

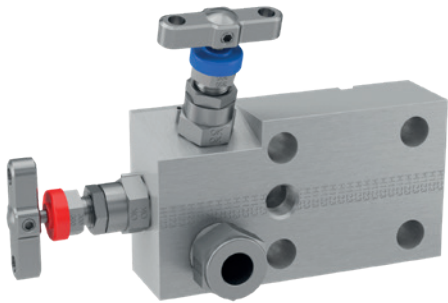
Manifolds for 2051/3051 Coplanar™ Transmitters

Introduction

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

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

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

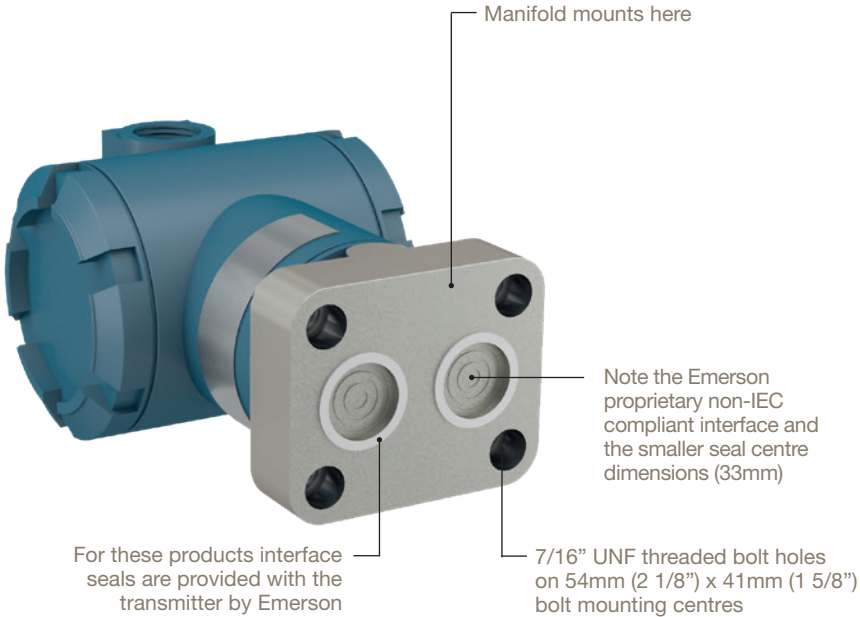


Example shown: 2-valve block and bleed direct mount manifold suitable for Emerson/Rosemount™ Coplanar™ transmitter with Parker Superior Advantage fully integrated inverted A-LOK® tube fitting connections.

Recognising and understanding the Emerson specific Coplanar™ transmitter



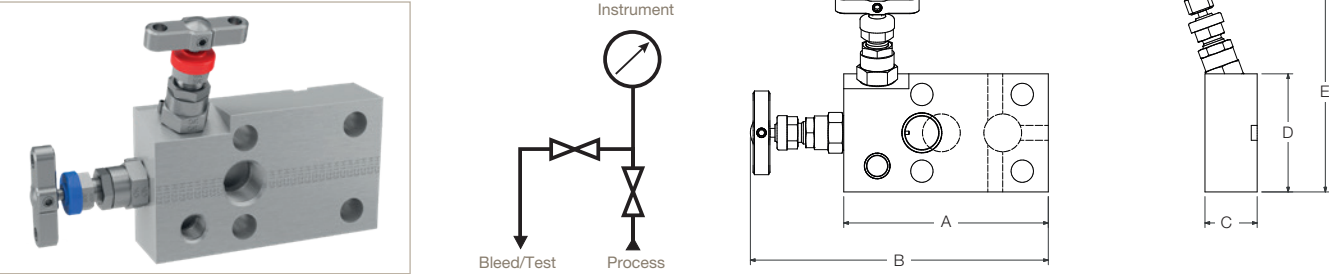
3051 DP transmitter, shown with the Emerson flange adapter in lieu of a manifold. A directly mounted Parker Coplanar™ manifold, replaces this.



