

Process Instrumentation Valve and Manifold Solutions

H Series Product Range



ENGINEERING YOUR SUCCESS.

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PROCESS INSTRUMENTATION VALVE AND MANIFOLD SOLUTIONS









Introduction

Welcome to the Parker Superior Advantage for your process to instrument hook ups.

Wholly designed and manufactured from decades of development, experience and knowledge from within our ISO 9000 compliant UK facility, the Parker H-series valve and manifold solutions range enjoys world leading recognition for quality, reliability and value.

Selection can be made from a comprehensive range of bonnet assemblies, body configurations and styles with a variety of connections and material options to suit all your applications, optimising your installation and improving operation.

In addition to producing these valves and manifolds with your choice of connections, all the products offered in this catalogue are available (as standard) with the superior advantage of integrated tubing connections. The specification of the world renowned and universally acceptable Parker compression type connections will improve system performance, increase safety, reduce size and weight and simplify installation which ultimately reduces overall user costs.



Parker EHS Vision Statement:

Parker recognizes, and believes, in the importance of safeguarding natural resources and the global environment. We are committed to our employees, our communities, and our customers: their health, safety and understanding of the need for environmental stewardship. We are committed to the concept of continuous improvement in environmental performance. Accordingly, we are

- committed to the following principles:
- We will seek to comply with environmental, health, and safety laws worldwide.
- We strive to minimize or eliminate the generation of waste.
- We will monitor compliance with environmental, health and safety regulations.

The top five target markets for Parker Instrumentation are shown below, but Parker manifold solutions are suitable for the widest range of process measurement and control applications in a diverse spectrum of industries.

Continuous product development may from time to time necessitate changes in the details contained in this catalogue. Parker 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.

Every effort is made to provide sufficient, clear and accurate information to allow the correct selection of product from this catalogue, but ultimately it is the system designer's or user's responsibility to ensure selected product is suitable for the intended application. Should you require further information please do not hesitate to contact your local Parker support.

With thousands of distributor outlets and stores worldwide, and hundreds of Parker personnel and locations, Parker also offers the superior advantage of supply and support in your locale.

, and safety laws worldwide. of waste. ealth and safety regulations.

General Technical Information

Design

All valves and manifolds are designed to meet the pressure and temperature ratings of ANSI B16.34 Class 2500/Class 4500 as applicable, limited only by selection of gland packing materials. Conformity to the recommendations of MSS SP-99 is also assured.

Relevant codes, standards and specifications

Code/Specification	Description
DIN EN61518 / IEC 61518	Mating dimensions between differential pressure (type) measuring instruments
ASME B31.1	Process Piping Specification for Pipeline Valves
ASME B16.34	Valves - Flanged, Threaded and Welding End
ASME B16.5	Pipe Flanges and Flanged Fittings
NACE MR0175 / ISO 15156	Petroleum and Natural Gas Industries - Materials for use in H2S - containing Environments in Oil and Gas Production
API 598	Valves Inspection and Testing
ISO 5208	Industrial Valves - Pressure Testing of Metallic Valves
API 607 / ISO 10497	Fire Test of Soft-Seated Quarter Turn Valves Fire type-testing requirements
MSS SP-25	Standard Marking Systems for Valves, Fittings, Flange and Unions
MSS SP-61	Pressure Testing of Valves
MSS SP-99	Instrument Valves
ISO 15848	Industrial valves- Measurement, test and qualification procedures for fugitive emissions
TA Luft	TA-Luft 2002, Absatz 5.2.6.4 und VDI 2440 (Ausgabe Nov. 2000), Absatz 3.3.1.3

Materials of construction

All materials are purchased from long standing reputable sources, conforming not only to recognised national/ international standards, but also to additional requirements imposed by Parker to assure suitability/usability across the widest spectrum of user applications.

A range of techniques and processes including PMI (Positive Material Identification) are used to validate all incoming material supplies, segregation, storage and maintenance of product quality.

Body material options

Material Group	Material Designator	UNS No.	Werkst- off No.	Euronorm Equivalent	ASTM Material Grade
Carbon Steel*	A105	UNS 1.0482	19Mn5	K03504	A105
Austenitic Stainless Steel	316/316L Dual	UNS S31600	1.4401	X5CrNiMo17-12-2	A479 Gr 316
	certified	UNS S31603	1.4404	X2CrNiMo17-12-2	A479 Gr 316L
Super Austenitic Stainless Steel	6Mo	UNS S31254	1.4547	X1CrNiMoCuN20-18-7	A479/A276
	Duplex 22Cr	UNS S31803	1.4462	X2CrNiMoN22 5 3	A479/A276
Austenitic-Ferritic Steel	Duplex 25Cr	UNS S32750	1.4410	X2CrNiMoN25-7-4	A479/A276
(Duplexes)		UNS S32760	1.4501	X2CrNiMoCuWN25-7-4	A479/A276
Copper-Nickel Alloy	Alloy M400	UNS N04400	2.436	NiCu30Fe	ASTM B164
Nickel Alloy	Alloy 825	UNS N08825	2.4858	NiCr21Mo	ASTM B425
Nickel Alloy	Alloy 625	UNS N06625	2.4856	NiCr22Mo9Nb	ASTM B446
Nickel Alloy	Alloy C276	UNS N10276	2.4819	NiMo16Cr15W	ASTM B574
Titanium	TitaniumGrade 2	UNS R50400	3.7075	Ti-II	ASTM B348

All materials will meet (as applicable) the requirements of NACE MR0103/MR0175 and ISO 15156. They are further supplied as per NORSOK M650/M630 as required.

* Carbon Steel may not be universally available, and if offered, may be restricted to body only. Other materials may be considered but any offer may also be restricted to body only. Please consult with your local Parker support.

General information - materials of construction

likewa	Material										
Item	St.St.	CRA-NiCu	Duplex	Super Duplex	CRA-NiMoCr	Titanium	6MO	Alloy 825	Alloy 625		
Body	316 St.St ASTM A479	Alloy M400	Duplex UNS 31803	Super Duplex UNS S32750/32760	Alloy C276	Titanium GR-2	6MO	Alloy 825	Alloy 625		
Тір	17-4PH St.St.	Alloy K500	Duplex UNS S.32750/32760	Alloy 625	Alloy B3	Titanium GR-5	DUPLEX UNS S.32750/32760	Alloy 625	Alloy 718		
Joint Seal	316 St.St. ASTM A479	Alloy M400	6MO	Alloy 625	Alloy C276	Alloy 825	6MO	Alloy 825	Alloy 625		
Packing			P.T.F.E. / Graphite	P.T.F.E. / Graphite	P.T.F.E. / Graphite	P.T.F.E. / Graphite	P.T.F.E. / Graphite	P.T.F.E. / Graphite	P.T.F.E. / Graphite		
Thrust Bush	316 St.St	316 St.St	316 St.St	316 St.St	316 St.St	316 St.St	316 St.St	316 St.St	316 St.St		
Stem	316 St.St. ASTM A479	Alloy M400	Duplex UNS 31803	Super Duplex UNS S32750/32760	Alloy C276	Titanium GR-2	6MO	Alloy 825	Alloy 625		
Gland Adjuster	316 St.St. ASTM A479	316 St.St. ASTM A479	316 St.St. ASTM A479	316 St.St. ASTM A479	316 St.St. ASTM A479	316 St.St. ASTM A479	316 St.St. ASTM A479	316 St.St. ASTM A479	316 St.St. ASTM A479		
Handle	316 St.St.	316 St.St.	316 St.St.	316 St.St.	316 St.St.	316 St.St.	316 St.St.	316 St.St.	316 St.St.		
Grub Screw	A4-80 St.St.	A4-80 St.St.	A4-80 St.St.	A4-80 St.St.	A4-80 St.St.	A4-80 St.St.	A4-80 St.St.	A4-80 St.St.	A4-80 St.St.		
Dust Cap		LDPE - Coloured	LDPE - Coloured	LDPE - Coloured	LDPE - Coloured	LDPE - Coloured	LDPE - Coloured	LDPE - Coloured	LDPE - Coloured		
Lock Nut	316 St.St.	316 St.St.	316 St.St.	316 St.St.	316 St.St.	316 St.St.	316 St.St.	316 St.St.	316 St.St.		
Bonnet	316 St.St. ASTM A479	Alloy M400	Duplex UNS 31803	Super Duplex UNS S32750/32760	Alloy C276	Titanium GR-2	6MO	Alloy 825	Alloy 625		

Max. Working Pressure	6,000 psig (414 barg)
High Pressure Range	10,000 psig (689 barg)
Temperature Range: • P.T.F.E. Packing • Graphite Packing	-54°C to 260°C (-65°F to 500°F) -54°C to 538°C (-65°F to 1000°F)

Standard and optional specification details

Standard Specification Details

Seat orifice diameter: 4mm

Flow co-efficient (Cv): 0.35

Metal to metal valve seat and stem tip

100% pressure test. All valves and manifolds are subjected to hydrostatic pressure at 1.1x maximum working pressure for the seat and 1.5x maximum working pressure for the s

All products supplied in a clean bur and grease free cond suitable for most liquid and gaseous applications

Bodies and bonnets are fully traceable to original materia source (certification with unique trace code applied to the bar stock material)

Certification according to BS EN 10204 3.1 for material a pressure test is available

All products are permanently marked. Manifolds include line diagram describing the flow paths

Complementary to the marking, bonnet assemblies are a functionally colour coded by the dust caps

Number of turns open to close: 3.5

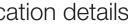
Gauge valves and manifolds do not include plugs as standard

Direct mount manifolds include applicable flange face se and high tensile, zinc plated carbon steel mounting bolts

All manifolds include mounting holes suitable for bracket enclosure mounting

Notes:

- CRA-NiCu selection down-rates to 5,000 psig (345 barg)
- Titanium selection down-rates to 3,950 psig (272 barg)
- Other materials and option selections can also affect performance ratings. If in doubt, please consult your local Parker support.



	Optional Specification Details
	Seat orifice diameter: up to 6mm in some configurations/styles. See page 14
	6mm - Flow co-efficient (Cv): 0.5
	Alternative soft tip and tip materials. See page 14
ed ire	Alternative pressure test regimes applied to oxygen cleaned and/or low emission products. See page 17
shell	Your other pressure test requirements can be considered
lition	Cleaned suitable for oxygen service. Not every product option is suitable for oxygen service
al Ə	Alternative levels of traceability and certification are available. Your other requirements can be considered
Ind	Certification according to BS EN 10204 3.2 can be available at additional cost, please contact your local Parker support
а	
all	
	6mm - Number of turns open to close: 3.3
	Various plugs are available to order. See page 61
eals S	Stainless steel mounting bolts are available. See page 48
ts or	A full range of mounting brackets and accessories are available. See pages 40, 48, 60 Mounting for selected hand valves and gauge valves is available

Connections

Introduction

Parker valve and manifold products are available with a wide array of connection types and sizes. These products are manufactured at the highest quality to applicable standards, utilising state of the art machinery and processes backed by decades of expertise.

The following pages detail the standard connections available. Other connection types can be considered. If you can't find the best connection for your application, please contact your local Parker support. Please note - not all connection types and sizes will be universally possible across the entire product range.

Integral tubing connections – A Parker Superior Advantage

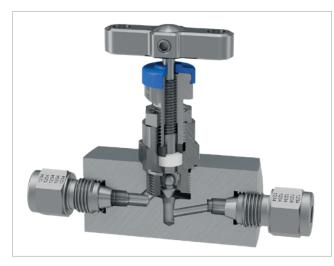
For the ultimate in safety, reliability, speed and ease of installation all valves and manifolds can be specified with solutions offering integral tube connection utilising Parker A-LOK® (Two Ferrule) or CPI[™] (Single Ferrule) compression fitting technologies.

For full details of the A-LOK[®] and CPI[™] technologies, please see Catalogue ref. 4190-FMTG.

As standard, hand valves and gauge valves are offered with the traditional external thread and nut or inverted (internal thread) design to inlet and outlet connections. Other ports (such as vent) are offered with Parker unique PTFree connect[™] solution (see p. 10).



HNV series hand valve with traditional type fully integrated tube fitting connection.



HNV series hand valve with the unique Parker fully integrated inverted tube fitting connection.



HNV series gauge vent hand valve with inverted tube fitting to inlet and outlet connections with Parker PTFree connect[™] tube fitting connection to the vent.

As standard, manifolds are offered with PTFree connect[™] style solutions to the inlet connections for direct mount types and also to the outlet connections for remote mount types. Other ports (such as vent) are also offered with Parker Instrumentation's unique PTFree connect™ solution. Some manifold types can be offered with the inverted design to inlet and outlet connections as applicable.



5-valve direct mount manifold for differential pressure applications having inlet and vent connections provided through the use of PTFree connect[™] tube fittings.

Why the Superior Advantage of an integrated tube connection?

Consider the following simple example with a typical hand valve.

the installation.



Example shown is the Parker Superior Advantage fully integrated tube fitting connection.



Integrated tube connections deliver:

- Average 25% saving on installed cost
- Average 55% saving on installation time



5-valve direct mount manifold having the Parker superior advantage input connections provided through inverted tube fitting connections. Vent can also be specified as threaded or PTFree connect[™].

Example shown is the widely utilised normal specification of a valve and individual tube fittings to achieve



Component	Cost
Needle valve	1x
Fittings (2)	1.1x
Sealant/Tape	0.01x
Labour	0.15x
TOTAL	2.26x

Component	Cost
Needle valve	1.6x
Fittings (2)	0x
Sealant/Tape	0x
Labour	0.05x
TOTAL	1.65x

- Zero rework
- Significantly improved safety and system integrity

Connections

Tube end dimensional data

	Inches			Inches I←−−CC				Milimeters						
Size No.	Tube O.D.	Straight Thread	tC	H Hex	E Dia.	†D Tube Ins. Depth	HEX	Size No.	Tube O.D.	Straight Thread	tC	H Hex	E Dia.	†D Tube Ins. Depth
1	1/16	10-32	.43	5/16	.052	.34	T E	2	2mm	5/16-20	15,3	12,0	1,7	12,9
2	1/8	5/16-20	.60	7/16	.093	.50		3	3mm	5/16-20	15,3	12,0	2,4	12,9
3	3/16	3/8-20	.64	1/2	.125	.54	CPIT	4	4mm	3/8-20	16,1	12,0	2,4	13,7
4	1/4	7/16-20	.70	9/16	.187	.60	STRAIGHT	6	6mm	7/16-20	17,7	14,0	4,8	15,3
5	5/16	1/2-20	.73	5/8	.250	.64	THREAD	8	8mm	1/2-20	18,6	15,0	6,4	16,2
6	3/8	9/16-20	.76	11/16	.281	.67		10	10mm	5/8-20	19,5	18,0	7,9	17,2
8	1/2	3/4-20	.87	7/8	.406	.90	H L A-LOK®	12	12mm	3/4-20	22,0	22,0	9,5	22,8
10	5/8	7/8-20	.87	1	.500	.96		14	14mm	7/8-20	22,0	24,0	11,1	24,4
12	3/4	1-20	.87	1-1/8	.625	.96		15	15mm	7/8-20	22,0	24,0	11,9	24,4
14	7/8	1-1/8-20	.87	1-1/4	.750	1.03		16	16mm	7/8-20	22,0	24,0	12,7	24,4
16	1	1-5/16-20	1.05	1-1/2	.875	1.24		18	18mm	1-20	22,0	27,0	15,1	24,4
20	1-1/4	1-5/8-20	1.52	1-7/8	1.09	1.61		20	20mm	1-1/8-20	22,0	30,0	15,9	26,0
24	1-1/2	1-15/16-20	1.77	2-1/4	1.34	1.96		22	22mm	1-1/8-20	22,0	30,0	18,3	26,0
32	2	2-5/8-20	2.47	2-3/4	1.81	2.65	 D►	25	25mm	1-5/16-20	26,5	35,0	21,8	31,3

Notes:

- Dimensions C and D are shown in the finger-tight position.
- † Average value
- Dimensions for reference only, subject to change.

PTFree connect[™]



Many users desire the elimination of taper threads and their associated sealant.

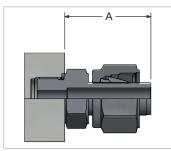
The PTFree connect[™] system enables users to assemble tube lines to any of the manifold ports without the need for PTFE tape or liquid sealant.

The PTFree connect[™] connection can be applied to any of the manifolds featured in this catalogue. These will be factory fitted, pin locked and pressure tested.

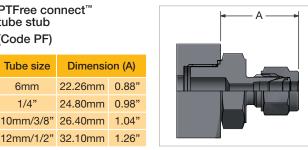
PTFree connect[™] enables angled tube connections to be swivelled to achieve optimum tube alignment. Assembly to the tube connector is achieved by tightening the standpipe nut one-quarter turn from the finger-tight position.

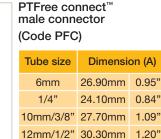
Manifolds can also be supplied with male connectors using the same thread form as the PTFree connect[™]. They are provided factory fitted, pin locked and tested.

Some size restrictions may be necessary due to the close proximity of some connections and the across flat hexagon dimensions. As a guide, PTFree connect™ for inlet and outlet can be up to 1/2" or 12mm o/d, drain/bleed connections should be restricted to 1/4" or 6mm. For PTFree connect™ male connectors inlet and outlet should be restricted to 3/8" or 10mm and 1/4" or 6mm o/d for drain/bleed.



PTFree connect[™] tube stub (Code PF) Tube size Dimension (A) 22.26mm 0.88" 6mm 1/4" 24.80mm 0.98" 10mm/3/8" 26.40mm 1.04"





Other connections

Tapered Pipe Threads - Male and Female



NPT Tapered Thread NPT Tapered Thread conforming to ASME B1.20.1 with enhanced manufacturing tolerance for optimal assembly and inspected by three step gauging with Parker enhanced tolerancing to ANPT requirement per ASTM SAE AS71051.

Parallel Pipe Threads - Male and Female



BSP Parallel Thread – Default standard (Code R) BSP Parallel Thread conforming to BS2779, ISO 228/1+2, DIN 3852. Not available on all product/ model types, please consult with vour local Parker support.

Weld Connections

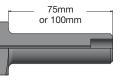
Socket Weld (Code SW/MSW) Female or male Socket Weld connection suitable for pipe conforming to ASME B16.11. EN12760.

- Notes:
- Valves with female socket weld connections will be of the same length as per the equivalent NPT pipe threaded variants.
- Valves with male socket weld connections will, as standard, have a stub length increase of 1/2" (13mm) when compared to the male pipe threaded equivalent variants.

A	Pipe size	Dimension (A)
	4 (1/4" NB)	29
	6 (3/8" NB)	29
	8 (1/2" NB)	32
ſ	12 (3/4" NB)	35

Optional lengths:

If requested, male socket welds or butt welds can be offered with stub length of 75mm or 100mm.



Flange Connections



Process Flange Flange connections can be considered if conforming to ANSI B16.5 and executed in various ways. Please consult your local Parker support.

Not available on all product types.



BSP Tapered Thread (Code K) BSP Tapered Thread conforming to BS21, ISO7/1 (R 1/2 - Male. Rc $\frac{1}{2}$ Female) with enhanced manufacturing tolerance for best optimal assembly and inspected using gauging system to BS21.





BSP Parallel Gauge connection type – Optional (Code RD) According to DIN 16284/16288/ DIN EN 837. Thread conforming to BS2779, ISO228/1+2, DIN 3852. Not available on all product/model types, please consult with your local Parker support.



Butt Weld (Code BW) Butt Weld connection suitable for pipe conforming to ASME B16.25, EN12627.

Valves with butt weld connections will, as standard, be of the same length as per the equivalent male NPT pipe threaded variants.

Other Notes:



· For valves with welded connections, special consideration must be given to the installation/welding process. Care must be taken to ensure that the central valve body and bonnet assembly sections are not harmed by the process itself and to further protect these elements from injurious heat transfer.

Connection ratings: Certain weld connections can impact published performance ratings of the manifold. Care should be taken in the selection of connections to ensure they meet application expectations for performance. For example: Butt weld or tube fitting connections with a thinner wall section, may result in a reduced pressure performance capability when compared to that of the published. Please consult relevant Parker publications or consult with your local Parker support.



Instrument Flange (Code HK) DIN/IEC 61518 compliant instrument (kidnev/oval) flange

connections.

Connections

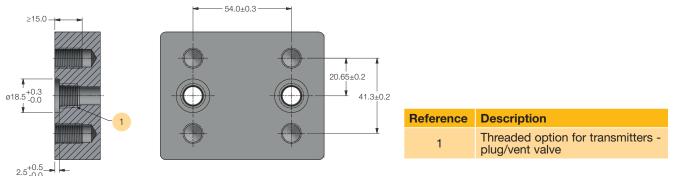
Transmitter flange connections - DIN/IEC 61518

As standard, Parker manifolds have inlet and outlet interface connections in full accordance with DIN/IEC 61518. For the Manifold to Transmitter interface, the type B connection is standard – type A is optionally available.

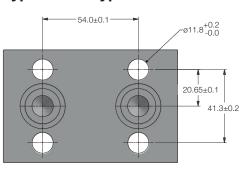
Within DIN/EN 61518 the manifold-transmitter interface is rated for maximum allowable working pressure of 413 bar (6,000 psi) and maximum allowable temperature of 120°C (248°F) for liquids,

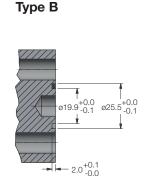
gas or vapours. The maximum allowable temperature of 120°C (248°F) considers the requirement that manifolds and transmitters need to be protected against undue heating by hot media. This requirement should be achieved by using adequate hook-ups or by instrument impulse lines with sufficient length. However, Parker confirms that H series manifolds can be used for temperatures up to 538°C (1,000°F) with graphite gland packing and up to 260°C (500°F) with PTFE gland packing.

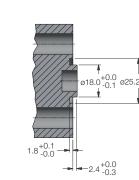
Process inlet to manifold / transmitter interface DIN EN 61518 / IEC 61518



Parker manifold outlet to transmitter interface DIN EN 61518 / IEC 61518 Type B and Type A Type B Type A







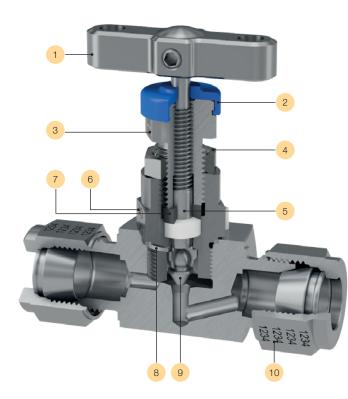
	Type B (S	Standard)	Type A (Optional)			
Max. Allowable Working Pressure	413 bar (6,000 PSI)	413 bar (6,000 PSI)			
Temperature range	PTFE: -10°C to +80°C (14°F to 176°F)	Graphite: -40°C to +120°C (-40°F to 248°F)	PTFE: -10°C to +80°C (14°F to 176°F)	Graphite: -15°C to +120°C (5°F to 248°F)		
Seal ring	Flat RingFlat Ring25.4 x 20 x 2.725.4 x 19.9 x 2.9Material: PTFEMaterial: Graphite		Flat RingFlat Ring24 x 17.7 x 2.725.1 x 18.0 x 2.9Material: PTFEMaterial: Graphite			
Min. Thread Engagement	9n	nm		9mm		

Connection at the manifold acc. to DIN/IEC 61518.

- Important Note there are some exceptions to the IEC 61518 standard:
- 1. Emerson Coplanar[™] transmitter design. Parker offers a full range of specifically suitable manifolds for this type. See pages 55-60.
- There is a limited range of other higher working pressure transmitters by some manufacturers, where the interface is
 proprietary by design (Example: Yokogawa EJX 440A/EJA 440E). Parker is able to provide manifold designs that are
 complementary to those products. Please consult your local Parker support.

