

Connections

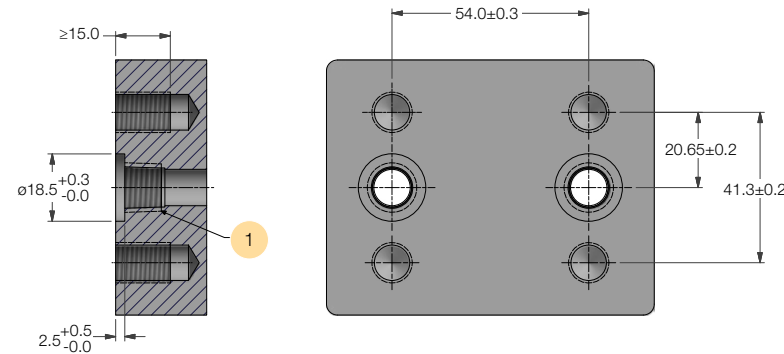
Transmitter flange connections - DIN/IEC 61518

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.

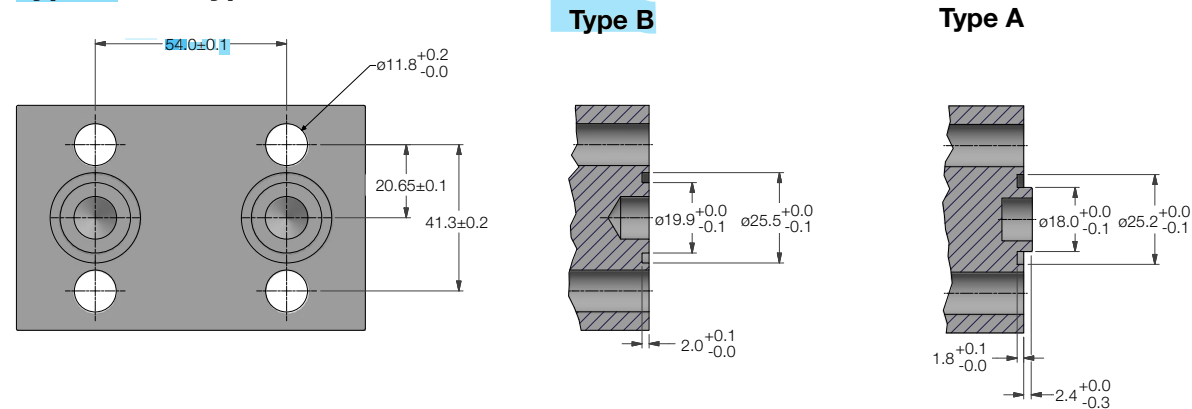
Process inlet to manifold / transmitter interface DIN EN 61518 / IEC 61518



Reference	Description
1	Threaded option for transmitters - plug/vent valve

Parker manifold outlet to transmitter interface DIN EN 61518 / IEC 61518

Type B and Type A



	Type B (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 Ring 25.4 x 20 x 2.7 Material: PTFE	Flat Ring 25.4 x 19.9 x 2.9 Material: Graphite	Flat Ring 24 x 17.7 x 2.7 Material: PTFE	Flat Ring 25.1 x 18.0 x 2.9 Material: Graphite
Min. Thread Engagement	9mm		9mm	
Spare/Replacement Seal part No.	HIEC001-PTFE/1	HIEC001-GRAPHITE/1	HIEC002-PTFE/1	HIEC002-GRAPHITE/1

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

Important Note - there are some exceptions to the IEC 61518 standard:

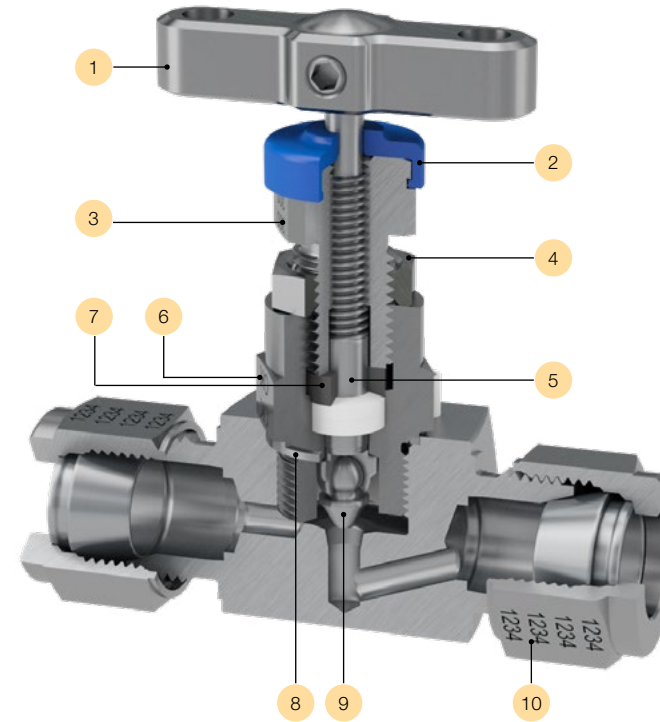
- Emerson Coplanar™ transmitter design. Parker offers a full range of specifically suitable manifolds for this type. See pages 55-60.
- There is a limited range of other higher working pressure transmitters by some manufacturers, where the interface is proprietary by design (Example: Yokogawa EJX 440A/EJA 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

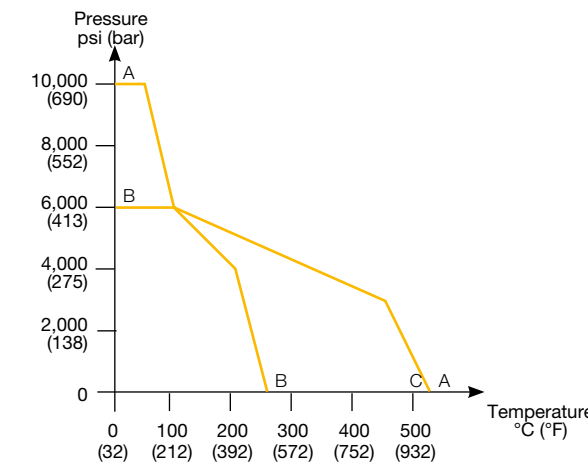


Reference	Description
1	Ergonomic 'T' bar style handle with positive retention
2	Dual purpose dust cap provides functional identification
3	Compensatory adjustable gland
4	Secure anti-vibration gland lock nut
5	Anti-blowout low torque back seating stem
6	All metal body bonnet seal
7	Gland thrust bush 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

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
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

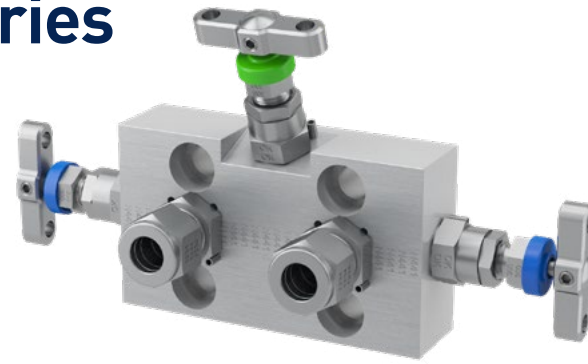
Notes:

- 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.

3-Valve Manifolds - H Series

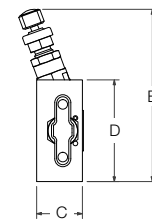
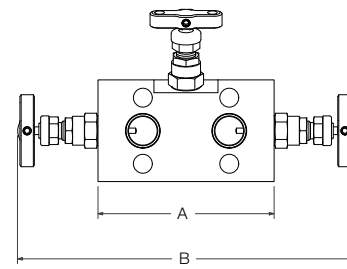
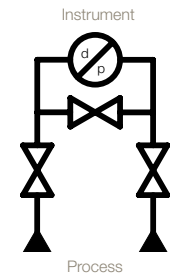
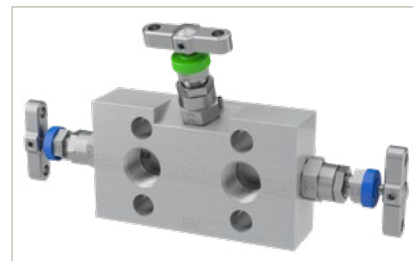
Direct mount

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.