3051 DP transmitter, shown with the Emerson flange adapter removed.

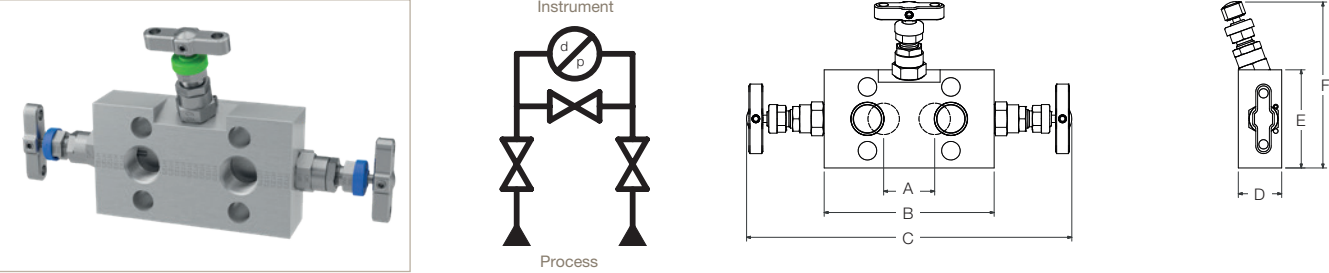
Manifolds for 2051/3051 Coplanar™ Transmitters

HD*2MCP - Female threaded - NPT x Flanged



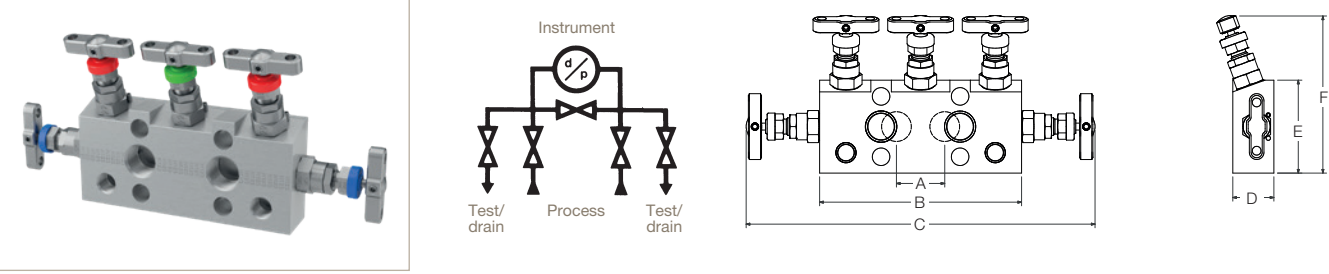
Inlet	Outlet	Bleed/Test	Dimension				
			A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)
1/2"NPT	Flanged	1/4" NPT	110.0 (4.33)	160.8 (6.33)	28.6 (1.13)	63.5 (2.50)	107.6 (4.24)

HD*3MCP - Female threaded - NPT x Flanged



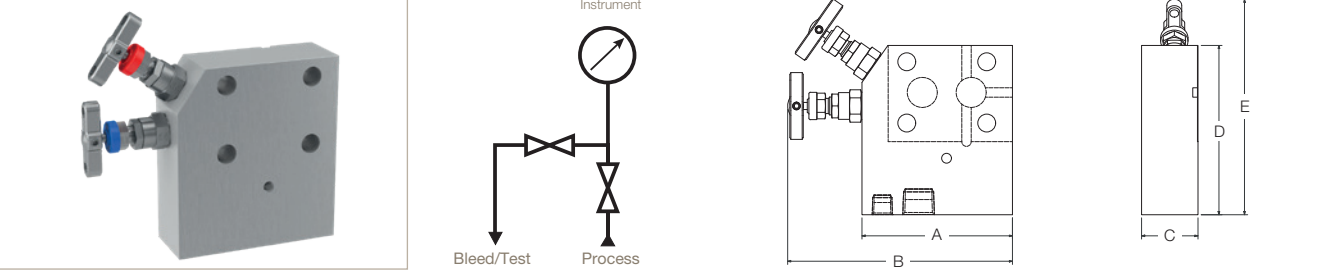
Inlet	Outlet	Bleed/Test	Dimension					
			A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)
1/2" NPT	For 3051	Optional	33.0 (1.30)	110.0 (4.33)	211.6 (8.33)	28.6 (1.13)	63.5 (2.50)	107.6 (4.24)

