |

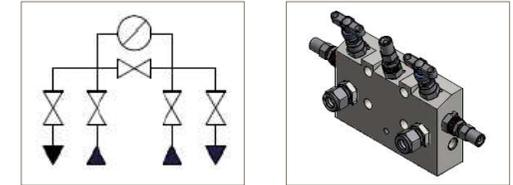
- 4 Valve Manifold
- With Heat Tracing
- Metric and Imperial Connections
- IEC 61518 Type B



| | Inlet | Outlet | Vent | Total Part Number | Parker Part Number |
|----------|-----------------------|---------|------------------|-------------------|--------------------|
| Metric | 12mm O.D A-LOK PTFree | Flanged | 1/4-18 NPT (FEM) | 2T-HT-PM | HDS4FRCMLME12-1B |
| Imperial | 1/2" O.D A-LOK PTFree | Flanged | 1/4-18 NPT (FEM) | 2T-HT-PF | HDS4FRCMLME8-1B |

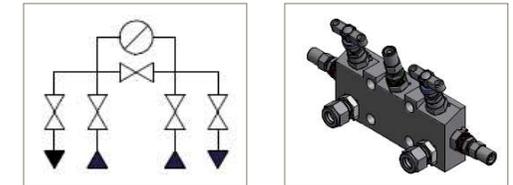
8

- 5 Valve Manifold
- With Heat Tracing
- Metric and imperial connections
- IEC 61518 Type B



| | Inlet | Outlet | Vent | Total Part Number | Parker Part Number |
|----------|-----------------------|---------|------------------|-------------------|----------------------|
| Metric | 12mm O.D A-LOK | Flanged | 1/4-18 NPT (FEM) | 1T-HT-PM | HDS5FRCMLME12ATEQ-1B |
| Imperial | 1/2" O.D A-LOK PTFree | Flanged | 1/4-18 NPT (FEM) | 1T-HT-PF | HDS5FRCMLME8ATEQ-1B |

- 5 Valve Manifold
- Without Heat Tracing
- Metric and imperial connections
- IEC 61518 Type B

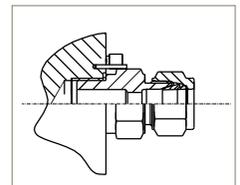


| | Inlet | Outlet | Vent | Total Part Number | Parker Part Number |
|----------|----------------|---------|------------------|-------------------|------------------------|
| Metric | 12mm O.D A-LOK | Flanged | 1/4-18 NPT (FEM) | 1T-PM | HDS5FRCMLME12D4NATEQ5B |
| Imperial | 1/2" O.D A-LOK | Flanged | 1/4-18 NPT (FEM) | 1T-PF | HDS5FRCMLME8D4NATEQ5B |

PTFree connect™ Manifold connections

The PTFree connect™ system enables users to assemble tube lines to any of the manifold ports without the need for PTFE tape or liquid sealant. This connection can be applied to any of the manifolds featured in this catalogue. These will be factory-fitted, pin-locked and pressure tested.

