Instrumentation Solutions

MESC Compliant Modular Mounting Systems

aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding

Parker

ENGINEERING YOUR SUCCESS.

Contents

MESC Compliant Modular Mounting Systems

Introduction

Welcome to the MESC Compliant Modular Mounting Instrumentation Systems from Parker Hannifin.

What is MESC?

Material and Equipment Standards and Code (MESC) is a materials standardisation system created by Shell to allow buyers to purchase standardised materials all over the world. It was created in 1932 for internal use, but was later licensed to any company who wished to pay for it.

With a single 10 digit code materials can be purchased independent of the manufacturer or brand.

In this catalogue

This catalogue details design innovation - based around Shell's MESC standardisation system - that Parker believes will save significant engineering and installation time and costs for users of process fluid instrumentation.

The following pages detail a modular range of manifolds and accessories for small-bore instrumentation requirements that allow anyone to configure and order a complete integrated manifold and mounting solution for a process application in a few minutes.

Once you have made your selection, Parker assembles and delivers the finished integrated manifold to you - ready for immediate installation!

The benefits of this approach are wide ranging, and include:

- Being able to source all your instrument manifold mounting and protection needs from a single supplier and a proven inter-compatible range of components
- Eliminating on-site assembly time, and last-minute compatibility problems that can arise when using components from different suppliers
- Using an advanced flow path design that provides close coupling for high measurement integrity and avoidance of gauge line errors
- Gaining access to a connection system designed for ease of installation and subsequent lifecycle maintenance
- Manufacturing quality based on what Parker believes is the best materials sourcing and quality control systems in the industry today

The manifold-related products detailed in this catalogue stem from Parker's Enterprise Framework Agreement with Shell as a single source supplier for the provision of instrumentation valves, manifolds, process-to-instrument valves, fittings, tubing, protective enclosures and related products. This agreement provided the platform for Parker to invest and produce this manifold range (and further instrument components detailed elsewhere), for use by Shell and its affiliates - as well as any other process instrumentation users interested in the benefits of modular instrumentation technology.

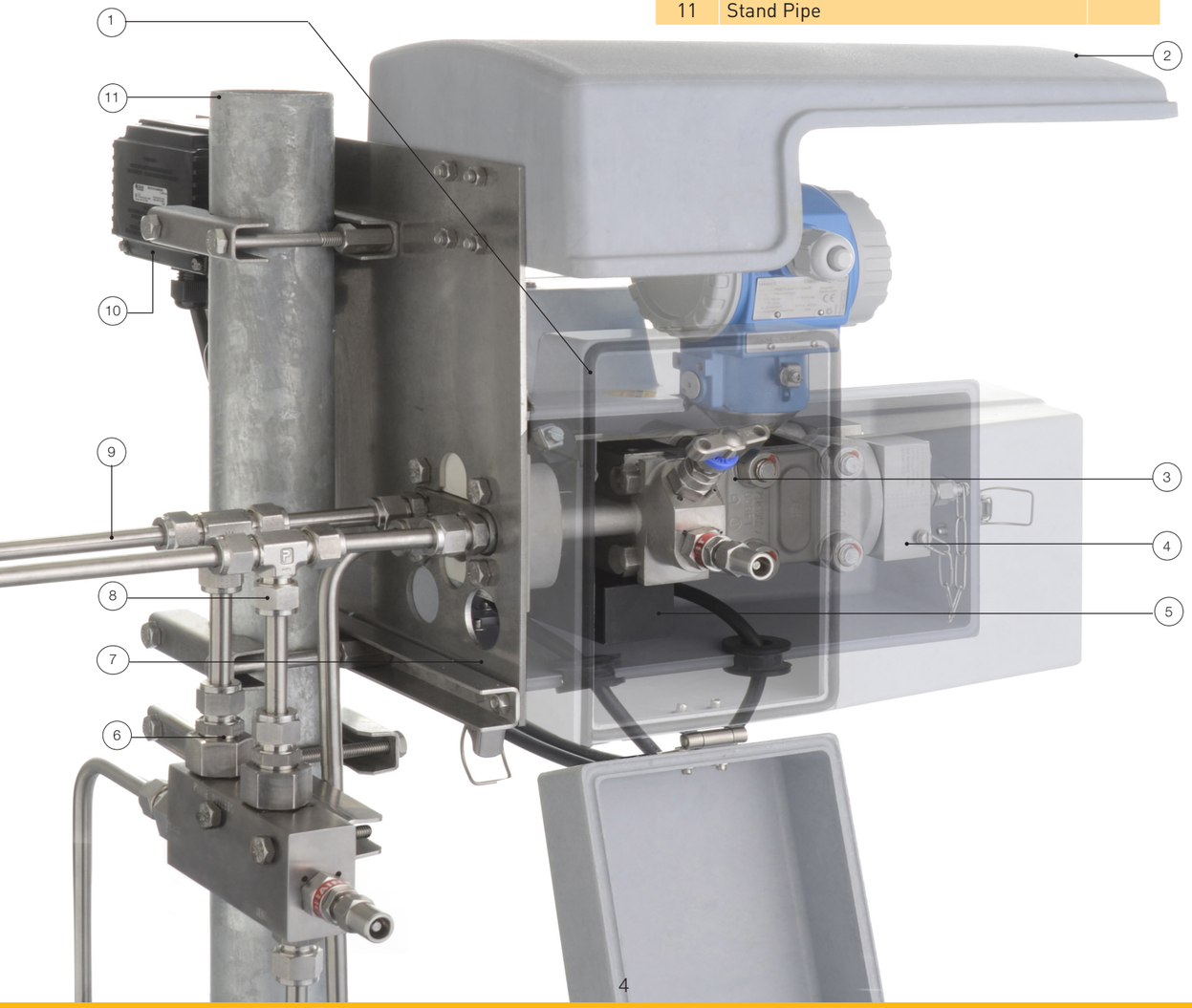
Need any help?