HD*5MCP - Female threaded - NPT x Flanged



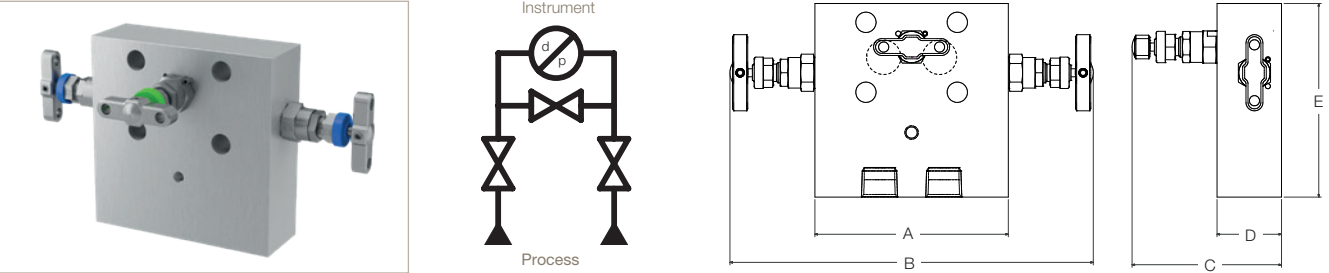
Inlet	Outlet	Bleed/Test	Dimension					
			A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)	F mm (inch)
1/2" NPT	Flanged	1/4" NPT	33.0 (1.30)	138.0 (5.43)	239.6 (9.43)	28.6 (1.13)	63.5 (2.50)	107.6 (4.24)

HD*2MCPEXT - Female threaded - NPT x Flanged



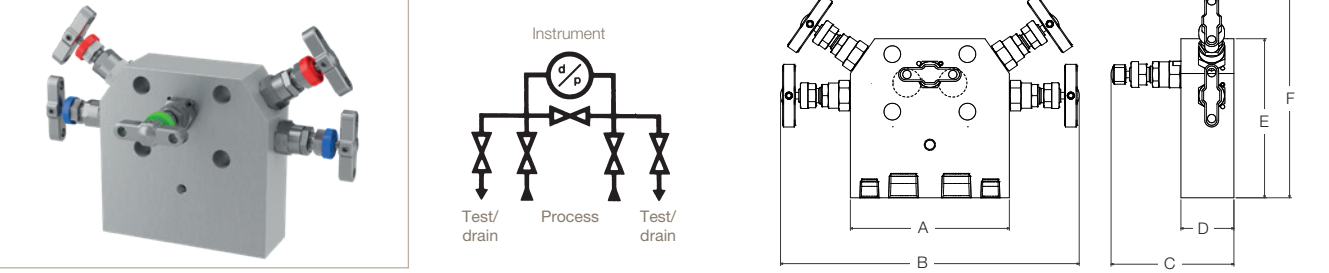
Inlet	Outlet	Bleed/Test	Dimension				
			A mm (inch)	B mm (inch)	C mm (inch)	D mm (inch)	E mm (inch)
1/2"NPT	Flanged	1/4" NPT	101.6 (4.00)	151.8 (5.98)	38.1 (1.50)	114.3 (4.50)	145.5 (5.73)

HD*3MCPEXT - Female threaded - NPT x Flanged



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*5MCPEXT - 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)

Manifolds for 2051/3051 Coplanar™ Transmitters

Ordering information

Example 1 (Default): **HDS5MCP**

Example 2: **HD6MO3MCPEXTDTP3ATE**

Example 3: **HDM5MCP4NATKVOXNC**

Example 4: **HDS5MCPPFCAM126PKNC**

Series			
HD	Flat barstock direct mount to instrument manifolds with 2051/3051 Coplanar™ style outlet flange¹		

¹ Default standard connections for pipe/thread to flange are: 1/2" NPT Fem. inlet with 2051/3051 Coplanar™ outlet flange and 1/4" NPT Fem. vents/drains/bleeds.

Materials			
S	316/316L Stainless Steel	HC	Alloy C276
6MO	6MO Sup. Aust. St.Steel	T	Titanium Gr. 2²
M	Alloy M400²	825	Alloy 825
D1	Duplex 22 Cr. Steel	625	Alloy 625
D2	Super Duplex 25 Cr. Steel	C	Carbon Steel³

² This material selection down-rates manifold.