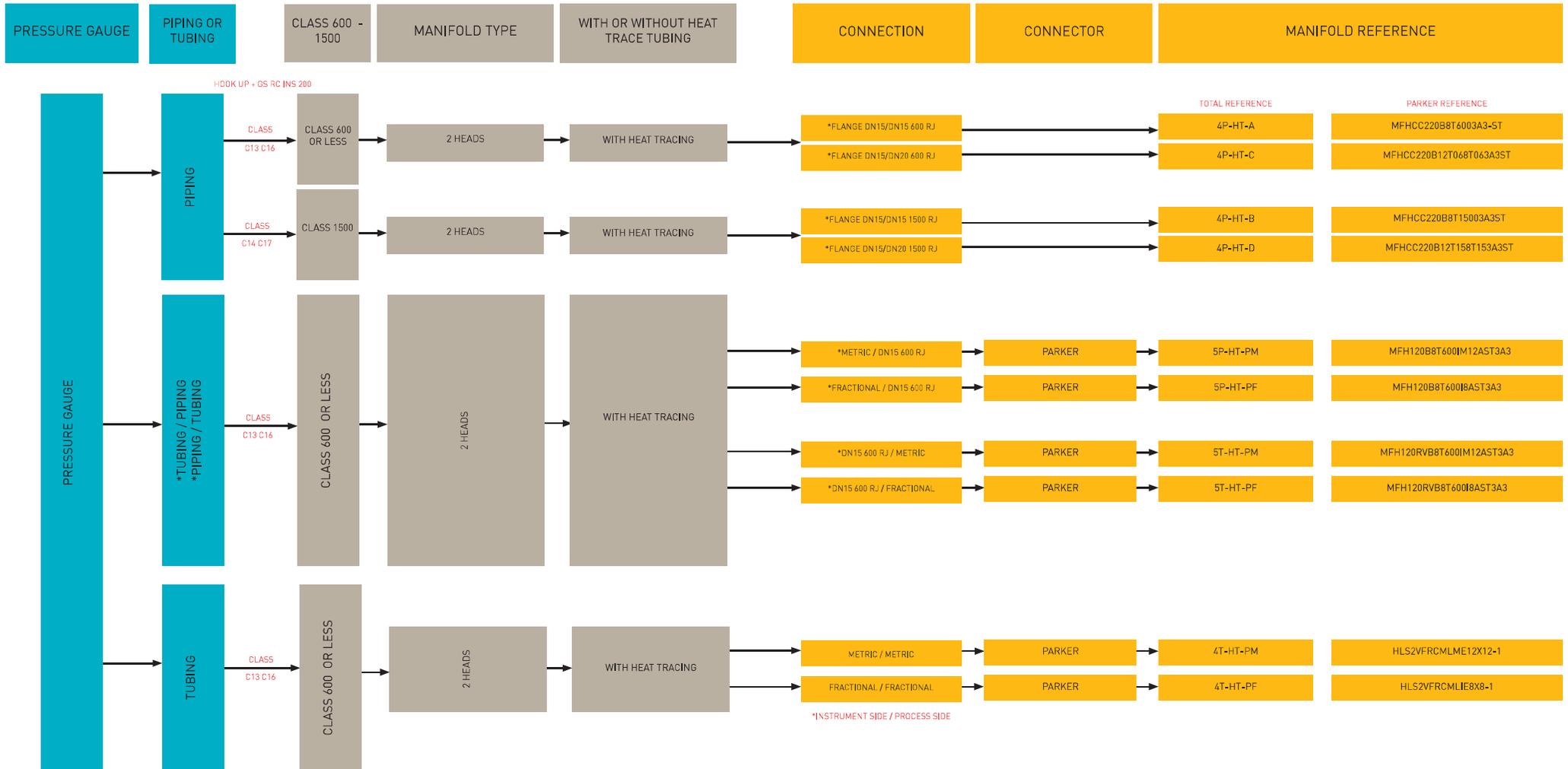
PTFree connect™ enables angled tube connections to be swivelled until the optimum tube alignment position has been achieved. Assembly to the tube connector is gained by tightening the standpipe nut one-quarter turn from the finger tight position.



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Manifolds for Pressure Gauges

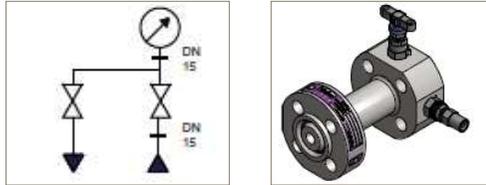
Choice Guide, Manifold for New Installation or Revamped Hook-ups



Manifolds for Pressure Gauges

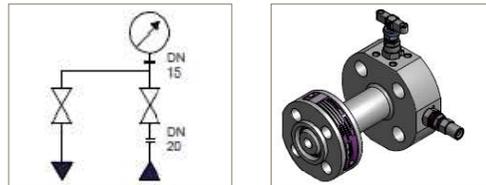
2 Valve Close Couple Monoflange for Pressure Gauge to Piping Class 600

- 2 Valve Close Couple Monoflange
- With Heat Tracing
- Flange DN15/DN15 600 RJ



| Inlet | Outlet | Vent | Total Part Number | Parker Part Number |
|--------------|--------------|------------------|-------------------|----------------------|
| 1/2" Flanged | 1/2" Flanged | 1/4-18 NPT (FEM) | 4P-HT-A | MFHCC220B8T6003A3-ST |

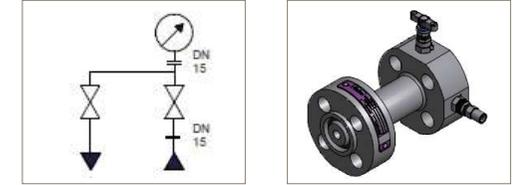
- 2 Valve Close Couple Monoflange
- Without Heat Tracing
- Flange DN15/DN20 600 RJ



| Inlet | Outlet | Vent | Total Part Number | Parker Part Number |
|--------------|--------------|------------------|-------------------|-------------------------|
| 3/4" Flanged | 1/2" Flanged | 1/4-18 NPT (FEM) | 4P-HT-C | MFHCC220B12T068T063A3ST |

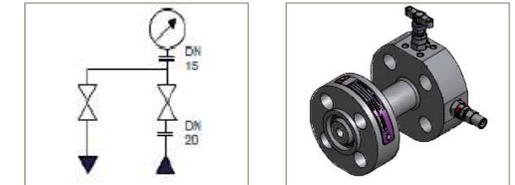
2 Valve Close Couple Monoflange for Pressure Gauge to Piping Class 1500

- 2 Valve Close Couple Monoflange
- With Heat Tracing
- Flange DN15/DN15 1500 RJ



| Inlet | Outlet | Vent | Total Part Number | Parker Part Number |
|--------------|--------------|------------------|-------------------|----------------------|
| 1/2" Flanged | 1/2" Flanged | 1/4-18 NPT (FEM) | 4P-HT-B | MFHCC220B8T15003A3ST |