Bonnet Assemblies

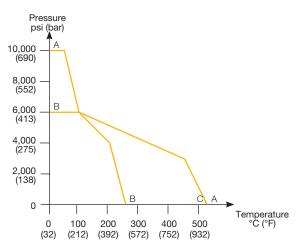
Standard bonnet design Class 2500 (6,000 PSI) and Class 4500 (10,000 PSI) For safe, reliable and repeatable performance



Notes:

- As standard, all metallic parts are 316 Stainless Steel. Optional materials are available, please see page 6.
- For products specified in optional materials, non-wetted parts will be 316 Stainless Steel as standard.
- 6,000 PSI bonnet thread is M16; 10,000 PSI bonnet thread is M18.

Pressure vs temperature



Reference	Description
1	Ergonomic 'T' bar style handle with positive retention
2	Dual purpose dust cap provides functional identification
3	Compensatory adjustable gland
4	Secure anti-vibration gland lock nut
5	Anti-blowout low torque back seating stem
6	All metal body bonnet seal
7	Gland thrust bush ensures uniform packing compression and tight sealing
8	Annealed sealing washer guarantees 100% sealing assurance
9	Self-centering, non-rotating stem tip guarantees bubble tight shut off
10	Material traceability for major pressure containing components



Reference	Description
A - A	Graphite packing
A - B	PTFE packing
B - B	6,000 PSI (414 bar) standard PTFE packing
B - C	6,000 PSI (414 bar) standard Graphite packing

Notes:

- Pressure and temperature ratings shown are maximum possible values. Continuous operation at the maximum ratings will reduce life expectancy.
- Pressure and temperature ratings can be derated by certain connection types or materials of construction.

Bonnet Assemblies

Larger bore bonnet design Class 2500 (6,000 PSI) and Class 4500 (10,000 PSI)



Features

- 6mm seat orifice size, allowing the provision of larger 5mm or 6mm flow passages
- Ideal for applications with dirtier/denser service media and/or those prone to blocking in small bore installations
- Can enhance other aspects of performance and measurement accuracy
- Will result in the use of larger body material sizes
- Not possible for all styles and types of product
 All other technical information remains
- unchanged from standard

Soft seat tip bonnet design

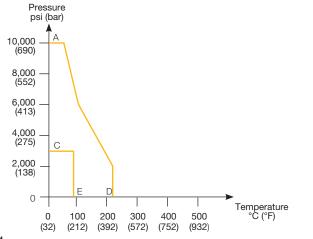


Reference	Description
A - D	PEEK tip
C - E	PCTFE tip - Temperature limit 150°C (302°F) at 3,000 psi (207 bar)

Features

- Available in the 4mm orifice size only, this PEEK seat tip option is available for all product styles and types
- Ideal for clean gaseous or other services where bubble-tight shut-off with minimum effort is required
- Suitable for temperatures up to 204°C and pressures up to 10,000 psi at reduced temperature, as per graph
- For larger bore requirements Parker recommends
 Rising Plug valve

Pressure vs temperature



Fire safe bonnet design - Class 2500 (6,000 PSI)



Power plant bonnet design Compliant to ANSI B31.1 – Class 2500 (6,000 PSI)



To order valves and manifolds with power plant bonnet design, follow the part builder structures as on pages 26-27, 32-33, 46-47 and replace **H** in the series names with **HPP**. Consult your local Parker support for available options.

Examples:

HPPNVS8FF3 - Hand valve HPPLS2V3 - 2-valve remote mount flat barstock manifold HPPLS5M3 - 5-valve remote mount flat barstock manifold HPPDS5M3 - 5-valve direct mount flat barstock manifold

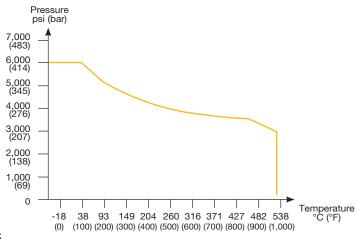
Features

- Specifically designed and developed to meet exacting industry requirements, products incorporating this Bonnet Design conform to BS 6755 Part 2, API 6FA / API607. For further details contact your local Parker support.
- 100% fire safe design certified, many typical actual third party test certificates are available for review
- Available for most product styles and types
- Some material selections are restricted

Features

- Available in a select range of body styles and types. Please consult your local Parker support
- Designed specifically to meet the requirements of ANSI B31.1 (Power Plants) and B31.3 (Petrochemical Plants) including materials of construction, these bonnet assemblies are Graphite packed for higher temperature service
- Suitable for temperatures up to 538°C and pressures up to 6,000 psi at reduced temperature, as per graph
- Unique patented Tru-Loc[®] safety bonnet lock further enhances security in application

Pressure vs temperature

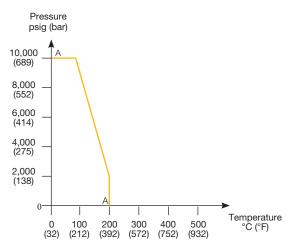


Bonnet Assemblies

Rising plug bonnet design



Pressure vs temperature



Features

- HRPV valve is unique to Parker and is patentprotected
- Non-rotating plug/tip
- Dynamic response moulded seat insert with ٠ guaranteed alignment
- Standard straight through orifice size 1/4" (6.4mm)
- Rolled spindle operating threads
- Straight through flow path
- Standard multi-port gauge style available as standard
- Other styles can be considered please consult the factory
- **Bi-directional flow**
- Backstop spindle for blowout prevention and minimal atmospheric leakage
- Low torgue operating T bar handle
- Externally adjustable gland
- Full range of head options available
- Dust cap to prevent ingress of contamination to operating thread
- Bonnet locking pin fitted as standard
- Suitable for temperatures up to 204°C and pressures up to 10,000 psi at reduced temperature, as per graph

Description Reference A - A **PEEK Seat**

Tru-Loc[®] safety bonnet lock



Available as standard on ANSI/ASME B31.1 manifold versions, the unique Parker Tru-Loc[®] security locking system is applied to the body to bonnet interface but can also be applied to many other screwed component interfaces. Extensive tests have proven that threaded connection interfaces secured with Tru-Loc[®] guarantee 100% security in preventing movement between connected components. In the H series manifolds it prevents loosening or removal of the bonnet assembly by any means.

Low emission bonnet design

TA-Luft compliant

As standard, products fitted with the Parker Instrumentation standard bonnet assembly are bubble tight (Ausgabe Nov. 2000), Absatz 3.3.1.3.

ISO 15848 compliant

From 2007 EU's IPPC directive 96/61/EC legislates Parker Instrumentation specifically developed an H for the minimisation of pollution from industrial series Bonnet Assembly design with class A approval sources (Many other regions and countries have to ISO 15848-1. Classed 'FE', products specified with similar legislation). An important part of this legislation these bonnet assemblies are certified as is reducing Ultra-Low emissions. According to the ISO FE AH-C01-SSA1-t(RT,180°C)-ANSI2500-ISO IPPS, all plants and factories which fail to comply **15848-1.** These products are further classified as with the standards set by the directive, may face meeting the ISO 15848-1 standard with the following closure. criteria:

The legislation introduced a concept of Best Available Technique (BAT), urging plants to find the best available solution for reducing Ultra-Low emissions throughout all processes. With respect to valves, ISO 15848 parts 1 and 2 were developed to aid companies to meet the legislation.

Part 1 covers the classification system and Steel. qualification procedure for type testing of valves. The standard specifies three tightness classes of leakage Part 2 of the standard covers production acceptance with respect to stem sealing diameter. These classes testing of valves. This production testing can only are class A, B and C; class A having the smallest be carried out to product which has already been environmental leakage. Each class level is one approved to part 1 of the standard. Parker can offer hundred fold lower than the class above i.e. a class production testing and certification to a sampling B product may have a leakage of 100 times that of a percentage specified by the purchaser. A third party class A product. The standard also specifies the duty witnesses can also be considered. that the valve has been tested to.

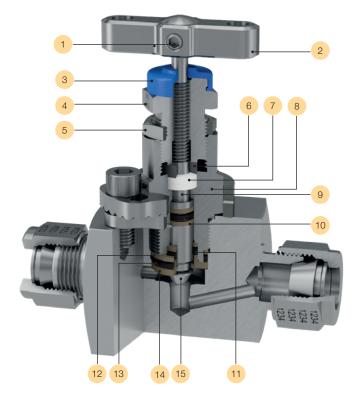


in service and have been proven to meet the requirements of TA-Luft 2002, Absatz 5.2.6.4 und VDI 2440

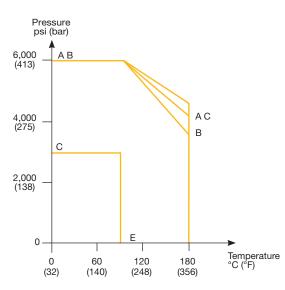
- Class A tested with Helium
- Endurance class C01 a mechanical valve which has been tested throughout 500 mechanical actuations with two thermal cycles
- Temperature class RT-180°C fully thermal cycled and tested from -29°C to +180°C pressure class ANSI 2500 - 6000 psi in 316 Stainless

Bonnet Assemblies

Low emission bonnet design



Pressure vs temperature



Reference Description

A - A	Graphite packing
A - B	PTFE packing
B - B	6,000 PSI (414 bar) standard PTFE packing
B - C	6,000 PSI (414 bar) standard Graphite packing
A - D	PEEK tip
C - E	PCTFE tip

Reference	Description
1	Positive handle retention
2	"T" bar
3	Dust cap
4	Gland packing adjuster
5	Gland adjuster lock nut
6	Thrust bush
7	Gland packing (adjustable)
8	Valve bonnet
9	Anti blow-out spindle
10	Anti extrusion ring
11	Elastomeric o-ring (stem seal)
12	Anti-extrusion ring
13	Elastomeric o-ring (body seal)
14	Bonnet end cap
15	Spindle tip

Features

- Tightness class A≥1 x 10⁻⁶ mg.s⁻¹.m⁻¹
- Maximum cold working pressure rating 6,000 psig (414 barg)
- Temperature rating -29°C to 180°C (-20°F to 356°F)
- ISO15848-1 prototype tested using global helium vacuum method
- Performance class ISO FE AH-C01-SSA1-t(RT,180°C)-ANSI2500-ISO 15848-1
- Production testing and certification available on request)
- O-ring material grade is Fluoroelastomer FKM Tetrapolymer, specially formulated for explosive decompression (ED) resistance. These seals are qualified to the stringent NORSOK M-170 standard covering both ED resistance and sour gas (H2S) ageing tests
- Available for most product styles and types
- Also meets the requirements per; TA-Luft according to VDI 2440 as tested by TUV SUD Industrie Service GMBH performing better than a leakage rate of VDI 2440 = 10 -4 mbar .I /s . m

Bonnet assembly options

Available as a factory fit or as retrofit, these useful bonnet assembly options are provided in all 316 Stainless Steel material. For locking options padlocks are not provided but the hole size in all cases is 6mm (0.24"). To obtain factory fit options, your specified product part number must be suffixed with the additional option part numbers as below. Some options can be combined.



T bar handle locking			
Retrofit Kit Part Number	Factory Fitte Suffix		
KITTHL	HL		



	Retrofit Kit Part Number	Facto Fitted Suffix
Vith (ey	KITAK	ATK
Vithout Cey	KITAT	AT

Anti-tamper spindle

Key

6	Key only Part Numb
Y	ATHKEY

Panel mounting

Retrofit Kit Part Number	Factory Fittee Suffix
KITPM	PM
Hole Diameter	26mm (1.02")
Panel Thickness	Max. 5mm (0.2 Min. 2.3mm (0
Min. distance for panel mount spacing	51mm (2.00")

18



Hand Valves & Gauge Valves

Introduction

Following years of valve design and development, the Parker needle pattern hand and gauge valves range is one of the most comprehensive to be found. The valves are available to users from a wide market spectrum and are suitable for all industries and applications.

In combination with Parker A-LOK[®] or CPITM compression tube fitting technologies, a superior advantage is gained allowing users to eliminate threaded connections and reduce leak paths whilst offering superior installation and operational performance.



With their small ports and needle/plug stem tip, Parker hand valves allow precise regulation of flow in low flow applications for a wide variety of media.

These hand valves are widely used in situations where the flow must be gradually brought to a halt and at other points where precise adjustments of flow are necessary or where a small flow rate is desired. They can be used as both on/off valves and for throttling service.



Example shown: Hand valve with Parker Superior Advantage integral CPI[™] tube fitting connections.

Reference	Description
1	Locked grub screw
2	"T" bar handle
3	Dust cap
4	Gland packing adjuster
5	Gland adjuster lock nut
6	Valve bonnet
7	Integral A-LOK [®] connection
8	Body



Example shown: Multi-port gauge valve with Parker Superior Advantage integral A-LOK[®] tube fitting connections.

They are used in every industry in a wide range of applications - anywhere where accurate and secure control or metering of steam, air, gas, oil, water or other non-viscous liquids is required.

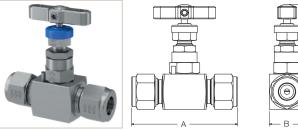
Utilising these same attributes, the Parker needle pattern gauge valves will be found controlling flow into a vast array of measurement and analysis instrumentation such as pressure gauges, transmitters, switches and more. With additional functionality these gauge valves also allow users to provide vent, drain or blowdown routes to their process and/or the ability to attach additional instruments and accessories.

We are confident you will find a valve style, type and connection option to suit your applications, but should you require something different please contact your local Parker support.

Hand Valves - HNV Series

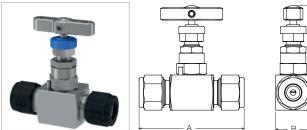
Straight pattern

HNV* - Integral A-LOK® connections - up to 6,000 PSI





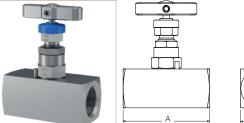
HNV* - Integral CPI™ connections - up to 6,000 PSI



Integral connections - up to 10,000 PSI

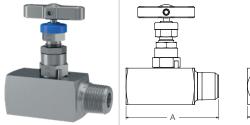
A limited range of integral connections for 10,000 PSI is available as tube selection can adversely affect overall product ratings. Please consult your local Parker support.

HNV* - Female threaded - NPT





HNV* - Male x Female threaded - NPT





Notes:

- Dimension "A" given for finger-tight nuts and ferrules. •
- Dimension "C" in open position.

	Inlet	Outlet	Dimension		
	A-LOK [®]	A-LOK®	A mm (inch)	B mm (inch)	C mm (inch)
C C	1/4"	1/4"	67.5 (2.66")	25.4 (1.00")	76.2 (3.00")
1	1/2"	1/2"	76.2 (3.00")	25.4 (1.00")	76.2 (3.00")
	6mm	6mm	67.5 (2.66")	25.4 (1.00")	76.2 (3.00")
	12mm	12mm	76.2 (3.00")	25.4 (1.00")	76.2 (3.00")

	Inlet	Outlet	Dimension		
	CPI™	CPI™	A mm (inch)	B mm (inch)	C mm (inch)
Ċ	1/4"	1/4"	67.5 (2.66")	25.4 (1.00")	76.2 (3.00")
	1/2"	1/2"	76.2 (3.00")	25.4 (1.00")	76.2 (3.00")
	6mm	6mm	67.5 (2.66")	25.4 (1.00")	76.2 (3.00")
	12mm	12mm	76.2 (3.00")	25.4 (1.00")	76.2 (3.00")

Pressure	Inlet	Outlet	Dimension			
(PSI)	Female	Female	A mm (inch)	B mm (inch)	C mm (inch)	
	1/4" NPT	1/4" NPT	54.0 (2.13")	28.6 (1.13")	79.4 (3.13")	
6,000	3/8" NPT	3/8" NPT	54.0 (2.13")	28.6 (1.13")	79.4 (3.13")	
	1/2" NPT	1/2" NPT	63.5 (2.50")	28.6 (1.13")	79.4 (3.13")	
10,000	1/4" NPT	1/4" NPT	60.5 (2.38")	31.8 (1.25")	82.6 (3.25")	
	1/2" NPT	1/2" NPT	69.9 (2.75")	31.8 (1.25")	82.6 (3.25")	

Pressure	Inlet	Outlet	Dimension			
(PSI)	Male	Female	A mm (inch)	B mm (inch)	C mm (inch)	
0.000	1/4" NPT	1/4" NPT	57.8 (2.27")	28.6 (1.13")	79.4 (3.13")	
6,000	1/2" NPT	1/2" NPT	73.0 (2.87")	28.6 (1.13")	79.4 (3.13")	
10.000	1/4" NPT	1/4" NPT	62.8 (2.47")	31.8 (1.25")	82.6 (3.25")	
10,000	1/2" NPT	1/2" NPT	76.2 (3.00")	31.8 (1.25")	82.6 (3.25")	

Hand Valves - HNAV Series

Angle pattern

HNAV* - Integral A-LOK® connections - up to 6,000 PSI



A	⊷ в →

Inlet	Outlet		Dimension	
A-LOK®	A-LOK®	A mm (inch)	C mm (inch)	
1/4"	1/4"	53.5 (2.10)	25.4 (1.00)	94.0 (3.70)
1/2"	1/2"	58.8 (2.32)	28.6 (1.13)	101.6 (4.00)
6mm	6mm	53.5 (2.10)	25.4 (1.00)	94.0 (3.70)
12mm	12mm	58.8 (2.32)	28.6 (1.13)	101.6 (4.00)

HNAV* - Integral CPI[™] connections - up to 6,000 PSI



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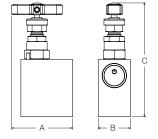
Inlet	Outlet	Dimension				
A-LOK®	A-LOK®	A mm (inch)	C mm (inch)			
1/4"	1/4"	53.5 (2.10)	25.4 (1.00)	94.0 (3.70)		
1/2"	1/2"	58.8 (2.32)	28.6 (1.13)	101.6 (4.00)		
6mm	6mm	53.5 (2.10)	25.4 (1.00)	94.0 (3.70)		
12mm	12mm	58.8 (2.32)	28.6 (1.13)	101.6 (4.00)		

Integral connections - up to 10,000 PSI

A limited range of integral connections for 10,000 PSI is available as tube selection can adversely affect overall product ratings. Please consult your local Parker support.

HNAV* - Female threaded - NPT

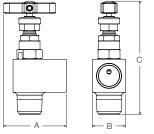




Inlet	Outlet		Dimension	
Female	Female	A mm (inch)	B mm (inch)	C mm (inch)
1/4" NPT	1/4" NPT	49.5 (1.95)	25.4 (1.00)	88.3 (3.47)
1/2" NPT	1/2" NPT	54.3 (2.14)	28.6 (1.13)	101.0 (3.98)

HNAV* - Male x Female threaded - NPT





Inlet	Outlet		Dimension			
Male	Female	A mm (inch)	B mm (inch)	C mm (inch)		
1/4" NPT	1/4" NPT	49.5 (1.95)	25.4 (1.00)	91.7 (3.61)		
1/2" NPT	1/2" NPT	54.3 (2.14)	28.6 (1.13)	98.3 (3.87)		

Notes:

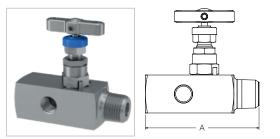
- Dimension "A" given for finger-tight nuts and ferrules.
- Dimension "C" in open position.

Gauge Valves - HNVV Series

Single block gauge vent valves

Generally used in conjunction with the measuring instrument, these valves allow for the function of venting/draining any process media that may be trapped, following isolation of the instrument for maintenance and/or removal purposes.

HNVV* - Male x Female threaded - NPT

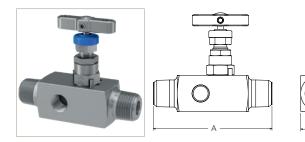


HNVV* - Female x Female threaded - NPT





HNVV* - Male x Male threaded - NPT



Notes:

- Dimension "A" given for finger-tight nuts and ferrules.
- Dimension "C" in open position.
- For bleed/vent valves and plugs see page 61.

Products shown here can be supplied with integral swivel gauge adaptor as shown on page 24.



Example shown: HNVV single block gauge vent valve with Parker Superior Advantage integral inverted A-LOK[®] tube connections to inlet and outlet and with Parker PTFree connect[™] to the vent.

(

	Pressure	Inlet	Outlet	Vent	Dimension		
(PSI)		Male	Female	Female	A mm (inch)	B mm (inch)	C mm (inch)
	6 000	1/4" NPT	1/4" NPT	1/4" NPT	72.5 (2.85)	28.6 (1.13)	79.4 (3.13)
	6,000	1/2" NPT	1/2" NPT	1/4" NPT	85.8 (3.38)	28.6 (1.13)	79.4 (3.13)
	1/4" NPT	1/4" NPT	1/4" NPT	71.2 (2.80)	31.8 (1.25)	82.6 (3.25)	
	10,000	1/2" NPT	1/2" NPT	1/4" NPT	85.6 (3.37)	31.8 (1.25)	82.6 (3.25)

		 C
))		

	Pressure	Inlet	Outlet	Vent	Dimension		
(PSI)		Female	Female	Female	A mm (inch)	B mm (inch)	C mm (inch)
		1/4" NPT	1/4" NPT	1/4" NPT	63.5 (2.50)	28.6 (1.13)	79.4 (3.13)
	6,000	1/2" NPT	1/2" NPT	1/4" NPT	76.3 (3.00)	28.6 (1.13)	79.4 (3.13)
		1/4" NPT	1/4" NPT	1/4" NPT	69.0 (2.71)	31.8 (1.25)	82.6 (3.25)
10,000	1/2" NPT	1/2" NPT	1/4" NPT	79.5 (3.13)	31.8 (1.25)	82.6 (3.25)	



Pressure	Inlet	Outlet	Vent	Dimension		
(PSI)	Male	Male	Female	A mm (inch)	B mm (inch)	C mm (inch)
6.000	1/4" NPT	1/4" NPT	1/4" NPT	76.2 (3.00)	28.6 (1.13)	79.4 (3.13)
6,000	1/2" NPT	1/2" NPT	1/4" NPT	94.8 (3.73)	28.6 (1.13)	79.4 (3.13)
	1/4" NPT	1/4" NPT	1/4" NPT	76.2 (3.00)	31.8 (1.25)	82.6 (3.25)
10,000	1/2" NPT	1/2" NPT	1/4" NPT	94.8 (3.73)	31.8 (1.25)	82.6 (3.25)

Gauge Valves - HGV Series

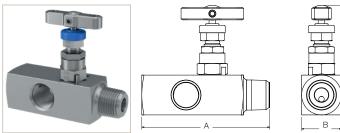
Multi-port gauge valves

Parker's multi-port gauge valves are purpose designed valves for operation up to 6,000 psig (414 barg) and 10,000 psig (689 barg). Featuring as standard PTFE gland packing and self-centering non-rotational tip for bubble-tight seat shut-off, these valves give the user the assurance of safety and performance.

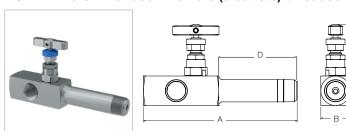


Example shown: Multi-port gauge valve with integral A-LOK® connections.

HGV* - Male x Female (3 outlets) threaded - NPT



HGVX* - Male Extended x Female (3 outlets) threaded - NPT

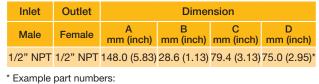




Inlet

Inlet

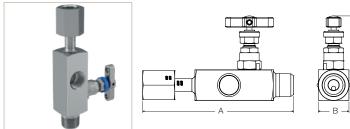
Male



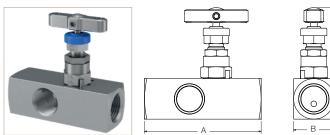
Fem. outlet = HGVXS8

Fem. outlet = HGVXS8D

HGVWG* - Male x Female (2 outlets) threaded - NPT with integral swivel gauge adaptor



HGV* - Female x Female (3 outlets) threaded - NPT



Notes:

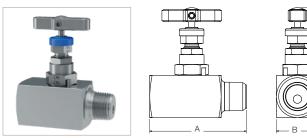
Dimension "A" given for finger-tight nuts and ferrules. •

• Dimension "C" in open position.

