



Hydraulik - Pneumatik

**Steffen Haupt**  
Moritzer Straße 35  
01589 Riesa

Telefon: 03525 6801-0  
Telefax: 03525 680120  
[info@haupt-hydraulik.de](mailto:info@haupt-hydraulik.de)

# Manifold Valves Two Valve Maniflods H Serie

4190-PM  
Juni 2002

**KATALOG**

**Vertrieb:**

Frau Krauspe	03525 680110	<a href="mailto:krauspe@haupt-hydraulik.de">krauspe@haupt-hydraulik.de</a>
Frau Göhler	03525 680111	<a href="mailto:goehler@haupt-hydraulik.de">goehler@haupt-hydraulik.de</a>

**Technischer Außendienst:**

Herr Burkhardt	03525 680113 0173 5834091	<a href="mailto:burkhardt@haupt-hydraulik.de">burkhardt@haupt-hydraulik.de</a>
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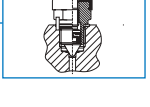

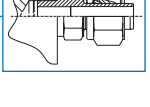




# 'H' Series Two Valve Manifolds

*Catalog 4190-PM  
June 2002*



# 'H' Series Two Valve manifolds

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## Introduction

With many years of manifold development and manufacture Parker Hannifin are able to offer the most comprehensive range of two valve block and bleed manifolds to suit all types of instrumentation installations, specifications and applications.

Now consolidated into one catalog, selection can be made from a comprehensive range of bodies with a variety of connections and valve positions, optimising installation and access opportunities.

Designed to reduce installation costs and improve safety performance, the consolidation of valves into one unit provides you with a combination of instrument isolation together with bleed/vent and test facilities.

In addition to manufacturing manifolds Parker also produce a comprehensive range of single and twin ferrule high integrity tube fittings. Manufactured in a variety of materials these products are used extensively in the oil, gas, petro-chem, power, processing and many other markets.

By integrating these products, instrument manifolds and tube fittings, Parker can offer unique connection combinations which are specifically designed to eliminate site assembled threaded connectors, ingress of debris and contamination from thread sealant materials which often result in instrument failure, replacement and downtime. Eliminating the use of taper threads, factory assembled and tested connections will ensure improved performance through simpler assembly and installation procedures. This system provides total flexibility of tubing position with positive leak proof connections.

Continuous product development may from time to time necessitate changes in the details contained in this catalogue. Parker Hannifin reserve the right to make such changes at their discretion and without prior notification.



All dimensions shown in this catalogue are approximate and subject to change.

### **WARNING**

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

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

### **Offer of Sale**

The items described in this document are hereby offered for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated in the "Offer of Sale" located in catalog 4110-U Needle Valves (U Series).

# 'H' Series Two valve manifolds

## Standard manifold globe style bonnet design

**1. Positive handle retention design** featuring broached square engagement positioned by thread locked grub screw.

**2. "T" bar**  
Ergonomically designed for ease of operation. Anti-tamper and lockable devices can be supplied for on site retro-fit.

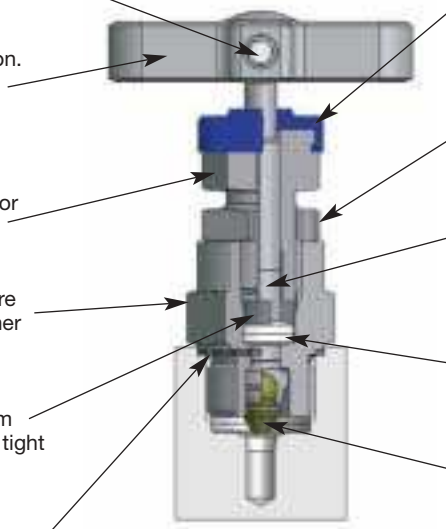
**4. Gland packing adjuster**  
For maximum packing stability and performance, simple and easily adjustable for gland wear compensation.

**6. Valve Bonnet**  
Standard construction for maximum pressure rating with replaceable bonnet sealing washer arrangement.

**8. Thrust Bush**  
Anti rotational adjustor bush ensures uniform packing compression, maximising pressure tight sealing and limiting cold flow passages.

**10. Bonnet/body washer**  
Annealed sealing washer to ensure complete atmospheric leakage and allowing on site retro-fit of bonnets with 100% re-sealing assurance

**For safe reliable and repeatable performance**



**3. Dust Cap**  
This has a dual purpose, preventing air born debris from contaminating the operating spindle thread and providing colour coded functional identification. Isolate (BLUE) Bleed/test (RED).

**5. Gland adjuster lock nut**  
A secure anti vibration locking mechanism to prevent inadvertent gland adjuster loosening.

**7. Anti blowout spindle**  
Designed for low torque operation with high quality micro mirror stem finish for positive gland sealing.

**9. Gland packing (adjustable)**  
Chevron effect dual piece gland packing to provide maximum sealing area contact with minimum gland adjustment.

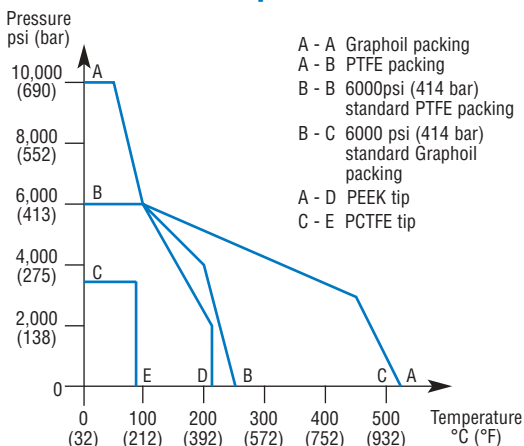
**11. Spindle tip**  
Self centering, non-rotational tip gives successive positive bubble tight shut off assuring the user of leakage free performance and downstream functional safety.

All metallic standard parts are produced in stainless steel, for alternative materials please [refer to page 18](#). Manifolds produced in other specified materials will be provided with non-wetted parts as standard in stainless steel, this applies to items 1, 2, 4, 5 & 8.

### Specification

- Height closed (standard and HP) = 47mm (1.85").  
Height open (standard and HP) = 50.3mm (2.00").
- Number of turns open/close - 3.5.
- Stainless steel construction.
- Maximum standard pressure up to 6,000 psig (414 barg).
- Maximum optional pressure (limited to HP suffix see page 8/9) up to 10,000 psig (689 barg).
- Temperature rating -54C to +538C (-65F to +1000F).
- PTFE standard gland packing (Graphoil optional).
- Maximum temperature PTFE 260C (500F).
- Maximum temperature Graphoil 538C (1000F).

### Pressure vs temperature



### Features

- Standard unit throughout manifold range.
- Operating threads outside washout area.
- Externally adjustable gland.
- Low operating torque.
- Alternative 10,000 psig (689 barg) range available.
- Retro-fit kit for:-  
Anti-tamper spindle.  
Panel mounting.  
Lockable T bar.  
Handwheel with lockable option.
- Bonnet locking pin to prevent accidental removal fitted as standard.
- Alternative graphoil packing for high temperature performance available.
- Alternative self centering tip materials available for gaseous and aggressive fluids.
- Safety back seated spindle prevents stem blowout and provides secondary back up stem seal.
- Packing below threads to prevent lubricant washout.
- All valves 100% factory tested.
- NACE certified wetted parts available.
- Optional cleaned and lubricated suitable for Oxygen service.
- Heat code traceable body and bonnet.