- 2 Valve Close Couple Monoflange
- With Heat Tracing
- Flange DN15/DN 20 1500 RJ

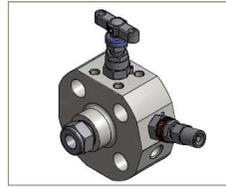
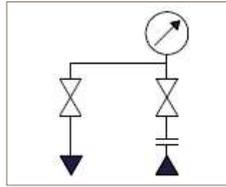


| Inlet | Outlet | Vent | Total Part Number | Parker Part Number |
|--------------|--------------|------------------|-------------------|-------------------------|
| 3/4" Flanged | 1/2" Flanged | 1/4-18 NPT (FEM) | 4P-HT-D | MFHCC220B12T158T153A3ST |

Manifolds for Pressure Gauges

2 Valve Monoflange for Pressure Gauge Flange to Tubing

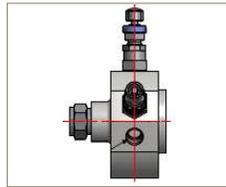
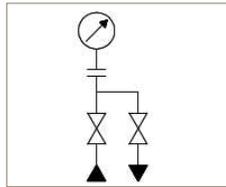
- 2 Valve Monoflange
- With Heat Tracing
- DN15 600 RJ
- Metric and Imperial Connections



| | Inlet | Outlet | Vent | Total Part Number | Parker Part Number |
|----------|--------------|----------------------------|------------------|-------------------|------------------------|
| Metric | 1/2" Flanged | 12mm O.D Inverted A-LOK | 1/4-18 NPT (FEM) | 5P-HT-PM | MFH120B8T600IM12AST3A3 |
| Imperial | 1/2" Flanged | 1/2" O.D Inverted A-LOK | 1/4-18 NPT (FEM) | 5P-HT-PF | MFH120B8T600I8AST3A3 |

2 Valve Monoflange for Pressure Gauge Tubing to Flange

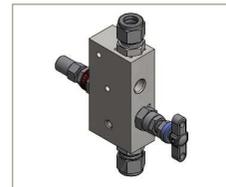
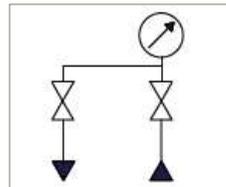
- 2 Valve Monoflange
- Without Heat Tracing
- DN15 600 RJ
- Metric and Imperial Connections
- Reverse Flow



| | Inlet | Outlet | Vent | Total Part Number | Parker Part Number |
|----------|----------------------------|--------------|------------------|-------------------|--------------------------|
| Metric | 12mm O.D Inverted A-LOK | 1/2" Flanged | 1/4-18 NPT (FEM) | 5T-HT-PM | MFH120RVB8T600IM12AST3A3 |
| Imperial | 1/2" O.D A-LOK | 1/2" Flanged | 1/4-18 NPT (FEM) | 5T-HT-PF | MFH120RVB8T600I8AST3A3 |

2 Valve Manifolds for Pressure Gauge to Tubing Class 600 or less

- 2 Valve Manifold
- With Heat Tracing
- Metric and Imperial Connections



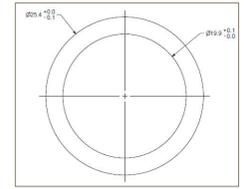
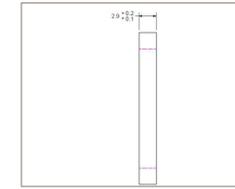
| | Inlet | Outlet | Vent | Total Part Number | Parker Part Number |
|----------|-------------------|-------------------|------------------|-------------------|--------------------|
| Metric | 12mm O.D A-LOK | 12mm O.D A-LOK | 1/4-18 NPT (FEM) | 4T-HT-PM | HLS2VFRCLME12X12-1 |
| Imperial | 1/2" O.D A-LOK | 1/2" O.D A-LOK | 1/4-18 NPT (FEM) | 4T-HT-PF | HLS2VFRCLIE8X8-1 |

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Seals

Direct Mount Seal - Graphite

- IEC 61518
- Type B direct mount seal
- Graphite for manifold without extended spigot
- PTFE option available



| Type | Mount | Description | Parker Part Number |
|-------|--------|--------------------------------------|--------------------|
| IEC B | Direct | Standard Manifold Graphoil Packing | HIEC001-GRAPHITE |
| IEC B | Direct | O ² Manifold PTFE Packing | HIEC001-PTFE/1 |