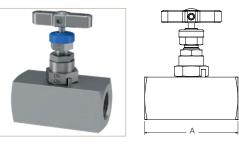
Rising Plug Valves - HRPV Series 💣

These unique, high quality, high performance, low-torque rising plug soft-seated valves have been specifically designed to perform with fluids containing high levels of contamination, such as those frequently found in oil and gas processing facilities. With a straight through flow pattern and 100% repeatable bubble-tight shut-off, the valves as standard with PEEK seat will perform up to 10.000 psig (689 barg) with low spindle operating torques.

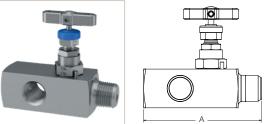
HRPV4* - Male x Female threaded - NPT



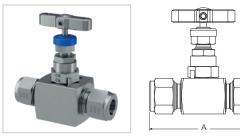
HRPV4* - Female x Female threaded - NPT



HRPVG4* - Male x Female (3 outlets) threaded - NPT



HRPV4* - Integral A-LOK® connections



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Notes:

- Dimension "A" given for finger-tight nuts and ferrules.
- Dimension "C" in open position.

Male Female mm (inch) mm (inch) mm (inch) 1/2" NPT 1/2" BSPP 140.8 (5.54) 28.6 (1.13) 79.4 (3.13) · Swivel adaptor to the outlet is provided through a socket weld, generally conforming to ANSI B16.11.

Δ

- Weld connection is a "commercial weld", completed by a qualified welder. Any specific qualification, certification, documentation or additional NDT, will require to be engineered and quoted extra please consult your local Parker support.
- Union nut dimensions generally conform to DIN 16284 as it applies to the union of nipple & nut themselves Union nut also conforms generally to DIN EN 837 for the gauge
- connection itself, as it applies to the union of nipple and nut themselves.

Inlet	Outlet	Dimension				
Female	Female	A mm (inch)	B mm (inch)	C mm (inch)		
1/2" NPT	1/2" NPT	82.5 (3.25)	28.6 (1.13)	79.4 (3.13)		

Outlet

1/2" NPT 92.0 (3.62) 28.6 (1.13) 79.4 (3.13) В С Male mm (inch mm (inch) mm (inch) 1/2" NPT 1/2" NPT 97.2 (3.82) 28.6 (1.13) 79.4 (3.13)

1/2" NPT Male *Optional outlet

u - n					
- 1	Inlet	Outlet		Dimer	nsio
	Male	Female	A mm (inch)	B mm (inch)	mm
	1/2" NPT	1/2" NPT	148.0 (5.83)	28.6 (1.13)	79.4
	* Example	nort numb	oro.		

 * Example part numbers:
 1/2" NPT Male inlet - default extension: 75mm (2.95"), 1/2" NPT • 1/2" NPT Male inlet - optional extension: 100mm (3.94"), 1/2" NPT

Dimension

В

С

Outlet Dimension Α В С Female mm (inch) mm (inch) mm (inch) 1/4" NPT 1/4" NPT 72.5 (2.85) 28.6 (1.13) 79.4 (3.13)



Example shown: Hand valve with integral A-LOK® connections.

Inlet	Outlet	Dimension					
Male	Female	A mm (inch)	B mm (inch)	C mm (inch)			
1/2" NPT	1/2" NPT	72.9 (2.87)	31.8 (1.25)	88.0 (3.46)			
3/4" NPT	1/2" NPT	72.9 (2.87)	31.8 (1.25)	88.0 (3.46)			

Inlet	Outlet	Dimension					
Female	Female	A mm (inch)	B mm (inch)	C mm (inch)			
1/4" NPT	1/4" NPT	60.5 (2.38)	31.8 (1.25)	88.0 (3.46)			
1/2" NPT	1/2" NPT	69.8 (2.75)	31.8 (1.25)	88.0 (3.46)			

Dimension

B

mm (inch)

С

mm (inch)

_ В	_

Inlet

Male

Outlet

Female



Inlet	Outlet		Dimension	
A-LOK	A-LOK	A mm (inch)	B mm (inch)	C mm (inch)
1/2"	1/2"	63.5 (2.50)	31.8 (1.25)	88.0 (3.46)
12mm	12mm	63.5 (2.50)	31.8 (1.25)	88.0 (3.46)

mm (inch)

1/2" NPT 1/2" NPT 96.5 (3.80) 31.8 (1.25) 88.0 (3.46)

Products shown here can be supplied with integral swivel gauge adaptor as shown on page 24.

Hand Valves and Gauge Valves

Ordering information

	ample 1: HNVS8M8FHPI			HNV	S	8M8F	HPLHW			ttern needle valve, 316 Stainless Steel, PTFE packing, 10,000	
Exa	ample 2: HGV6MO12M8	F3PBVBMNC		HGV	6MO	12M8F	3PBVBMNC	>	Female out	d Gauge valve, 6MO Super Austenitic Stainless Steel, confor lets, with blank plug, bleed valve and base mounting holes.	rming to INA
Exa	ample 3: HNVVWGS8A8	RPBMNC		HNVVWG	S	8A8R	PBMNC	>	NPT fitted v	ed Gauge valve with integral swivel gauge outlet connection, with blank plug and the valve has base mounting holes. Mate	, inlet ports erial of cons
Exa	mple 4: HGV6MOIVAM	12PFCAM6RTAT	κ	HGV	6MO	IVAM12PFCAM6	RTATK ····	·····>	Multi-porte male conne	d Gauge valve, 6MO Super Austenitic Stainless Steel with 12 ectors to the side ports. Other options are regulating tip with <i>i</i>	2mm Inverte Anti-Tampe
				1	1	Ť	Ť				
Series									OPTION	S	
HNV	Hand valve straight pattern	1								ssure - 10,000 PSI (689 bar) option	
HNAV HNVV	Hand valve angle pattern Gauge valve single ported								HP	High Pressure ¹¹	¹¹ Not r
HNVVW	· · ·	with Integral Swivel G	auge connection ¹						Gland Pa 3	cking Options	¹² Not a
HGV	Gauge valve multi-ported		aage eenneenen						s FS	Graphite ¹² Firesafe design ¹³	¹³ Not a
HGVX	Gauge valve multi-ported e	extended								Options - Needle Valves only	
HGVWG		with Integral Swivel Ga	auge connection ¹						6S	6mm bore seat	
HRPV4	Rising plug valve								RT ST	Regulating/Metering Tip Stellite Tip	
as 1/2" BS	velded swivel gauge adaptor for SPP (8R). 1/4" BSPP (4R) by spec	HNVV & HGV model typ cial request.	es only as standard						9	PCTFE Soft Tip ¹⁴	¹⁴ 3,000
Available in material op	n 316SS as standard. Consult yo	ur local Parker represen	tation for other						PK	PEEK Soft Tip	
Material									-	ed Valve Options ¹⁵	¹⁵ Plugs single
	s 316/316L Stainless Steel	HC Alloy C276							P BV	Blank Plug Bleed Valve/Plug	oingio
	6MO Sup. Aust. St.Steel	T Titanium Gr.	2						PBV	Blank Plug and Bleed Valve/Plug	
M	Alloy M400	825 Alloy 825							Operator		
	Duplex 22 Cr. Steel	625 Alloy 625							HW	Handwheel	
	Super Duplex 25 Cr. Steel	C Carbon Stee	²						LHW THL	Handwheel Locking T Bar Locking	
² For Carbo	on Steel consult your local Parke	r representation.		_					AT	Anti-Tamper ¹⁶	¹⁶ Anti-
	ions - Standard								ATK	Anti-Tamper with Key ¹⁷	¹⁷ Anti-
	All		Outlet 1/4" A-LOK ³	³ For CPI [™] change		norted any no volves UOV//UO			ATHKEY		¹⁸ Anti-
	/4" NPT Fem. 1/4" NPT Fem. ////////////////////////////////////		3/8" A-LOK ³	 For single porter 	ed gauge va	ported gauge valves HGV/HG lves, port is standard as 1/4"			Mounting PM	Panel Mount	
	2" NPT Fem. 1/2" NPT Fem.		1/2" A-LOK ³	 options, see tal For multi-ported 		ves, ports (2x) are standard as	s 1/2" NPT Fem. For		BM	Base Mount	
12FF 3/	/4" NPT Fem. 3/4" NPT Fem.	M6A 6mm A-LOK ³	6mm A-LOK ³	other options, s		,			ВК	Assembled with Carbon Steel bracketry & bolts ¹⁹	¹⁹ Availa for furt
	" NPT Fem. 1" NPT Fem.								BKS Other Op	Assembled with Stainless Steel bracketry & bolts ¹⁹	IOFILIT
	4" NPT Male 1/4" NPT Fem.			4					Other Op OX	Cleaned & lubricated for Oxygen use	
	/8" NPT Male 3/8" NPT Fem. /2" NPT Male 1/2" NPT Fem.		1/2" NPT Fem x 34 1/2" NPT Fem x 34						NC	NACE MR-01-75 Compliant	
	4" NPT Male 1/2" NPT Fem.								M*	Assembly and Test of Free Issue Instrument	* Speci
	onnection Options										
	Female connection. Utilised w			* Insert connectior	n size - Fem	. thread is default.					
	BSPT BS21, ISO7/1 - British S BSPP BS2779 - British Standa										
*RD I	DIN 16284/16288/EN837 BSP	P gauge connection ty									
	ASME B16.11, EN12760 Fema					nale Socket Weld connections IPT pipe threaded variants.	s will be of the same				
	SO Metric M20x1.5 Parallel P Gauge connection (WG type)	ipe thread - outlet opti	ion with Swivel	longar do por trio c	quivalent						
	d and Male Socket Weld - P									ANT NOTES:	
	Type Siz	(Thickness)	Extension	⁶ As standard, valve per the equivalent also offered - see	male NPT p	t weld pipe connections will b pipe threaded variants. Extend	e of the same length as led body dimensions are	•	-	optimum results in integral tube connections	s on har
	Butt Weid* 6 3/8 Aale Socket Weld7 8 1/2	"NB * Sch.80 "NB A Sch.160 "NB B Sch.XXS	* Default C 75mm D 100mm	⁷ As standard, value added to overall le	es with Malength (per co	le socket weld connections wi onnection) when compared to ions are also offered - see tab	equivalent threaded			ng is highly recommended. For inverted styl datory.	'le integr
Inverted	Connection and PTFree cor				male socke	t weld connection with Sch.X		•		all options/combinations are available in eac	•
Туре	Fitting		tlet Drain/Vent	* No designator re		n standard/default is selected/	applied.	•		eserve the right to review/revise this part nu	
IV In	verted Connection be OD ⁸	6 6mm M Metric 10 10mr		 10mm CPI inve 	rted inlet/ou	t/outlet & 1/4" NPT Fem. vent/ utlet & 1/4" NPT Fem. vent/dra	ain = IVZM104F	•	Shou	mmend the most suitable alternative part nu Ild your part number selection exceed 25 ch	haracter
PF PT	TFree connect A A-LOK	12 12mr		side ports, when a		commended for multi-port and ection is required.	single port gauge valve			se consult your local Parker representation f any doubt, please consult your local Parker	
PFC PT	Tree connect ale union ⁹	I Imperial 4 1/4" 6 3/8" 8 8 1/2" 1/2"		 3/8" CPI male ur 1/4" NPT Fem. is 	nion con. inl default star	n. inlet/outlet & 1/4" NPT Fem. et/outlet & 1/4"NPT Fem. ven ndard for bleed/vent/drain, som	t/drain = PFCZI64F	•	11 11 1	any doubt, please consult your local Parker	represe
			2	available with other	CONNECTION	5					

/2" NPT Male inlet, 1/2" NPT Female outlet with locking handwheel operation. NACE MR-01-75 latest revision, Graphite packing, 3/4" NPT Male inlet, 3 x 1/2" NPT

orts are 1/2" A-LOK tube, whilst outlet swivel connection is 1/2" BSPP. The side port in 1/4" construction is 316 stainless steel conforming to NACE and gland packing is PTFE. rerted A-LOK tube connections to inlet and outlet, having 6mm A-LOK PTFree connect mper operation and one key.

t necessary for HRPV models.

ot available for HRPV models. Not required when Firesafe design option (**FS**) selected. It available for PCTFE Soft tip (**9**), HRPV models or Oxygen cleaned product (**OX**).

000 PSI/207 BAR only. See catalogue page 14.

ugs supplied loose in a packing box. Typically required with multi-port gauge valves and le vent hand valves. See page 61.

ti-Tamper operation and no key.

nti-Tamper operation and one key supplied per manifold.

nti-Tamper key. Specify quantity required as separate line item.

ailable on ${\rm HNVV}$ and ${\rm HGV}$ / ${\rm HGVWG}$ series only. Contact your local Parker representative urther support.

ecify assembly and test option - see page 71. Gauge valves only.

and valves and gauge valves, the use of Parker pre-assembly egral tube connections the use of Parker pre-assembly tooling is

gle product model type.

structure at any time. If necessary, we can refuse and/or r(s). We may also apply MOQ rules.

ters in length when completed, then it is likely to be incorrect, sistance.

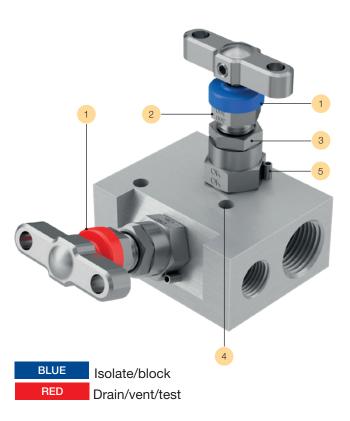
sentation.

2-Valve Manifolds - H Series

Introduction

Combining two needle valves into one unitised block, the Parker 2-valve manifolds range is also referred to as Block and Bleed, Isolate and Calibrate or even Isolate and Vent/Drain. These manifolds are used primarily in applications requiring a pressure switch, pressure transmitter or gauge for Static Pressure Measurement. Other forms of sensing technology can be applied, and, in some circumstances, they can also be employed in the measurement of temperature or other process attribute.

In combination with Parker A-LOK[®] or CPI[™] compression tube fitting technologies, a superior advantage is gained allowing users to eliminate threaded connections and reduce leak paths, whilst offering superior installation and operational performance.



These 2-valve manifolds are widely used in situations where a static pressure measurement device requires maintenance, offering safe isolation to allow venting/ draining and calibration of the device. They also provide the means for removal and re-installation of an instrument in a live process situation. They are used in every industry in a wide range of applications - everywhere where accurate and secure pressure measurement of steam, air, gas, oil, water or other non-viscous liquids is required.

These manifolds are available in a remote (or line) mount and in a direct mount style for bolting to the face of static pressure transmitters with an array of input connection styles and types. The unique Parker superior advantage in this regard is being the ability to create a threadless leak-free hook up. Where additional operational security is required, a second isolate valve can be specified, thereby providing an enhanced Double Block and Bleed (DBB) solution.

eference	Description
1	Functional colour coded dust cap
2	Adjustable gland
3	Gland locknut
4	Bracket mounting holes
5	Bonnet locking pin



Example shown: 2-valve remote/line mount gauge valve, block and bleed (isolate and vent/drain) with Parker Superior Advantage fully integrated inverted A-LOK® tube fitting connections to inlet/outlet and Parker unique PTFree connect[™] tube fitting connection to vent/drain.

We are confident you will find a manifold style, type and connection option to suit your applications, but should you require something different or need assistance to make your selection, please contact vour local Parker support.



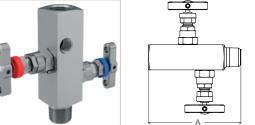
Example shown is application is use. HAL*WG 2-valve remote/line mount gauge valve manifold assembled to a Gauge Pressure Transmitter through the integral Swivel Adaptor described on page 31. A Parker Superior Advantage for flexibility of application in use.

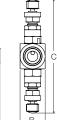
2-Valve Manifolds - HNL Series

Remote/line mount - long pattern

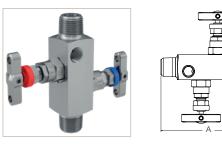
Combining two needle valves into one unitised block, these slimline long pattern Parker 2-valve manifolds are also referred to as Block and Bleed, Isolate and Calibrate or Isolate and Vent/Drain. These manifolds are ideal for standalone line mounting.

HNL*2V - Male x Female threaded - NPT

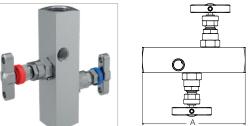


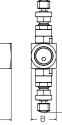


HNL*2V - Male x Male threaded - NPT

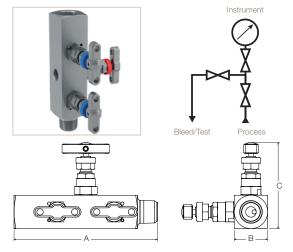


HNL*2V - Female x Female threaded - NPT

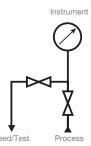




HNL*3DBB - Optional Double Block & Bleed threaded - NPT







Example shown: 2-valve integral block and bleed manifold with integral A-LOK® connections.

Pressure	Inlet Outlet		Vent		Dimension				
(PSI)		NPT	NPT	A mm (inch)	B mm (inch)	C mm (inch)			
6,000						130.2 (5.13)			
10,000	1/2" M	1/2" F	1/4" F	136.7 (5.38)	31.8 (1.25)	133.4 (5.25)			

Pressure	Inlet Outlet		Vent	Dimension				
(PSI)	NPT NPT		NPT	A mm (inch)	B mm (inch)	C mm (inch)		
6,000	1/2" M	1/2" M	1/4" F	108.5 (4.27)	28.6 (1.13)	130.2 (5.13)		
10,000	1/2" M	1/2" M	1/4" F	136.7 (5.38)	31.8 (1.25)	133.4 (5.25)		

Pressure	Inlet	Outlet	Vent			
(PSI)	NPT	NPT	NPT	A mm (inch)	B mm (inch)	C mm (inch)
6,000	1/2" F	1/2" F	1/4" F	117.6 (4.63)	28.6 (1.13)	130.2 (5.13)
10,000	1/2" F	1/2" F	1/4" F	117.6 (4.63)	31.8 (1.25)	133.4 (5.25)

Pressure	Inlet	Outlet	Vent		Dimension				
(PSI)	NPT	NPT	NPT	A mm (inch)	B mm (inch)	C mm (inch)			
6,000	1/2" M	1/2" F	1/4" F	136.5 (5.37)	31.8 (1.25	82.6 (3.25)			
10,000	1/2" M	1/2" F	1/4" F	136.5 (5.37)	31.8 (1.25	82.6 (3.25)			
6,000	1/2" M	1/2" M	1/4" F	136.5 (5.37)	31.8 (1.25	82.6 (3.25)			
10,000	1/2" M	1/2" M	1/4" F	136.5 (5.37)	31.8 (1.25	82.6 (3.25)			
6,000	1/2" F	1/2" M	1/4" F	136.5 (5.37)	31.8 (1.25	82.6 (3.25)			
10,000	1/2" F	1/2" M	1/4" F	136.5 (5.37)	31.8 (1.25	82.6 (3.25)			

Products shown here can be supplied with integral swivel gauge adaptor as shown on page 31.

2-Valve Manifolds - H Series

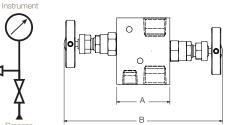
Remote/line mount - short pattern

Combining two needle valves into one unitised flat block, this Parker 2-valve manifolds range is also referred to as a Block and Bleed, Isolate and Calibrate or even Isolate and Vent/Drain. These manifolds are ideal for robust mounting to bracket work or other structure.

HL*2V - Female x Female threaded - NPT



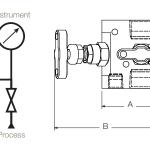
Example shown: 2-valve manifold with integral A-LOK[®] connections.

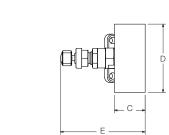


Pressure	Inlet	Outlet	Bleed/Test	Dimension					
(PSI)	NPT	NPT	NPT	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)		
6,000	1/2" F	1/2" F	1/4" F	50.8 (2.00)	152.4 (6.00)	28.6 (1.13)	63.5 (2.50)		
10,000	1/2" F	1/2" F	1/4" F	50.8 (2.00)	152.4 (6.00)	31.8 (1.25)	69.8 (2.75)		

HAL*2V - Female x Female threaded - NPT



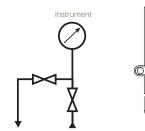


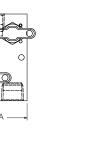


Pressure	Inlet	Outlet	Bleed/Test	Dimension					
(PSI)	NPT	NPT	NPT	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	
6,000	1/2" F	1/2" F	1/4" F	50.8 (2.00)	100.5 (3.96)	28.6 (1.13)	63.5 (2.50)	79.4 (3.13)	
10,000	1/2" F	1/2" F	1/4" F	63.5 (2.50)	114.3 (4.50)	31.8 (1.25)	69.8 (2.75)	82.6 (3.25)	

HLTF*2V - Female x Female threaded - NPT



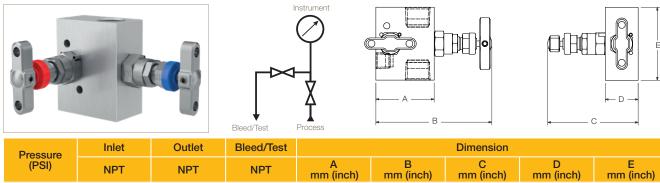




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Pressure (PSI)	Inlet	Outlet	Bleed/Test	Dimension						
	NPT	NPT	NPT	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)			
6,000	1/2" F	1/2" F	1/4" F	50.8 (2.00)	79.4 (3.13)	28.6 (1.13)	85.0 (3.35)			
10,000	1/2" F	1/2" F	1/4" F	55.7 (2.19)	82.6 (3.25)	31.8 (1.25)	88.9 (3.50)			

HLLHV*2V - Female x Female threaded - NPT

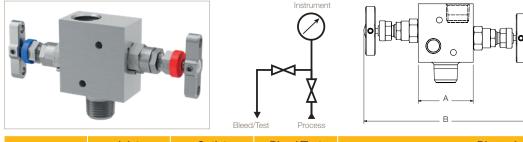


HL*2V8M8F4F - Male x Female threaded - NPT

1/2" F

1/2" F

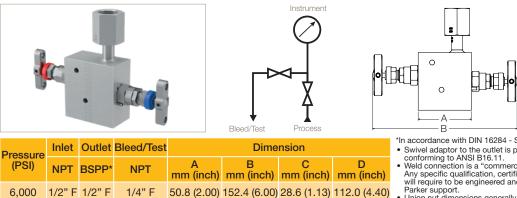
6,000



1/4" F

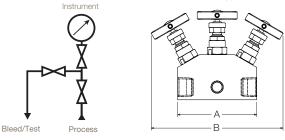
Pressure	Inlet	Outlet	Bleed/Test		Dimension					
(PSI)	NPT	NPT	NPT	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)			
6,000	1/2" M	1/2" F	1/4" F	50.8 (2.00)	152.4 (6.00)	28.6 (1.13)	73.0 (2.88)			
10,000	1/2" M	1/2" F	1/4" F	50.8 (2.00	152.4 (6.00)	31.8 (1.25)	76.2 (3.00)			

HLWG*2V - Female threaded - NPT with integral swivel gauge adaptor



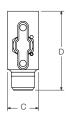
HL*3DBB - Female threaded - NPT

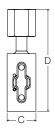




Pressure	Inlet	Outlet	Bleed/Test	Dimension						
(PSI)	NPT	NPT	NPT	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)		
6,000	1/2" F	1/2" F	1/4" F	88.9 (3.50)	148.3 (5.84)	28.6 (1.13)	50.8 (2.00)	101.6 (4.00)		
10,000	1/2" F	1/2" F	1/4" F	88.9 (3.50)	148.6 (5.85)	31.8 (1.25)	57.2 (2.75)	107.7 (4.25)		

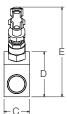
		Dimension		
A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)
50.8 (2.00)	101.6 (4.00)	79.4 (3.13)	28.6 (1.13)	63.5 (2.50)





*In accordance with DIN 16284 - Swivel BSPP 1/2" Female

- In accordance with DIN 16284 Swivel BSPP 1/2" Female
 Swivel adaptor to the outlet is provided through a socket weld, generally conforming to ANSI B16.11.
 Weld connection is a "commercial weld", completed by a qualified welder. Any specific qualification, certification, documentation or additional NDT, will require to be engineered and quoted extra please consult your local Parker support.
 Union nut dimensions generally conform to DIN 16284 as it applies to the union of nipple and nut themselves.
 Union nut also conforms generally to DIN EN 837 for the gauge connection itself, as it applies to the union of nipple and nut themselves.