## Optional manifold globe style bonnet design

### For on-site assembly

The design options below can be simply retrofit to any "H" series standard manifold. Retrofit kit part numbers are listed next to the illustrated option and all parts will be supplied in stainless steel regardless of the parent body material.

### For factory fitted assembly







To obtain factory assembled options the manifold part number must be suffixed with the option and function designator. This allows you to select one or both of the bonnets to be fitted with the selected option or, different options to be fitted to either of the bonnets.

Function designator IS – isolate DR–drain/test.

**Example HL\*2VATDR** – manifold with drain/bleed valve (DR) fitted with anti-tamper (AT). Isolate valve will be standard bonnet design.

**Example HL\*2VHWISTHLDR** – manifold with isolate valve fitted with hand-wheel and drain/bleed valve fitted with "T" bar locking mechanism.

Note: Padlocks for lockable handwheels and "T" bars are not supplied (hole size 6mm/0.24").

Standard bonnet	T bar handle locking	Anti tamper spindle
	 <p>Retro-fit kit part number <b>KITTHL</b> Factory assembled suffix <b>THL</b></p>	 <p>For key only - part no. <b>ATHKEY/1</b></p> <p>Retro-fit kit part number <b>KITAT</b> without key <b>KITATK</b> with key Factory assembled suffix <b>AT</b> without key <b>ATK</b> with key</p>
Handwheel	Lockable handwheel	*Panel mounting
 <p>Retro-fit kit part number <b>KITHW</b> Factory assembled suffix <b>HW</b></p>	 <p>Retro-fit kit part number <b>KITLHW</b> Factory assembled suffix <b>LHW</b></p>	 <p>Retro-fit kit part number <b>KITPM</b> Factory assembled suffix <b>PM</b></p>

\*Panel mounting hole diameter = 26mm (1.02").  
Panel thickness = Max 5mm (0.20") Min 2.3mm (.09").

# 'H' Series Two valve manifolds

## Remote mount static pressure manifolds

### Purpose

This series of two-valve manifolds combine valves into one unitised block to perform isolation, bleed and calibration of pressure transmitters, gauges and switches. Process, instrument and vent connections can be provided in a variety of sizes and thread forms including NPT, BSPT<sub>r</sub> and BSPP.



HL\*2VTF



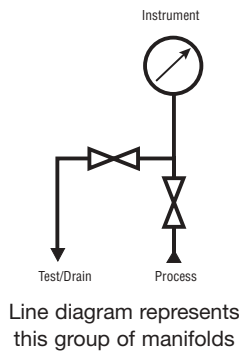
HL\*2V



HL\*2HSDLH



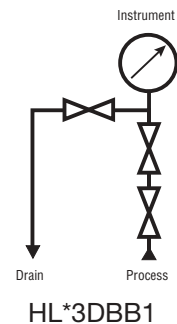
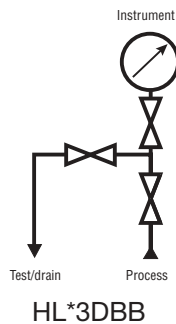
HAL\*2V



HL\*28M8F4F

## Instrument double block and bleed manifolds

Double block and bleed instrument manifolds for dual isolating and bleed purposes. Ideal for limited space and panel installations.

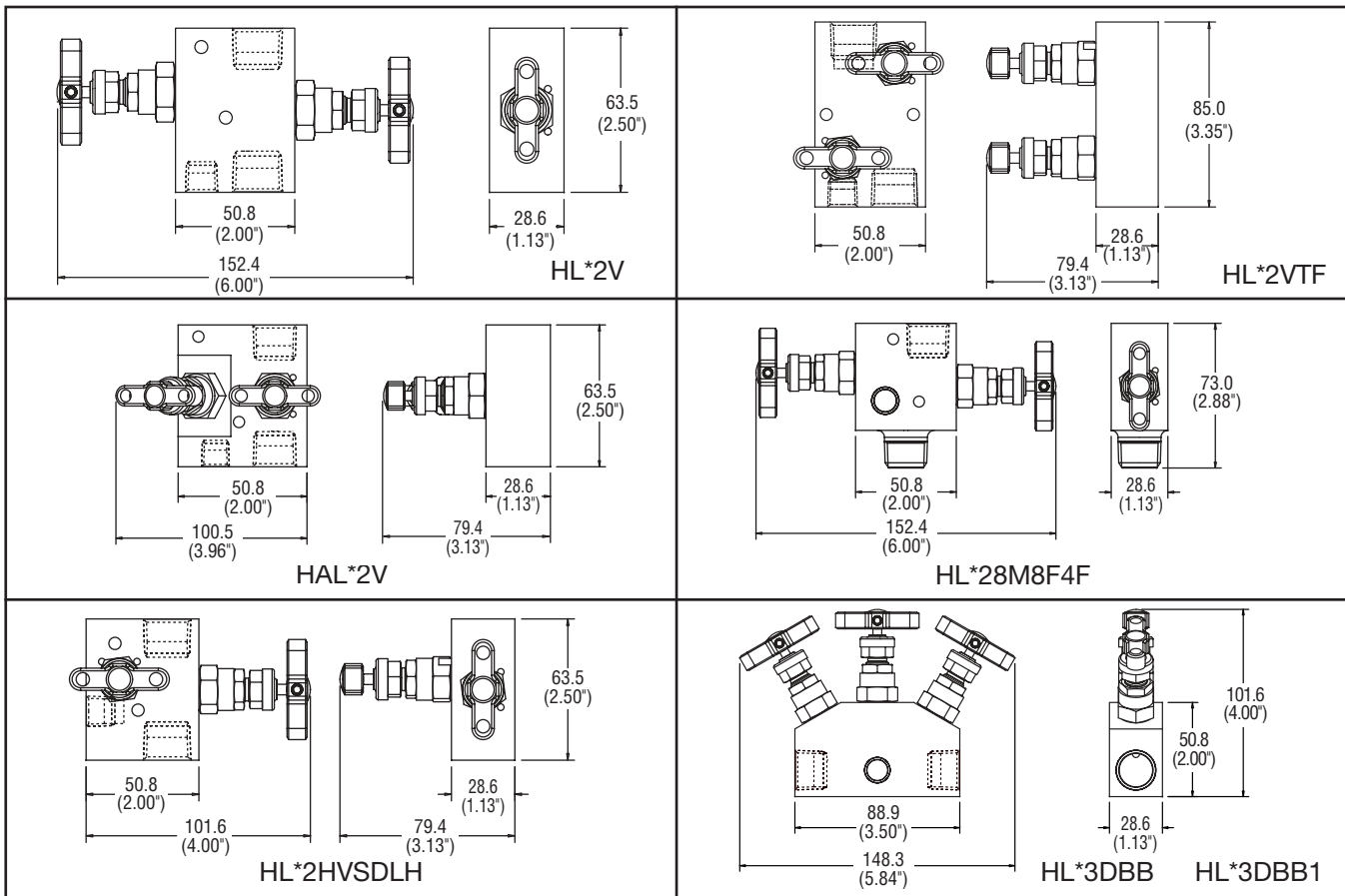


\*For material codes see page 18.