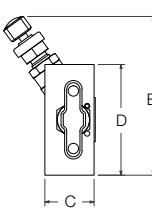
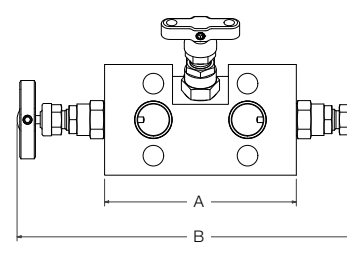
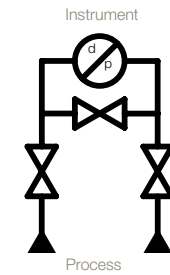
Example shown: 3-valve manifold with PTFree connect™ connection.

HD*3M - Female threaded - NPT x Flanged



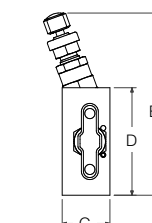
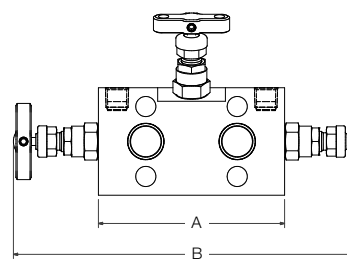
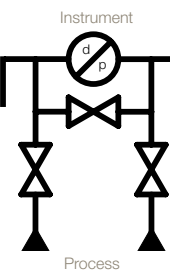
Inlet	Outlet	Dimension				
		A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)
1/2" NPT	Flanged	110.0 (4.33)	211.6 (8.33)	28.6 (1.13)	63.5 (2.50)	107.6 (4.24)

HD*3MA - Female threaded - NPT x Flanged



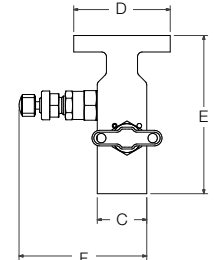
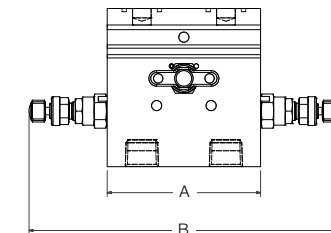
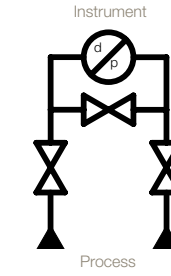
Inlet	Outlet	Dimension				
		A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)
1/2" NPT	Flanged	110.0 (4.33)	211.6 (8.33)	28.6 (1.13)	63.5 (2.50)	91.0 (3.58)

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



Inlet	Outlet	Dimension					
		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)

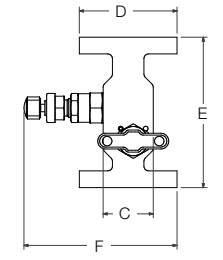
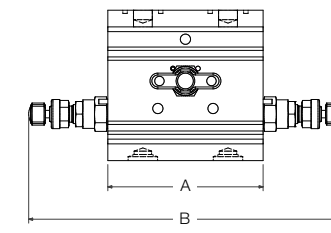
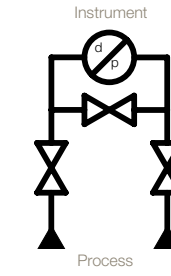
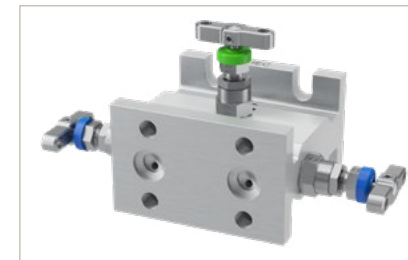
HET*3 - Female threaded - NPT x Flanged



Inlet	Outlet	Dimension					
		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")

HET*3 manifolds are available in 316/316L Stainless Steel material only.

HEH*3 - Flanged x Flanged



Inlet	Outlet	Dimension					
		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")

HEH*3 manifolds are available in 316/316L Stainless Steel material only.

Recognising and understanding the direct mount transmitters*



- 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
- 7/16" UNF mounting holes
- Connection centres are 2 1/8" (54mm)
- Bolt hole centres are 2 1/8" (54mm) x 1 5/8" (41mm)



Typical installation

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

2, 3 and 5-Valve Manifolds - Direct Mount

Ordering information

Example 1 (Default): **HDS5M**

Example 2: **HDS5MASB3PBKSN**

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			
HD¹	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		
HET¹	Extruded T-section direct mount, pipe to flange/thread to flange manifolds		
HEH²	Extruded H-section direct mount, flange to flange manifolds		
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

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. HET manifolds are available in 316/316L Stainless Steel material only.