2-Valve Manifolds - Remote/Line Mount

Ordering information

tube stub¹²

male union¹²

PFC PTFree connect

 I Imperial
 4
 1/4"

 6
 3/8"

 8
 1/2"

Z CPI

4F 1/4" NPT¹³

	Crucing into	Simulon										
	Example 1 (Default): HL	.S2V		HL	S	2V			·····>	2-valve blo connection	nck & bleed/islolate & calibrate/vent/drain, short pattern flat l n to both inlet & outlet and a 1/4" NPT fem. bleed/vent/drair	barstock ma
	Example 2: HLS2V4RM	I8RF4F3P		HL	S	2V	4RM8RF4F	3P		2-valve blo	n to inlet & 1/2" BSPP Fem. outlet with 1/4" NPT Fem. vent/	arstock man
	Example 3: HNLWGS3I		(NC	HNLWG	S	3DBB	8M8R4F	POXNC		3-valve blo	ck-bleed-block/double isolate & bleed/vent/drain, long patt connection via integral welded swivel and 1/4" NPT fem. ve	ern barstock
	Example 4: HALS2VIVA			HAL	S	2V	IVM126	ATK	·····	2-valve and	gle head block & bleed/isolate & calibrate/vent/drain, short r	oattern flat b
											et and outlet. The bleed/vent/drain is also an inverted A-LOF bock & bleed, long pattern manifold, manufactured from 6MC	
	Example 5: HNL6MO2	/M12AIHLNC		HNL	6MO	2V	M12A	THLNC	·····>	outlet and	1/4" NPT fem. vent/drain/bleed. Manifold is also fitted with	locking T baı
	Example 6: HLS3DBBI	VZI84FPOX		HL	S	3DBB	IVZI84F	POX ·	·····>	Inverted inf	ock-bleed-block/double isolate & calibrate vent/drain, flat ba tegral CPI tube connections and a 1/4" NPT fem. vent/drain	v/bleed. Glar
	Example 7: HL6MO3DE	BBIVAM12PFCA	M6NC	HL	6MO	3DBB	IVAM12PFCAM6	NC	·····>	3-valve blo Advantage	bck-bleed-block/double isolate & calibrate vent/drain, flat ba 2 12mm inverted integral A-LOK tube connections to inlet ar the manifold complies to NACE.	rstock manif nd outlet with
	And a second			A			A	A		PTFE and	the manifold complies to NACE.	_
	Series INL Straight barstock gau	ae valves long patte	rn							OPTIO		
	Straight barstock gau		rn with Integral Swivel							-	essure - 10,000 PSI (689 bar) option	
	Gauge connection	alvos short pattorn		¹ Available as standard with						HP Gland P	High Pressure Packing Options	
			vith Integral Swivel Gauge	1/2" BSPP (8 1/4" BSPP (4						3	Graphite ¹⁴	¹⁴ Not re
	connection.	no valvos, short patto	rn	special reque	st.					FS	Firesafe design ¹⁵	¹⁵ Not a
	Angled barstock gaug		rn with Integral Swivel	Available only 316SS. Cons						-	Options - Needle Valves only	16.0
	Gauge connection.		tan fasa	your local Pa support for o						6S RT	6mm bore seat ¹⁶ Regulating/Metering Tip	¹⁶ 6mm Parker s
	ILTF Flat barstock gauge v		vith valves at 90 degree	potential mat						ST	Stellite Tip	
-	and left hand orientat			options.						9	PCTFE Soft Tip ¹⁷	17 3,000
	Materials		0070							PK	PEEK Soft Tip	
S	MO 6MO Sup. Aust. St.Stee		C276 um Gr. 2 ²	² This materia	selection					Plug/Ble	eed Valve Options ¹⁸ Blank Plug	¹⁸ Plugs
N		825 Alloy		down-rates m						BV	Bleed Valve/Plug	
D	Duplex 22 Cr. Steel	625 Alloy		³ For Carbon consult your I		r				Operato	or Options ¹⁹	¹⁹ These
_	Super Duplex 25 Cr. Ste	el C Carbo	on Steel ³	representation	า.					HW	Handwheel for all valves	Add I Add V
	Application Configuration	and/want/drain_inalat	to and collibrate							LHW	Handwheel Locking for all valves	Exam
	2-valve, block and bl DBB 3-valve, double isola		ain, block-bleed-block ⁴	⁴ Available on		NIL oprige or	ah <i>u</i>			THL AT	T Bar Locking for all valves Anti-Tamper for all valves ²⁰	• ATI • HW
	· · · · · · · · · · · · · · · · · · ·		ain, block-block-bleed⁴	Available of	nL anu n	NL Series Of	ny.			ATK	Anti-Tamper for all valves with Key ²¹	²⁰ Anti-T
C	Connections - Standard Optio	ns								ATHKEY		²¹ Anti-T ²² Speci
	Inlet	Outlet	Vent								g Options	·
*	1/2" NPT Fem.	1/2" NPT Fem.	1/4" NPT Fem. 1/4" NPT Fem.	* Default conr	nection, no	designator	required.			BK BKS	Assembled with Carbon Steel bracketry & bolts Assembled with Stainless Steel bracketry & bolts	
	N 1/4" NPT Fem. K 1/4" BSPT Fem.	1/4" NPT Fem. 1/4" BSPT Fem.	1/4" BSPT Fem.							Other O		
	R 1/4" BSPP Fem.	1/4" BSPP Fem.	1/4" BSPP Fem.							ох	Cleaned & lubricated for Oxygen use	
8	K 1/2" BSPT Fem.	1/2" BSPT Fem.	1/4" BSPT Fem.							NC	NACE MR-01-75 Compliant	
	R 1/2" BSPP Fem.	1/2" BSPP Fem.	1/4" BSPP Fem.							M*	Assembly and Test of Free Issue Instrument	* Specif
	M4F4F 1/4" NPT Male M8F4F 1/2" NPT Male	1/4" NPT Fem. 1/2" NPT Fem.	1/4" NPT Fem. 1/4" NPT Fem.									
	2M8F4F 3/4" NPT Male	1/2" NPT Fem.	1/4" NPT Fem.									
4	A 1/4" A-LOK⁵	1/4" A-LOK⁵	1/4" NPT Fem.	⁵ Available on								
	A 3/8" A-LOK ⁵	3/8" A-LOK⁵	1/4" NPT Fem.				connection change A to Z. some model types may be ava	ilable with other	r			
	A 1/2" A-LOK⁵ I6A 6mm A-LOK⁵	1/2" A-LOK⁵ 6mm A-LOK⁵	1/4" NPT Fem. 1/4" NPT Fem.	connections.								
	10 10mm A-LOK⁵	10mm A-LOK⁵	1/4" NPT Fem.									
	12mm A-LOK⁵	12mm A-LOK⁵	1/4" NPT Fem.									
	Other Connection Options ⁶ F Fem. NPT connection. Ut	iliso for non-dofault s	voloctions	^b Default stan inlet & 1/2" N	dard manif PT Fem. o	olds require utlet & 1/4"N	e no additonal designators. Exa NPT Fem. vent = HL*2V (as exa	ample: 1/2" NPT ample above).	Fem.			
	Male NPT connection. Ut						nections must be designated. I em. (8F) outlet, 1/4" NPT Fem. ven					
*:	#F Fem. connection. Utilise v	when connections an	d specifications vary	 1/2"BSPP Fe 	em. (8ŔF) inl	et & 1/2"BSP	P Fem. (8RF) outlet & 1/4"NPT Fe	m. vent (4F) = 8RF				
*;	#M Male connection. Utilise v			 1/2"BSPP Fe 8RF8RF4KF 		et & 1/2"BSP	P Fem. (8RF) outlet & 1/4"BSPT F	em. (4KF) vent =				
	K BSPT BS21, ISO7/1 R BSPP BS2779 - Britis			* Insert size d	esignator.							
	RD DIN 16284/16288/EN	837 BSPP gauge cor	nnection type	# Insert speci ⁷ As standard		,	ocket Weld connections will be	e of the same ler	ngth as	IMPOR	TANT NOTES:	
	W* ASME B16.11, EN12760 ISO Metric M20x1.5 Para			per the equiva	alent NPT	pipe threade				• For	r optimum results in integral tube connection	ons on m
	Gauge connection (WG t	ype)		⁸ Available on * No designat							commended. For inverted style integral tube	
	Butt Weld and Male Socket We	Sched		⁹ As standard	, valvės wi	h butt weld	pipe connections will be of the				t all options/combinations are available in e	0
Т	ype Si	(Thick		the equivalent offered - see			ded variants. Extended body di gue.	imensions are al	ISO		reserve the right to review/revise this part	
В	W Butt Weld ⁹		ch.80 * Default	¹⁰ As standard	l, valves wi	th Male Soc	eket Weld conn. will have 1/2" (commend the most suitable alternative part	
	ISW Male Socket Weld ¹⁰	1/2" NB B Sc 2 3/4" NB	ch.160 C 75mm ch.XXS D 100mm	body dimensi	ons are als	o offered - s	n compared to equivalent threa see tables and main catalogue ch.XXS wall pipe and 100mm body	. Example:			ould your part number selection exceed 25 ase consult your local Parker representatio	
h	nverted Connection and PTFr		Plood/Ment/	¹¹ Examples:			1/4" NPT Fem. vent/drain = IVAM1				n any doubt, please consult your local Park	
		-	nlet/Outlet Bleed/Vent/ Drain	 10mm CPI i 	nverted inle		"NPT Fem. vent/drain = IVZM104					
ľ	V Inverted Connection Tube OD ¹¹	M Metric 1	6mm 0 10mm	 ¹² Examples: 10mm A-LOF 		con. inlet/out	let & 1/4" NPT Fem. vent/drain = F	PFAM104F				
F	PF PTFree connect A	A-LOK 1	2 12mm	 3/8" CPI mal 	e union con	inlet/outlet 8	& 1/4"NPT Fem. vent/drain = PFC2					
	tube stub ¹²	ODI 4	1/4" 4F 1/4" NPT ¹³		and to state				ha			

¹³ 1/4" NPT Fem. is default standard for bleed/vent/drain, some model types may be available with other connections

manifold, manufactured from 316 Austenitic Stainless Steel material, having 1/2" NPT Fem. tion. Gland packing is PTFE.

manifold, manufactured from 316 Austenitic Stainless Steel material, having 1/4" BSPP Male nnection. Gland packing is Graphite and a 1/4" NPT blanking plug is supplied. tock manifold, manufactured from 316 Aust.St.St., with 1/2" NPT male inlet connection, 1/2" BSPP /bleed. A 1/4" NPT blanking plug is supplied. Suitable for oxygen service and complies to NACE. Itable for 6x74 NPT blanking bidg is supplied. Suitable for oxygen service and complex to NACE. Iat barstock manifold, 316 Aus.St.St. material with Parker Superior Advantage 12mm inverted tube on. suitable for 6mm tube. Gland packing is PTFE. Anti-Tamper operation and a single key. Iustenitic stainless steel material with Parker A-LOK 12mm integral tube connections to inlet and F bar handle operation and is compliant to NACE.

anifold manufactured from 316 Austenitic Stainless Steel material having Parker Superior 1/2" Gland packing is PTFE. A 1/4" NPT blanking plug is supplied. Suitable for oxygen service. nanifold manufactured from 6MO Super Austenitic Stainless Steel material having Parker Superior with 6mm integral PTFree male union A-LOK tube connection to vent/drain/bleed. Gland packing is

ot required when Firesafe design option (FS) selected. ot available for PCTFE Soft Tip (9) or Oxygen use (OX).

nm bore seat and other flow passages not available on all selections. Please consult your local er support.

000 PSI/207 BAR only. See catalogue page 14.

ugs supplied loose in a packing box. See page 61.

ese options can be specified to independent valves:

dd I to specify specify assembly to Isolate valves. dd V to specify specify assembly to Vents/Drains/Bleeds.

amples:

ATI = Anti-Tamper to Isolate valve. HWV = Handwheel to Vents/Drains/Bleeds.

ti-Tamper operation and no Key.

nti-Tamper operation and one Key supplied per manifold.

becify quantity required as separate line item.

ecify assembly and test option - see page 71.

manifolds, the use of Parker pre-assembly tooling is highly ections the use of Parker pre-assembly tooling is mandatory. ingle product model type.

er structure at any time. If necessary, we can refuse and/or er(s). We may also apply MOQ rules.

cters in length when completed, then it is likely to be incorrect, ssistance.

resentation.

Mounting Brackets

Brackets for remote/line mount manifolds and gauge valves

It is essential to fully support impulse/pressure measurement tubing lines, manifolds and instruments. For this reason, all Parker manifolds are designed to accommodate bracket mounting and support.

A full range of bracket mounting kits can be supplied fully assembled to the manifolds, or supplied separately for on-site installation. Available in either all carbon or all stainless steel, they are specifically matched to Parker manifolds to ensure the clearance

needed to efficiently operate all handles and are also designed to offer maximum rigidity and support in horizontal or vertical orientations on panels, walls or 2" NB pipe stands.

Parker is also able to offer all other items necessary to complete your installations, including the 2"NB pipe stands, tubing clamps, cable/tube trays, populated enclosure solutions and much more. For further information please contact your local Parker support.

Brackets for 2-valve remote mount manifolds - BKT1

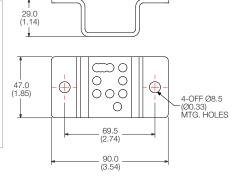


Image shown: Part No.: HLS2VBK

How to order:



Image shown: Part No.: BKT1SSB1



	Part	Number		
Item	Bracket material: Carbon Steel	Bracket material: Stainless Steel	Suitable for Manifold Type	
Bracket with M8 'U' Bolt and manifold Bolt Kit (Nuts and washers: M5 x 45 Bolt (2-OFF)	BKT1CSB1	BKT1SSB1	HL*2V HL*2V8M8F4F HAL*2V HLLHV*2V	

Brackets for 2-valve remote mount manifolds and 3-valve DBB manifolds - BKT2



Image shown: Part No.: HLS3DBBBK

How to order:



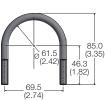
C 4-OFF Ø8.5 Ο -(Ø0.33) MTG. HOLES 000 90.0 (3.54 \bigcirc Ο (2.74), 90.0 (3.54

	Part N		
Item	Bracket material: Carbon Steel	Bracket material: Stainless Steel	Suitable for Manifold Type
Bracket with M8 'U' Bolts and manifold Bolt Kit (Nuts and washers: M5 x 45 Bolt (2-OFF)	BKT2CSB1	BKT2SSB1	HAL*2VHP HLTF*2V
Bracket with M8 'U' Bolts and manifold Bolt Kit (Nuts and washers: M10 x 12 Bolt (2-OFF)	BKT2CSB2	BKT2SSB2	HL*3DBB HL*3DBB1

34

'U' bolt with nuts and washers for 2" NB standpipe



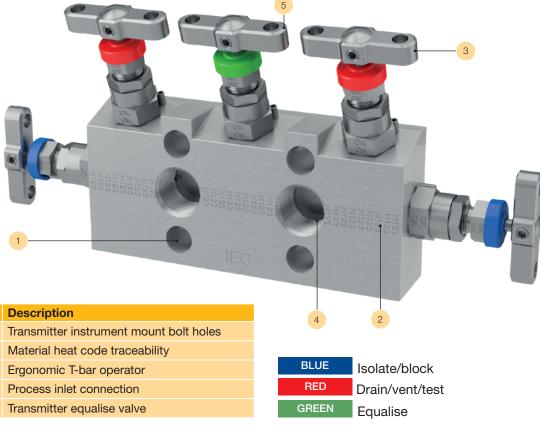


3 and 5-Valve Manifolds - H Series

Introduction

Combining three or five bonnet assemblies into one block, this Parker 3 and 5-valve manifolds range is primarily used in applications requiring Differential Pressure Transmitters, Gauges and/or Chart Recorders mainly for the purpose of flow measurement. In some circumstances, differential pressure measurement will also be used in other applications, such as level or filtration.

In combination with Parker A-LOK[®] or CPI[™] compression tube fittings and PTFree connect[™] technologies, a superior advantage is gained allowing users to eliminate threaded connections and reduce leak paths, whilst offering superior installation and operational performance.



Description
Transmitter instrument mount bolt holes
Material heat code traceability
Ergonomic T-bar operator
Process inlet connection
Transmitter equalise valve

These manifolds are widely used in situations where a differential pressure measurement device requires maintenance, offering safe isolation to allow venting/ draining and calibration of that device. They also provide the means for removal and re-installation of an instrument in a live process situation. They are used in every industry in a wide range of applications - everywhere where accurate and secure pressure measurement of steam, air, gas, oil, water or other non-viscous liquids is required.

These manifolds are available in a remote (or line) mount and in a direct mounting style for bolting directly to the face of Differential Pressure Transmitters with an array of input connection styles and types. The unique Parker superior advantage in this regard is being the ability to create a threadless leak-free hook up. Where additional operational security or functionality is required, a number of Example shown: 3-valve direct mount manifold with differing flow path configurations and additional ports NPT connections and additional test/purge ports. are available to allow purging upstream or downstream of the isolation valves.

We are confident you will find a manifold style, type and connection option to suit your applications, but should you require something different or need assistance to make your selection, please contact vour local Parker support.

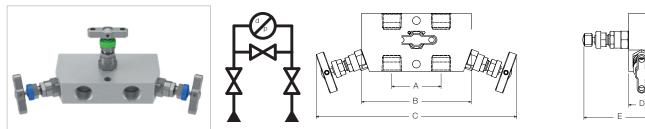


3-Valve Manifolds - H Series

Remote/line mount

These 3-valve remote mount manifolds combine three needle valves into one unitised block to create Isolation for the instrument impulse lines and an Equalisation feature to assist in installation and maintenance of the remotely connected instrument(s). They are truly flexible having a multitude of available connection options.

HL*3M - Female x Female threaded - NPT



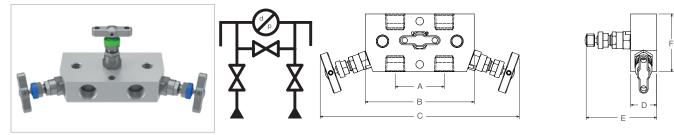
Example shown: 3-valve remote/line mount manifold

featuring the Parker A-LOK® Superior Advantage

inverted integral tube fitting connections.

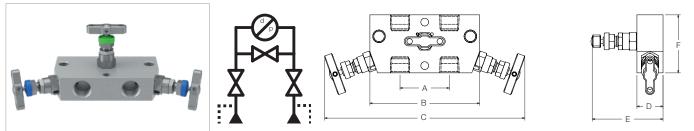
Pressure		Outlet	Dimension							
PSI	Inlet		A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)		
6,000	1/2" NPT	1/2" NPT	54.0 (2.125)	120.0 (4.72)	220.0 (8.66)	28.6 (1.13)	79.4 (3.13)	63.5 (2.50)		
10,000	1/2" NPT	1/2" NPT	54.0 (2.125)	132.0 (5.20)	232.0 (9.14)	31.8 (1.25)	82.6 (3.25)	63.5 (2.50)		

HL*3MDTP - Female x Female threaded - NPT with downstream test ports



Pressure PSI		Outlet	Drain/Bleed/ Test	Dimension						
	Inlet			A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)	
6,000	1/2" NPT	1/2" NPT	1/4" NPT	54.0 (2.125)	120.0 (4.72)	220.0 (8.66)	28.6 (1.13)	79.4 (3.13)	63.5 (2.50)	

HL*3MUPP - Female x Female threaded - NPT with upstream purge ports



Pressure			Drain/Bleed/		Dimension A B C D E F					
PSI	Inlet	Outlet	Test	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)	
6,000	1/2" NPT	1/2" NPT	1/4" NPT	54.0 (2.125)	120.0 (4.72)	220.0 (8.66)	28.6 (1.13)	79.4 (3.13)	63.5 (2.50)	

5-Valve Manifolds - H Series

Remote/line mount

These 5-valve remote mount manifolds combine five needle valves into one unitised block to create Isolation for the instrument impulse lines and an Equalisation feature to assist in installation and maintenance of the remotely connected instrument(s). They also incorporate vent/drain or calibration valves and ports. These manfolds are truly flexible, having a multitude of available connection options and are suitable for use in many applications including those utilising Differential Pressure Gauges.

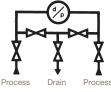
HL*5M - Female x Female threaded - NPT



P	ressure			Bleed			Dime	nsion		
	PSI	Inlet	Outlet	/test	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)
	6,000	1/2" NPT	1/2" NPT	1/4" NPT	54.0 (2.125)	120.0 (4.72)	221.6 (8.72)	28.6 (1.13)	79.4 (3.13)	63.6 (2.50)
	10,000	1/2" NPT	1/2" NPT	1/4" NPT	54.0 (2.125)	132.0 (5.20)	233.6 (9.20)	31.8 ((1.25)	82.6 (3.25)	76.2 (3.00)

HL*5MCT - Female x Female threaded - NPT



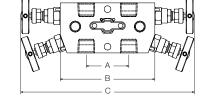


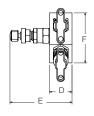
Pressure			Bleed /test	Dimension							
PSI		Outlet		A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)		
6,000	1/2" NPT	1/2" NPT	1/4" NPT	54.0 (2.125)	120.0 (4.72)	221.6 (8.72)	28.6 (1.13)	79.4 (3.13)	63.6 (2.50)		

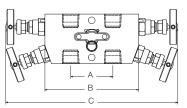


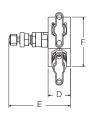
Example shown: 5-valve remote/line mount manifold featuring the Parker A-LOK® Superior Advantage Inverted integral tube fitting connections for the impulse line and NPT ported connections for the vent/ drains.