For options see pages 19/20.

# 'H' Series Two valve manifolds

## Remote mount static pressure manifolds



\*Overall width with valves fully open

**Standard product specification:** self centering metal/metal seat, PTFE packed, stainless steel, T bar handle operation, 6000 psig (414 barg).

### Specification

- Maximum standard pressure up to 6,000 psig (414 barg), to ANSI Class 2500.
- Temperature rating - see page 4.
- Standard port sizes up to 1/2" NPT.

### Standard range part numbers

Part No.	Inlet (NPT)	Standard connections	
		Outlet (NPT)	Bleed/test (NPT)
HL*2V	1/2" female	1/2" female	1/4" female
HAL*2V	1/2" female	1/2" female	1/4" female
HL*2HVSDLH	1/2" female	1/2" female	1/4" female
HL*2VTF	1/2" female	1/2" female	1/4" female
HL*28M8F4F	1/2" male	1/2" female	1/4" female
HL*3DBB	1/2" female	1/2" female	1/4" female
HL*3DBB1	1/2" female	1/2" female	1/4" female

\*Insert material designator, see page 18

### Function

Blue cap – isolate,  
Red Cap – drain/bleed

### Features

- Standard high performance bonnet design.
- Colour coded valve function identification.
- Alternative materials of construction available.
- Optional port sizes and thread forms available: BSPT<sub>r</sub>, BSPP.
- Socket and butt weld connections available.
- PTFree connections available (see page 15).
- Blank and bleed plugs available.
- NACE certified on request.
- Optional cleaned and lubricated suitable for Oxygen service.
- Heat code traceable body and bonnet.



## 'H' Series Two valve manifolds

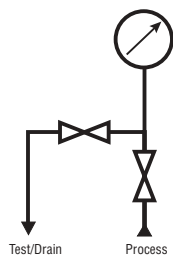
### High pressure 10,000 psig (689 barg) two valve manifolds

#### Purpose

This series of manifolds have been designed for more aggressive applications and for operation up to 10,000 psig (689 barg).



HL\*2VHP



Line diagram represents this group of products



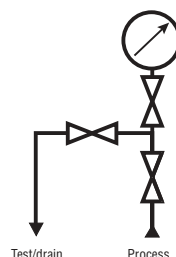
HAL\*2VHP



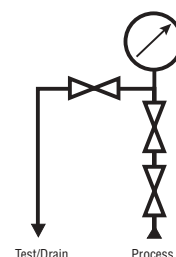
HL\*28M8F4FHP

### Instrument double block and bleed manifolds

Designed for dual isolating and bleed purposes, ideal for limited space and panel installations.



HL\*S3DBBHP



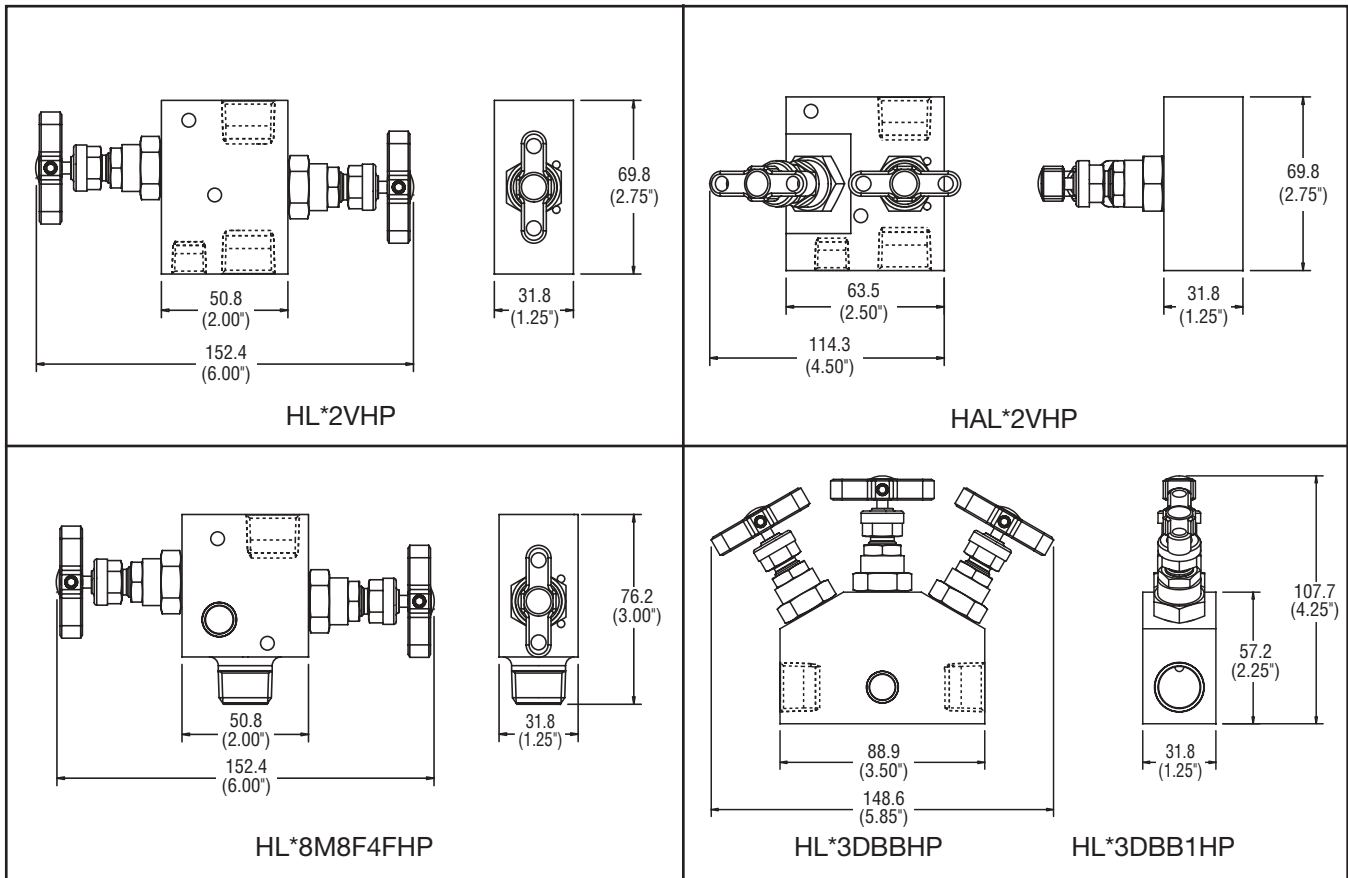
HL\*3DBB1HP

\*For material codes see page 18.

For options see pages 19/20.

# 'H' Series Two valve manifolds

## High pressure 10,000 psig (689 barg) two valve manifolds



\*Overall width with valves fully open

**Standard product specification:** self centering metal/metal seat, PTFE packed, stainless steel, T bar handle operation, 10,000 psig (689 barg).

### Specification

- Maximum standard pressure up to 10,000 psig (689 barg), to ANSI Class 4500 (St. St.).
- Temperature rating - [see page 4](#).
- Standard port sizes up to 1/2" NPT.