³ 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

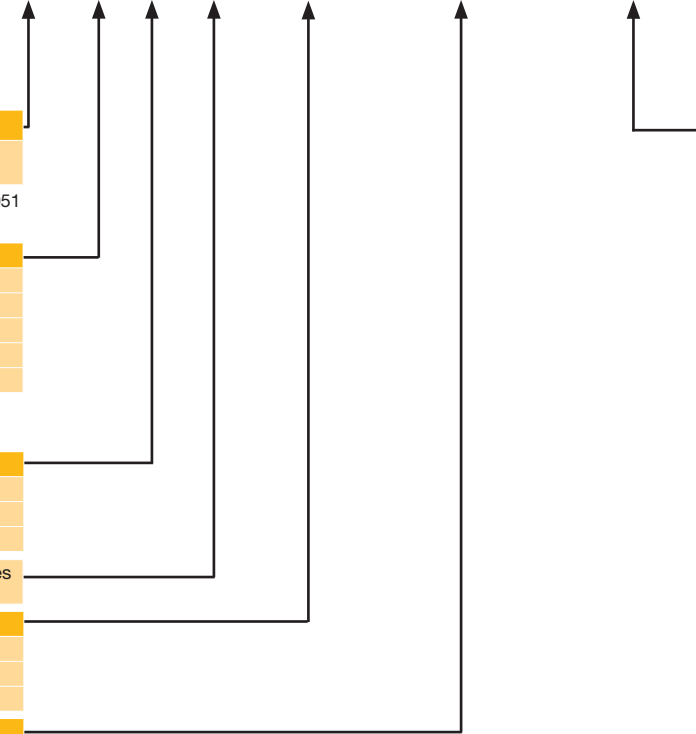
MCP	Mandatory designator defining barstock manifold with traditional inlet centres and 2051/3051 Coplanar™ transmitter interface flange
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Application Configuration	
EXT	Extended body base mounting especially suitable for enclosures
CT	Suitable for fiscal meterin/custody transfer applications. 5-valve versions only
DTP	Downstream test ports. 3-valve versions only. 1/4" NPT only

Connections - Standard Options			
	Inlet	Outlet	Vent/Drain/Bleed/Test/Purge
*	1/2" NPT Fem.	2051/3051 Coplanar	1/4" NPT Fem.
4N	1/4" NPTFem.	2051/3051 Coplanar	1/4" NPT Fem.
4K	1/4" BSPT Fem.	2051/3051 Coplanar	1/4" BSPT Fem.
4R	1/4" BSPP Fem.	2051/3051 Coplanar	1/4" BSPP Fem.
8K	1/2" BSPT Fem.	2051/3051 Coplanar	1/4" BSPT Fem.
8R	1/2" BSPP Fem.	2051/3051 Coplanar	1/4" BSPP Fem.
SW8	1/2" NB Fem. SW ⁴	2051/3051 Coplanar	1/4" NPT Fem.

IV	Inverted Connection Tube OD⁵	A A-LOK	M Metric	6 6mm	2051/3051 Coplanar	4F 1/4" NPT Fem.⁷
PF	PTFree connect tube stub⁶			10 10mm		
PFC	PTFree connect male union⁶	Z CPI		12 12mm		
			I Imperial	4 1/4"		
				6 3/8"		
				8 1/2"		

HD	S	5	MCP			
HD	6MO	3	MCP	EXTDTP		3ATE
HD	M	5	MCP		4N	ATKVOXNC
HD	S	5	MCP		PFCAM126	PKNC



* Default standard connection; no designator required. Examples: **HDS2MCP**, **HDS5CPEXT**.

As connection selections vary, further designation is required. Example: 1/2" BSPP Fem. inlet, 2051/3051 Coplanar & 1/4" NPT Fem. vent/drain/bleed = **8R4F**

⁴ As standard, valves with Female Socket Weld connections will be of the same length as per the equivalent NPT pipe threaded variants.

⁵ 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**

⁶ Examples:
• 10mm A-LOK tube stub con. inlet & 1/4" NPT Fem. vent/drain = **PFAM104F**
• 12mm A-LOK male union con. inlet & 6mm A-LOK vent/drain = **PFCAM126**

⁷ 1/4" NPT Fem. is default standard for bleed/vent/drain, some model types may be available with other connections.