3 and 5-Valve Manifolds - Remote/Line Mount

Ordering information

													5-valve ro	mote mount, thread to thread 6,000 DSI manifold, manufactu	ired from 216 C
Ex	ample 1 (Default):	HLS5M					HL	S	5M)		mote mount, thread to thread 6,000 PSI manifold, manufactu ns to vents. Gland packing is PTFE.	
Ex	ample 2: HL6MO	3M4NHP	PATEBK	(SNC			HL	6MO	3M	4N	HPPATEBKSNC)	3-valve re Manifold	emote mount, thread to thread 10,000 PSI manifold, manuf has Anti-tamper operation to the equalise valve, is fitted to	actured from 6 a stainless ste
Ex	ample 3: HL6MO	3MUPPP	FAI44Pk	KPOX			HL	6MO	3MUPP	PFAI44	ΡΚΡΟΧ	·····)	 3-valve re Fem, ups 	emote mount, tube to tube manifold, manufactured from 6N tream test ports - 1/4" NPT blanking plugs supplied. Glanc	VIO material ha d packing is P1
Ex	ample 4: HLS5M	SW83PA	KVBKN	IC			HL	S	5M	SW8	3PATKVBKNC)	5-valve re	mote mount, 6,000 PSI manifold manufactured from 316 s s Graphite. Manifold also includes Anti-tamper operation to	SS material ha
	ample 5: HLS5M						HL	S	5MCT	PFCAM126	ATKE		tamper ke	ey and two 1/4" NPT blanking plugs are also supplied.	
	1												union cor	mote mount manifold manufactured from 316 SS having F n. to the vents/drains/bleeds. Gland packing is PTFE. Mani	
EX	ample 6: HL6MO	SIVILVAIVI	12PFCA	IVIO			HL	6MO	5M	IVAM12	PFCAM6		 5-valve re to inlets a 	emote mount, tube to tube manifold, manufactured from 6M and outlets with 6mm A-LOK PTFree male union connection	VIO Aust. Stair
² For Ca Applic 3M 3MDT	Flat barstock remote	Steel Steel ttes manifold r local Parke equalise equalise wi equalise wi	HC AII T Tit 825 AII 625 AII C Ca r representa th downstream	lloy C276 tanium Gr. 2 lloy 825 lloy 625 arbon Steel ation. ream vent/d m purge por	21 2 rain/b								HP Gland F 3 FS Seating 6S RT 5 9 PK Plug/Bl P BV	ressure - 10,000 PSI (689 bar) option High Pressure Packing Options Graphite ⁷ Firesafe design ⁸ g Options - Needle Valves only 6mm bore seat ⁹ Regulating/Metering Tip Stellite Tip PCTFE Soft Tip ¹⁰ PEEK Soft Tip Ideal Valve Options ¹¹ Blank Plug Bleed Valve/Plug	⁷ Not re ⁸ Not a ⁹ 6mm Parker ¹⁰ 3,000 ¹¹ Plugs
5МСТ	5-valve, isolate, equ	alise with v	ent/test/ble	eed suitable	e for C	ustody							PBV	Blank Plug and Bleed Valve/Plug or Options ¹²	¹² Thes
0	Transfer application												HW	Handwheel for all valves	Add
Conne	ections - Standard Op Inlet	Outlet	+	Vei	nt								LHW	Handwheel Locking for all valves	Add Add
*	1/2" NPT Fem.		PT Fem.			Fem.	* Defa	It connec	ion, no desigr	nator required.			THL	T Bar Locking for all valves	Exam
4N	1/4" NPT Fem.		IPT Fem.			Fem.					gnators. Example: 1/2" NP	Т	AT	Anti-Tamper for all valves ¹³	• HW • ATI
4K	1/4" BSPT Fem.		SPT Fem.			PT Fem.					ent = HL*5M (as above) designated. Examples:		ATK	Anti-Tamper for all valves with Key ¹⁴	¹³ Anti-
4R	1/4" BSPP Fem.		SPP Fem.			PP Fem.				P Fem. outlet & 1/4"NPT			ATHKE	Y Anti-Tamper Key ¹⁵	¹⁴ Anti-
8K	1/2" BSPT Fem.		SPT Fem.			PT Fem.				P Fem. outlet & 1/4"BSP			Mounti	ng Options	¹⁵ Spec
													BK	Assembled with Carbon Steel bracketry & bolts	
8R	1/2" BSPP Fem.		SPP Fem.			PP Fem.			=				BKS	Assembled with Stainless Steel bracketry & bolts	
SW8	1/2" NB Fem. SW ³	1/2" N	B Fem. SV	v ³ 1/4	" NP	Fem.				ale Socket Weld conn PT pipe threaded varia	ections will be of the same		Other C		
Option	nal Connections						length	as per trie	equivalent Nr	i pipe illieaueu valla	ins.			•	
Туре		Fitting	Unit	Inlet/Out		Bleed/Vent/	⁴Exam	nles					OX	Cleaned & lubricated for Oxygen use	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			•			Drain			verted inlet/out	let & 1/4" NPT Fem. vent	/drain = IVAM104F		NC M*	NACE MR-01-75 Compliant	* O
	Inverted Connection		M Metric	6 6mm 10 10mr						& 1/4" NPT Fem. vent/dr			IVI	Assembly and Test of Free Issue Instrument	* Speci
	Tube OD⁴ PTFree connect	A A-LOK	III Moulo	12 12mr						et & 6mm vent/drain = IV & 1/4" vent/drain = IVAI					
	tube stub⁵				4	IF 1/4" NF	T ⁶ ⁵ Exan								
	PTFree connect	Z CPI	I Imperia	4 1/4" al 6 3/8"					oe stub con. inle	et/outlet & 1/4" NPT Fem	. vent/drain = PFAM104F				
	male union⁵			8 1/2"						utlet & 1/4"NPT Fem. ver					
	PT Fem. is default stand		d/vent/drair	in, some mo	del ty	oes may be	• 12mr	n A-LOK m	ale union con. In	ilet/outlet & 6mm A-LOK	vent/drain = PFCAM126				
aranabi															
														RTANT NOTES:	
													_		
														or optimum results in integral tube connect	
														commended. For inverted style integral tul	
													• No	ot all options/combinations are available in	each sinc
														e reserve the right to review/revise this par	
															LIUIIDE

- We reserve the right to review/revise this part number structure at any time. If necessary, we can refuse and/or recommend the most suitable alternative part number(s). We may also apply MOQ rules.
- please consult your local Parker representation for assistance.
- If in any doubt, please consult your local Parker representation. •

Stainless Steel material having 1/2" NPT Fem. connections to inlets and outlets with 1/4" NPT Fem.

m 6MO material having 1/4" NPT Fem. connections to inlets and outlets. Gland packing is PTFE. steel mounting bracket assembly and complies to NACE.

having 1/4" A-LOK PTFree tube stub con. to inlets and outlets. There are 2 additional 1/4" NPT PTFE. Valves are fitted with PEEK soft tip stems; manifold is cleaned suitable for oxygen service. having 1/2" NB Fem. socket weld con. to inlets and outlets with 1/4" NPT Fem. vent ports. Gland alves, is fitted with a Carbon S mounting bracket assembly and complies to NACE. One Anti-

rior advantage 12mm A-LOK PTFree male union con. to inlets and outlets with 6mm PTFree male with Anti-tamper operation to the equalise valve and suppled with one Anti-tamper key. ainless Steel material having Parker Superior Advantage 12mm A-LOK inverted tube connections nits. Gland packing is PTFE.

required when Firesafe design option (FS) selected. available for PCTFE Soft Tip (9) or Oxygen use (OX).

m bore seat and other flow passages not available on all selections. Please consult your local r support.

000 PSI/207 BAR only. See main catalogue page.

igs supplied loose in a packing box. See page 61.

ese options can be specified to independent valves:

E to specify assembly to Equalise valve only.

to specify assembly to Isolate valves. V to specify assembly to Vents/Drains/Bleeds.

WV = Handwheel to Vents/Drains/Bleeds. **WV** = Anti-Tamper to Equalise valve.

i-Tamper operation and no Key.

i-Tamper operation and one Key supplied per manifold.

ecify quantity required as separate line item.

ecify assembly and test option - see page 71.

manifolds, the use of Parker pre-assembly tooling is highly ections the use of Parker pre-assembly tooling is mandatory. ngle product model type.

Should your part number selection exceed 25 characters in length when completed, then it is likely to be incorrect,

Mounting Brackets

Brackets for remote/line mount manifolds and gauge valves

Brackets for 3 and 5-valve remote mount manifolds - BKT2

- Universal manifold mounting bracket, suitable for all remote mount manifolds •
- Allows 90 degree positioning enabling total installation flexibility and prevents handle obstruction •
- Can be wall, standpipe or base mounted ٠





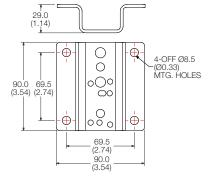


Image shown: Part No.: HLS5MBK

Image shown: Part No.: BKT2SSB5

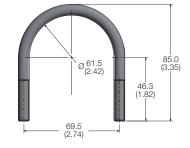
How to order:

	Part	Number	
Item	Bracket material: Carbon Steel	Bracket material: Stainless Steel	Suitable for Manifold Type
Bracket with M8 'U' Bolt and manifold Bolt Kit (Nuts and washers: M8 x 45 Bolt (2-OFF)	BKT2CSB5	BKT2SSB5	HL*3M HL*3MDTP HL*5M HL*5MHP

'U' bolt with nuts and washers for 2" NB standpipe



Bracket kits include U bolts with nuts and washers.

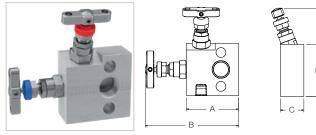


2-Valve Manifolds - H Series

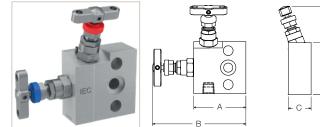
Direct mount

Combining two needle valves into one unitised block, this 2-valve manifolds range is also referred to as a Block and Bleed, Isolate and Calibrate or even Isolate and Vent/Drain. These manifolds are specifically designed for direct connection to absolute/gauge pressure transmitters, having bolted interface conforming to DIN/IEC 61518 Type B as standard, and type A available by request. With additional mounting holes and a wide range of bracketry, these manifolds can also be utilised as support for the instrument within any installation.

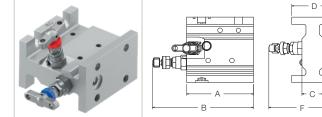
HD*2M - Female threaded - NPT x Flanged



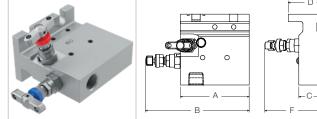
HD*2MFF - Flanged x Flanged (straight through bolted flange)



HEH*2 - Flanged x Flanged



HET*2 - Female threaded - NPT x Flanged





Example shown: 2-valve manifold with inverted integral A-LOK[®] connections.

							D	imensio	n	
F		Pressure (PSI)	Inlet	Outlet	Bleed /test	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)
	6,	000	1/2" NPT	Flanged	1/4" NPT	63.5 (2.50)	114.3 (4.50)	28.6 (1.13)	63.5 (2.50)	107.6 (4.24)

HD*2MFD variant available with vent/bleed/drain connection on same face as process inlet.

ľ							D	imensic	on	
	Ē	Pressure (PSI)	Inlet	Outlet	Bleed /test	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)
		6,000	Flanged	Flanged	1/4" NPT	63.5 (2.50)	114.3 (4.50)	28.6 (1.13)	63.5 (2.50)	107.6 (4.24)

1					Dimension						
	Pressure (PSI)	Inlet	Outlet	Bleed /test	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)	
	6,000	Flanged	Flanged	1/4" NPT	98.5 (3.88)	149.3 (5.88)	31.8 (1.25)	62.0 (2.44)	96.4 (3.80)	95.8 (3.77)	

						Dime	nsion		
Pressure (PSI)	Inlet	Outlet	Bleed /test		B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)
6,000	1/2" NPT	Flanged	1/4" NPT	98.5 (3.88)	149.3 (5.88)	31.8 (1.25)	62.0 (2.44)	101.6 (4.00)	80.7 (3.18)

3-Valve Manifolds - H Series

Direct mount

These 3-valve direct mount to differential pressure transmitter manifolds combine three needle valves into one unitised block to create Isolation for the instrument impulse lines and an Equalisation feature to assist in installation and maintenance. They comply fully with IEC 61518 and have a multitude of advantageous connection & application options.

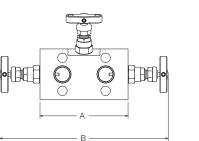


HA

Example shown: 3-valve manifold with PTFree connect[™] connection.

HD*3M - Female threaded - NPT x Flanged

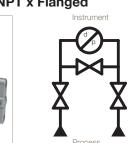


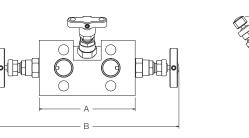


		Dimension								
Inlet	Outlet	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)				
1/2" NPT	Flanged	110.0 (4.33)	211.6 (8.33)	28.6 (1.13)	63.5 (2.50)	107.6 (4.24)				

HD*3MA - Female threaded - NPT x Flanged



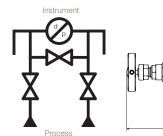


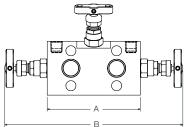


		Dimension								
Inlet	Outlet	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)				
1/2" NPT	Flanged	110.0 (4.33)	211.6 (8.33)	28.6 (1.13)	63.5 (2.50)	91.0 (3.58)				

HD*3MDTP - Female threaded - NPT x Flanged with downstream test ports







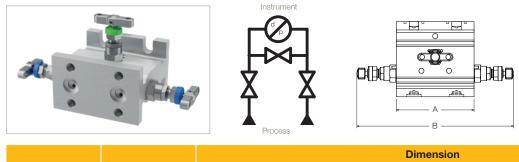
				Dime	nsion		
Inlet	Outlet	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)
1/2" NPT	Flanged	33.0 (1.30)	110.0 (4.33)	211.6 (8.33)	28.6 (1.13)	63.5 (2.50)	107.6 (4.24)

HET*3 - Female threaded - NPT x Flanged



	_			Dime	nsion		
Inlet	Outlet	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)
1/2" NPT	Flanged	98.5 (3.88")	200.1 (7.88")	31.8 (1.25")	62.0 (2.44")	101.6 (4.00")	82.6 (3.25")

HEH*3 - Flanged x Flanged

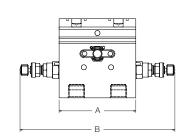


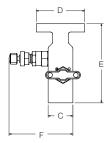
		Dimension					
Inlet	Outlet	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)
Flanged	Flanged	98.5 (3.88")	200.1 (7.88")	31.8 (1.25")	62.0 (2.44")	96.4 (3.80")	97.7 (3.85")

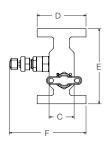
Recognising and understanding the direct mount transmitters*



* Not Emerson Coplanar[™] types – For Coplanar[™] please see page 55.









Typical installation

Manifolds mount to this IEC compliant interface

• Pressure applications utilise 2-valve manifolds bolted with 2 bolts Differential applications utilise 3 or 5-valve manifolds bolted with 4 bolts

Connection centres are 2 1/8" (54mm)

```
- Bolt hole centres are 2 1/8" (54mm) x 1 5/8" (41mm)
```

5-Valve Manifolds - H Series

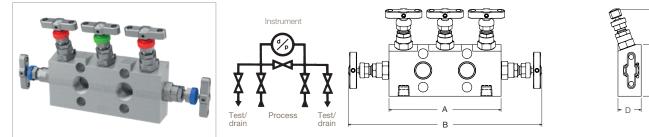
Direct mount

These 5-valve direct mount to differential pressure transmitter manifolds combine five valves into one block, creating Isolation for the instrument impulse lines and an Equalisation feature to assist in installation & maintenance. They additionally offer independent vent/ drain/bleed/calibration facilities with their own individual ports. These manifolds comply fully with IEC 61518. They also feature multitude of advantageous connection & application options.

HD*5M - Female threaded - NPT x Flanged



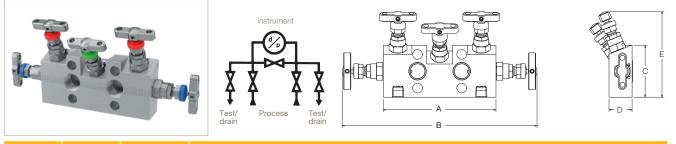
Example shown: 5-valve extruded direct mount manifold with Parker Superior Advantage fully integrated inverted A-LOK® tube fitting connections.



						Dimension		
	Inlet	Outlet	Bleed/Test	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)
-	1/2" NPT	Flanged	1/4" NPT	138.0 (5.43)	239.6 (9.43)	63.5 (2.50)	28.6 (1.13)	107.6 (4.24)

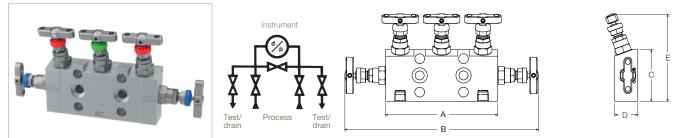
HD*5MFD variant available with vent/bleed/drain connections on same face as process inlet.

HD*5MA - Female threaded - NPT x Flanged



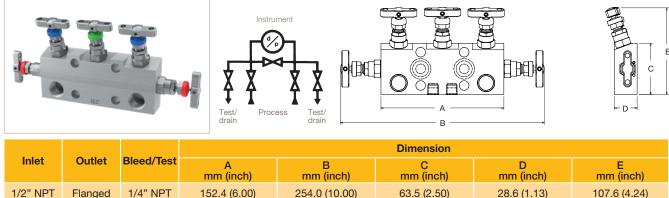
				Dimension						
	Inlet	Outlet	Bleed/Test	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)		
1/	/2" NPT	Flanged	1/4" NPT	138.0 (5.43)	239.6 (9.43)	63.5 (2.50)	28.6 (1.13)	104.7 (4.12)		

HD*5MFF - Flanged x Flanged (straight through bolted flange)

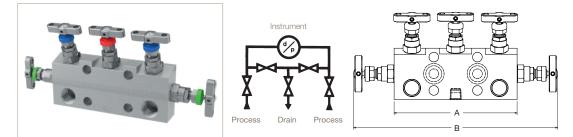


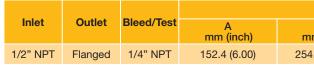
					Dimension		
Inlet	Outlet	Bleed/Test	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)
Flanged	Flanged	1/4" NPT	138.0 (5.43)	239.6 (9.43)	63.5 (2.50)	28.6 (1.13)	107.6 (4.24)

HD*5 - Female threaded - NPT x Flanged

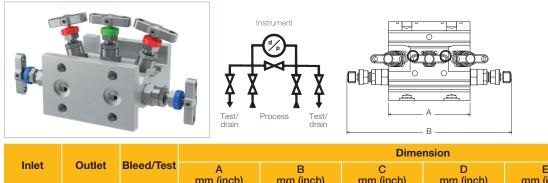


HD*5CT - Female threaded - NPT x Flanged



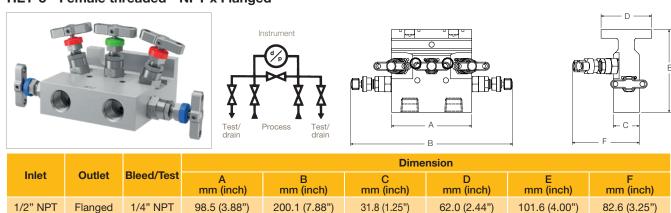


HEH*5 - Flanged x Flanged

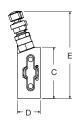


mm (inch) mm (ind Flanged Flanged 1/4" NPT 98.5 (3.88") 200.1 (7.8

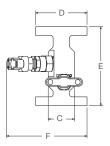
HET*5 - Female threaded - NPT x Flanged



	Dimension		
B Im (inch)	C mm (inch)	D mm (inch)	E mm (inch)
4.0 (10.00)	63.5 (2.50)	28.6 (1.13)	107.6 (4.24)



	Dimension		
B Im (inch)	C mm (inch)	D mm (inch)	E mm (inch)
4.0 (10.00)	63.5 (2.50)	28.6 (1.13)	107.6 (4.24)



	Dime	nsion		
ch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)
88")	31.8 (1.25")	62.0 (2.44")	96.4 (3.80")	97.7 (3.85")

	Dime	nsion		
ich)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)
.88")	31.8 (1.25")	62.0 (2.44")	101.6 (4.00")	82.6 (3.25")

2, 3 and 5-Valve Manifolds - Direct Mount

Ordering information

Example 1 (Default): HDS5M Example 2: HDS5MASB3PBKSNC Example 3: HDM5MADA Example 4: HDS5M4NDAATKVOXNC Example 5: **HEHS3DTP3ATE** Example 6: HETS5CTP Example 7: HETS5DAIVAM104F3PBKS Example 8: HDM5MADAPFCAM126PKNC

Series	5					<u> </u>
	Flat barstock direct me				flange manifolds	
HD ¹	 Process connections Process connections 					
IET ¹		```			ead to flange manifolds	
	Extruded H-section di				e e e e e e e e e e e e e e e e e e e	
		,	Ū	0		
EC B o	t standard connections fo utlet transmitter face with	1/4" NPT Fe	em. vent	s/drains/ble	eeds/purge or test ports -	
	pecified.	u flamma ka fl			1510 inlatte menifeld/	
ransmit	t standard connections fo tter interface with DIN IEC	B outlet wit	ange are h 1/4" N	PT Fem. ve	ents/drains/bleeds/purge or	
est por	ts - where specified.					
Mater	ials					
S	316/316L Stainless S	teel	НС	Alloy C27	76	
6MO	6MO Sup. Aust. St.S		Т	Titanium		
м	Alloy M400 ³		825	Alloy 825	i	
D1	Duplex 22 Cr. Steel		625	Alloy 625	i la	
D2	Super Duplex 25 Cr.	Steel	С	Carbon S	Steel⁴	
	naterial selection down-ra					
For Ca	arbon Steel consult your	local Parker	represe	entation.		_
	er of Valves/Configura					
2	2-valve, block & bleed/isolate & calibrate/vent/drain					
3 5	3-valve, isolate & equalise for DP applications 5-valve, isolate, equalise & calibrate/bleed/vent/drain for DP applications					
~	, , ,			ed/vent/ar	ain for DP applications	
	at Barstock Manifolds					
М	Process Connections	; 54.0 mm (2 1/4") (CTRS		
Applic	ation Configuration					
Α	Inclined equalise valv - Eg. Yokogawa EJA⁵		obstruct	tion with tr	ransmitter	5 For flat bars
FF	Flange to flange conr					
FD	Vent/bleed/drain conn		same fac	ce as proce	ess inlet	
ст	Suitable for fiscal me					⁶ For 5-valve
DTP	Downstream test por	ts ⁷				⁷ For 3-valve
Conne	ections - Standard Opt	tions				
	Inlet	Outlet			Vent/Drain/Bleed/	
*	1/2" NPT Fem.	DIN IEC B	Flance	Interface	Test/Purge 1/4" NPT Fem.	* Default sta
**	DIN IEC		· · ·		1/4" NPT Fem.	" Default star
4N	1/4" NPT Fem.		0		1/4" NPT Fem.	Default stan
4K	1/4" BSPT		0		1/4" BSPT Fem.	inlet & DIN I
4R	1/4" BSPP Fem.		0		1/4" BSPP Fem.	As connection • 1/2"BSPP F
8K	1/2" BSPT	DIN IEC B	Flange	Interface	1/4" BSPT Fem.	 1/2"BSPP F
8R	1/2" BSPP	DIN IEC B	Flange	Interface	1/4" BSPP Fem.	⁸ As standar
SW8	1/2" NB Fem. SW ⁸	DIN IEC B	Flange	Interface	1/4" NPT Fem.	as per the e
#DA	# Select from above	DIN IEC A	Flange	Interface	1/4" NPT Fem.	⁹ Examples:

Optio	onal Connections				
Туре		Fitting	Unit	Inlet	Bleed/Vent/ Drain
IV PF	Inverted Connection Tube OD ⁹ PTFree connect	A A-LOK	M Metric	6 6mm 10 10mm 12 12mm	
	tube stub ¹⁰ PTFree connect male union ¹⁰	Z CPI	I Imperial	4 1/4" 6 3/8" 8 1/2"	4F 1/4" NPT ¹¹

HD 3 HD 4 HD 3 HEH 3 HET 3	S S S S S S M	5 5 5 3 5 5 5 5	M M M M	A A DTP CT	DA 4NDA DAIVAM104F	SB3PBKS ATKVOXNC 3ATE P
HD I HD 3 HEH 3 HET 3	M S S S S	5 3 5 5 5	M	A DTP CT	4NDA	ATKVOXNC 3ATE
HD 3 HEH 3 HET 3	S S S S	5 3 5 5	M	DTP CT	4NDA	3ATE
HEH : HET :	S S S	3 5 5		СТ		3ATE
HET	S S	5 5	M	СТ	DAIVAM104E	
	S	5	M		DAIVAM104F	Р
HET			M	Α	DAIVAM104F	
		5	M	٨	DAITANIO	3PBKS
HD I		⋪		A	DAPFCAM126	PKNC
⁶ For flat bas ⁶ For 5-valve ⁷ For 3-valve	e mai	nifolo	ds onl	у.		

indard connection for pipe/thread to flange manifolds; no designator required. ndard connection for flange to flange manifolds; no designator required.

dard manifolds require no additonal designators. Example: 1/2" NPT Fem. EC B outlet with 1/4" NPT Fem. vent = HD*5M (as example above). on choices varv. all connections must be designated. Examples:

- Fem. inlet & DIN IEC B outlet with 1/4"NPT Fem. vent = 8R4F
- Fem. inlet & DIN IEC B outlet with 1/4"BSPT Fem. vent = 8R4K

rd, valves with Female Socket Weld connections will be of the same length quivalent NPT pipe threaded variants.