### Standard range part numbers

Part No.	Inlet (NPT)	Standard connections	
		Outlet (NPT)	Bleed/test (NPT)
HL*2VHP	1/2" female	1/2" female	1/4" female
HAL*2VHP	1/2" female	1/2" female	1/4" female
HL*28M8F4FHP	1/2" male	1/2" female	1/4" female
HL*3DBBHP	1/2" female	1/2" female	1/4" female
HL*3DBB1HP	1/2" female	1/2" female	1/4" female

\*Insert material designator, [see page 18](#)

### Features

- Standard high performance bonnet design.
- Colour coded valve function identification.
- Alternative materials of construction available.
- Optional port sizes and thread forms available: BSPT, BSPP.
- Socket and butt weld connections available.
- PTFree connections available ([see page 15](#)).
- Blank and bleed plugs available.
- NACE certified on request.
- Optional cleaned and lubricated suitable for Oxygen service.
- Heat code traceable body and bonnet.

### Function

Blue cap – isolate,  
Red Cap – drain/bleed

# 'H' Series Two valve manifolds

## Direct mount static pressure manifolds

### Purpose

This series of two valve manifolds is designed for direct mounting to process measurement pressure transmitters. Standard functions include isolation, test, bleed and calibration.



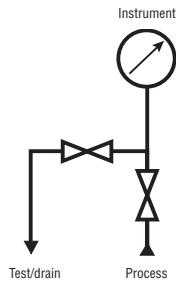
HD\*2EXT  
Base entry enclosure mountable



HD\*2HLHFF  
Straight through bolted flange



HEF\*2LH



Line diagram represents  
this group of products



HD\*2HLH



HEF\*2LH8N

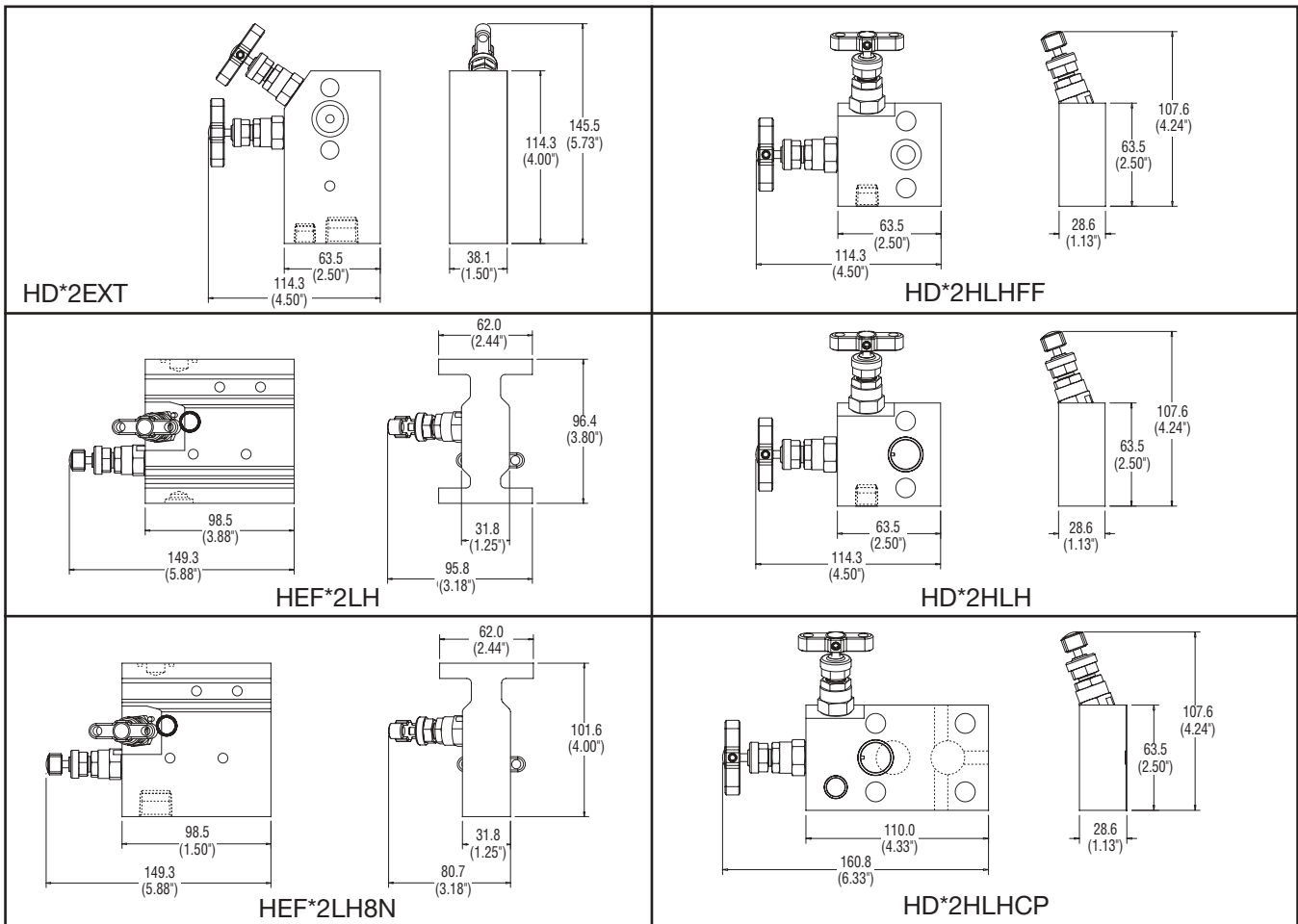


HD\*2HLHCP  
For Model 3051 transmitter

\*For material codes see page 18.

For options see pages 19/20.

## Direct mount static pressure manifolds



Overall width with valves fully open

**Standard specification:** self centering metal/metal seat, PTFE packed, stainless steel, T bar handle operation, 6000 psig (414 barg). Supplied as standard with 1 off PTFE instrument seal and appropriate 7/16" UNF high tensile zinc plated carbon steel bolts.

### Standard range part numbers

Part No.	Inlet (NPT)	Standard connections	
		Outlet	Drain/bleed
HD*2EXT	1/2" female	Flanged	1/4" female
HEF*2LH	Flanged	Flanged	1/4" female
HEF*2LH8N	1/2" female	Flanged	1/4" female
HD*2HLHFF	Flanged	Flanged	1/4" female
HD*2HLH	1/2" female	Flanged	1/4" female
HD*2HLHCP	1/2" female	Flanged	1/4" female

\*Insert material designator

### Function

Blue cap – isolate,  
Red Cap – drain/bleed

All manifolds are drilled suitable for bracket mounting - standard manifold support brackets are available.

Straight through flow pattern rising plug valves are available for HEF\*2LH and HEF\*2LH8N.

\*For material codes see page 18. For options see pages 19-20.

### Specification

- Maximum standard pressure up to 6,000 psig (414 barg), to ANSI Class 2500.
- Temperature rating - see page 4.
- Standard port sizes up to 1/2" NPT.

