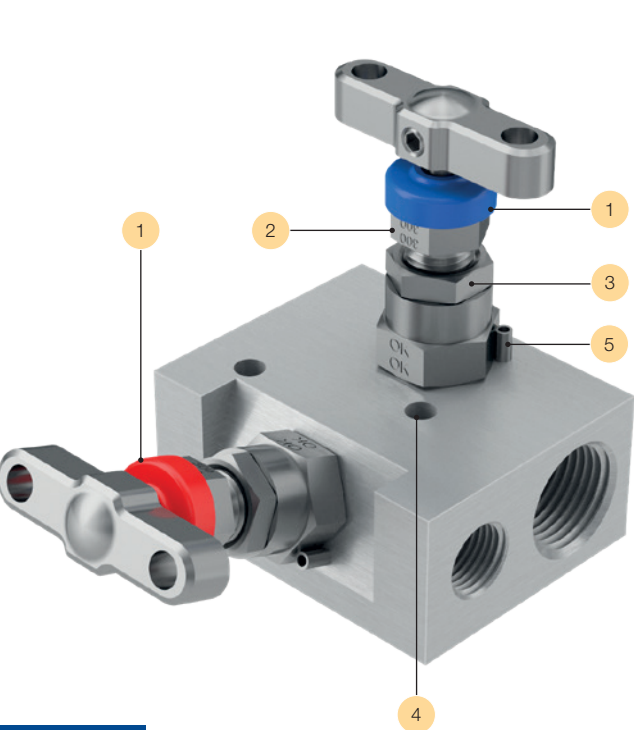


2-Valve Manifolds - H Series

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.



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

- BLUE

Isolate/block
- RED

Drain/vent/test

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.

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 your local Parker support.

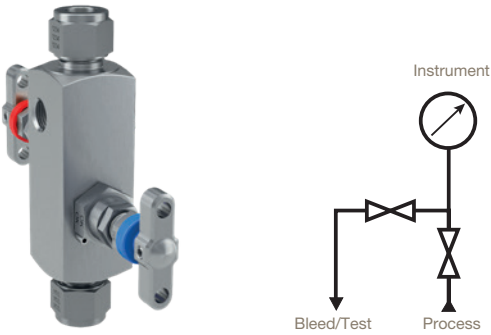


Example shown is application is use. HAL*WG 2-valve remote/line mount gauge valve manifold assembled to a Gauge Pressure Transmitter through the integral Swivel Adaptor described on page 31. A Parker Superior Advantage for flexibility of application in use.

2-Valve Manifolds - HNL Series

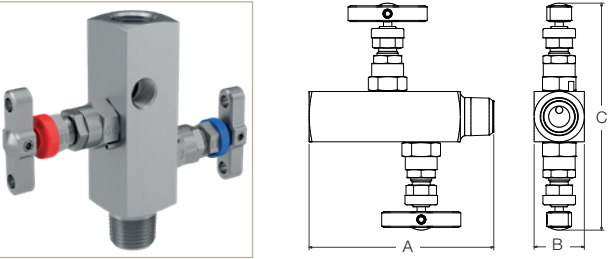
Remote/line mount - long pattern

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.



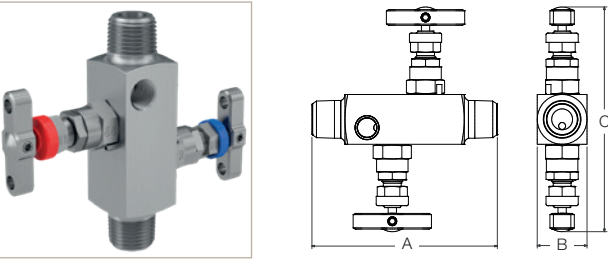
Example shown: 2-valve integral block and bleed manifold with integral A-LOK® connections.

HNL*2V - Male x Female threaded - NPT



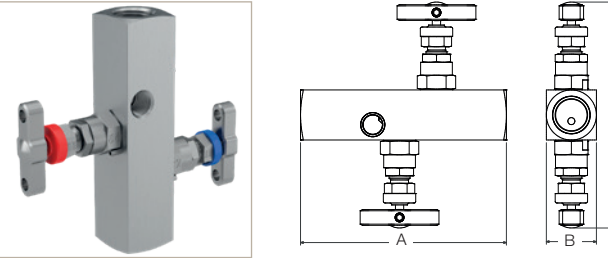
Pressure (PSI)	Inlet	Outlet	Vent	Dimension		
	NPT	NPT	NPT	A mm (inch)	B mm (inch)	C mm (inch)
6,000	1/2" M	1/2" F	1/4" F	105.0 (4.13)	28.6 (1.13)	130.2 (5.13)
10,000	1/2" M	1/2" F	1/4" F	136.7 (5.38)	31.8 (1.25)	133.4 (5.25)

HNL*2V - Male x Male threaded - NPT



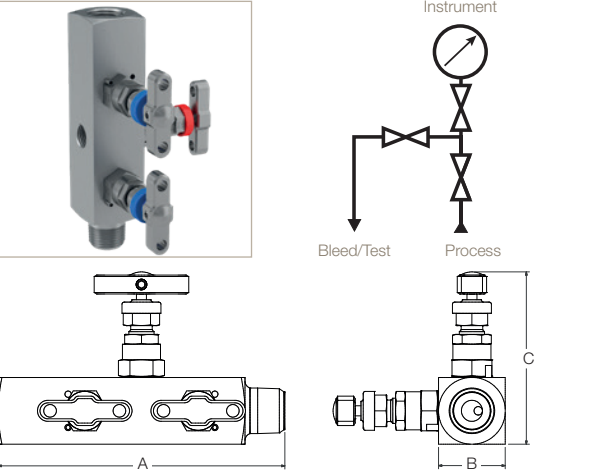
Pressure (PSI)	Inlet	Outlet	Vent	Dimension		
	NPT	NPT	NPT	A mm (inch)	B mm (inch)	C mm (inch)
6,000	1/2" M	1/2" M	1/4" F	108.5 (4.27)	28.6 (1.13)	130.2 (5.13)
10,000	1/2" M	1/2" M	1/4" F	136.7 (5.38)	31.8 (1.25)	133.4 (5.25)