- 10mm A-LOK inverted inlet & 1/4" NPT Fem. vent/drain = IVAM104F
- 10mm CPI inverted inlet & 1/4" NPT Fem. vent/drain = IVZM104F 12mm A-I OK inverted inlet & 6mm vent/drain = IVAM126
- 1/2" A-LOK inverted inlet & 1/4" vent/drain = IVAI84
- ¹⁰ Examples:
- 10mm A-LOK tube stub con. inlet & 1/4" NPT Fem. vent/drain = PFAM104F
- 3/8" CPI male union con. inlet & 1/4"NPT Fem. vent/drain = PFCZI64F
- 12mm A-LOK male union con. inlet & 6mm A-LOK vent/drain = PFCAM126
- ¹¹ 1/4" NPT Fem. is default standard for bleed/vent/drain, some model types may be available with other connections.

5-valve direct mount, flat barstock, thread to DIN IEC B flanged 6,000 PSI manifold, manufactured from 316 SS material having 1/2" NPT Fem. inlet connections and 1/4" NPT Fem. connections to vents. Gland packing is PTFE.

3-valve direct mount extruded H-section, flange to flange 6,000 PSI manifold, manufactured from 316 SS material having DIN IEC process/inlet interface and IEC B outlet/ instrument flange connections. Gland packig is Graphite. Manifold has additional 1/4" NPT downstream test ports and is fitted with Anti-Tamper operation to the equalise valve. Instrument hange connections. Gland packig is Graphite. Manifold has additional 1/4 NPT downstream test ports and is litted with Anti-hamper operation to the equalise valve. 5-valve direct mount extruded T-section, pipe/thread to flange 6,000 PSI manifold, manufactured from 316 SS material having 1/2" NPT Fem. inlet and IEC B outlet/instrument flange with 1/4" NPT Fem. bleed/vent/drain. Gland packig is PTFE. Manifold is suitable for use in fiscal metering/custody transfer applications; 1/4" NPT blanking plug is supplied. 5-valve direct mount extruded section, tube to DIN IEC A flanged 6,000 PSI manifold, manufactured from 316 SS material having Parker Superior Advantage 10mm Inverted style A-LOK tube connections to the inlet and 1/4" NPT Fem. bleed/vent/drain. Gland packing is Graphite; 1/4" NPT blanking plugs supplied; fitted with SS mounting bracket assembly. 5-valve direct mount, flat barstock, tube to DIN IEC A flanged 5,000 PSI manifold, manufactured from Alloy M400 CRA material having Parker Superior Advantage 12mm PTFree A-LOK connections to inlet and 6mm PTFree A-LOK male stud union connections to vent/drain/bleed. Gland packing is PTFE. Manifold has further inclined equalise valve to avoid obstruction with the transmitter; fitted PEEK soft stem tip and conforms to NACE.

OPTIONS	
	t Bolt Options
SB	316 Stainless Steel bolt ¹¹
СВ	3" long Carbon Steel bolt ¹²
CSB	3" long 316 Stainless Steel bolt12
	king Options
3	Graphite ¹³
FS	Firesafe design ¹⁴
Seating Op	otions - Needle Valves only
RT	Regulating/Metering Tip
ST	Stellite Tip
9	PCTFE Soft Tip ¹⁵
PK	PEEK Soft Tip
Plug/Bleed	I Valve Options ¹⁶
P	Blank Plug
BV	Bleed Valve/Plug
PBV	Blank Plug and Bleed Valve/Plug
Operator (Options ¹⁷
HW	Handwheel
LHW	Handwheel Locking
THL	T Bar Locking
AT*	Anti-Tamper ¹⁸
ATK*	Anti-Tamper with Key ¹⁹
ATHKEY	Anti-Tamper Key ²⁰
Mounting	
BK	Assembled with Carbon Steel bracketry & bolts
BKS	Assembled with Stainless Steel bracketry & bolts
Other Opti	,
OX	Cleaned & lubricated for Oxygen use
NC	NACE MR-01-75 Compliant
M*	Assembly and Test of Free Issue Instrument

IMPORTANT NOTES:

- For optimum results in integral tube connections on manifolds, the use of Parker pre-assembly tooling is highly
- Not all options/combinations are available in each single product model type.
- recommend the most suitable alternative part number(s). We may also apply MOQ rules.
- please consult your local Parker representation for assistance.
- If in any doubt, please consult your local Parker representation. •

5-valve direct mount, flat barstock, thread to DIN IEC B flanged 6,000 PSI manifold, manufactured from 316 SS material having 1/2" NPT Fern. inlet con. and 1/4" NPT Fern. con. to vents. 316 SS bolts. Gland packing is Graphite. Manifold has further inclined equalise valve; fitted with SS mounting bracket assembly; 1/4" NPT blanking plugs supplied. 5-valve direct mount, flat barstock, thread to DIN IEC A flanged 5,000 PSI manifold, manufactured from Alloy M400 CRA material having 1/2" NPT Fem. inlet connections and 1/4" NPT Fem. connections to vents. Gland packing is PTFE. Manifold has further inclined equalise valve to avoid obstruction with the transmitter. 5-valve direct mount, flat barstock, thread to DIN IEC A flanged 6,000 PSI manifold, manufactured from 316 SS material having 1/4" NPT Fem. inlet conn. and 1/4" NPT Fem. vent cons. Gland packing is PTFE. Vent/drain/bleed valve's operation is Anti-Tamper. One Anti-Tamper key is supplied and the manifold is cleaned suitable for use in Oxygen applications, NACE compliant.

Carbon Steel bolt as standard. No designator required.

Extra length bolts to be specified when utilising these manifolds with Emerson Coplanar™ be transmitter with the traditional adaptor flange.

Not required when Firesafe design option (FS) selected. Not available for PCTFE Soft Tip (9) or Oxygen use (OX).

3,000 PSI/207 BAR only. See catalogue page 14.

Plugs supplied loose in a packing box. See page 61.

These options can be specified to independent valves:

dd E to specify assembly to Equalise valve only.

dd I to specify assembly to Isolate valves

Add V to specify assembly to Vents/Drains/Bleeds xamples

HWV = Handwheel to Vents/Drains/Bleeds.

ATE = Anti-Tamper to Equalise valve.

Anti-Tamper operation and no Key.

Anti-Tamper operation and one Key supplied per manifold.

Specify quantity required as separate line item.

pecify assembly and test option - see page 71.

recommended. For inverted style integral tube connections the use of Parker pre-assembly tooling is mandatory.

We reserve the right to review/revise this part number structure at any time. If necessary, we can refuse and/or

Should your part number selection exceed 25 characters in length when completed, then it is likely to be incorrect,

Mounting Brackets

Brackets for direct mount manifolds

Brackets for 2, 3 and 5-valve direct mount manifolds - BKT3

- Universal manifold mounting bracket, suitable for all direct mount manifolds
- This bracket design enables horizontal or vertical instrument positioning. ٠





Image shown: Part No.: HDS2MBK



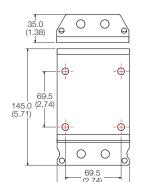


Image shown: Part No.: BKT3CSB2

How to order:

	Part	Number	Suitable for M	Manifold Type
Item	Bracket material: Carbon Steel	Bracket material: Stainless Steel	2-valve	3 & 5-valve
Bracket with M8 'U' Bolts and manifold Bolt Kit (Nuts and washers: M10 x 12 Bolt (2-OFF)	BKT3CSB2	BKT3SSB2		HD*3M HD*3MDTP HD*3MFF HD*3 HD*5M HD*5MFF
Bracket with M8 'U' Bolts and manifold Bolt Kit (Nuts and washers: M10 x 12 Bolt (1-OFF) M6 x 12 Bolt (1-OFF)	BKT3CSB3	BKT3SSB3	HD*2M HD*2MFF	

'U' bolt with nuts and washers for 2" NB standpipe



Bracket kits include U bolts with nuts and washers.



Image shown: Part No.: HDS5MBK

Brackets for 5-valve direct mount HD*5 style manifolds with increased process centres - **BKT5**

- Universal manifold mounting bracket, suitable for all direct mount manifolds
- This bracket design enables horizontal or vertical instrument positioning





Image shown: Part No.: HDS5BK

Image shown: Part No.: BKT5CSB6

How to order:

	Part N		
Item	Bracket material: Carbon Steel	Bracket material: Stainless Steel	Suitable for Manifold Type
Bracket with M8 'U' Bolts and manifold Bolt Kit (Nuts and washers: M6 x 12 Bolt (4-OFF)	BKT5CSB6	BKT5SSB6	HD*5CT HD*5

Brackets for 2, 3 and 5-valve direct mount extruded manifolds - BKT4

- Universal manifold mounting bracket, suitable for all direct mount extruded manifolds
- This bracket design enables horizontal or vertical instrument positioning. •





Image shown: Part No.: HEHS2BK

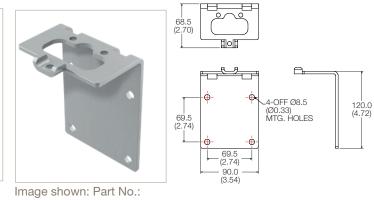
Image shown: Part No.: HEHS5BK

How to order:

	Part	Number	Suitable for Manifold Type		
Item	Bracket material: Carbon Steel	Bracket material: Stainless Steel	2-valve	3 & 5-valve	
Bracket with M8 'U' Bolt and manifold Bolt Kit (Nuts and washers: M6 x 45 Bolt (3-OFF)	BKT4CSB4	BKT4SSB4	HEH*2 HET*2	HET*3 HEH*3 HET*5 HET*5CT HEH*5 HEH*5CT	

48

4-OFF Ø8.5 (Ø0.33) MTG. HOLES 145.0

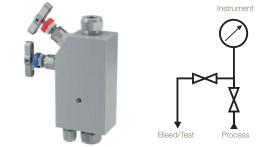


BKT4CSB4

Base Connected Manifolds Especially Suited For Enclosure Mounting

Introduction

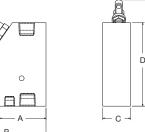
Suitable for vertical or horizontal installation, these base connection, base mounted manifolds can be utilised in stand-alone applications, but are especially suited for installation with transmitters within an instrument protection enclosure. They offer many benefits, including the ability to complete all connections outside of the enclosure itself. Combined with Parker's own instrument enclosure solutions and specified with the Parker Superior Advantage integral tube fitting connections, these represent the simplest, most efficient and reliable installation solutions available when protection is required.

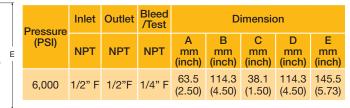


Example shown: 2-valve base connected manifold especially suited for use within enclosures, having Parker Superior Advantage fully integrated inverted style tube connections to inlet, outlet and vent/drain/bleed.

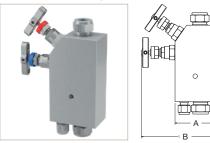
HL*2EXT - Female x Female threaded - NPT





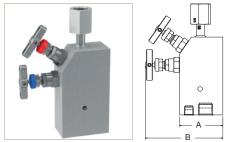


HL*2EXT - Integral A-LOK® connections



	Pressure	Inlet	Outlet	Bleed /Test		D	imensi	on	
 E	(PSI)	A-LOK	A-LOK	A-LOK		B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)
	6,000	1/2" 12mm	1/2" 12mm	1/4" 6mm	63.5 (2.50)	114.3 (4.50)	38.1 (1.50)	114.3 (4.50)	145.5 (5.73)

HL*2EXTWG - Female threaded - NPT with integral swivel gauge adaptor



Pressure	Inlet	Outlet	let Bleed /Test Dimension							
(PSI)	NPT	BSPP*	NPT	A mm (inch)	A B C D mm mm mm mm (inch) (inch) (inch)					
6,000	1/2" F	1/2"F	1/4" F	63.5 (2.50)	114.3 (4.50)	38.1 (1.50)	114.3 (4.50)	162.8 (6.40)		
*In accordance with DIN 16284 - Swivel BSPP 1/2" Female										

• Swivel adaptor to the outlet is provided through a socket weld, generally conforming to ANSI B16.11.

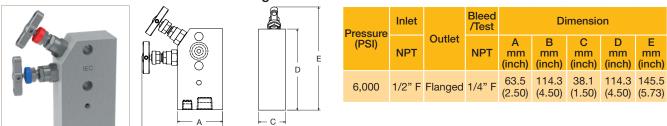
- · Weld connection is a "commercial weld", completed by a qualified welder. Any specific qualification, certification, documentation or additional NDT, will require to be engineered and quoted extra - please consult your local Parker support.
- Union nut dimensions generally conform to DIN 16284 as it applies to the union of nipple and nut themselves.

- 0 -

- C -

Union nut also conforms generally to DIN EN 837 for the gauge connection itself, as it applies to the union of nipple and nut themselves.

HD*2EXT - Female threaded - NPT x Flanged



HD*3EXT - Female threaded - NPT x Flanged

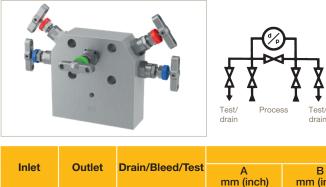


		Drain/Bleed/	Dimension							
Inlet	Outlet	Test	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)			
1/2" NPT	Flanged	Optional	114.3 (4.50)	215.9 (8.50)	88.9 (3.50)	38.1 (1.50)	114.3 (4.50)			

215

114.3 (4.50)

HD*5EXT - Female threaded - NPT x Flanged

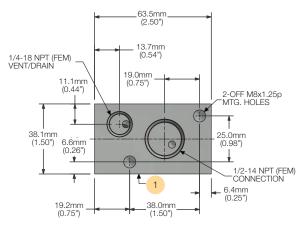


1/4" NPT

Manifold base footprint dimensions

Flanged

1/2" NPT



Manifold footprint for 2-valve manifolds. Example shown: HDS2EXT

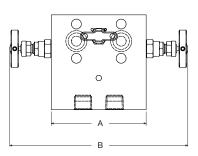
Description Item

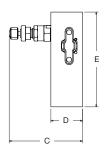
Manifold outlet to transmitter interface

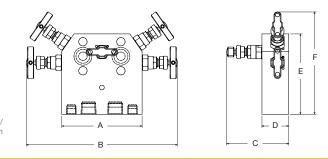
Notes:

1

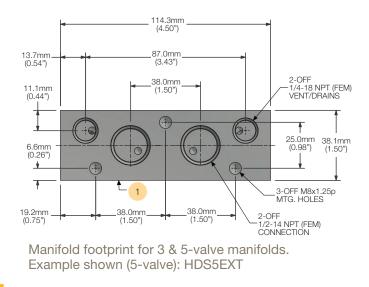
- Recommended base enclosure plate thickness to suit above footprints: 3-5mm. •
- footprint dimensions for the 2-valve equivalents do vary. For further details see page 55.







	Dime			
B Im (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)
5.9 (8.50)	88.9 (3.50)	38.1 (1.50)	114.3 (4.50)	145.5 (5.73)



Optional variations of these manifold types include compatibility for Emerson Coplanar™ transmitters. Please note,

Base Connected Manifolds Especially Suited For Enclosure Mounting

Ordering information

male union⁸

Exam	ple 1 (Default): H	IDS5E	ХТ				HD	S	5	EXT				>	5-valve bars DIN IEC B or	tock base mounted manifold for direct connection to ins utlet flange and 1/4" NPT Fem. vent/drain/bleed. Gland
Fxam	ple 2 (Default): H	ILS2E	хт				HL	S	2	EXT					2-valve bars	tock base mounted manifold for remote connection to ir with 1/4" NPT Fem. vent/drain/bleed. Gland packing is
											отр		2475	·····>	3-valve bars	tock base mounted manifold for direct connection to ins
	ple 3: HD6MO3I						HD	6MO	3		DTP		3ATE			B outlet flange. Gland packing is Graphite. Additional 1. tock base mounted manifold for direct connection to ins
Exam	ple 4: HDM5EX	T4ND/	ATKVOX	NC			HD	M	5	EXT		4NDA	ATKVOXNC		DIN IEC A or the vent valv	tock base mounted manifold for direct connection to ins utlet flange and 1/4" NPT Fem. vent/drain/bleed. Gland j es have Anti-tamper operation with keys.
Exam	ple 5: HLS2EXT	WGP					HL	S	2	EXT	WG		P	·····>	2-valve bars	tock base mounted manifold for remote connection to ir connection to instrument (with integral welded swivel ga
Exam	ple 6: HLS2EXT	IVZI83	BVATE				HL	S	2	EXT		IVZI84F	3BVATE	>	2-valve bars	tock base mounted manifold for remote connection to in
Exam	ple 7: HDS5EXT	DAPF	CAM126	PKNC			HD	S	5	EXT		DAPFCAM12	6 PKNC		equalise valv	Pl tube connections to process inlet and instrument outle re and a 1/4" NPT bleed valve plug is supplied.
															connectors t	tock base mounted manifold for direct connection to ins to the process inlet connections, with DIN IEC A outlet fl a red processing complication to NACE
							•	↑	1	•		↑	↑		PEEK SOTT TIP	o and materials are compliant to NACE.
Series	S															S
HL	Pipe to pipe/Thread	d to thre	ad connectio	ons ¹											Instrumer	- nt Bolt Options
HD	Pipe/Thread to IEC	flange	connection ²												SB	316 Stainless Steel bolt ¹⁰
	e manifolds only.														СВ	3" long Carbon Steel bolt11
Default	t standard connections t transmitter face with 1,	for pipe/ /4" NPT	thread to flan Fem_vents/dr	ge are: 1/2" NPT ains/bleeds/purc	Fem. inlet w	ith DIN IEC ts - where									CSB	3" long 316 Stainless Steel bolt11
pecifie				anio, probado, parg	90 01 1001 poi											Characteria Constant
Mater	rials														3 FS	Graphite ¹² Firesafe design ¹³
S	316/316L Stainless	s Steel	HC	Alloy C276												ptions - Needle Valves only
6MO	6MO Sup. Aust. St	.Steel	т	Titanium Gr. 2	23										RT	Regulating/Metering Tip
м	Alloy M400 ³		825	Alloy 825											ST	Stellite Tip
D1	Duplex 22 Cr. Stee		625	Alloy 625											9	PCTFE Soft Tip ¹⁴
D2	Super Duplex 25 C		С	Carbon Steel	4										PK	PEEK Soft Tip
	naterial selection down- arbon Steel consult yo			entation											•	d Valve Options ¹⁵
	-		arker repres	entation.			_								P	Blank Plug
	per of Valves/Configu		oto 8 oglibro	to/vont/drain											BV PBV	Bleed Valve/Plug Blank Plug and Bleed Valve/Plug
2 3	2-valve, block & bl 3-valve, isolate & e														Operator	5
5	5-valve, isolate a e				for DP appli	cations									HW	Handwheel
															LHW	Handwheel Locking
EXT	Mandatory designation	ator for	Base Mounte	ed Manifolds											THL	T Bar Locking
Applic	cation Configuration														AT*	Anti-Tamper ¹⁷
	Integral swivel gauge		tion - 1/2" B	SPP (HL*EXT v	ersions only)5									ATK*	Anti-Tamper with Key ¹⁸
СТ	Suitable for fiscal me	tering/c	ustody transf	fer applications	(5-valve ve	rsions only)									ATHKEY	Anti-Tamper Key ¹⁹
DTP	Downstream test por	ts - 1/4"	NPT only (3-	-valve versions	only)										Other Opt OX	Cleaned & lubricated for Oxygen use
Swive	el adaptor to the outlet	t is nrovi	ded through :	a socket weld o	nenerally cor	forming to									NC	NACE MR-01-75 Compliant
ANSI	B16.11.														M*	Assembly and Test of Free Issue Instrument
qualif and c • Unior and r • Unior	connection is a "comr fication, certification, d quoted extra – please o n nut dimensions gene nut themselves. n nut also conforms ge es to the union of nipp	locumen consult y rally cor enerally t	tation or add our local Par form to DIN o DIN EN 837	itional NDT, will ker support. 16284 as it appli 7 for the gauge o	require to be ies to the un	engineered										
	ections - Standard C															
Com		puons		Outlet		Vent/	Drain/I	Bleed/	*	Default	atondord	connection, no desig	actor required			
	Inlet	HL	Remote Sty	le HD Dir	rect Style		Purge					connection; no desig	nator required.			
*	1/2" NPT Fem.		' NPT Fem.		C B Flange		VPT Fei					ections vary, further d	esignation is required.			
4N	1/4" NPT Fem.		NPT Fem.		C B Flange		VPT Fei			xamples						
4K	1/4" BSPT Fem.		' BSPT Fem.		C B Flange		BSPT F				PP Fem. i leed = 8R	inlet, 1/2" BSPT outlet &	1/4" BSPT Fem. vent/			
4R 8K	1/4" BSPP Fem.		BSPP Fem.		C B Flange		BSPP F					inlet, DIN IEC B outlet &	1/4" NPT Fem. vent/		IMPORT	ANT NOTES:
8R	1/2" BSPT Fem. 1/2" BSPP Fem.		' BSPT Fem. ' BSPP Fem.		C B Flange C B Flange		BSPT F				eed = 8R				• For o	optimum results in integral tube connect
	1/2" NB Fem. SW ⁶		' NB Fem. S		C B Flange		VPT Fei					es with Female Socker e length as per the equ				mmended. For inverted style integral tub
	# Select from above				C A Flange		VPT Fei			nreaded						all options/combinations are available in
	onal Connections				Ŭ					Example						eserve the right to review/revise this par
				HL	H		ont/Dr	in/Bleed		 10mm A IVAM10 		verted inlet & 1/4" NPT F	em. vent/drain =			mmend the most suitable alternative par
Туре		Fitting	Unit	Remote Style			ent/Dra est/Pur		'			ed inlet & 1/4" NPT Fem	vent/drain = IVZM104F			uld your part number selection exceed 2
W	Invorted Connection			Inlet/Outlet		Outlet				 12mm A Example 		verted inlet & 6mm vent/o	drain = IVAM126			se consult your local Parker representati
	Inverted Connection Tube OD ⁷			6 6mm 10 10mm	6 6mm 10 10mm				•	10mm A	-LOK tub	e stub con. inlet & 1/4" N	IPT Fem. vent/drain =			any doubt, please consult your local Par
		A A-LC		12 12mm	12 12mm	DIN IEC Flange 4	= 1/4" N	IPT Fem	9	PFAM10		la union con inlat 9 Cmm	A-LOK vont/drain -		- 11 111	any doubt, please consult your local Par
	tube stub ⁸	Z CPI		4 1/4"		Flange 4	1/4 1	. i reni.	•	12mm A- PFCAM1		le union con. inlet & 6mn	A-LON VENT/GRAIN =			
PFC	PTFree connect		I Imperial	6 3/8"	6 3/8"				9			default standard for bl	ed/vent/drain. some			

⁹ 1/4" NPT Fem. is default standard for bleed/vent/drain, some

model types may be available with other connections.