| Item | Service | Part Number | |
|---|------------------------|--|---|
| 1 graphite seal | HC SERVICE | HIEC001-GRAPHITE/1 | Order desired QTY |
| 1 PTFE seal | O ² SERVICE | HIEC001-PTFE/1 | Order desired QTY |
| Isolating valve and accessories with graphite seals | HC SERVICE | HBNTSISGRF | 316SS / T-Bar Isolate/ Blue Cap / GRAPHITE |
| Isolating valve and accessories with PTFE seals | O ² SERVICE | HBNTSISPTFE | 316SS / T-Bar Isolate / Blue Cap / PTFE |
| Drain valve and accessories | HC SERVICE | HBNTSDRGRFAT | 316SS / Anti-tamper / Red Vent Sticker / GRAPHITE / No AT Key |
| Drain valve and accessories | O ² SERVICE | HBNTSDRPTFEAT | 316SS / Anti-tamper / Red Vent Sticker / PTFE / No AT Key |
| Equalizing valve and accessories | HC SERVICE | HBNTSEQGRFAT | 316SS / Anti-tamper / Green Equalise Sticker / GRAPHITE / No AT Key |
| Equalizing valve and accessories | O ² SERVICE | HBNTSEQPTFEAT | 316SS / Anti-tamper / Green Equalise Sticker / PTFE / No AT Key |
| Bolting / Fastenings for 4 or 5 heads manifold for transmitter connection | | PH582-2INCHSS/1 H-BOLT-7/16-1.63-SS/4 | For 1.5" THK manifolds For 1.125" & 1.25" THK manifolds Order desired QTY |
| Bolting / Fastenings for 2 heads manifold for transmitter connection | | PH582-2INCHSS/1 H-BOLT-7/16-1.63-SS/4 | For 1.5" THK manifolds For 1.125" & 1.25" THK manifolds Order desired QTY |
| Anti-tamper equipment | | ATHKEY/1 | Anti-Tamper key |
| Manifold for electrical tracing 90 mm | | Heater 2HDS2 | |
| Manifold for electrical tracing 105 mm | | Heater 5HDS5 | |

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Manifold Options

| TOTAL standard | Type | FITTING | | Equipment reference (no SS bracket included) |
|----------------|---|----------|------|--|
| | | Diameter | Type | |
| 1P-HT A | 5 heads direct assembly with heat tracing | N/A | N/A | HDS58NBW8T600B |
| 1P-HT B | 5 heads direct assembly with heat tracing | N/A | N/A | HDS58NBW8T1500B |
| 2P-HT A | 4 heads direct assembly with heat tracing | N/A | N/A | HDS48NBW8T600B |
| 2P-HT B | 4 heads direct assembly with heat tracing | N/A | N/A | HDS48NBW8T1500B |
| 3P-HT A | 2 heads direct assembly with heat tracing | N/A | N/A | HDS2HLH8NBW8T600B |
| 3P-HT B | 2 heads direct assembly with heat tracing | N/A | N/A | HDS2HLH8NBW8T1500B |
| 4P-HT A | 2 heads pressure gauge with heat tracing | N/A | N/A | MFHCC220B8T6003A3-ST |
| 4P-HT B | 2 heads pressure gauge with heat tracing | N/A | N/A | MFHCC220B8T15003A3ST |
| 4P-HT C | 2 heads pressure gauge with heat tracing | N/A | N/A | MFHCC220B12T068T063A3ST |
| 4P-HT D | 2 heads pressure gauge with heat tracing | N/A | N/A | MFHCC220B12T158T153A3ST |

| | | | | |
|----------|--|-------|--------|--------------------------|
| 1T-PM | 5 heads direct assembly without heat tracing | 12 mm | Metric | HDS5FRCMLME12D4NATEQ5B |
| 1T-HT-PM | 5 heads direct assembly with heat tracing | 12 mm | Metric | HDS5FRCMLME12ATEQ-1B |
| 2T-HT-PM | 4 heads direct assembly with heat tracing | 12 mm | Metric | HDS4FRCMLME12-1B |
| 3T-PM | 2 heads direct assembly without heat tracing | 12 mm | Metric | HDS2HLHFRCMLME12D4N-5B |
| 3T-HT-PM | 2 heads direct assembly with heat tracing | 12 mm | Metric | HDS2HLHFRCMLME12-4B |
| 5P-HT-PM | 2 heads pressure gauge with heat tracing | 12 mm | Metric | MFH120B8T600IM12AST3A3 |
| 5T-HT-PM | 2 heads pressure gauge with heat tracing | 12 mm | Metric | MFH120RVB8T600IM12AST3A3 |
| 4T-HT-PM | 2 heads pressure gauge with heat tracing | 12 mm | Metric | HLS2VFCMLME12X12-1 |

| | | | | |
|----------|--|-----|------------|------------------------|
| 1T-PF | 5 heads direct assembly without heat tracing | 1/2 | Fractional | HDS5FRCMLIE8D4NATEQ-5B |
| 1T-HT-PF | 5 heads direct assembly with heat tracing | 1/2 | Fractional | HDS5FRCMLIE8ATEQ-1B |
| 2T-HT-PF | 4 heads direct assembly with heat tracing | 1/2 | Fractional | HDS4FRCMLIE8-1B |
| 3T-PF | 2 heads direct assembly without heat tracing | 1/2 | Fractional | HDS2HLHFRCMLIE8D4N-5B |
| 3T-HT-PF | 2 heads direct assembly with heat tracing | 1/2 | Fractional | HDS2HLHFRCMLIE8-4B |
| 5P-HT-PF | 2 heads pressure gauge with heat tracing | 1/2 | Fractional | MFH120B8T600I8AST3A3 |
| 5T-HT-PF | 2 heads pressure gauge with heat tracing | 1/2 | Fractional | MFH120RVB8T600I8AST3A3 |
| 4T-HT-PF | 2 heads pressure gauge with heat tracing | 1/2 | Fractional | HLS2VFCMLIE8X8-1 |