HNL*2V - Female x Female threaded - NPT



Pressure (PSI)	Inlet	Outlet	Vent	Dimension		
	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)

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



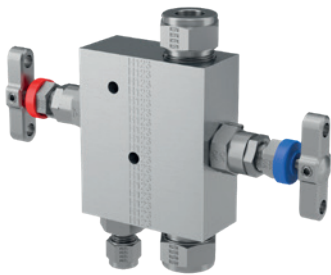
Pressure (PSI)	Inlet	Outlet	Vent	Dimension		
	NPT	NPT	NPT	A mm (inch)	B mm (inch)	C mm (inch)
6,000	1/2" M	1/2" F	1/4" F	136.5 (5.37)	31.8 (1.25)	82.6 (3.25)
10,000	1/2" M	1/2" F	1/4" F	136.5 (5.37)	31.8 (1.25)	82.6 (3.25)
6,000	1/2" M	1/2" M	1/4" F	136.5 (5.37)	31.8 (1.25)	82.6 (3.25)
10,000	1/2" M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

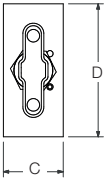
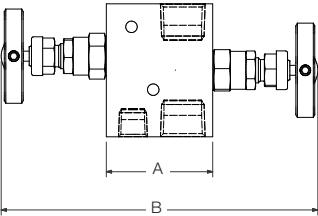
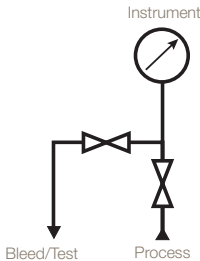
Remote/line mount - short pattern

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.



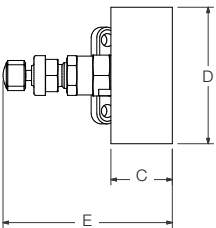
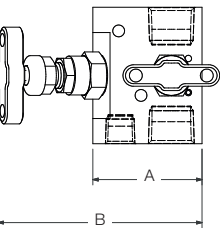
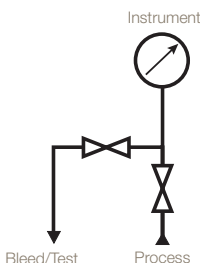
Example shown: 2-valve manifold with integral A-LOK® connections.

HL*2V - Female x Female threaded - NPT



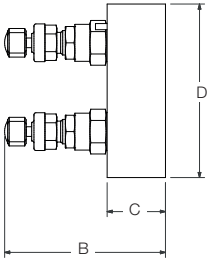
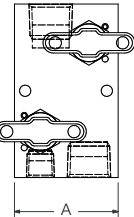
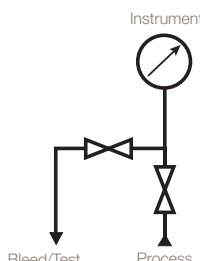
Pressure (PSI)	Inlet	Outlet	Bleed/Test	Dimension			
	NPT	NPT	NPT	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)
6,000	1/2" F	1/2" F	1/4" F	50.8 (2.00)	152.4 (6.00)	28.6 (1.13)	63.5 (2.50)
10,000	1/2" F	1/2" F	1/4" F	50.8 (2.00)	152.4 (6.00)	31.8 (1.25)	69.8 (2.75)

HAL*2V - Female x Female threaded - NPT



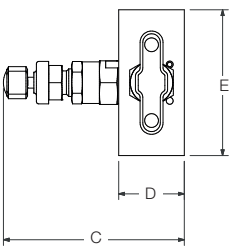
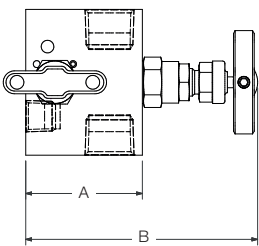
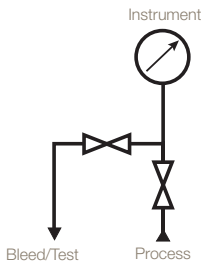
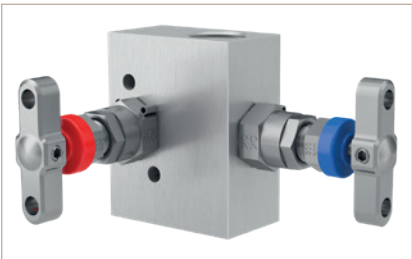
Pressure (PSI)	Inlet	Outlet	Bleed/Test	Dimension				
	NPT	NPT	NPT	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)
6,000	1/2" F	1/2" F	1/4" F	50.8 (2.00)	100.5 (3.96)	28.6 (1.13)	63.5 (2.50)	79.4 (3.13)
10,000	1/2" F	1/2" F	1/4" F	63.5 (2.50)	114.3 (4.50)	31.8 (1.25)	69.8 (2.75)	82.6 (3.25)