### Features

- Standard high performance bonnet design.
- Colour coded valve function identification.
- Alternative materials of construction available.
- Optional port sizes and thread forms available: BSPT, BSPP.
- Socket and butt weld connections available.
- PTFree connections available (see page 15).
- Blank and bleed plugs available.
- NACE certified on request.
- Optional cleaned and lubricated suitable for Oxygen service.
- Heat code traceable body and bonnet.

# 'H' Series Two valve manifoldss

## Flanged connected static pressure manifolds

### Purpose

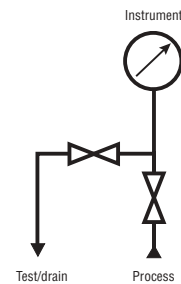
These manifolds are designed for fast and efficient installation and removal of pressure measurement instruments. Single kidney flange arrangements are provided with optional inlet connections for total installation flexibility, the redundant connection can also be used for purge operations.

The dual flanged model enables users to mount two pressure measuring devices connected to a common inlet, redundant cross-hole connections can be used for process purging.

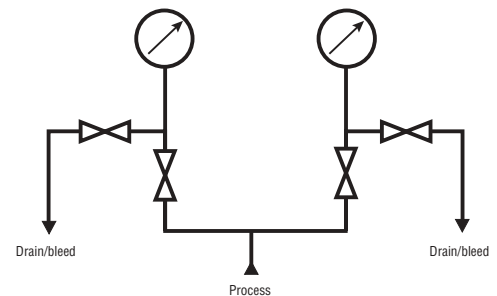
Kidney flange connections can also be provided with male threaded outlet, A-LOK, CPI or PTFree connections. Closing the isolation valves and operating the bleed valve gives operators the opportunity of venting trapped pressurised fluids to an environmentally safe area. Further access through the bleed connection enables in-situ instrument calibration.



HL\*2V1KFMB



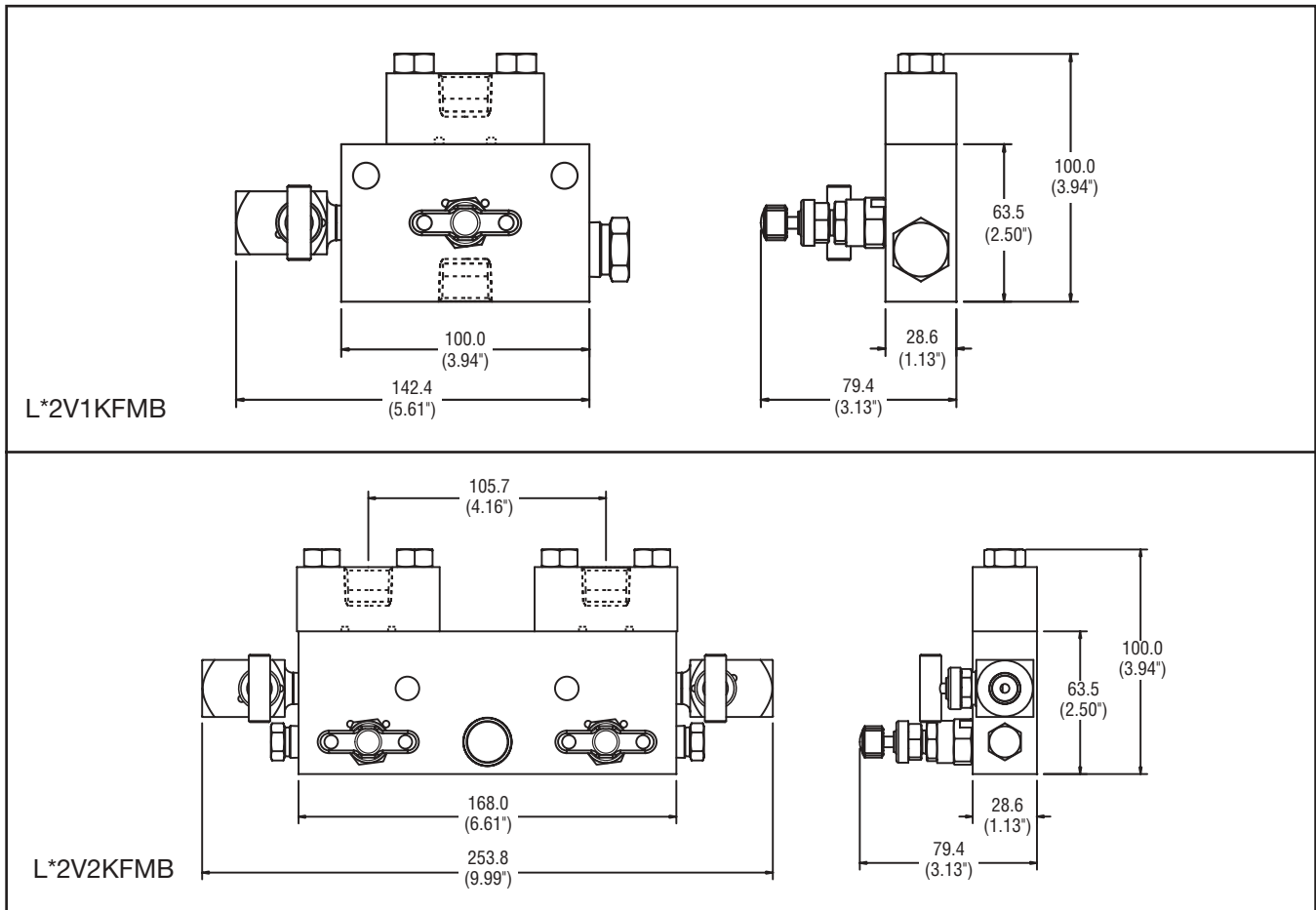
HL\*2V2KFMB



All manifolds are drilled suitable for bracket mounting - standard manifold support brackets are available.  
\*For material codes [see page 18](#). For options [see pages 19-20](#).



## Standard dimensions



Overall width with valves fully open

**Standard product specification:** self centering metal/metal seat, PTFE packed, stainless steel construction, T bar handle operation, 6000 psig (414 barg). Bleed valves fitted with Fluorocarbon Rubber gland seals.

### Specification

- Maximum standard pressure up to 6,000 psig (414 barg), to ANSI Class 2500.
- Temperature rating -40C to +204C (-40F to +400F)
- Standard port sizes up to 1/2" NPT.

### Standard range part numbers

Part No.	Inlet (NPT)	Standard connections	
		Outlet (NPT)	Bleed/test (NPT)
L*2V1KFMB	2 x 1/2" female	1 x Flanged x 1/2" female	1/4" female
L*2V2KFMB	1/2" female	2 x Flanged x 1/2" female	1/4" female

\*Insert material designator

### Function

Blue cap – isolate,  
Red Cap – drain/bleed

\*For material codes see page 18. For option codes see pages 19-20.

### Features

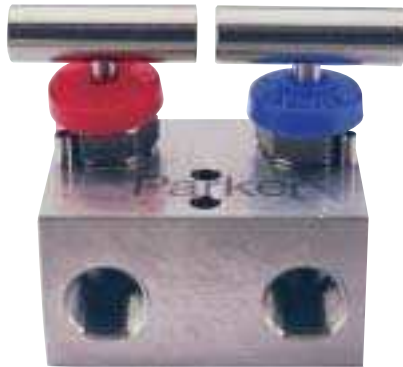
- Standard high performance bonnet design.
- Colour coded valve function identification.
- Alternative materials of construction available.
- Optional port sizes and thread forms available: BSPT<sub>r</sub>, BSPP.
- Socket and butt weld connections available.
- PTFree connections available (see page 15).
- Blank and bleed plugs available.
- NACE certified on request.
- Optional cleaned and lubricated suitable for Oxygen service.
- Heat code traceable body and bonnet.
- Mini bleed valves for compact installation.