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| Equipment reference (with SS bracket assembled) | Reference for the Stainless Steel mounting bracket kit alone | Service O2 (Brackets not included) Equipment reference |
|---|--|--|
| HDS58NBW8T600B | BKT5SSB6 | HDS58NBW8T600BOX |
| HDS58NBW8T1500B | BKT5SSB6 | HDS58NBW8T1500BOX |
| HDS48NBW8T600B | BKT5SSB6 | HDS48NBW8T600BOX |
| HDS48NBW8T1500B | BKT5SSB6 | HDS48NBW8T1500BOX |
| HDS2HLH8NBW8T600B | BKT3SSBM10-KG | HDS2HLH8NBW8T600BOX |
| HDS2HLH8NBW8T1500B | BKT3SSBM10-KG | HDS2HLH8NBW8T1500BOX |
| MFHCC220B8T6003A3-ST | N/A | MFHCC220B8T600A3STOX |
| MFHCC220B8T15003A3ST | N/A | MFHCC220B8T1500A3STOX |
| MFHCC220B12T068T063A3ST | N/A | MFHCC220B12T068T06A3STOX |
| MFHCC220B12T158T153A3ST | N/A | MFHCC220B12T158T15A3STOX |

| | | |
|--------------------------|----------|---------------------------|
| HDS5FRCMLME12D4NATEQ5B | BKT5SSB6 | HDS5FRCMLME12D4NATEQ5BOX |
| HDS5FRCMLME12ATEQ-1B | BKT5SSB6 | HDS5FRCMLME12ATEQ-1BOX |
| HDS4FRCMLME12-1B | BKT5SSB6 | HDS4FRCMLME12-1BOX |
| HDS2HLHFRCMLME12D4N-5B | BKT3SSB3 | HDS2HLHFRCMLME12D4N-5BOX |
| HDS2HLHFRCMLME12-4B | BKT3SSB3 | HDS2HLHFRCMLME12-4BOX |
| MFH120B8T600IM12AST3A3 | N/A | MFH120B8T600IM12ASTA3OX |
| MFH120RVB8T600IM12AST3A3 | N/A | MFH120RVB8T600IM12ASTA3OX |
| HLS2VFCMLME12X12-1BRK | BKT1SSB1 | HLS2VFCMLME12X12-1OX |

| | | |
|------------------------|----------|-------------------------|
| HDS5FRCMLIE8D4NATEQ5B | BKT5SSB6 | HDS5FRCMLIE8D4NATEQ5BOX |
| HDS5FRCMLIE8ATEQ-1B | BKT5SSB6 | HDS5FRCMLIE8ATEQ-1BOX |
| HDS4FRCMLIE8-1B | BKT5SSB6 | HDS4FRCMLIE8-1BOX |
| HDS2HLHFRCMLIE8D4N-5B | BKT3SSB3 | HDS2HLHFRCMLIE8D4N-5BOX |
| HDS2HLHFRCMLIE8-4B | BKT3SSB3 | HDS2HLHFRCMLIE8-4BOX |
| MFH120B8T600I8AST3A3 | N/A | MFH120B8T600I8ASTA3OX |
| MFH120RVB8T600I8AST3A3 | N/A | MFH120RVB8T600I8ASTA3OX |
| HLS2VFCMLIE8X8-1BRK | BKT1SSB1 | HLS2VFCMLIE8X8-1OX |

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Complementary Products

Enclosures (Catalogue 4190-ENC)

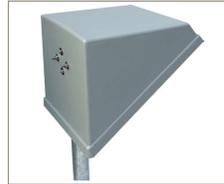
- Sized to suit single, double, triple or multiple instrument installations
- GRP Fire Retardant to BS476, part 7, class 2
- Weather protection to IP66 (EN60529, NEMA 4X)
- Supplied pre-fitted with Parker 'EXT' style manifolds



| Description | Width | Height | Depth | Part Number |
|---|--------|--------|--------|-------------|
| Compact Single Instrument Enclosure | 380 mm | 395 mm | 310 mm | PEX-S1 |
| Standard Single Instrument Enclosure | 400 mm | 450 mm | 400 mm | PEX-S2 |
| Enclosure to suit Double Pressure Application | 600 mm | 450 mm | 400 mm | PEX-D1 |
| Enclosure to suit Double DP Application | 700 mm | 450 mm | 400 mm | PEX-D2 |
| Enclosure to suit Triple Instrument Application | 900 mm | 450 mm | 400 mm | PEX-T1 |
| Enclosure for Multi-Instrument Assemblies | 500 mm | 600 mm | 500 mm | PEX-M1 |