HLTF*2V - Female x Female threaded - NPT



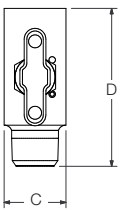
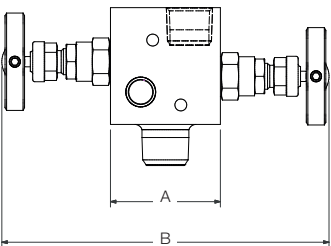
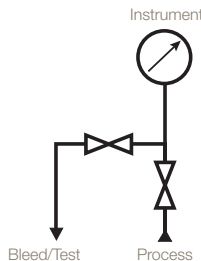
Pressure (PSI)	Inlet	Outlet	Bleed/Test	Dimension			
	NPT	NPT	NPT	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)
6,000	1/2" F	1/2" F	1/4" F	50.8 (2.00)	79.4 (3.13)	28.6 (1.13)	85.0 (3.35)
10,000	1/2" F	1/2" F	1/4" F	55.7 (2.19)	82.6 (3.25)	31.8 (1.25)	88.9 (3.50)

HLLHV*2V - Female x Female threaded - NPT



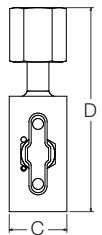
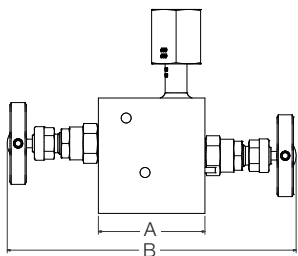
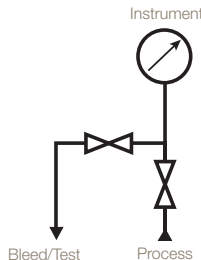
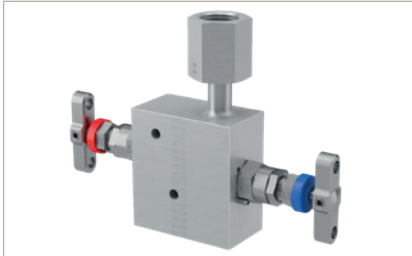
Pressure (PSI)	Inlet	Outlet	Bleed/Test	Dimension				
	NPT	NPT	NPT	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)
6,000	1/2" F	1/2" F	1/4" F	50.8 (2.00)	101.6 (4.00)	79.4 (3.13)	28.6 (1.13)	63.5 (2.50)

HL*2V8M8F4F - Male x Female threaded - NPT



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" 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

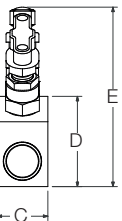
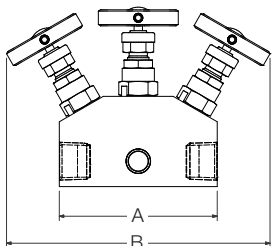
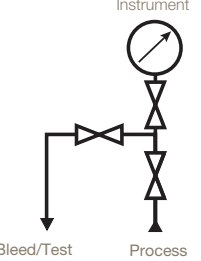
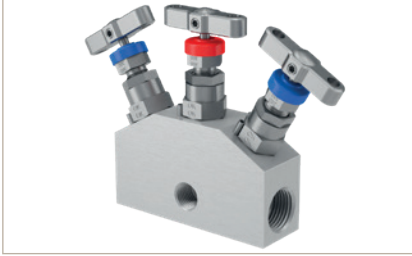


Pressure (PSI)	Inlet	Outlet	Bleed/Test	Dimension			
	NPT	BSPP*	NPT	A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)
6,000	1/2" F	1/2" F	1/4" F	50.8 (2.00)	152.4 (6.00)	28.6 (1.13)	112.0 (4.40)

*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.
- 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.

HL*3DBB - Female threaded - NPT



Pressure (PSI)	Inlet	Outlet	Bleed/Test	Dimension				
	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)

2-Valve Manifolds - Remote/Line Mount

Ordering information

Example 1 (Default): **HLS2V**

Example 2: **HLS2V4RM8RF4F3P**

Example 3: **HNLWGS3DBB8M8R4FPOXNC**

Example 4: **HALS2VIVAM126ATK**

Example 5: **HNL6MO2VM12ATHLNC**

Example 6: **HLS3DBBIVZI84FPOX**

Example 7: **HL6MO3DBBIVAM12PFCAM6NC**

HL	S	2V		
HL	S	2V	4RM8RF4F	3P
HNLWG	S	3DBB	8M8R4F	POXNC
HAL	S	2V	IVM126	ATK
HNL	6MO	2V	M12A	THLNC
HL	S	3DBB	IVZI84F	POX
HL	6MO	3DBB	IVAM12PFCAM6	NC

- 2-valve block & bleed/isolate & calibrate/vent/drain, short pattern flat barstock manifold, manufactured from 316 Austenitic Stainless Steel material, having 1/2" NPT Fem. connection to both inlet & outlet and a 1/4" NPT fem. bleed/vent/drain connection. Gland packing is PTFE.
- 2-valve block & bleed/isolate & calibrate/vent/drain, long pattern flat barstock manifold, manufactured from 316 Austenitic Stainless Steel material, having 1/4" BSPP Male connection to inlet & 1/2" BSPP Fem. outlet with 1/4" NPT Fem. vent/drain connection. Gland packing is Graphite and a 1/4" NPT blanking plug is supplied.
- 3-valve block-bleed-block/double isolate & bleed/vent/drain, long pattern barstock manifold, manufactured from 316 Aust.St.St., with 1/2" NPT male inlet connection, 1/2" BSPP fem. outlet connection via integral welded swivel and 1/4" NPT fem. vent/drain/bleed. A 1/4" NPT blanking plug is supplied. Suitable for oxygen service and complies to NACE.
- 2-valve angle head block & bleed/isolate & calibrate/vent/drain, short pattern flat barstock manifold, 316 Aus.St.St. material with Parker Superior Advantage 12mm inverted tube con. to inlet and outlet. The bleed/vent/drain is also an inverted A-LOK tube con. suitable for 6mm tube. Gland packing is PTFE. Anti-Tamper operation and a single key.
- 2-valve block & bleed, long pattern manifold, manufactured from 6MO super austenitic stainless steel material with Parker A-LOK 12mm integral tube connections to inlet and outlet and 1/4" NPT fem. vent/drain/bleed. Manifold is also fitted with locking T bar handle operation and is compliant to NACE.
- 3-valve block-bleed-block/double isolate & calibrate vent/drain, flat barstock manifold manufactured from 316 Austenitic Stainless Steel material having Parker Superior 1/2" Inverted integral CPI tube connections and a 1/4" NPT fem. vent/drain/bleed. Gland packing is PTFE. A 1/4" NPT blanking plug is supplied. Suitable for oxygen service.
- 3-valve block-bleed-block/double isolate & calibrate vent/drain, flat barstock manifold manufactured from 6MO Super Austenitic Stainless Steel material having Parker Superior Advantage 12mm inverted integral A-LOK tube connections to inlet and outlet with 6mm integral PTFree male union A-LOK tube connection to vent/drain/bleed. Gland packing is PTFE and the manifold complies to NACE.