# 'H' Series Two valve manifolds

## Miniature static pressure manifolds

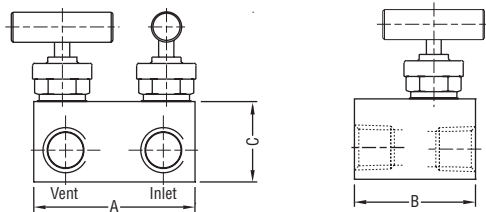
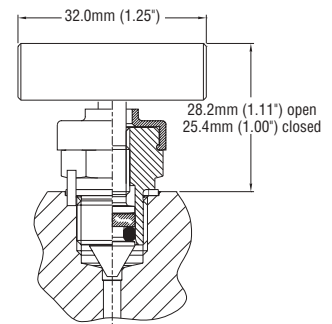
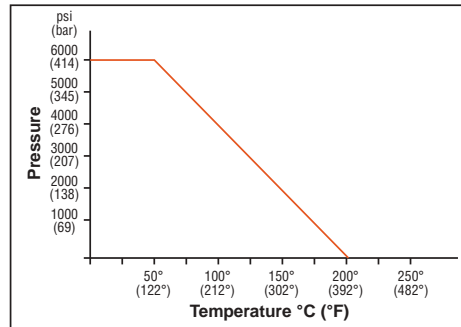
### Purpose

These manifolds are ideal for installation inside control panels or any size limited construction. They provide size, weight and cost savings whilst at the same time meeting industry standard pressure rating performance of 6,000psig (414 barg).



MLS2VTF4N

### Technical specification, Pressure vs temperature



### Specification

- Maximum pressure: 414 bar (6000 psi)
- Maximum temperature: 204° C (400° F)
- Packing seal ring: Fluorocarbon Rubber
- Back up ring: P.T.F.E.
- Material of construction: Stainless steel
- Seat construction: Metal/metal

Dimensions mm (inch)						
Part Number	Inlet	Outlet	Drain/vent	A	B	C
MLS2VTF4N	1/4" NPT female	1/4" NPT female	1/4" NPT female	50.8mm (2.0")	38.1mm (1.5")	27.0mm (1.08")
MLS2VTF	1/2" NPT female	1/2" NPT female	1/4" NPT female	50.8mm (2.0")	50.8mm (2.0")	27.0mm (1.08")

## Easy to install, easy to operate and easy on the budget

Parker's range of miniature valves and manifolds are ideal for installation inside control panels and other size limited installations where **space** and **weight** are primary considerations.

### Performance

Working with any fluids this valve will provide bubble tight shut off. To avoid seat damage, applications should be provided with upstream filtering to remove any particle contamination.

The valve is designed with an anti-blow out proof stem and a metallic back seat to minimise atmospheric leakage in the event of stem seal failure. To reduce sealing ring wear, an anti extrusion P.T.F.E. back up ring is fitted as a standard.

# 'H' Series Two valve manifolds

## PTFree connect™

### Manifold connections

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

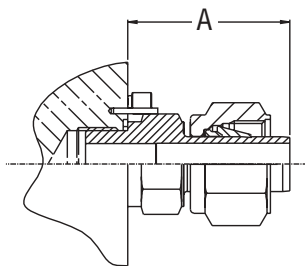
The PTFree connect system enables users to assemble tube lines to any of the manifold ports without the need for PTFE tape or other liquid sealant.

The PTFree connection can be applied to any of the manifold featured in this catalogue. these will be factory fitted, pin locked and pressure tested.

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

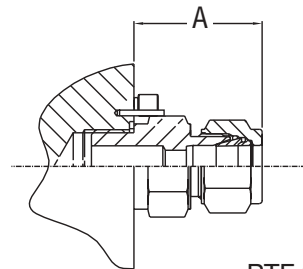
Manifolds can also be supplied with male connectors using the same thread form as the PTFree connect. They can be provided factory fitted, pin locked and tested before they leave our manufacturing plant.

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 male connectors inlet and outlet should be restricted to 3/8" or 10mm and 1/4" or 6mm o/d for drain/bleed.



A = 29.70mm (1.17") 6mm/1/4" tube  
 A = 35.00mm (1.38") 10mm tube  
 A = 35.00mm (1.38") 3/8" tube  
 A = 36.90mm (1.45") 12mm/1/2" tube

PTFree connect  
(Code FRC)



A = 31.50mm (1.25") 6mm/1/4" tube  
 A = 36.60mm (1.44") 10mm tube  
 A = 36.60mm (1.44") 3/8" tube

PTFree male connectors  
(Code FRCM)

### Part Number Construction Examples

				Inlet, Outlet, Drain/vent/test, tube size/thread size & form		
Manifold Part No. + option	Connection Style FRC or FRCM	A-LOK(L) or CPI(B) L or B	Metric or inch tube M or I	Inlet (E) + size	Outlet (X) + size	Drain/vent/test
HLS2V	FRC	L	M	E12	X12	D6
Part No. HLS2VFRCLME12X12D6 = 2 valve manifold with all A-LOK PTFree connect™ Inlet 12mm, Outlet 12mm Drain/vent/test 6mm. Stainless steel standard construction						
HALS2V	FRCM	B	I	E6	X6	D4N
Part No. HALS2VFRMCMBIE6X6D6N = 2 valve manifold with CPI PTFree male connector Inlet 3/8 o.d, Outlet 3/8 o/d Drain/vent/test 1/4" NPT. Stainless steel standard construction						

# 'H' Series Two valve manifolds

## Manifold bracket support

### Purpose

It is essential to fully support impulse/pressure measurement tubing lines, manifolds and instruments. All Parker manifolds are designed to accommodate bracket mounting and support, a full range of brackets with additional U bolts are available.

Brackets are designed for panel and wall mounting and give full clearance for ease of handle operation. They are also suitable for vertical and horizontal positioning on 2" pipe-stand.

Standard brackets are produced from 4mm thick carbon steel plate to provide maximum rigidity and support. For full corrosion protection the brackets are shot blasted and zinc sprayed.

Alternative bracket material is available upon request.

### Part No. BKT1CS

Simple to install bracket for horizontal/vertical 2" stanpipe, wall, panel or base mounting, bracket stand-off prevents handle obstruction.

Suitable for: -

HL\*2V

HL\*28M8F4F

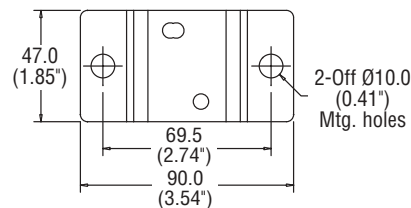
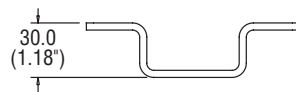
HAL\*2V

HL\*2HVSDLH

(Not suitable for HP versions)

For 'U' bolts suffix part no. with A.