6 3/8" 8 1/2"

8 1/2' instrument, manufactured from 316 Stainless Steel material having 1/2" NPT Fem. process inlet connections with nd packing is PTFE. instrument, manufactured from 316 Stainless Steel material having 1/2" NPT Fem. process inlet and outlet is PTFE.

instrument, manufactured from 6MO Super Aust. St. St. material having 1/2" NPT Fem. process inlet connections a 1/4" NPT Fem. downstream test con. are provided and there is Anti-tamper operating for the equalise function. instrument, manufactured from Alloy M400 CRA material having 1/4" NPT Fem. process inlet connections with nd packing is PTFE. Materials are compliant with NACE, the manifold is cleaned suitable for Oxygen service and

o instrument, manufactured from 316 St. St. material having 1/2" NPT Fem. process inlet connections with 1/2" I gauge) and 1/4" NPT Fem. vent/drain/bleed. Gland packing is PTFE and a 1/4" NPT blanking plug is provided. o instrument, manufactured in 316 St. St. material having Parker Superior Advantage fully integrated, inverted utlet, with 1/4" NPT Fem. vent/drain/bleed. Gland packing is Graphite; there is Anti-tamper operation to the

nstrument, manufactured from 316 St. St. material having Parker Superior Advantage, 12mm PTFree male tube : flange and 6mm PTFree male tube connectors to vent/drain/bleed. Gland packing is PTFE, the valves have a

¹⁰ Carbon Steel bolt as standard. No designator required.

¹¹ Extra length bolts to be specified when utilising these manifolds with Emerson Coplanar™ type transmitter with the traditional adaptor flange.

¹² Not required when Firesafe design option (FS) selected. ¹³ Not available for PCTFE Soft Tip (9) or Oxygen use (OX).

¹⁴ 3,000 PSI/207 BAR only. See catalogue page 14.

¹⁵ Plugs supplied loose in a packing box. See page 61.

¹⁶ These options can be specified to independent valves:

Add **E** to specify assembly to Equalise valve only. Add **I** to specify assembly to Isolate valves.

Add V to specify assembly to Vents/Drains/Bleeds. Examples:

• **HWV** = Handwheel to Vents/Drains/Bleeds.

• ATE = Anti-Tamper to Equalise valve.

¹⁷ Anti-Tamper operation and no Key.

¹⁸ Anti-Tamper operation and one Key supplied per manifold.

¹⁹ Specify quantity required as separate line item.

* Specify assembly and test option - see page 71.

ections on manifolds, the use of Parker pre-assembly tooling is highly tube connections the use of Parker pre-assembly tooling is mandatory. in each single product model type.

part number structure at any time. If necessary, we can refuse and/or part number(s). We may also apply MOQ rules.

25 characters in length when completed, then it is likely to be incorrect, ation for assistance.

arker representation.

Instrument Enclosure Solutions

Introduction

As either stand-alone or as complementary to the EXT style manifolds, Parker instrument enclosure solutions consist of a comprehensive range to suit a wide array of instrumentation applications. The enclosures have a shiny gel-coat external finish that is the same as used in the construction of boats and marine vessels. This enables Parker enclosures to withstand the demands of hostile environments.

Fully assembled systems can be supplied based on your specific project or site requirements. They can be fitted with various pressure or flow measuring instruments and manifolds and a host of other features and accessories.

For full details of this range and accessories see catalogue ref. 4190-ENC.

Item	Description
1	Parker Enclosure
2	Identification Label
3	Thermostat
4	Finned Space Heater
5	Viewing Window
6	Mounting Hub (for 2" NB Pipe Stand)
7	Propstay
8	Junction Box
9	Transmitter
10	Parker Manifold

11 Instrument and Signal Cable Gland

Manifolds for 2051/3051 Coplanar[™] **Transmitters**

Introduction

These are the only direct mount manifolds in the range not to comply with the IEC standard. These Parker 'integral' style manifolds are uniquely designed for connection to the non-traditional Emerson/ Rosemount[™]Coplanar[™] transmitter models and are not suitable for use with the traditional IEC compliant models of this, or other brands.

In this scenario, the assembled manifold/transmitter combination has the advantage of more compact overall dimensions and reduced weight. Typically, these assemblies are wall-mounted or mounted utilising a 2" NB pipestand.

Compatibility of the Parker integral manifold is assured, having been designed and rigorously tested with all the Emerson/Rosemount[™] Coplanar[™] transmitters, such as 2051 and 3051 models.

Recognising and understanding the Emerson specific Coplanar[™] transmitter



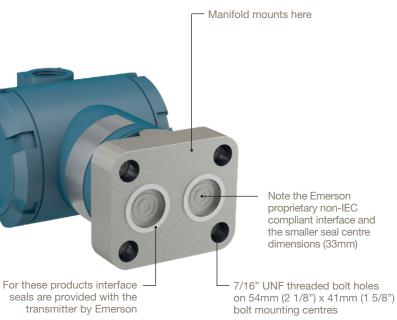


3051 DP transmitter, shown with the Emerson flange adapter in lieu of a manifold. A directly mounted Parker Coplanar[™] manifold, replaces this,

removed.



Example shown: 2-valve block and bleed direct mount manifold suitable for Emerson/Rosemount[™] Coplanar[™] transmitter with Parker Superior Advantage fully integrated inverted A-LOK[®] tube fitting connections.

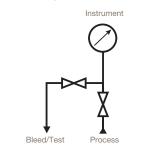


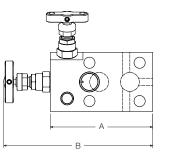
3051 DP transmitter, shown with the Emerson flange adapter

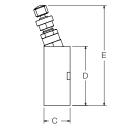
Manifolds for 2051/3051 Coplanar™ **Transmitters**

HD*2MCP - Female threaded - NPT x Flanged









HAR

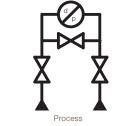
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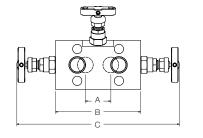
Ø

			Dimension						
Inlet	Outlet	Bleed/Test	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)		
1/2"NPT	Flanged	1/4" NPT	110.0 (4.33)	160.8 (6.33)	28.6 (1.13)	63.5 (2.50)	107.6 (4.24)		

HD*3MCP - Female threaded - NPT x Flanged



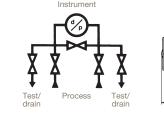


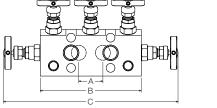


			Dimension								
Inlet (Outlet	Bleed/Test	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)			
1/2" NPT	For 3051	Optional	33.0 (1.30)	110.0 (4.33)	211.6 (8.33)	28.6 (1.13)	63.5 (2.50)	107.6 (4.24)			

HD*5MCP - Female threaded - NPT x Flanged







					Dime	nsion		
Inlet	Outlet	Bleed/Test	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)
1/2" NPT	Flanged	1/4" NPT	33.0 (1.30)	138.0 (5.43)	239.6 (9.43)	28.6 (1.13)	63.5 (2.50)	107.6 (4.24)

HD*2MCPEXT - Female threaded - NPT x Flanged



					Dimension		
Inlet	Outlet	Bleed/Test	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)
1/2"NPT	Flanged	1/4" NPT	101.6 (4.00)	151.8 (5.98)	38.1 (1.50)	114.3 (4.50)	145.5 (5.73)

HD*3MCPEXT - Female threaded - NPT x Flanged

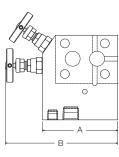


		Drain/Bleed/			Dimension		
Inlet	Outlet	Test	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)
1/2" NPT	Flanged	Optional	114.3 (4.50)	215.9 (8.50)	88.9 (3.50)	38.1 (1.50)	114.3 (4.50)

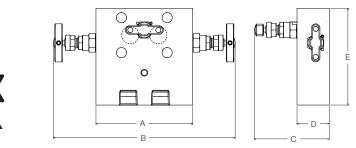
HD*5MCPEXT - Female threaded - NPT x Flanged

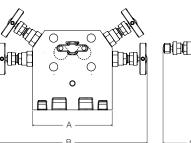


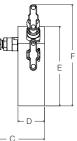
		Drain/Bleed/			Dimension			
Inlet	Outlet Test	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)	
1/2" NPT	Flanged	1/4" NPT	114.3 (4.50)	215.9 (8.50)	88.9 (3.50)	38.1 (1.50)	114.3 (4.50)	145.5 (5.73)











Manifolds for 2051/3051 Coplanar[™] **Transmitters**

Ordering information

Exan	nple 1 (Default): I	HDS5M	СР				HD	S	5	MCP				>		tock manifold for direct connection to instrument, manufact	
	nple 2: HD6MO3			ATE			HD	6MO	3	MCP	EXTDTP		3ATE		3-valve barst	compliant outlet flange and 1/4" NPT Fem. vent/drain/bleed. tock manifold suitable for base mounting and for direct com	nection to
								OIVIO			EXIDIP				process inlet	t connections and 2051/3051 Coplanar™ compliant outlet fl iti-tamper operation and 1/4" NPT Fem. vent/drain/bleed.	lange. Ma
Exan	nple 3: HDM5M0	CP4NAT	KVOXN	IC			HD	M	5	MCP		4N	ATKVOXNC	·····>	5-valve barst	tock manifold for direct connection to instrument, manufact compliant outlet flange and 1/4" NPT Fem. vent/drain/bleed.	ured from
Exan	nple 4: HDS5MC	PPFCA	M126PI	KNC			HD	S	5	MCP		PFCAM126	PKNC		valves are Ar	nti-tamper operation with key.	
								Î			Î	Î	Ť		process inlet PTFE, the va	tock manifold for direct connection to instrument, manufact t connectons with 2051/3051 Coplanar™ compliant outlet fl live complies with NACE and all valves have PEEK soft tip s	ange. Ve eating.
Serie	S						1								OPTION	S	
HD	Flat barstock o Coplanar [™] sty			ument mani	ifolds with	2051/3051									Instrumen	nt Bolt Options	
1 Defeu	, ,		0			inlat with 00E1 (00E	- 4								SB	316 Stainless Steel bolt ⁸	⁸ Ca
Coplar	It standard connection nar™ outlet flange and	s for pipe/t 1/4" NPT F	nread to fiai em. vents/d	nge are: 1/2 drains/bleed	nPTFem. Is.	inlet with 2051/305									СВ	3" long Carbon Steel bolt ⁹	۶Ex
	Ũ		0				_								CSB	3" long 316 Stainless Steel bolt ⁹	trar
Mate		0.01	110	Alley 00	20											cking Options	
S	316/316L Stainles		HC T	Alloy C2											3	Graphite ¹⁰	¹⁰ N
6MO M	6MO Sup. Aust. S Alloy M400 ²	si.Sieei	825	Titanium Alloy 82											FS	Firesafe design ¹¹	¹¹ N
D1	Duplex 22 Cr. Ste	പ	625	Alloy 62												ptions - Needle Valves only	_
D2	Super Duplex 25		023 C	Carbon											RT	Regulating/Metering Tip	
				Carbon	Oleei										ST 9	Stellite Tip	¹² 3
	naterial selection down Carbon Steel consult y			sentation											9 PK	PCTFE Soft Tip ¹²	- 3
				oontation.			_									PEEK Soft Tip d Valve Options ¹³	13 P
	ber of Valves/Config				- 1-				_						Plug/blee	Blank Plug	- ''
2	2-valve, block & b				ain										BV	Bleed Valve/Plug	
3	3-valve, isolate &				ducio feu DE	Connligations									PBV	Blank Plug and Bleed Valve/Plug	
5	5-valve, isolate, e														Operator	5	14 T
МСР	Mandatory design and 2051/3051 C					tional inlet centres	s								HW	Handwheel	A
			transmitter	rinteriace	nange										LHW	Handwheel Locking	A
	ication Configuratio														THL	T Bar Locking	A E
	Extended body base														AT*	Anti-Tamper ¹⁵	•
	Suitable for fiscal me					ve versions only									ATK*	Anti-Tamper with Key ¹⁶	•
DTP	Downstream test po	rts. 3-valv	e versions	only. 1/4"	NPT only										ATHKEY	Anti-Tamper Key ¹⁷	¹⁵ Ai
Conr	nections - Standard	Options													Mounting		¹⁶ A ¹⁷ S
	Inlet	Outle	t	V	ent/Drain/	Bleed/Test/Purge	e								BK	Assembled with Carbon Steel bracketry & bolts	¹⁸ M
*	1/2" NPT Fem.	2051/	3051 Copla		/4" NPT Fe					d connecti	ion; no designat	tor required. Examp	les: HDS2MCP,		BKS	Assembled with Stainless Steel bracketry & bolts	
4N	1/4" NPTFem.		3051 Copla		/4" NPT Fe			DS5CPE							Other Opt	tions	
4K	1/4" BSPT Fem.		3051 Copla		/4" BSPT F							gnation is required. '4" NPT Fem. vent/dra			ОХ	Cleaned & lubricated for Oxygen use	
4R	1/4" BSPP Fem.		3051 Copla		/4" BSPP F		1/2	2 DOPPF	əm. (r	net, 2001/3U	5 i Copianar & I/				NC	NACE MR-01-75 Compliant	
8K	1/2" BSPT Fem.		3051 Copla		/4" BSPT F										M*	Assembly and Test of Free Issue Instrument	* Sp
8R	1/2" BSPP Fem.		3051 Copla		/4" BSPP F		4.0			han a statute m		A/-1-1					
	1/2" NB Fem. SW⁴	2051/	3051 Copla	anar 1/	/4" NPT Fe	m.					emale Socket v t NPT pipe threa	Veld connections w aded variants	III be of the same				
	onal Connections					Vent/Drain/		Examples		oquivalon							
Туре	Inverted Connection	Fitting	Unit	Inlet	Outlet	Bleed/Test/Purg	ge •	10mm A-I	OK in			. vent/drain = IVAM10 nt/drain = IVZM104F					
	Tube OD ⁵		M Metric	6 6mm 10 10mr	TI 2051/						& 6mm vent/drai						
	PTFree connect	A A-LOK		12 12mr			7 ⁶ E	Examples									
	tube stub ⁶ PTFree connect	Z CPI	I Imperia	4 1/4" al 6 3/8"	Coplanar	, 4F 1/4" NPT Ferr	• •					Fem. vent/drain = PF LOK vent/drain = PF					
	male union6			8 1/2"						s default st other conne		l/vent/drain, some m	odel types may				

IMPORTANT NOTES:

- Not all options/combinations are available in each single product model type.
- We reserve the right to review/revise this part number structure at any time. If necessary, we can refuse and/or recommend the most suitable alternative part number(s). We may also apply MOQ rules.
- please consult your local Parker representation for assistance.
- If in any doubt, please consult your local Parker representation. •

rom 316 Stainless Steel material having 1/2" NPT Fem. process inlet connections with 2051/3051 d packing is PTFE. to instrument, manufactured from 6MO Super Austenitic St. St. material having 1/2" NPT Fem. Manifold also has 2 1/4" NPT Fem. downstream test ports. Gland packing is Graphite and the equalise rom Alloy M400 CRA material having 1/4" NPT Fem. process inlet connections with 2051/3051 d packing is PTFE, materials comply to NACE; manifold is cleaned suitable for oxygen service and vent rom 316 St. St. material having Parker Superior Advantage 12mm A-LOK PTFree male union style Vent/bleed/drain connections are also PTFree male union style but of 6mm size. Gland packing is

³Carbon Steel bolt as standard. No designator required. Extra length bolts to be specified when utilising these manifolds with Emerson Coplanar™ type ransmitter with the traditional adaptor flange.

Not required when Firesafe design option (FS) selected. ¹ Not available for PCTFE Soft Tip (9) or Oxygen use (OX).

² 3,000 PSI/207 BAR only. See main catalogue page.

³ Plugs supplied loose in a packing box. See page 61.

These options can be specified to independent valves:

Add E to specify assembly to Equalise valve only.

Add I to specify assembly to Isolate valves. Add V to specify assembly to Vents/Drains/Bleeds.

Examples:

• HWV = Handwheel to Vents/Drains/Bleeds.

• ATE = Anti-Tamper to Equalise valve.

⁵ Anti-Tamper operation and no Key.

Anti-Tamper operation and one Key supplied per manifold.

⁷ Specify quantity required as separate line item.
 ⁸ Mounting Options available on EXT option.

Specify assembly and test option - see page 71.

• For optimum results in integral tube connections on manifolds, the use of Parker pre-assembly tooling is highly recommended. For inverted style integral tube connections the use of Parker pre-assembly tooling is mandatory.

Should your part number selection exceed 25 characters in length when completed, then it is likely to be incorrect,

Manifolds for 2051/3051 Coplanar™ **Transmitters**

Brackets for direct mount manifolds

Brackets for 2, 3 and 5-valve direct mount manifolds - BKT3

- Universal manifold mounting bracket, suitable for all direct mount manifolds •
- This bracket design enables horizontal or vertical instrument positioning.





Image shown: Part No.: HDS2MCPBK





Image shown: Part No.: HDS5MCPBK

Essential Manifold Accessories

Introduction

To complement the entire manifold range and provide complete solutions for all applications, Parker offers the following accessory products. These are in addition to the wide range of brackets and mounting solutions found elsewhere in this catalogue (see pages 34, 40, 48, 49, 60).

Parker can also offer a diverse portfolio of tube fitting solutions and other products, all manufactured to the same exacting standards. Please consult your local Parker representative for further details and information.

Pressure Blanking Plug (Code HPH)

Threaded high quality pressure blanking plug used in manifolds for the blanking off the vent/drain/bleed/test calibration ports, but also available separately for use where any female port requires to be closed off. Other thread type and sizes may be available.

Ordering information:

Size	Part Number	N	/ ater	ials		
1/4"	HPH*4M	S	5	316/316L Stainless Steel	HC	Alloy C276
1/2"	HPH*8M	6	OM	6MO Sup. Aust. St.Steel	Т	Titanium Gr. 2
* Specify materia	1	N	Λ	Alloy M400	825	Alloy 825
Specily materia	I	D	D1	Duplex 22 Cr. Steel	625	Alloy 625
		D	02	Super Duplex 25 Cr. Steel		

Pressure Bleed Plug (Code HBV)

Threaded high quality pressure blanking plug, incorporating bleed screw and directional spout; widely used directly in association with the manifolds for the closure of vent/drain/bleed/test calibration ports, but allows the safe & controlled bleed/vent of enclosed process media. These compact bleed plugs are also available separately for use where any female port requires to be closed off and enclosed media is required to be bled off or vented.

The bleed screw itself is captive within the plug, cannot be removed and cannot be ejected in proper use.

Other thread type and sizes may be available.

Ordering information:

Size	Part Number	Mate	rials		
1/4"	HBV*4M	S	316/316L Stainless Steel	HC	Alloy C276
1/2"	HBV*8M	6MO	6MO Sup. Aust. St.Steel	Т	Titanium Gr. 2
Crossific mostori		М	Alloy M400	825	Alloy 825
Specify materi	a	D1	Duplex 22 Cr. Steel	625	Alloy 625
		D2	Super Duplex 25 Cr. Steel		

Compact Gauge Syphon

A discrete range of compact gauge syphons available in 1/2" NPS only please consult your local Parker support.



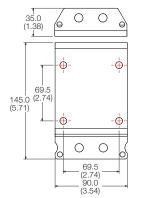


Image shown: Part No.: BKT3SSB2

How to order:

	Part	Number	Suitable for M	Manifold Type
Item	Bracket material: Carbon Steel	Bracket material: Stainless Steel	2-valve	3 & 5-valve
Bracket with M8 'U' Bolts and manifold Bolt Kit (Nuts and washers: M10 x 12 Bolt (2-OFF)	BKT3CSB2	BKT3SSB2	HD*2MCP	HD*3MCP HD*5MCP







Essential Manifold Accessories

Swivel Gauge Adaptors

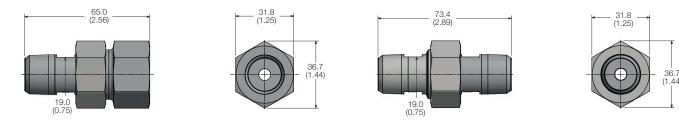
Parker's range of swivel gauge adaptors has been designed to provide 360° rotational movement enabling maximum positional orientation of installed gauges and measuring instruments. A fully contained sealing mechanism ensures total system integrity and offers the user up to 10.000 psig (690 barg) working pressure. Silver plated swivel nut thread and bearing area prevent threat galling of stainless steel threads and allow trouble free repeatable re-assembly.

Features

- Specification
- Silver plated swivel thread and bearing surface to • prevent thread galling and maximising re-make opportunities
- Variety of thread options •
- Compact design •
- Fully contained and retained sealing mechanism •



- Available in materials listed below. The nut as • standard is 316 Stainless Steel.
- Maximum pressure rating: 6,000 psig (414 barg) •
- Maximum temperature rating: 260°C (500°F) •
- Fully heat code traceable •



Ordering information:

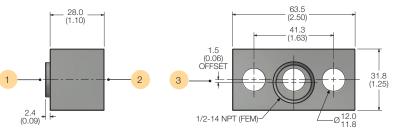
Exar	nple 1: SGS8M8F3HP					SG	S	8M8F	3HP
Exar	nple 2: SGS8RDM8RFI	NC				SG	S	8RDM8RF	NC
						A		A	
Series	3								
SG	Swivel gauge adaptor								
Mater	ials								
S	316/316L Stainless Steel	1	нс	Alloy C276					
6MO	6MO Sup. Aust. St.Steel	-	т	Titanium Gr. 2					
М	Alloy M400	8	825	Alloy 825					
D1	Duplex 22 Cr. Steel	(625	Alloy 625					
D2	Super Duplex 25 Cr. Steel ¹								
Conn	ections - Standard								
	Inlet			Outlet					
4M	1/4" NPT Male	4F	•	1/4" NPT Fem.					
6M	3/8" NPT Male	6F	;	3/8" NPT Fem.					
8M	1/2" NPT Male	8F	•	1/2" NPT Fem.					
4M	1/4" NPT Male	4M		1/4" NPT Male					
6M	3/8" NPT Male	6M	;	3/8" NPT Male					
8M	1/2" NPT Male	8M		1/2" NPT Male					
	Connection Options								
*#F	em. connection				* Insert size designate				
*# M	Vale connection				# Insert specification	designator (K/R/RD).		
	K BSPT BS21, ISO7/1 - Br								
	R BSPP BS2779 - British S								
	RD DIN 16284/16288/EN837	BSPF	r gai	uge connection type					
Optio					1 -+				
3	Graphite Seal option ¹				¹ Interface seal materi	ai PIFE as s	standard. (araphite seal option	ai.
HP	High Pressure 10,000 PSI of	option							
NC	NACE option								

Instrument Flange Adaptors (Kidney/Oval Flanges)





Example shown with traditional 1/2" NPT Fem. connection.



connection.

Example of the instrument flange adaptor with 1.5mm offset connection (Code OS) which accommodates variation of impulse line centres between 51-57mm.