Series			
HNL	Straight barstock gauge valves, long pattern		
HNLWG	Straight barstock gauge valves, long pattern with Integral Swivel Gauge connection ¹		
HL	Flat barstock gauge valves, short pattern		
HLWG	Flat barstock gauge valves, short pattern with Integral Swivel Gauge connection ¹		
HAL	Angled barstock gauge valves, short pattern		
HALWG	Angled barstock gauge valves, short pattern with Integral Swivel Gauge connection ¹		
HMTF	Flat barstock gauge valves with valves on top face		
HLLHV	Flat barstock gauge valves, short pattern with valves at 90 degree and left hand orientation		

Materials			
S	316/316L Stainless Steel	HC	Alloy C276
6MO	6MO Sup. Aust. St.Steel	T	Titanium Gr. 2 ²
M	Alloy M400 ²	825	Alloy 825
D1	Duplex 22 Cr. Steel	625	Alloy 625
D2	Super Duplex 25 Cr. Steel	C	Carbon Steel ³

Application Configuration	
2V	2-valve, block and bleed/vent/drain, isolate and calibrate
3DBB	3-valve, double isolate and bleed/vent/drain, block-bleed-block ⁴
3DBB1	3-valve, double isolate and bleed/vent/drain, block-block-bleed ⁴

Connections - Standard Options			
	Inlet	Outlet	Vent
*	1/2" NPT Fem.	1/2" NPT Fem.	1/4" NPT Fem.
4N	1/4" NPT Fem.	1/4" NPT Fem.	1/4" NPT Fem.
4K	1/4" BSPT Fem.	1/4" BSPT Fem.	1/4" BSPT Fem.
4R	1/4" BSPP Fem.	1/4" BSPP Fem.	1/4" BSPP Fem.
8K	1/2" BSPT Fem.	1/2" BSPT Fem.	1/4" BSPT Fem.
8R	1/2" BSPP Fem.	1/2" BSPP Fem.	1/4" BSPP Fem.
4M4F4F	1/4" NPT Male	1/4" NPT Fem.	1/4" NPT Fem.
8M8F4F	1/2" NPT Male	1/2" NPT Fem.	1/4" NPT Fem.
12M8F4F	3/4" NPT Male	1/2" NPT Fem.	1/4" NPT Fem.
4A	1/4" A-LOK ⁵	1/4" A-LOK ⁵	1/4" NPT Fem.
6A	3/8" A-LOK ⁵	3/8" A-LOK ⁵	1/4" NPT Fem.
8A	1/2" A-LOK ⁵	1/2" A-LOK ⁵	1/4" NPT Fem.
M6A	6mm A-LOK ⁵	6mm A-LOK ⁵	1/4" NPT Fem.
M10A	10mm A-LOK ⁵	10mm A-LOK ⁵	1/4" NPT Fem.
M12A	12mm A-LOK ⁵	12mm A-LOK ⁵	1/4" NPT Fem.

Other Connection Options ⁶	
*F	Fem. NPT connection. Utilise for non-default selections
*M	Male NPT connection. Utilise for non-default selections
*#F	Fem. connection. Utilise when connections and specifications vary
*#M	Male connection. Utilise when connections and specifications vary
	K BSPT BS21, ISO7/1 - British Standard Taper Pipe thread
	R BSPP BS2779 - British Standard Parallel Pipe thre
	RD DIN 16284/16288/EN837 BSPP gauge connection type
SW*	ASME B16.11, EN12760 Female Socket Weld ⁷
*M2X	ISO Metric M20x1.5 Parallel Pipe thread - outlet option with Swivel Gauge connection (WG type)

Butt Weld and Male Socket Weld - Pipe ⁸				
Type		Size	Schedule (Thickness)	Extension
BW	Butt Weld ⁹	4	1/4" NB	* Default
		6	3/8" NB	
		8	1/2" NB	
MSW	Male Socket Weld ¹⁰	12	3/4" NB	* Default

Inverted Connection and PTFree connect™					
Type		Fitting	Unit	Inlet/Outlet	Bleed/Vent/ Drain
IV	Inverted Connection Tube OD ¹¹	A A-LOK	M Metric	6 6mm	4F 1/4" NPT ¹³
				10 10mm	
				12 12mm	
PF	PTFree connect tube stub ¹²	Z CPI	I Imperial	4 1/4"	
				6 3/8"	
PFC	PTFree connect male union ¹²	Z CPI	I Imperial	8 1/2"	

¹ Available as standard with 1/2" BSPP (8R); 1/4" BSPP (4R) by special request. Available only in 316SS. Consult your local Parker support for other potential material options.