- 5-valve barstock manifold for direct connection to instrument, manufactured from 316 Stainless Steel material having 1/2" NPT Fem. process inlet connections with 2051/3051 Coplanar™ compliant outlet flange and 1/4" NPT Fem. vent/drain/bleed. Gland packing is PTFE.
- 3-valve barstock manifold suitable for base mounting and for direct connection to instrument, manufactured from 6MO Super Austenitic St. St. material having 1/2" NPT Fem. process inlet connections and 2051/3051 Coplanar™ compliant outlet flange. Manifold also has 2 1/4" NPT Fem. downstream test ports. Gland packing is Graphite and the equalise valve has Anti-tamper operation and 1/4" NPT Fem. vent/drain/bleed.
- 5-valve barstock manifold for direct connection to instrument, manufactured from Alloy M400 CRA material having 1/4" NPT Fem. process inlet connections with 2051/3051 Coplanar™ compliant outlet flange and 1/4" NPT Fem. vent/drain/bleed. Gland packing is PTFE, materials comply to NACE; manifold is cleaned suitable for oxygen service and vent valves are Anti-tamper operation with key.
- 5-valve barstock manifold for direct connection to instrument, manufactured from 316 St. St. material having Parker Superior Advantage 12mm A-LOK PTFree male union style process inlet connects with 2051/3051 Coplanar™ compliant outlet flange. Vent/bleed/drain connections are also PTFree male union style but of 6mm size. Gland packing is PTFE, the valve complies with NACE and all valves have PEEK soft tip seating.

OPTIONS	
Instrument Bolt Options	
SB	316 Stainless Steel bolt⁸
CB	3" long Carbon Steel bolt⁹
CSB	3" long 316 Stainless Steel bolt⁹
Gland Packing Options	
3	Graphite¹⁰
FS	Firesafe design¹¹
Seating Options - Needle Valves only	
RT	Regulating/Metering Tip
ST	Stellite Tip
9	PCTFE Soft Tip¹²
PK	PEEK Soft Tip
Plug/Bleed Valve Options¹³	
P	Blank Plug
BV	Bleed Valve/Plug
PBV	Blank Plug and Bleed Valve/Plug
Operator Options¹⁴	
HW	Handwheel
LHW	Handwheel Locking
THL	T Bar Locking
AT*	Anti-Tamper¹⁵
ATK*	Anti-Tamper with Key¹⁶
ATHKEY	Anti-Tamper Key¹⁷
Mounting Options¹⁸	
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

⁸ Carbon Steel bolt as standard. No designator required.

⁹ Extra length bolts to be specified when utilising these manifolds with Emerson Coplanar™ type transmitter with the traditional adaptor flange.

¹⁰ Not required when Firesafe design option (**FS**) selected.

¹¹ Not available for PCTFE Soft Tip (**9**) or Oxygen use (**OX**).

¹² 3,000 PSI/207 BAR only. See main catalogue page.

¹³ Plugs supplied loose in a packing box. See page 61.

¹⁴ 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.

¹⁵ Anti-Tamper operation and no Key.

¹⁶ Anti-Tamper operation and one Key supplied per manifold.

¹⁷ Specify quantity required as separate line item.

¹⁸ Mounting Options available on **EXT** option.

* 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.

Manifolds for 2051/3051 Coplanar™ Transmitters

Brackets for direct mount manifolds

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

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

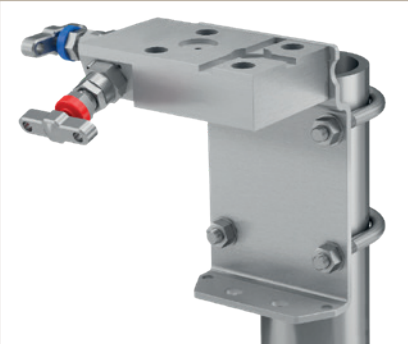


Image shown: Part No.: HDS2MCPBK



Image shown: Part No.: HDS3MCPBK

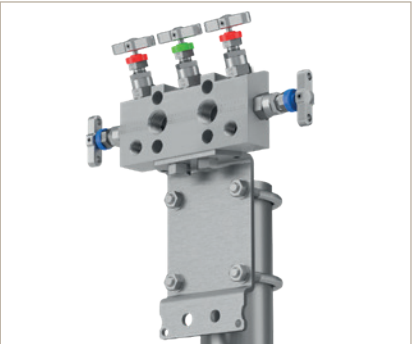
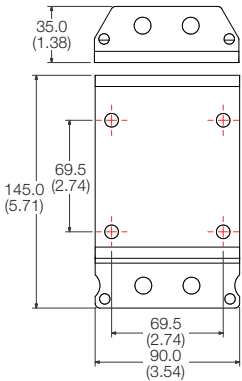


Image shown: Part No.: HDS5MCPBK



Image shown: Part No.: BKT3SSB2



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*2MCP	HD*3MCP HD*5MCP