Protective Shades (Catalogue 4190- ENC)

- Available in a wide range of sizes (single, double or triple width) to protect various instrumentation applications
- Shades can be drilled to suit clients' requirements, or 'bespoke' mounting can be designed and manufactured by Parker's specialist team
- GRP Fire Retardant to BS476, part 7, class 2



| Width | Height | Depth | Part Number |
|---------|--------|--------|-------------|
| 360 mm | 370 mm | 455 mm | PS-S1 |
| 500 mm | 400 mm | 450 mm | PS-S2 |
| 450 mm | 400 mm | 600 mm | PS-S3 |
| 530 mm | 430 mm | 640 mm | PS-S4 |
| 220 mm | 125 mm | 365 mm | PS-S5 |
| 345 mm | 160 mm | 405 mm | PS-S6 |
| 300 mm | 240 mm | 250 mm | PS-S7 |
| 405 mm | 165 mm | 315 mm | PS-S8 |
| 700 mm | 400 mm | 450 mm | PS-D1 |
| 600 mm | 400 mm | 600 mm | PS-D1 |
| 1000 mm | 400 mm | 450 mm | PS-T1 |
| 900 mm | 400 mm | 600 mm | PS-T2 |
| 1100 mm | 400 mm | 600 mm | PS-T3 |

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Tube Cutter

- Cuts stainless steel, soft copper and aluminium tubing
- For 1/8" to 1-1/8" and 4 to 28 mm O.D. tubing



| Type | Series | Part Number |
|-------------|--------|-------------|
| Cutter | PT | PT-C |
| Spare Wheel | PT | PT-CS |

Tube Bender

- For bending soft copper, aluminium, brass, stainless steel and other tubing
- For 1/8" to 1-1/8" and 4 to 28 mm O.D. tubing



| Tube O.D. | Bend Radius | Part Number |
|-----------|-------------|-------------|
| Imperial | | |
| 1/4" | 9/16" | PTB-4T |
| 3/8" | 15/16" | PTB-6T |
| 1/2" | 1 1/2" | PTB-8T |
| Metric | | |
| 6 mm | 14.3 mm | PTB-6M |
| 8 mm | 23.8 mm | PTB-8M |
| 10 mm | 23.8 mm | PTB-10M |
| 12 mm | 38.1 mm | PTB-12M |

Reaming and Deburring Tool

- For 3/16" to 1-1/2" O.D. tubing
- Reams both inside and outside edges of tube with 3 hollow ground cutters
- Deburrs both clockwise and anti-clockwise



| Type | Series | Part Number |
|-------------|--------|-------------|
| Deburrer | PT | PT-D |
| Spare Blade | PT | PT-DS |

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Complementary Products

Parker PT Inspection Gauges

- Parker PT Combination Gauge



| Size | Parker Part Number | Size | Part Number |
|------|--------------------|-------|-------------|
| 1/4" | PT-CG-4T | 6 mm | PT-CG-6M |
| 3/8" | PT-CG-6T | 8 mm | PT-CG-8M |
| 1/2" | PT-CG-8T | 10 mm | PT-CG-10M |
| 5/8" | PT-CG-10T | 12 mm | PT-CG-12M |
| 3/4" | PT-CG-12T | 16 mm | PT-CG-16M |
| 1" | PT-CG-16T | 20 mm | PT-CG-20M |
| | | 25 mm | PT-CG-25M |

- Parker PT Gap Gauge



| Size | Part Number |
|------|-------------|
| 1/4" | PT-GG-4 |
| 3/8" | PT-GG-6 |
| 1/2" | PT-GG-8 |
| 3/4" | PT-GG-12 |
| 1" | PT-GG-16 |

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Gaugeability Tools

- Parker PTM Tube Marker



| Size | Parker Part Number | Size | Part Number |
|------|--------------------|-------|-------------|
| 1/8" | PTM-2T | 6 mm | PTM-6M |
| 1/4" | PTM-4T | 8 mm | PTM-8M |
| 3/8" | PTM-6T | 10 mm | PTM-10M |
| 1/2" | PTM-8T | 12 mm | PTM-12M |
| 5/8" | PTM-10T | 16 mm | PTM-16M |
| 3/4" | PTM-12T | 20 mm | PTM-20M |
| 1" | PTM-16T | 25 mm | PTM-25M |