² This material selection down-rates manifold.

³ For Carbon Steel consult your local Parker representation.

⁴ Available on HL and HNL series only.

* Default connection, no designator required.

⁵ Available on HNL series only.

For CPITM (single ferrule tube fitting) connection change A to Z.

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

⁶ Default standard manifolds require no additional designators. Example: 1/2" NPT Fem. inlet & 1/2" NPT Fem. outlet & 1/4"NPT Fem. vent = HL*2V (as example above).

As connection choices vary, all connections must be designated. **Examples:**

- 1/4" NPT Male (4M) inlet, 1/2" NPT Fem. (8F) outlet, 1/4" NPT Fem. vent (4F) = 4M8F4F
- 1/2"BSPP Fem. (8RF) inlet & 1/2"BSPP Fem. (8RF) outlet & 1/4"NPT Fem. vent (4F) = 8RF8RF4F
- 1/2"BSPP Fem. (8RF) inlet & 1/2"BSPP Fem. (8RF) outlet & 1/4"BSPT Fem. (4KF) vent = 8RF8RF4KF

* Insert size designator.

Insert specification (K/R/RD).

⁷ As standard, valves with Female Socket Weld connections will be of the same length as per the equivalent NPT pipe threaded variants.

⁸ Available on HNL series only.

⁹ No designator required.

¹⁰ As standard, valves with butt weld pipe connections will be of the same length as per the equivalent male NPT pipe threaded variants. Extended body dimensions are also offered - see tables and main catalogue.

¹¹ As standard, valves with Male Socket Weld conn. will have 1/2" (13mm) added to overall length (per connection) when compared to equivalent threaded valve. Extended body dimensions are also offered - see tables and main catalogue. **Example:** 3/4" NB male socket weld conn. with Sch.XXS wall pipe and 100mm body extension = MSW12BD.

¹² **Examples:**

- 10mm A-LOK inverted inlet/outlet & 1/4" NPT Fem. vent/drain = IVAM104F
- 10mm CPI inverted inlet/outlet & 1/4" NPT Fem. vent/drain = IVZM104F

¹³ **Examples:**

- 10mm A-LOK tube stub con. inlet/outlet & 1/4" NPT Fem. vent/drain = PFAM104F
- 3/8" CPI male union con. inlet/outlet & 1/4"NPT Fem. vent/drain = PFCZ164F

¹⁴ 1/4" NPT Fem. is default standard for bleed/vent/drain, some model types may be available with other connections

OPTIONS	
High Pressure - 10,000 PSI (689 bar) option	
HP	High Pressure
Gland Packing Options	
3	Graphite ¹⁴
FS	Firesafe design ¹⁵
Seating Options - Needle Valves only	
6S	6mm bore seat ¹⁶
RT	Regulating/Metering Tip
ST	Stellite Tip
9	PCTFE Soft Tip ¹⁷
PK	PEEK Soft Tip
Plug/Bleed Valve Options ¹⁸	
P	Blank Plug
BV	Bleed Valve/Plug
Operator Options ¹⁹	
HW	Handwheel for all valves
LHW	Handwheel Locking for all valves
THL	T Bar Locking for all valves
AT	Anti-Tamper for all valves ²⁰
ATK	Anti-Tamper for all valves with Key ²¹
ATHKEY	Anti-Tamper Key ²²
Mounting Options	
BK	Assembled with Carbon Steel bracketry & bolts
BKS	Assembled with Stainless Steel bracketry & bolts
Other Options	
OX	Cleaned & lubricated for Oxygen use
NC	NACE MR-01-75 Compliant
M*	Assembly and Test of Free Issue Instrument

¹⁴ Not required when Firesafe design option (FS) selected.

¹⁵ Not available for PCTFE Soft Tip (9) or Oxygen use (OX).

¹⁶ 6mm bore seat and other flow passages not available on all selections. Please consult your local Parker support.

¹⁷ 3,000 PSI/207 BAR only. See catalogue page 14.

¹⁸ Plugs supplied loose in a packing box. See page 61.

¹⁹ These options can be specified to independent valves:

Add I to specify specify assembly to Isolate valves.

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

Examples:

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

²⁰ Anti-Tamper operation and no Key.

²¹ Anti-Tamper operation and one Key supplied per manifold.

²² Specify quantity required as separate line item.

* Specify assembly and test option - see page 71.

IMPORTANT NOTES:

- 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.
- 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.
- Should your part number selection exceed 25 characters in length when completed, then it is likely to be incorrect, please consult your local Parker representation for assistance.
- If in any doubt, please consult your local Parker representation.

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

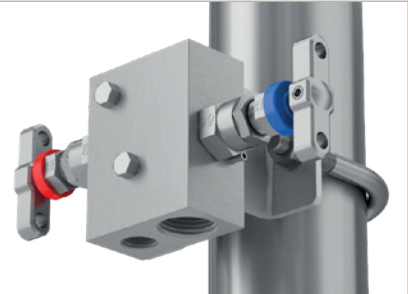


Image shown: Part No.: HLS2VBK

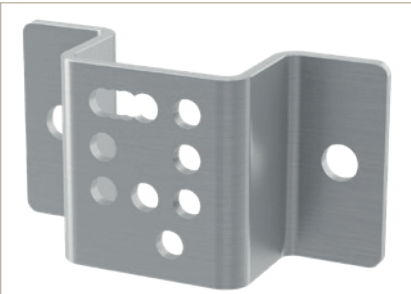
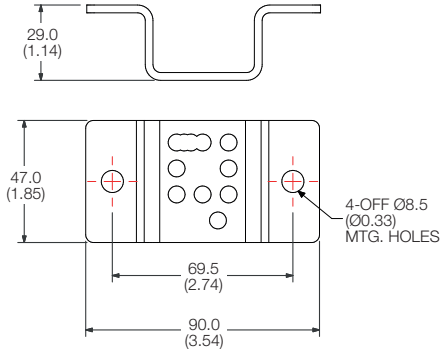