Example BKT1CSA



For manifold/bracket bolts add 'bolt set' suffix from matrix.

Example: Bracket, 'U' bolt and manifold/bracket bolts BKT1CSA1 (suitable for H\*L2V).

### Part No. BKT2CS

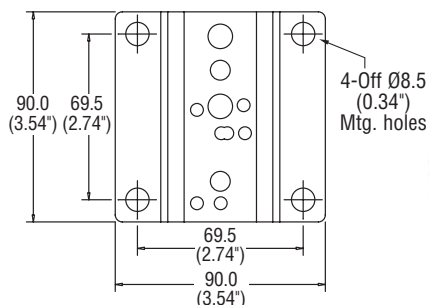
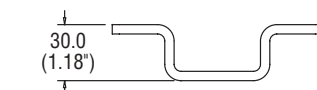
Suitable for the above manifolds and: -

HL\*2VTF

HL\*3DBB

HL\*3DBB1

Suitable for all HP versions



For 'U' bolts suffix part no. with A

Example BKT2CSA

For manifold/bracket bolts add bolt set suffix from matrix.

Example: Bracket, 'U' bolt and manifold/bracket bolts BKT2CSA2 (suitable for HL\*3DBB).

## Manifold bracket support

### Part No. BKT3CS

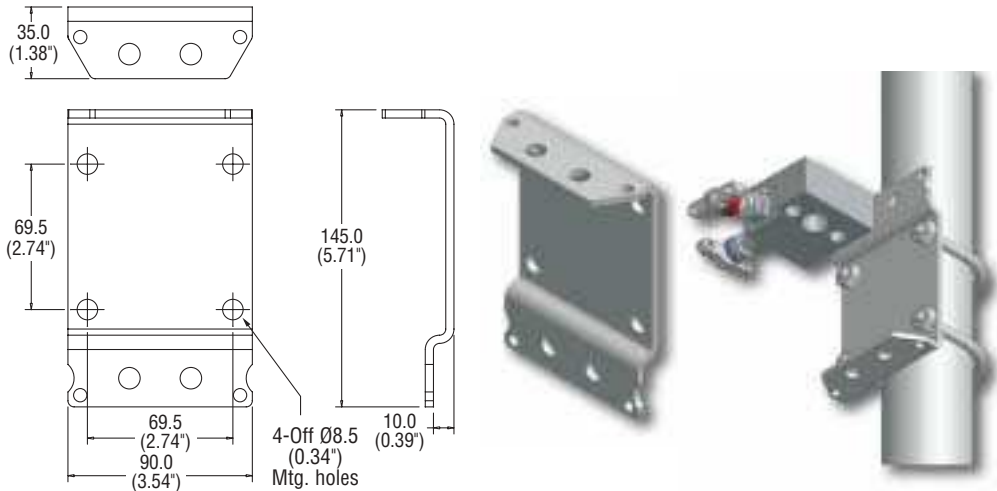
Suitable for: -  
HD\*2HLH  
HD\*2HLHCP  
HD\*2HLHFF

For 'U' bolts suffix part no. with A  
Example BKT3CSA

For manifold/bracket bolts add bolt set suffix from matrix.

Example: Bracket, 'U' bolt and manifold/bracket bolts BKT3CSA3 (suitable for HD\*2HLH).

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



### Part No. BKT4CS

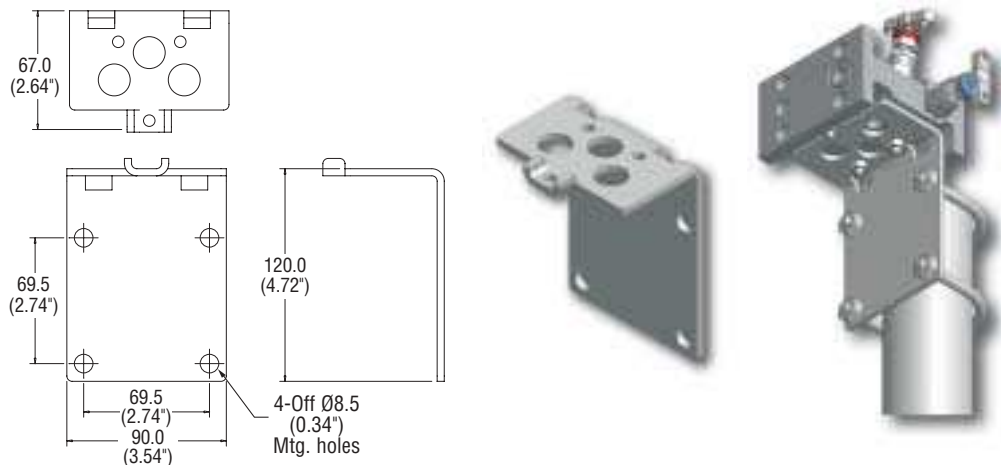
Suitable for: -  
HEF\*2LH8N  
HEF\*2LH

For 'U' bolt suffix part no. with B  
Example BKT4CSB

For manifold/bracket bolts add bolt set suffix from matrix.

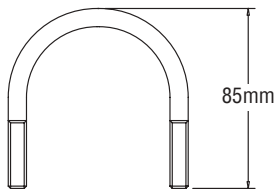
Example: Bracket, 'U' bolt and manifold/bracket bolts BKT4CSA4 (suitable for HEF\*2LH).

For extruded style manifold blocks providing full base support for horizontal or vertical fixing to 2" pipestand.



## 'U' Bolt with nuts & washers for 2" NB standpipe

### Part No. UBACS



Carbon steel standard



## Manifold/bracket bolts c/w nuts and washers.

Manifold Part No.	Bolt Set	Part No.	Suffix
HL*2V	M5 x 45 Bolt	BS1	1
HAL*2V	M5 x 45 Bolt	BS1	1
HL*28M8F4F	M5 x 45 Bolt	BS1	1
HL*2HVSDLH	M5 x 45 Bolt	BS1	1
HL*2VTF	M5 x 45 Bolt	BS1	1
HL*3DBB	M10 x 14 Bolt	BS2	2
HL*3DBB1	M10 x 14 Bolt	BS2	2
HD*2HLH	M6 x 14 Bolt (1-OFF) M10 x 14 Bolt (1-OFF)	BS3	3
HD*2HLHFF	M6 x 14 Bolt (1-OFF) M10 x 14 Bolt (1-OFF)	BS3	3
HD*2HLHCP	M10 x 14 Bolt (2-OFF)	BS2	2
HEFS2LH	M6 x 45 Bolt	BS4	4
HEFS2LH8N	M6 x 45 Bolt	BS4	4

All nut and bolt sets are standard in Carbon Steel



# 'H' Series Two valve manifolds

## Material options

		Manifold types			
		HL*2V	HL*28M8F4F	HL*2HSDLH	HD*2HLHFF
Material	*Insert code for selected material in part number	HAL*2V	HL*2VTF	HL*3DBB	HD*2HLHCP
		page 6	page 6	page 6	page 10
Stainless steel Std	S	✓	✓	✓	✓
Monel	M	✓	✓	✓	✓
Duplex	D1	✓	✓	✓	✓
Super Duplex	D2	✓	✓	✓	✓
Hasteloy	HC	✓	✓	✓	✓
Carbon Steel	C	✓	✓	✓	✓
6Mo	6MO	✓	✓	✓	✓
Titanium	T	✓	✓	✓	✓
Incoloy 825	825	✓	✓	✓	✓
Inconel 625	625	✓	✓	✓	✓

All non-wetted parts ie those not in contact with the process medium will be supplied in stainless steel.  
High pressure versions can be supplied in any of the above materials.