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. HEH manifolds are available in 316/316L Stainless Steel material only.

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 = **PFCZ164F**

- 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.

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

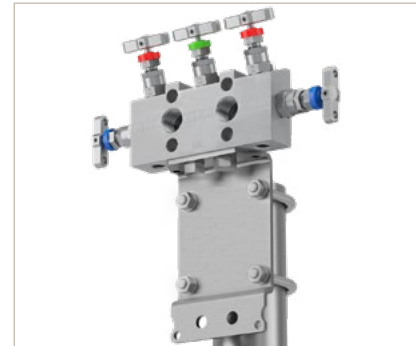
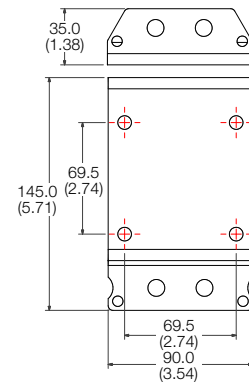


Image shown: Part No.: HDS5MBK



Image shown: Part No.: BKT3CSB2



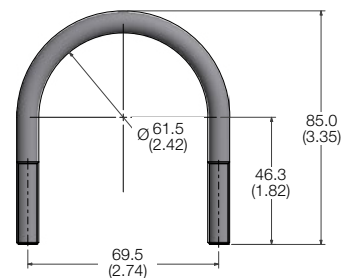
How to order:

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

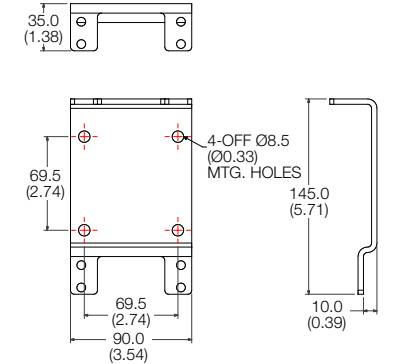
- Universal manifold mounting bracket, suitable for all direct mount manifolds
- This bracket design enables horizontal or vertical instrument positioning



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.



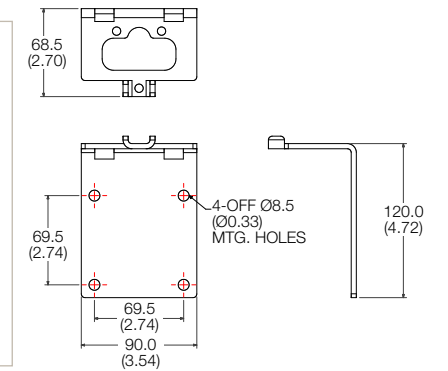
Image shown: Part No.: HEHS2BK



Image shown: Part No.: HEHS5BK



Image shown: Part No.: BKT4CSB4



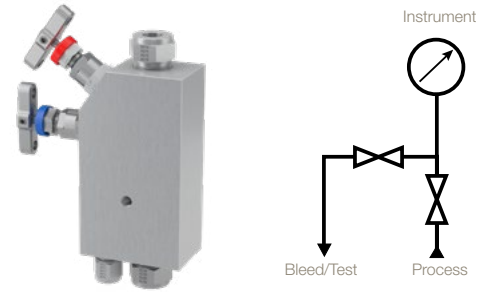
How to order:

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

Base Connected Manifolds Especially Suited For Enclosure Mounting

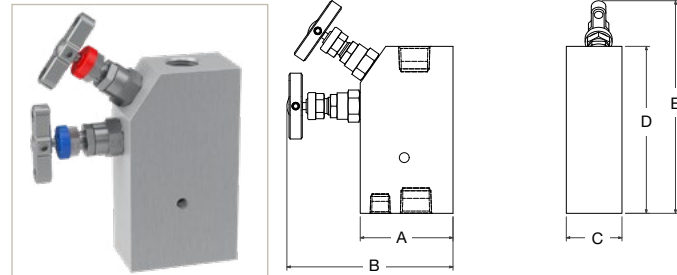
Introduction

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.