Image shown: Part No.: BKT1SSB1



How to order:

Item	Part Number		Suitable for Manifold Type
	Bracket material: Carbon Steel	Bracket material: Stainless Steel	
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

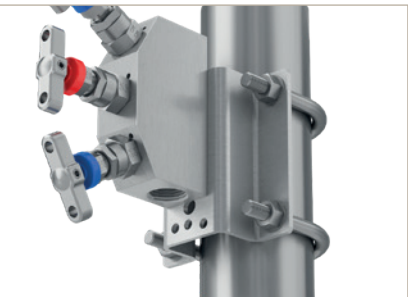
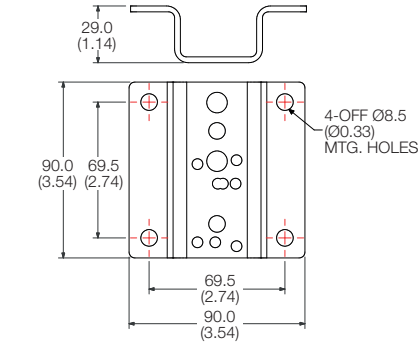


Image shown: Part No.: HLS3DBBBK



Image shown: Part No.: BKT2SSB2



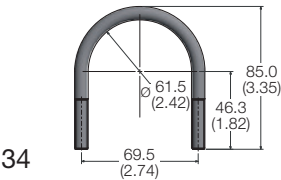
How to order:

Item	Part Number		Suitable for Manifold Type
	Bracket material: Carbon Steel	Bracket material: Stainless Steel	
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

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



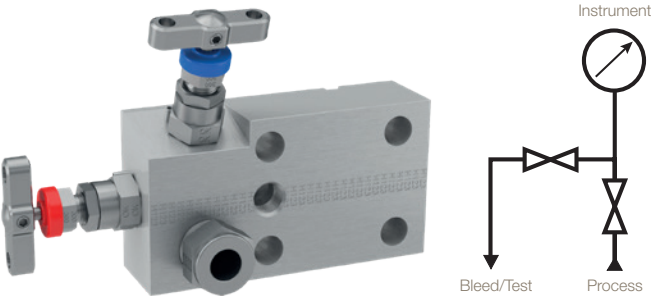
Bracket kits include U bolts with nuts and washers.



2-Valve Manifolds - H Series

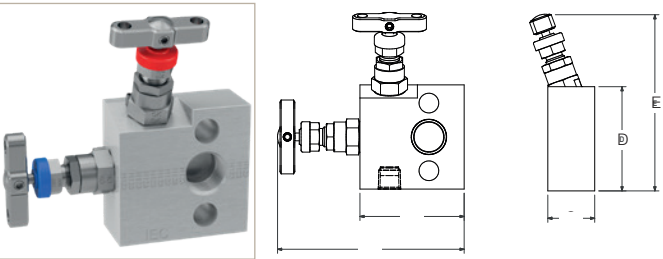
Direct mount

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.



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

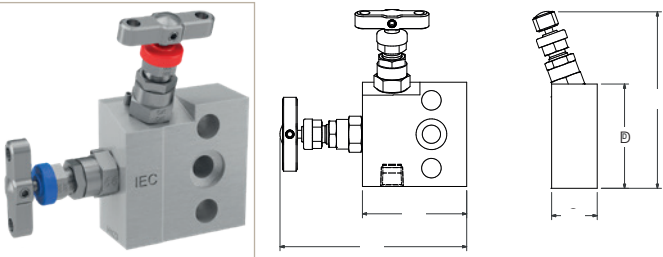
HD*2M - Female threaded - NPT x Flanged



Pressure (PSI)	Inlet	Outlet	Bleed	Dimension				
				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)

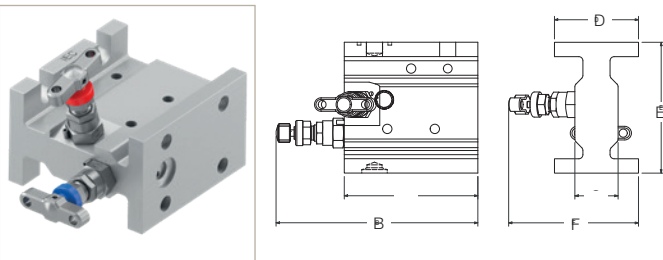
HD*2MFD variant available with vent/bleed/drain connection on same face as process inlet.

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



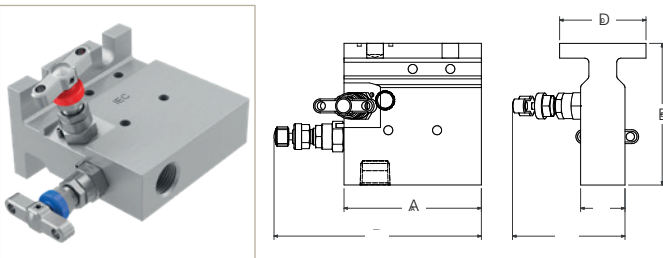
Pressure (PSI)	Inlet	Outlet	Bleed /test	Dimension				
				A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)
6,000	Flanged	Flanged	1/4" NPT	63.5 (2.50)	114.3 (4.50)	28.6 (1.13)	63.5 (2.50)	107.6 (4.24)

HEH*2 - Flanged x Flanged



Pressure (PSI)	Inlet	Outlet	Bleed /test	Dimension					
				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)

HET*2 - Female threaded - NPT x Flanged



Pressure (PSI)	Inlet	Outlet	Bleed /test	Dimension					
				A mm (inch)	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)

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**

HD	S	5	M			
HD	S	5	M	A		SB3PBKS
HD	M	5	M	A	DA	
HD	S	5	M		4NDA	ATKVOXNC
HEH	S	3		DTP		3ATE
HET	S	5		CT		P
HET	S	5			DAIVAM104F	3PBKS
HD	M	5	M	A	DAPFCAM126	PKNC

- 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.
- 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 con. and 1/4" NPT Fem. 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 con. 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.
- 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.
- 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.