Ordering information:

Example 1: HKSM12ASB3 Example 2: HK6MOIM12ASB3 Example 3: HKD18FOSSB Example 4: HKSBW83 Example 5: HK625BW8AXSB3

Series								
HK	Kidney/	oval flang	je					
Materia	als							
S	316/316	L Stainle	ss Ste	el	HC	AI	loy C276	
6MO	6MO Su	p. Aust. S	St.Ste	el	т	Tit	tanium Gr. 2	
М	Alloy M4	100			825	Al	loy 825	
D1	Duplex 2	22 Cr. Ste	eel1		625	Al	loy 625	¹ Not available
D2	Super D	uplex 25	Cr. St	eel1				
Conne	ctions							
4F	1/4" NF	PT Fem.	I4A		1/4" A-	LO	K Inverted	
6F	3/8" NF	PT Fem.	I6A		3/8" A-	LO	K Inverted	
8F	1/2" NF	PT Fem.	I8A		1/2" A-	LO	K Inverted	
4 A	1/4" A-	LOK ²	IM6	4	6mm A	-LC	OK Inverted	² For CPI [™] ch
6A	3/8" A-	LOK ²	IM10)A	10mm /	A-L	OK Inverted	
8A	1/2" A-	LOK ²	IM12	2A	12mm /	A-L	OK Inverted	
M6A	6mm A	-LOK ²						
M10A	10mm	A-LOK ²						
M12A	12mm	A-LOK ²						
Butt W	eld - Pip	e						
Ту	ре	Size	Ð		chedule nicknes		Extension	
BW Bu	tt Weld	4 1/4" N 6 3/8" N 8 1/2" N 12 3/4"	IB IB	* { A	Sch.80 Sch.160 Sch.XXS	,	* 25mm Y 75mm X 100mm	* No designato
Option	S							
OS	Offset	1.5mm o	ption ³					³ Offset option
SB		ss Steel I		ptio	n⁴			line centres be
3		te Seal o	ption⁵					⁴ Bolt material IEC 61518.
NC	NACE	option						⁵ Interface sea
	NOTES							IEC 61518 Typ

OTHER NOTES:

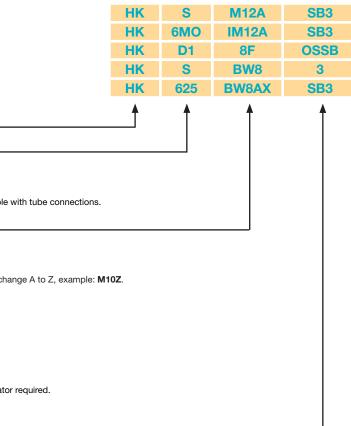
- Tube connection selection as per Parker recommended tube guides.
- Flange interface connection to DIN IEC 61518 Type A.
- Inverted A-LOK® connections supplied with Socket Cap Head bolts. All other connections supplied with Hex Head bolts.
- Not all options/combinations are necessarily available in each single product model type. Care should be taken to consult the main catalogue. If in doubt, please consult your local Parker representation.

Example shown with integral A-LOK®



Example shown with inverted integral A-LOK® connection.

Item	Description
1	IEC A connection to manifold
2	1/2" NPT Fem. connection to process inlet
3	1.5mm (0.06") offset



on only available on Fem. threaded connection; accommodates variation of impulse between 51-57mm. See diagram above. al as standard HT Carbon Steel. Stainless Steel optional. Both in accordance with

eal material PTFE as standard. Graphite seal optional. Both in accordance with DIN ype A.

Other Manifold Products

Introduction

Proportional Relief Valves - HPRV Series

This range of exceptional Pressure Relief Valves (HPRV) provides an automatic protection mechanism for process instrumentation systems. CE-marked and certified to the highest Category-IV level of the Pressure Equipment Directive (PED), the HPRV valve's design provides users with accurate and consistent cracking and resealing operation. For full details see Catalogue ref. 4190-HPRV.

Check Valves - Hi-Check Series

These rugged high performance non-return valves offer the user a cold working pressure rating up to 10,000 psi. The true metal-sealed twopiece design ensures potential leakage points are kept to a minimum.

As with our manifold range, we can offer the Parker Superior Advantage of integral tube connections. This further avoids system contamination, reduces potential leakage, weight, space and installation cost.

For full details see Catalogue ref. 4190-CV.



Needle Valves 20,000 PSI

This highest performing H-Series needle valve has been purpose designed for operation with any fluid up to 20,000 psi (1379 bar) rating. Complete with standard PTFE gland packing and non-rotational tip, it gives the user assurance of total in-service sealing security.

100% repeatable bubble tight shut off and Tru-Loc® gland adjuster security are key features of this design. A range of end connections is offered and includes the innovative Phastite® ferrule-less tube fitting or the market-leading Parker Autoclave Medium Pressure Cone & Thread the ultimate Parker Superior Advantage combination. Additional options include NACE compatibility and heat code traceable materials.

For full details see Catalogue ref. 4190-HH/20K.

Large Bore Needle Valves

Another rugged high performer, this safe, reliable product was developed to operate across a wide pressure and temperature range, in dirty or hydrate service conditions. This Large Bore Needle / Globe Isolation Valves provide reliable bubble tight isolation, with significantly reduced risk of blocking compared to conventional needle valves. This full 1/2" (12.7mm) bore metal seated globe style needle isolation hand valve is available in 316L Stainless Steel or Duplex materials. It complies with ASME VIII ASME/ANSI B16.34 piping class specifications and is ruggedly constructed with a bolted body & bonnet interface. For full details see Catalogue ref. 4190-HH/LBV.



Distribution Manifolds - HCDM Series

Based exclusively around the H series needle valve design, this compact distribution manifold offers operating pressures up to 6,000 psi for a wide selection of process media. It is available as standard in 316L Stainless Steel material with five or ten outlets, and is ideal for use where high performance is required and space is limited. Bore size through the valves is 4mm as standard: operation is with anti-tamper key, which further enhances the compact design.

For full details see Catalogue ref. 4190-DM.

Distribution Manifolds - HDM

Based entirely around the H-series complete bonnet assemblies, this distribution manifold offers operating pressures up to 6.000 psi for a wide selection of process media. It is available as standard in 316L Stainless Steel material and offers a choice of outlets from 4 to 20. Bore size through the valves is 4mm.

For further details consult your local Parker support.

Condensate Pots

Primary used to increase the accuracy of flow measurement in steam pipelines, these condensate pots provide an interface between the vapour phase and the condensed phase in the impulse lines. These condensate pots are available in a range of materials and have been designed in accordance with ASME VIII Div 1, and are produced in an ASME coded workshop. All condensate pots are CE-marked to PED 2014/68/EU for use with Group 2 gases. Typical industry applications include: refineries, power plants, chemical and petrochemical, steel plants and other process industries.

For full details see Bulletin ref. 3010-CP.

Close Coupled Instrument Mounting Systems - CCIMS

These ultimate complete manifold system solutions have been developed to meet constant demand for higher performance in flow measurement. They represent a standardised, yet radical breakthrough for direct coupling of pressure transmitters to pipelines. CCIMS offers the following benefits:

- Reduced installation
- Reduced ownership cost •
- Increased safety •
- Lower maintenance ٠

Dramatically increased process measurement accuracy. • For full details see Catalogue ref. 4190-CCIMS.









Customer Specific Manifold Solutions

Introduction

This catalogue describes the most versatile and comprehensive range of instrumentation manifolds available on the market today. We also understand certain customers and projects can often require custom solution to suit particular needs and we welcome requests in this regard for our consideration. In some circumstances, this can result in an entirely bespoke product range and catalogues. We are pleased to present the following examples.



Shell

As an EFA (Enterprise Frame Agreement) holder to Shell, we offer a complete range of manifolds and accessories, including all components for the Shell modular mounting system, fully conforming to the Shell MESC (Material and Equipment Standards and Code) specifications. For fully detailed information please refer to Catalogue ref. 4190-MESC or contact your local Parker representation.













Catalogue ref. 4190-MESC

Shell MESC Compliant Slimline Monoflange, Monoflange (Ball) and Instrument Manifolds EFA: PT3740

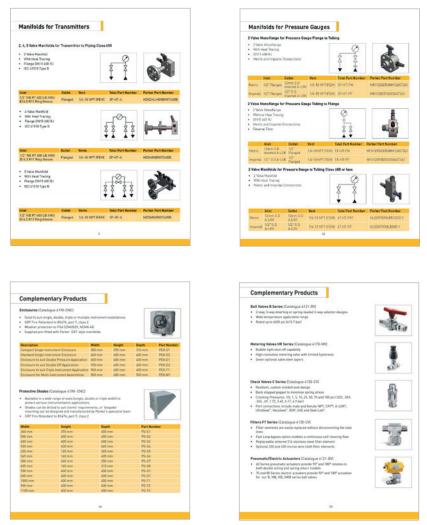
Total Refining and Chemical

Totally compliant to Total RC's Contract GLOB-0560 and featuring innovative leak-free technologies through the use of Parker Superior Advantage integral tube fitting connections, as well as all welded flanged assemblies, we are proud to offer this unique manifold solutions range and all necessary associated equipment and accessories. These product solutions save significant engineering and installation costs for this demanding user of process instrumentation systems. For fully detailed information please refer to Catalogue ref. 4190-Total or contact your local Parker representation.



				Seals
irect Mount Seal - Gra	phite			
IEC-11518			-17.	and the second
Type B direct mount se Graphite for manifold r	ral without an	Nended spigot	F	1 CY
PTFE option available				77 33
lyse Mount	Desc	ription		Parker Part Number
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ECB Direct	62 M	Institute PTFE	Packing	HECODI-PTEE/1
Bett		Service	Part Number	and the second second
ligraphite seal			HEORI-GRAPHITE/I	Order desired QTY
1 PTFE seal		OF SERVICE	HECIOI-PTFE/1	Order desired QTY
loolating valve and acces with graphite seals	sories	HOSERVICE	HBNTSISORP	31855 / T-Bar Isolate/ Blue Cap / GRAPHITE
toolating value and access with PTFE seals	sories	OF SERVICE	HENTSISPTE	11655 / T-Bar Isolate / Dice Cap / PTEE
Drain value and accessor	es.	HC SERVICE	HENTSCREEKT	31655 / Anti-tamper / Red Vent Sticker / GRAPHITE / No AT Key
Drain value and accessor	es.	D' SERVICE	HENTSORPTFEAT	11655 / Anti-temper / Red Vent Sticker / PTFE / No AT Key
Equalizing value and acce	escries	HOSERACE	HENTSEOGRFAT	11655 / Anti-temper / Oreen Equalise Sticker / ERAPHITE / No.AT Key
Equalizing value and acce	asonies.	OF SERVICE	HENTSEOPTERT	316557 Anti-tamper / Green Equation Sticker / PTFE / No AT Key
Bolting / Fastenings for 4 heads manifold for trans correction			PH582 2INCH25/1 H BOLT-378-1 82-554	For 1.5" THC manifolds For 1.825" & 1.25" THC manifolds Order desired QTY
Bolting / Fastenings for 2 heads manifold for trans correction	niter		PH682-31ND-6521 H-BOLT-3711-132-554	For 1.5" THK manifolds For 1.825" & 1.25" THK manifolds Order desired QTY
Anti-tamper equipment			ATHERN	Anti-Tamper key
Manifold for electrical trac	ing 90 mm		Heater 2HDS2	
Manifold for electrical tracin	a Stiff prior		Heater SHDIS	

Parker



Catalogue ref. 4190-Total Manifolds Class 600 and 1500. Total RC THR RC INS 920. Contract: GLOB-0560



Complementary Products for Complete Installation Solutions

Modular Valves - Pro-Bloc[®] Series

Designed to replace conventional multiple-valve installations currently in use for process measurement interfaces, these single-piece products combine multiple valve types into a single manifold. Potential leak paths are reduced and the mass of the system is lowered, reducing the stresses from loading and vibration. Additionally, these products also improve installation and operational safety factors, together with positive installation cost savings.



For full details see Catalogue ref. 4190-FP.

Monoflange Manifolds

More compact than Pro-Bloc[®] and adding to further space and weight saving, these monoflanges have primary, secondary and bleed valves assembled on the periphery of the flange. The manifold body can incorporate both O.S.&Y. and instrument needle valves as a mixture or all of the same type. These monoflanges are available from forged or bar stock material and can be certified as being of Firesafe design.

For full details see Catalogue ref. 4190-FP.

Ball Valves and Manifolds Hi-Pro Series

These high performance bi-directional Ball Valves & Manifolds offer the user full cold working pressure ratings up to 10,000 psi (689 bar), giving 100% bubble tight shut off and continuous repeatable performance. These products are suitable for the most demanding applications in the oil, gas and process control industries. All valves also meet the requirements of ANSI B31.1 for use in power plants. The design reduces potential body leakage paths to a minimum. With the added opportunity to select Parker Superior Advantage integral compression ends the user can eliminate the use of taper threads and thread sealant, thus avoiding system contamination, reducing leakage paths, installation costs, weight and space.

For full details see Catalogues ref. 4190-HBV and 4190-HBM.

Air Header Distribution Manifolds - LPAHM Series

These air header distribution manifolds are designed to distribute air from the compressor to the actuators on pneumatic instruments, such as steam flow meters, pressure controllers and valve positioners. They are widely used in industrial chemical processing, plastic processing and energy industries and are approved for low pressure applications up to 275 psi. Manufactured from AISI 316 Stainless Steel material, the air header distribution manifolds offer complete customer system compatibility that reduces installation time and potential leak paths. The coded welded construction with non-destructive tested design minimises the number of potential leak paths, rather than fabricating with instrumentation connections with tubing, therefore reducing labour costs. These manifolds are designed for use with air only and are supplied with a number of lockable ball valves on opposite sides, right side or left side only to prevent unauthorized access. For full details see Catalogue ref. 4190-DM.





Air Header Distribution Manifolds - HPAHM Series

These distribution manifolds are designed for applications that use liquid or gas, low temperature steam and hydraulic actuation. The pressure rating of these manifolds is dictated by the inlet/outlet Flange Class or the thread connection. These distribution manifolds feature an ergonomic vinyl sleeve on the valve handle to provide positive grip and to ensure ease of operation. Each nut has an innovative domed design, which prevents ingress of moisture and contamination of the thread, therefore preventing corrosion. They feature a part-welded construction, with all welds carried out by coded welders, providing assurance of their robustness and performance. These manifolds are NDT (Non-Destructive Testing) applied, giving the customer greater assurance. For full details see Catalogue ref. 4190-DM.

Hi-Pro Modular Distribution Manifold

Unique to Parker, these manifolds are the ideal choice when ultimate flexibility is required within a distribution manifold. They are approved to operate at pressures up to 6,000 psi and are used extensively in the oil, gas, chemical and petrochemical industries to provide safety and performance. These innovative Hi-Pro modular distribution manifolds can be easily arranged in a layout to suit a wide range of different applications to distribute liquid or gas. They use standard components, therefore making it more affordable for the customer. The Hi-Pro modular distribution manifolds feature an ergonomic vinyl sleeve on the valve handle to provide positive grip and to ensure ease of operation. Each nut is domed in shape, which prevents ingress of moisture and contamination of the thread, which could cause corrosion. This manifold is available with up to 20 valves (even numbers only - spare valves can be blanked off). Temperature range is up to 232°C with PEEK seats. For full details see Catalogue ref. 4190-DM.

Lapped Joint Tube Adaptor

Available in the full range of fitting materials and sizes up to 1/2" (M12) as standard, these lapped joint tube adaptors are suitable for applications involving small flanged process valves and offer a simple, safe and effective conversion to instrument lines.

Flange Connector - Flange to Parker Tube Fittings

Offered in a range of materials and with either A-LOK[®] or CPI[™] tube fitting technology, these flange connectors deliver huge flexibility in terms of offering. Tube connections up to 1" (25mm), flange connections up to 2" NB and pressures to ANSI Class 2500 (6,000 PSI Nom.). The one-piece integral connection adaptors allow the safe, easy and efficient transition from process to instrumentation in just one step.









Complementary Products for Complete Installation Solutions

Parker Tube Ended Pressure Gauges

Parker Tube Ended Pressure Gauges monitor vacuum, compound, and positive system pressures up to 1000 psig. Available in lower mount and center back mount configurations, these 360°-positionable gauges are perfect for applications where space is at a premium. Not only do our Tube Ended Gauges do away with additional fittings, they completely eliminate the need for tape and sealants, making installation cleaner and quicker.

For full details see Bulletin ref. 4150-TEG.

Baumer Safety Pressure Gauges

Baumer's safety pressure gauge MEP5 is specially designed for use in corrosive atmospheres and fluids. The gauge has a diameter of 100 mm and can measure pressures from -1...0 to 0...1600 bar at gauge working temperatures of -20...70 °C. The MEP5 has a stainless-steel housing, sensing element, and fully welded process connection. It complies with protection class IP67.

For further details consult your local Parker support.





Added Value Service Solution for Complete Installations

Assembly and Test of Free Issue Instrument

In addition to the added value service of bracket assembly to our manifolds, Parker also offers to fit and/or test your free issue transmitter to the manifold of your choice.

Certification for the assembly will be provided.

Standard test to Parker specifications is a 6 Barg air test for 1 minute.

Ordering information:

Assembly and Test of Free Issue Instrument - Available Opt	
M1	BSPP Pressure instrument assembled - Customer to supp
M2	BSPP Pressure instrument assembled and air tested at 6
M3	NPT Pressure instrument assembled with PTFE tape
M3G	NPT Pressure instrument assembled with Higher Tempera
M4	NPT Pressure instrument assembled with Loctite sealant i
M4*	NPT Pressure instrument assembled with requested seala
M5	NPT Pressure instrument assembled with PTFE tape and a
M5G	NPT Pressure instrument assembled with Higher Tempera
M6	NPT Pressure instrument assembled with Loctite sealant i
M6*	NPT Pressure instrument assembled with requested seala
M7	IEC flanged Pressure instrument assembled
M8	IEC flanged Pressure instrument assembled and air tested
M9	IEC flanged Differential Pressure instrument assembled
M10	IEC flanged Differential Pressure instrument assembled an

M1 PC Returned in customer's packing at customer's risk

PP Returned in Parker packing

* Quote required. To be determined at quotation stage.

Example: HDS3MNCM10PC

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ply seal ring Barg to Parker specification for 1 minute - Customer to supply seal ring

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and air tested at 6 Barg to Parker specification for 1 minute

/! WARNING USER RESPONSIBILITY

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No other claims against Seller will be allowed unless asserted in writing within 60 days after delivery or, in the case of an alleged breach of warranty, within 30 days after the date within the warranty period on which the defect is or should have been discovered by Buyer. Any action based upon breach of this agreement or upon any other claim arising out of this sale (other than an action by Seller for any amount due to Seller from Buyer) must be commenced within thirteen months from the date of tender of delivery by Seller or, for a cause of action based upon an alleged breach of warranty, within thirteen months from the date within the warranty period on which the defect is or should have been discovered by Buyer.

6. LIMITATION OF LIABILITY. UPON NOTIFICATION, SELLER WILL, AT ITS OPTION, REPAIR OR REPLACE A DEFECTIVE PRODUCT. OR REFUND THE PURCHASE PRICE. IN NO EVENT SHALL SELLER BE LIABLE TO BUYER FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR AS THE RESULT OF. THE SALE. DELIVERY. NON-DELIVERY. SERVICING, USE OR LOSS OF USE OF THE PRODUCTS OR ANY PART THEREOF, OR FOR ANY CHARGES OR EXPENSES OF ANY NATURE INCURRED WITHOUT SELLER'S WRITTEN CONSENT, EVEN IF SELLER HAS BEEN NEGLIGENT. WHETHER IN CONTRACT. TORT OR OTHER LEGAL THEORY. IN NO EVENT SHALL SELLER'S LIABILITY UNDER ANY CLAIM MADE BY BUYER EXCEED THE PURCHASE PRICE OF THE PRODUCTS.

7. Contingencies. Seller shall not be liable for any default or delay in performance if caused by circumstances beyond the reasonable control of Seller.

8. User Responsibility. The user, through its own analysis and testing, is solely responsible for making the final selection of the system and Product and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application and follow applicable industry standards and Product information. If Seller provides Product or system options, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the Products or systems.

9. Loss to Buyer's Property. Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which become Buyer's property, may be considered obsolete and may be destroyed by Seller after two consecutive years have elapsed without Buyer placing an order for the items which are manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control.

10. Special Tooling. A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture Products.

Such special tooling shall be and remain Seller's property (30) days written notice of termination. In addition, Seller may notwithstanding payment of any charges by Buyer. In no by written notice immediately terminate this agreement for event will Buyer acquire any interest in apparatus belonging the following: (a) Buyer commits a breach of any provision of to Seller which is utilized in the manufacture of the Products, this agreement (b) the appointment of a trustee, receiver or even if such apparatus has been specially converted or custodian for all or any part of Buyer's property (c) the filing of adapted for such manufacture and notwithstanding any a petition for relief in bankruptcy of the other Party on its own charges paid by Buyer. Unless otherwise agreed, Seller shall behalf, or by a third party (d) an assignment for the benefit of have the right to alter, discard or otherwise dispose of any creditors, or (e) the dissolution or liquidation of the Buyer. special tooling or other property in its sole discretion at any 18. Governing Law. This agreement and the sale and time.

11. Buyer's Obligation; Rights of Seller. To secure payment of all sums due or otherwise, Seller shall retain a security interest in the goods delivered and this agreement shall be deemed a Security Agreement under the Uniform Commercial Code. Buyer authorizes Seller as its attorney to execute and file on Buyer's behalf all documents Seller deems necessary to perfect its security interest. Seller shall have a security interest in, and lien upon, any property of Buyer in Seller's possession as security for the payment of any amounts owed to Seller by Buyer.

12. Improper use and Indemnity. Buyer shall indemnify, defend, and hold Seller harmless from any claim, liability, damages, lawsuits, and costs (including attorney fees), whether for personal injury, property damage, patent, trademark or copyright infringement or any other claim, brought by or incurred by Buyer, Buyer's employees, or any other person, arising out of: (a) improper selection, improper application or other misuse of Products purchased by Buyer from Seller; (b) any act or omission, negligent or otherwise, of Buyer; (c) Seller's use of patterns, plans, drawings, or specifications furnished by Buyer to manufacture Product; or (d) Buyer's failure to comply with these terms and conditions. Seller shall not indemnify Buyer under any circumstance except as otherwise provided.

13. Cancellations and Changes. Orders shall not be subject to cancellation or change by Buyer for any reason. except with Seller's written consent and upon terms that will indemnify, defend and hold Seller harmless against all direct, incidental and consequential loss or damage. Seller may change product features, specifications, designs and availability with notice to Buyer.

14. Limitation on Assignment. Buyer may not assign its rights or obligations under this agreement without the prior written consent of Seller.

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17. Termination. This agreement may be terminated by Seller for any reason and at any time by giving Buyer thirty delivery of all Products hereunder shall be deemed to have taken place in and shall be governed and construed in accordance with the laws of the State of Ohio, as applicable to contracts executed and wholly performed therein and without regard to conflicts of laws principles. Buyer irrevocably agrees and consents to the exclusive jurisdiction and venue of the courts of Cuyahoga County, Ohio with respect to any dispute, controversy or claim arising out of or relating to this agreement. Disputes between the parties shall not be settled by arbitration unless, after a dispute has arisen, both parties expressly agree in writing to arbitrate the dispute.

19. Indemnity for Infringement of Intellectual Property Rights. Seller shall have no liability for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this Section. Seller will defend and indemnify Buyer against allegations of infringement of U.S. patents, U.S. trademarks, copyrights, trade dress and trade secrets ("Intellectual Property Rights"). Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on an allegation that a Product sold pursuant to this Agreement infringes the Intellectual Property Rights of a third party. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of such allegations of infringement, and Seller having sole control over the defense of any allegations or actions including all negotiations for settlement or compromise. If a Product is subject to a claim that it infringes the Intellectual Property Rights of a third party, Seller may, at its sole expense and option, procure for Buyer the right to continue using the Product, replace or modify the Product so as to make it noninfringing, or offer to accept return of the Product and return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller shall have

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