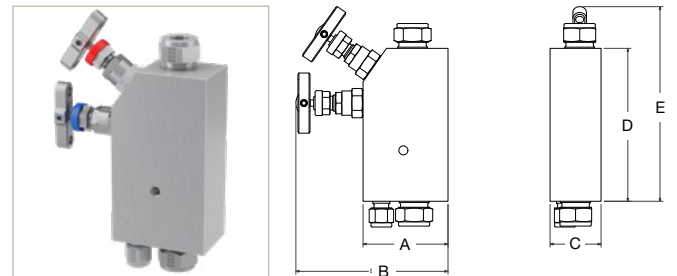
Example shown: 2-valve base connected manifold especially suited for use within enclosures, having Parker Superior Advantage fully integrated inverted style tube connections to inlet, outlet and vent/drain/bleed.

HL*2EXT - Female x Female threaded - NPT



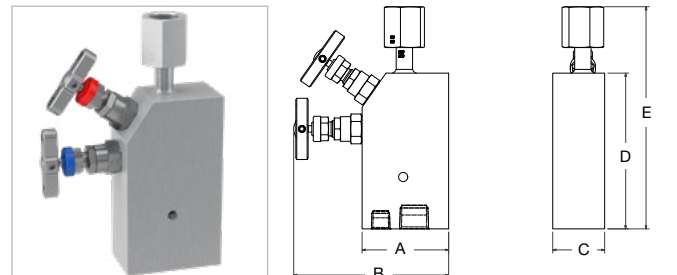
Pressure (PSI)	Inlet	Outlet	Bleed /Test	Dimension				
				A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)
6,000	1/2" F	1/2" F	1/4" F	63.5 (2.50)	114.3 (4.50)	38.1 (1.50)	114.3 (4.50)	145.5 (5.73)

HL*2EXT - Integral A-LOK® connections



Pressure (PSI)	Inlet	Outlet	Bleed /Test	Dimension				
				A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)
6,000	1/2" A-LOK 12mm	1/2" A-LOK 12mm	1/4" A-LOK 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

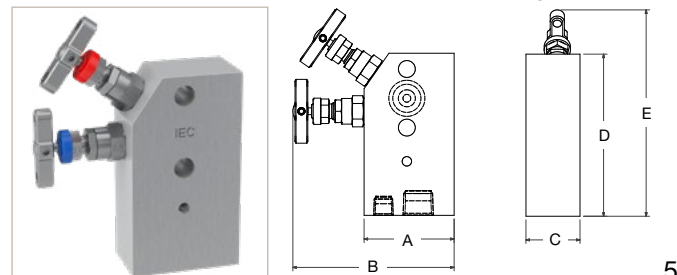


Pressure (PSI)	Inlet	Outlet	Bleed /Test	Dimension				
				A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)
6,000	1/2" F	1/2" F	1/4" F	63.5 (2.50)	114.3 (4.50)	38.1 (1.50)	114.3 (4.50)	162.8 (6.40)

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

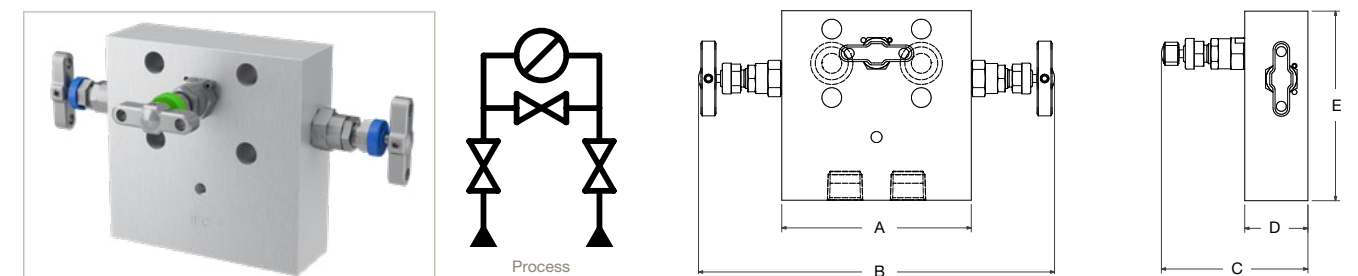
- Swivel adaptor to the outlet is provided through a socket weld, generally conforming to ANSI B16.11.
- Weld connection is a "commercial weld", completed by a qualified welder. Any specific qualification, certification, documentation or additional NDT, will require to be engineered and quoted extra – 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.
- 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