Series	
HD ¹	Flat barstock direct mount, pipe to flange/thread to flange manifolds - Process connections 108.0 mm (4 1/4") CTRS - Process connections 54.0 mm (2 1/8") CTRS
HET ¹	Extruded T-section direct mount, pipe to flange/thread to flange manifolds
HEH ²	Extruded H-section direct mount, flange to flange manifolds

¹ Default standard connections for pipe/thread to flange are: 1/2" NPT Fem. inlet with DIN IEC B outlet transmitter face with 1/4" NPT Fem. vents/drains/bleeds/purge or test ports - where specified.

² Default standard connections for flange to flange are: DIN IEC 61518 inlet to manifold/ transmitter interface with DIN IEC B outlet with 1/4" NPT Fem. vents/drains/bleeds/purge or test ports - where specified.

Materials			
S	316/316L Stainless Steel	HC	Alloy C276
6MO	6MO Sup. Aust. St.Steel	T	Titanium Gr. 2 ³
M	Alloy M400 ³	825	Alloy 825
D1	Duplex 22 Cr. Steel	625	Alloy 625
D2	Super Duplex 25 Cr. Steel	C	Carbon Steel ⁴

³ This material selection down-rates manifold.

⁴ For Carbon Steel consult your local Parker representation.

Number of Valves/Configuration	
2	2-valve, block & bleed/isolate & calibrate/vent/drain
3	3-valve, isolate & equalise for DP applications
5	5-valve, isolate, equalise & calibrate/bleed/vent/drain for DP applications

For Flat Barstock Manifolds only (HD Series)	
M	Process Connections 54.0 mm (2 1/4") CTRS

Application Configuration	
A	Inclined equalise valve to avoid obstruction with transmitter - Eg. Yokogawa EJA ⁵
FF	Flange to flange connection ⁵
FD	Vent/bleed/drain connections on same face as process inlet
CT	Suitable for fiscal metering/custody transfer applications ⁶
DTP	Downstream test ports ⁷

⁵ For flat barstock manifolds only.

⁶ For 5-valve manifolds only.

⁷ For 3-valve manifolds only.

Connections - Standard Options			
	Inlet	Outlet	Vent/Drain/Bleed/ Test/Purge
*	1/2" NPT Fem.	DIN IEC B Flange Interface	1/4" NPT Fem.
**	DIN IEC	DIN IEC B Flange Interface	1/4" NPT Fem.
4N	1/4" NPT Fem.	DIN IEC B Flange Interface	1/4" NPT Fem.
4K	1/4" BSPT	DIN IEC B Flange Interface	1/4" BSPT Fem.
4R	1/4" BSPP Fem.	DIN IEC B Flange Interface	1/4" BSPP Fem.
8K	1/2" BSPT	DIN IEC B Flange Interface	1/4" BSPT Fem.
8R	1/2" BSPP	DIN IEC B Flange Interface	1/4" BSPP Fem.
SW8	1/2" NB Fem. SW ⁸	DIN IEC B Flange Interface	1/4" NPT Fem.
#DA	# Select from above	DIN IEC A Flange Interface	1/4" NPT Fem.

* Default standard connection for pipe/thread to flange manifolds; no designator required.

** Default standard connection for flange to flange manifolds; no designator required.

Default standard manifolds require no additional designators. Example: 1/2" NPT Fem. inlet & DIN IEC B outlet with 1/4" NPT Fem. vent = **HD*5M** (as example above).

As connection choices vary, all connections must be designated. **Examples:**

- 1/2"BSPP Fem. inlet & DIN IEC B outlet with 1/4"NPT Fem. vent = **8R4F**
- 1/2"BSPP Fem. inlet & DIN IEC B outlet with 1/4"BSPT Fem. vent = **8R4K**

⁸ As standard, valves with Female Socket Weld connections will be of the same length as per the equivalent NPT pipe threaded variants.

⁹ **Examples:**

- 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-LOK inverted inlet & 6mm vent/drain = **IVAM126**
- 1/2" A-LOK inverted inlet & 1/4" vent/drain = **IVA184**

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.