- Parker PPT Preassembly Tool



| Size | Parker Part Number | Size | Part Number |
|-------|--------------------|-------|-------------|
| 1/8" | PPT-2T | 3 mm | PPT-3M |
| 3/16" | PPT-3T | 4 mm | PPT-4M |
| 1/4" | PPT-4T | 6 mm | PPT-6M |
| 5/16" | PPT-5T | 8 mm | PPT-8M |
| 3/8" | PPT-6T | 10 mm | PPT-10M |
| 1/2" | PPT-8T | 12 mm | PPT-12M |
| 5/8" | PPT-10T | 14 mm | PPT-14M |
| 3/4" | PPT-12T | 16 mm | PPT-16M |
| 7/8" | PPT-14T | 18 mm | PPT-18M |
| 1" | PPT-16T | 20 mm | PPT-20M |
| | | 22 mm | PPT-22M |
| | | 25 mm | PPT-25M |

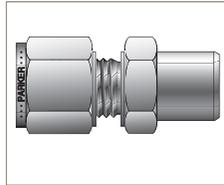
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Complementary Products

Tube Fittings

- Buttweld Connector
- For CPI™/A-LOK® to Pipe Buttweld Connection

| Tube O.D. | Buttweld Pipe N.B. | Part Number |
|-----------|--------------------|-----------------|
| 12 mm | 1/2" | ZHLW2-12-1/2-SS |
| 12 mm | 3/4" | ZHLW2-12-3/4-SS |



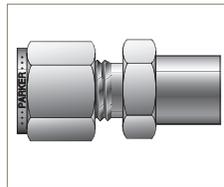
- Tube to Tube Union
- Straight Connector
- Stainless Steel

| Tube O.D. | Part Number |
|-----------|-------------|
| 12 mm | SCM12-316 |



- Socket Weld Connector
- For CPI™/A-LOK® to Tubing Socket Weld Connection

| Tube O.D. | Socket Weld N.B. | Part Number |
|-----------|------------------|------------------|
| 12 mm | 1/2" | ZHLW-12-1/2NB-SS |
| 12 mm | 3/4" | ZHLW-12-3/4NB-SS |



- Tube to Tube Union
- Elbow
- Stainless Steel

| Tube O.D. | Part Number |
|-----------|-------------|
| 12 mm | EEM12-316 |



- NPT Female Connector
- Tube to Female Pipe

| Tube O.D. | NPT Thread | Part Number |
|-----------|------------|----------------|
| 12 mm | 1/2" | M12FSC1/2N-316 |
| 12 mm | 3/4" | M12FSC3/4N-316 |



- Tube to Tube Union
- Union Tee

| Tube O.D. | Part Number |
|-----------|-------------|
| 12 mm | ETM12-316 |



- Male Connector to NPT
- NPT Thread
- Stainless Steel

| Tube O.D. | Straight Thread Size | Part Number |
|-----------|----------------------|----------------|
| 12 mm | 1/2" | M12MSC1/2N-316 |
| 12 mm | 1/4" | M12MSC1/4N-316 |



- Male Elbow Connector
- NPT Thread
- Stainless Steel

| Tube O.D. | Straight Thread Size | Part Number |
|-----------|----------------------|-----------------|
| 12 mm | 1/2" | M12MSEL1/2N-316 |
| 12 mm | 1/4" | M12MSEL1/4N-316 |



Complementary Products

Components

- Cap for metric tube
- For capping open ended tubing
- Stainless Steel

| Tube O.D. | Part Number |
|-----------|-------------|
| 12 mm | BLENM12-316 |



- Tube nut for metric tube
- Stainless Steel

| Tube O.D. | Part Number |
|-----------|-------------|
| 12 mm | NUM12-316 |



- Front ferrule for metric tube
- Stainless Steel

| Tube O.D. | Part Number |
|-----------|-------------|
| 12 mm | FFM12-316 |



- Back ferrule for metric tube
- For Stainless Steel
- Suparcase™

| Tube O.D. | Part Number |
|-----------|-------------|
| 12 mm | BFM12-316 |



- Anti-tamper key

| Description | Part Number |
|-----------------------|-------------|
| Spare Anti-tamper Key | ATHKEY/1 |



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Flange Connector-Flange to Parker Tube Fittings

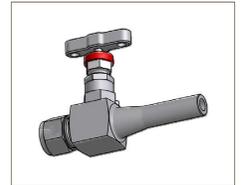
- Two Ferrule Compression Fitting (A-LOK®)
- Stainless Steel
- ANSI Flange Class 600



| Designation | Flange Face | Part Number |
|----------------------------|-----------------|---------------|
| 316 12 mm O.D. 1/2" 600RF | Raised Face | FCBM12A8F600 |
| 316 12 mm O.D. 3/4" 600RF | Raised Face | FCBM12A12F600 |
| 316 12 mm O.D. 1/2" 600RTJ | Ring Type Joint | FCBM12A8T600 |
| 316 12 mm O.D. 3/4" 600RTJ | Ring Type Joint | FCBM12A12T600 |
| 316 12 mm O.D. 2" 600RF | Raised Face | FCBM12A32F600 |