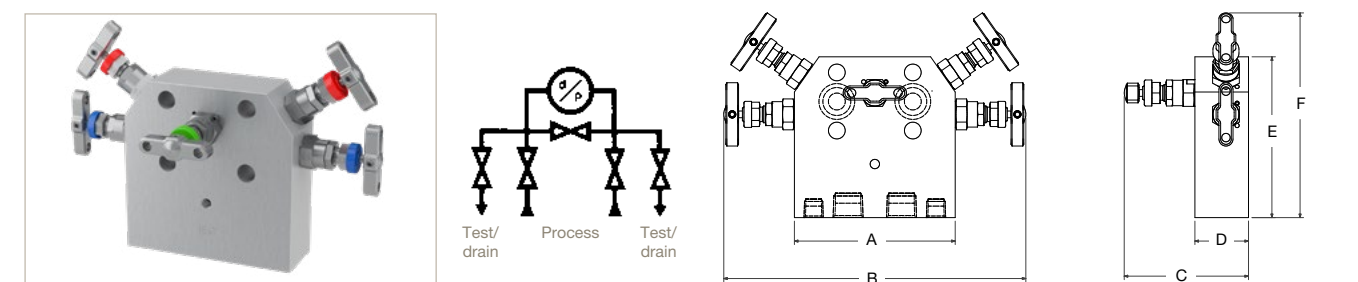
Pressure (PSI)	Inlet	Outlet	Bleed /Test	Dimension				
				A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)
6,000	1/2" F	Flanged	1/4" F	63.5 (2.50)	114.3 (4.50)	38.1 (1.50)	114.3 (4.50)	145.5 (5.73)

HD*3EXT - Female threaded - NPT x Flanged



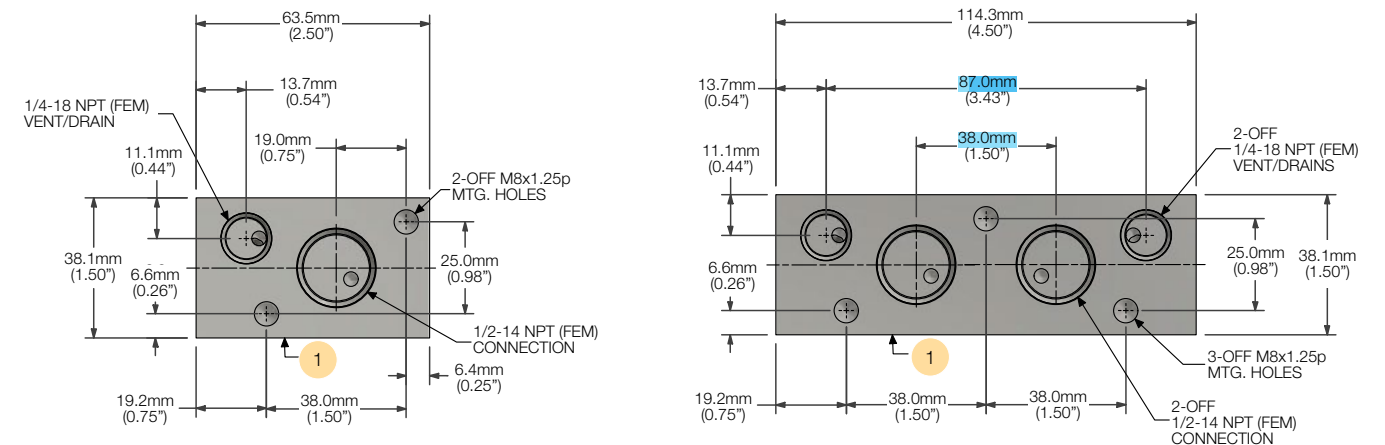
Inlet	Outlet	Drain/Bleed/ Test	Dimension				
			A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)
1/2" NPT	Flanged	Optional	114.3 (4.50)	215.9 (8.50)	88.9 (3.50)	38.1 (1.50)	114.3 (4.50)

HD*5EXT - Female threaded - NPT x Flanged



Inlet	Outlet	Drain/Bleed/ Test	Dimension					
			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)

Manifold base footprint dimensions



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

Manifold footprint for 3 & 5-valve manifolds. Example shown (5-valve): HDS5EXT

Item	Description
1	Manifold outlet to transmitter interface

Notes:

- Recommended base enclosure plate thickness to suit above footprints: 3-5mm.
- Optional variations of these manifold types include compatibility for Emerson Coplanar™ transmitters. Please note, footprint dimensions for the 2-valve equivalents do vary. For further details see page 55.