		Manifold types			
		HEF*2LH	HD*2EXT	HL*2V1KFMB	
Material	*Insert code for selected material in part number	HEF*2LH8N	HD*2HLH	HL*2V2KFMB	ML*2VTF4N
		page 10	page 10	page 12	page 14
Stainless steel Std	S	✓	✓	✓	✓
Monel	M		✓	✓	✓
Duplex	D1		✓	✓	✓
Super Duplex	D2		✓	✓	✓
Hasteloy	HC		✓	✓	✓
Carbon Steel	C	✓	✓	✓	
6Mo	6MO		✓	✓	✓
Titanium	T		✓	✓	✓
Incoloy 825	825		✓	✓	✓
Inconel 625	625		✓	✓	✓

All non-wetted parts ie those not in contact with the process medium will be supplied in stainless steel.

Available options				Page	6/7	6/7	6/7	10/11	10/11	10/11	12/13	14		
Suffix adding sequence	Function	Option Detail	Part No. suffix	HL*2V+HP	HL*28M8F4F+HP	HL*2HVSDDLH	HEF*2LH	HD*2EXT	HD*2HLHFF	HL*2VIKFMFB			Option Detail	
1	Gland packing	Graphoil	3	✓	✓	✓	✓	✓	✓	✓			Graphite	
2	Seating	PCTFE	9	✓	✓	✓	✓	✓	✓	✓			PCTFE	
		PEEK	PK	✓	✓	✓	✓	✓	✓	✓			PEEK	
		Note 1	Rising plug valve style PTFE packed	RP				✓						Rising plug valve style PTFE packed
			Stellite tip	ST	✓	✓	✓	✓	✓	✓	✓			Stellite tip
3	Plug/Bleed valve (supplied loose in box)	Blank plug 1/4 NPT	P	✓	✓	✓	✓	✓	✓			✓	Blank plug 1/4 NPT	
		Bleed valve 1/4 NPT	BV	✓	✓	✓	✓	✓	✓			✓	Bleed valve 1/4 NPT	
4	Connection and bolting	Note 2	Socket weld (* insert pipe size)	SW*NB	✓	✓	✓	✓	✓	✓			Socket weld *insert pipe size	
		Note 2	Butt weld (* insert pipe size)	BW*NB	✓	✓	✓	✓	✓			✓	Butt weld * insert pipe size	
		Note 3	DIN 19213 sealing grooves	DIN†				✓	✓					DIN 19213 sealing grooves
			BSPT (*insert pipe size (e.g. 8K = 1/2"))	*K	✓	✓	✓	✓	✓	✓	✓			BSPT (*insert pipe size (e.g. 8K = 1/2"))
		Note 4	BSPP (*insert pipe size (e.g. 8R = 1/2"))	*R	✓	✓	✓	✓	✓	✓			✓	BSPP * pipe size (e.g. 8R = 1/2")
			St. St. Mounting bolts	SSB				✓	✓	✓	✓			St. St. Mounting bolts
			M10 x 1.5 CS Mounting bolts	CSB10				✓	✓	✓				M10 x 1.5 CS Mounting bolts
			M10 x 1.5 St. St. Mounting bolts	SSB10				✓	✓	✓				M10 x 1.5 St. St. Mounting bolts
			Front face drain 1/4" NPT	FFD				✓	✓	✓				Front face drain 1/4" NPT
			Bolts for 3051 inclusive flange	CSBCP						✓				Bolts for 3051 inclusive flange
	Swivel gauge outlet (**insert size/thread N=NPT)	**SG		✓	✓	✓		✓				Swivel gauge outlet (**insert size/thread N=NPT)		
5	Connection size for tubing	See below											See below	
6	Operating mechanism (See page 5 for details)	Lockable T bar	THL	✓	✓	✓	✓	✓	✓	✓			Lockable T bar	
		Anti tamper spindle	AT	✓	✓	✓	✓	✓	✓	✓			Anti tamper spindle	
		Anti tamper spindle & key	ATK	✓	✓	✓	✓	✓	✓	✓			Anti tamper spindle & key	
		Handwheel	HW	✓	✓	✓	✓	✓	✓	✓			Handwheel	
		Lockable handwheel	LHW	✓	✓	✓	✓	✓	✓	✓			Lockable handwheel	
7	Mounting	Note 5	Assembled to bracket	BRK	✓	✓	✓	✓	✓	✓			Assembled to bracket	
8	Condition	NACE (latest issue)	NACE	✓	✓	✓	✓	✓	✓	✓			NACE (latest issue)	
		Cleaned and lubricated for oxygen use	OXY	✓	✓	✓	✓	✓	✓	✓		✓	Cleaned and lubricated for oxygen use	
		Firesafe	FS	✓	✓	✓							Firesafe	
		Note 6	Heat code trace certificates	HCT	✓	✓	✓	✓	✓	✓	✓	✓		Heat code trace certificates
			Test certificates	TC	✓	✓	✓	✓	✓	✓	✓	✓		Test certificates
	Air testing	PT	✓	✓	✓	✓	✓	✓	✓	✓		Air testing		

**Note 1** Seat material RP=standard acetal, RP9 = PTFE, RPPK = PEEK.

**Note 2** For tube socket or tube butt weld use 1/16 inch denominations and change NB to TB. For metric tube size use actual metric (mm) dimensions e.g. SW12MMTB.

**Note 3** Insert seal type 'B1', 'B2', 'B3'.

**Note 4** For BSPP connections drain/bleed will be 1/8 BSPP.

**Note 5** Bracket will include 'U' bolt & manifold/bracket bolts.

**Note 6** Heat code traceable certificates for body and bonnet.

**Accessories and spares**

Description	Part number	Box Quantity
PTFE manifold/instrument seals	HPTFESEAL/10	10
Graphoil manifold/instrument seals	HGRAPHSEAL/10	10
Isolate valve with PTFE gland, metal seat	HBNTS*ISPTFE/3	3
Drain/bleed valve with PTFE gland, metal seat	HBNTS*DRPTFE/3	3
Isolate valve with graphoil gland, metal seat	HBNTSDRGRAP/3	3
Drain/bleed valve with graphoil gland, metal seat	HBNTSDRGRAP/3	3

\*Insert 9 for PCTFE seat

\*Insert PK for PEEK



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**Parker Hannifin plc**  
Instrumentation Products Division  
Riverside Road  
Pottington Business Park  
Barnstaple, Devon EX31 1NP  
England  
Tel: +44 (0)1271 313131  
Fax: +44 (0)1271 373636



**Parker Hannifin Corp.**  
Instrumentation Valve Division  
2651 Alabama Hwy 21 N  
Jacksonville, AL36265  
U.S.A  
Tel: (256) 435 2130  
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