Needle Valve for Flushing Ring

- Inlet: 1/4" NB Male Pipe Socket Weld
- Outlet: O.D. A-LOK®
- Gland packing: Graphite



| Inlet | Outlet O.D. | Part Number |
|------------|-------------|------------------------|
| 1/4" NB SW | 10 mm | HNVSMW4NB60MMM10A3DRPT |
| 1/4" NB SW | 12 mm | HNVSMW4NB60MMM12A3DRPT |

HiPro Ball Valve

- PEEK seals
- Gland packing: Graphite



| Tube O.D. | Part Number |
|-----------|--------------|
| 12 mm | HPBYBM12APK3 |

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Complementary Products

Ball Valves B Series (Catalogue 4121-BV)

- 2-way, 3-way diverting or spring-leaded 3-way selector designs
- Wide temperature application range
- Rated up to 6000 psi (413.7 bar)



Metering Valves HR Series (Catalogue 4170-MV)

- Bubble tight shut-off capability
- High resolution metering valve with limited hysteresis
- Seven optional valve stem tapers



Check Valves C Series (Catalogue 4135-CV)

- Resilient, custom molded seat design
- Back stopped poppet to minimise spring stress
- Cracking Pressures: 1/3, 1, 5, 10, 25, 50, 75 and 100 psi (.023, .069, .345, .69, 1.72, 3.45, 5.17, 6.9 bar)
- Port connections include male and female NPT, CPI™, A-LOK®, UltraSeal™, VacuSeal™, BSP, SAE and Seal-Lok®



Filters FT Series (Catalogue 4135-CV)

- Filter elements are easily replaced without disconnecting the tube lines
- Fast Loop bypass option enables a continuous self cleaning flow
- Replaceable sintered 316 stainless steel filter element
- Optional 250 and 450 micron wire cloth filter elements



Pneumatic/Electric Actuators (Catalogue 4121-BV)

- 60 Series pneumatic actuators provide 90° and 180° rotation in both double acting and spring return models
- 70 and 80 Series electric actuators provide 90° and 180° actuation for our B, MB, HB, SWB series ball valves



Accessories

Multitube® Instrument and Heat Trace Tubing (Catalogue 4200-M-2)

- Available in a variety of configurations
- For containment, transmission and control of pneumatic signals, gases and liquids
- Materials include copper, stainless steel, metal alloys and PFA/PTFE



Sample Cylinders (Catalogue 4160-SC)

- 1800 psig (124 barg) DOT rated sample cylinders
- Stainless steel construction
- ANSI/ASME B1.20.1 internal pipe threads



Air Distribution Manifolds (Catalogue 4190-DM)

- Specified to Customer Requirements



Complementary Products

Analytical Systems

IntraFlow™ (Catalogue 4250)

- Modular instrument system
- ISA/ANSI 76.00.02 compliant
- Every component can be upgraded to Gen 2 & 3 NeSSI Technologies
- Vacuum to 500 psig (34 barg)
- Optional pressure up to 3000 psig (207 barg)



R-max™ Gen II (Catalogue 4141-R)

- Surface mount technology for stream switching valves
- Low internal volume to reduce system purge time
- Low pressure actuation of valves-40 psig (-2.76)
- Rated from vacuum to 500 psig (34 barg)



ChangeOver System (Catalogue 25000214)

- Compact turnkey module designed for continuous gas management
- Optional outlet regulator to control application specific outlet pressure
- Audio/visual alarm annunciator available
- Available in 316L stainless steel and brass
- Suitable for oxygen service



Vent Master™ (Catalogue 4142-VM)

- Pre-engineered compact instrument panel that includes regulators, gauges, rotometer, an eductor and a separate pressure controller
- Creates a stable pressure within the analyzer shelter vent header system
- Provide analysis accuracy with .06% over a vent header flow of 0-18SLPM



Regulators

Pressure Regulator IR4000 Series (Catalogue 25000226)

- Internally threadless design
- Convoluted Hastelloy C-22® diaphragm
- Available in 316L SST, Brass, Hastelloy C-22®, Monel®
- Seals available for nitrous oxide and hydrocarbon applications
- Low dead volume
- General purpose for instrument/analyzer and semiconductor applications



Pressure Regulator IR6000 Series (Catalogue 25000141)

- Dual stage regulator
- Internally threadless design
- Convoluted Hastelloy C-22® diaphragm
- Virtually eliminates supply pressure effect
- Provides cylinder gas pressure reduction in refineries, process analytical systems and specialty gases



Vaporising Regulator AVR3 (Catalogue 25000138)

- Steam heat design
- Internally threadless design
- Internal liquid volume only .5cc
- Convoluted Hastelloy C-22® diaphragm



Vaporising Regulator AVR4 (Catalogue 25000137)

- Electrical heat design
- Field serviceable heat transfer element
- CSA, Cenelec and ATEX certified
- Internally threadless design
- 120v or 240v, 50/60 Hz
- Convoluted Hastelloy C-22® diaphragm