Optional Connections				
Type	Fitting	Unit	Inlet	Bleed/Vent/ Drain
IV	Inverted Connection Tube OD ⁹	M Metric	6 6mm	4F 1/4" NPT ¹¹
PF	PTFree connect tube stub ¹⁰		10 10mm	
PFC	PTFree connect male union ¹⁰	I Imperial	12 12mm	
			4 1/4"	
			6 3/8"	
			8 1/2"	

OPTIONS	
Instrument Bolt Options	
SB	316 Stainless Steel bolt ¹¹
CB	3" long Carbon Steel bolt ¹²
CSB	3" long 316 Stainless Steel bolt ¹²
Gland Packing Options	
3	Graphite ¹³
FS	Firesafe design ¹⁴
Seating Options - Needle Valves only	
RT	Regulating/Metering Tip
ST	Stellite Tip
9	PCTFE Soft Tip ¹⁵
PK	PEEK Soft Tip
Plug/Bleed 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 Options	
BK	Assembled with Carbon Steel bracketry & bolts
BKS	Assembled with Stainless Steel bracketry & bolts
Other Options	
OX	Cleaned & lubricated for Oxygen use
NC	NACE MR-01-75 Compliant
M*	Assembly and Test of Free Issue Instrument

- ¹¹ Carbon Steel bolt as standard. No designator required.
- ¹² Extra length bolts to be specified when utilising these manifolds with Emerson Coplanar™ type transmitter with the traditional adaptor flange.
- ¹³ Not required when Firesafe design option (**FS**) selected.
- ¹⁴ Not available for PCTFE Soft Tip (**9**) or Oxygen use (**OX**).
- ¹⁵ 3,000 PSI/207 BAR only. See catalogue page 14.
- ¹⁶ Plugs supplied loose in a packing box. See page 61.
- ¹⁷ 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.
- ¹⁸ Anti-Tamper operation and no Key.
- ¹⁹ Anti-Tamper operation and one Key supplied per manifold.
- ²⁰ Specify quantity required as separate line item.
- * Specify assembly and test option - see page 71.

IMPORTANT NOTES:

- 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.
- 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.
- Should your part number selection exceed 25 characters in length when completed, then it is likely to be incorrect, please consult your local Parker representation for assistance.
- If in any doubt, please consult your local Parker representation.

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.

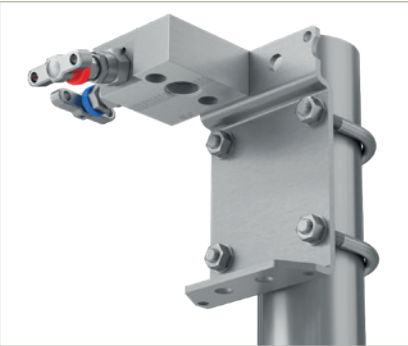


Image shown: Part No.: HDS2MBK

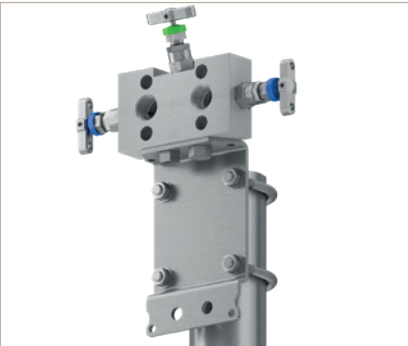


Image shown: Part No.: HDS3MBK

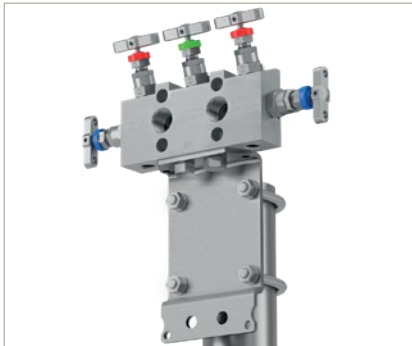
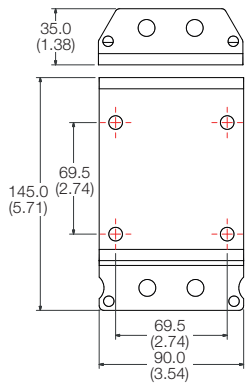


Image shown: Part No.: HDS5MBK



Image shown: Part No.: BKT3CSB2



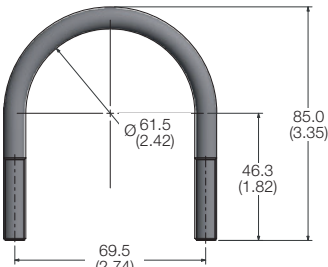
How to order:

Item	Part Number		Suitable for Manifold Type	
	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.



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

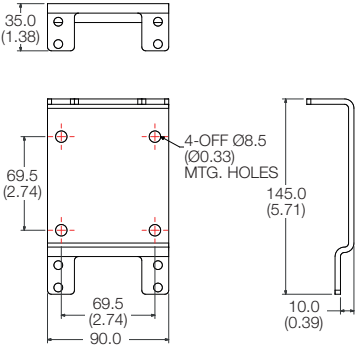
- Universal manifold mounting bracket, suitable for all direct mount manifolds
- This bracket design enables horizontal or vertical instrument positioning



Image shown: Part No.: HDS5BK



Image shown: Part No.: BKT5CSB6



How to order:

Item	Part Number		Suitable for Manifold Type
	Bracket material: Carbon Steel	Bracket material: Stainless Steel	
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

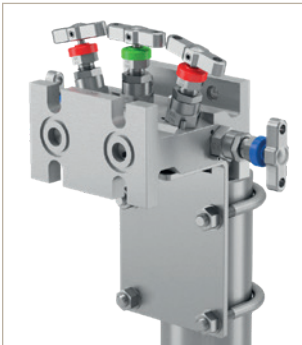
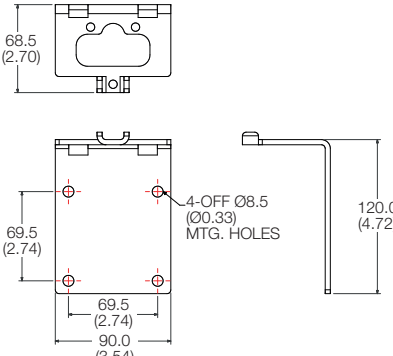


Image shown: Part No.: HEHS5BK



Image shown: Part No.: BKT4CSB4



How to order:

Item	Part Number		Suitable for Manifold Type	
	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