If you would like to discuss the benefits of modular instrumentation systems for your plant, or would like help in configuring a manifold solution, Parker welcomes your contact - see the back page of this brochure to find your local office.

Overview

Fully assembled systems can be supplied based on your specific project or site requirements. It can be fitted with various pressure or flow transmitters and can manage the harsh environmental and process conditions. Please contact us with your requirements.

Item	Description	Page
1	Parker Enclosure	12
2	Parker Sun Shade	12
3	Parker Manifold	8-11
4	Parker Filling Connector	16
5	Parker Electrical Heater Block	15
6	Parker Vent & Purge Block	14
7	Parker Back Plate	13
8	Parker A-LOK® - Cat 4190-FMTG	
9	Parker Grade Tube - Cat 4190-PGT	
10	Terminal Box	
11	Stand Pipe	



Features

Compression Fitting Options

Products featured within this catalogue can be specified with two options of compression fittings

A-LOK®

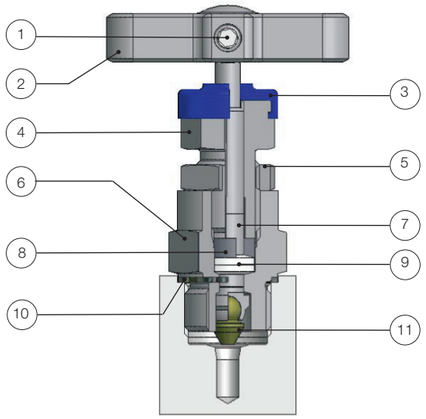
- Two ferrule design
- Precision machined
- Burnished cones for enhanced sealing
- Suparcase® back ferrule provides superior grip and anti corrosion properties
- Silver plated nut ensures no gauling

CPI™

- Suparcase® single ferrule providing superior grip and anti corrosion properties
- Molybdenum disulfide coated nut for enhanced lubrication
- Precision machined
- Vibration resistant

H Series Manifold Features

- Rolled spindle operating threads for low torque operation
- Gland packing in PTFE or Graphite for bubble tight sealing
- Colour coded close contact dust cap and function label for easy identification
- Available in 316L, and other corrosion resistant alloys on application
- T-bar operating handle for low torque function
- Self centering crimped needle tip for bubble tight seat sealing



- Close contact dust cap for operating thread protection
- Back seated spindle for blow out prevention and minimum atmospheric leakage
- Adjustable gland with easy access
- Gland lock nut for vibration protection
- Pressure rating up to 6,000 psig (414 barg)
- Temperature rating -54°C to -538°C (-65°F to 1000°F)
- Heat code trace certification available

For safe, reliable and repeatable performance

Item	Description
1	Positive handle retention
2	'T' bar
3	Dust Cap
4	Gland Packing Adjuster
5	Gland Adjuster Lock Nut
6	Valve Bonnet
7	Anti Blowout Spindle
8	Thrust Bush
9	Gland Packing (Adjustable)
10	Bonnet/Body Washer
11	Spindle Tip

Part Numbering

1	2	3	4	5	6	7	8	9
MMHOM	D	S	4	B	609856415			

1. Item
Manifold

2. Instrument	
Flange	D
Line	L

3. Material	
316	S*
Hestelloy	HC

4. Valve No	
4 Valve	4
2 Valve	2

5. Connection	
CPI	B
A-LOK	L

6. MESC No

7. Packing	
Graphite with Anti Tamper	*
PTFE	PT

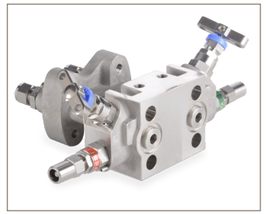
8. Anti Tamper	
No Anti Tamper	NT

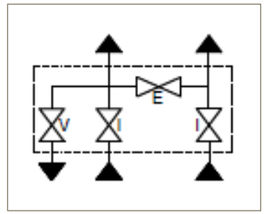
9. Transmitter Mounting	
Mount	M
Mount & Test	MT

* Standard offering

4 Valve Manifold - Type A - double isolate/equalise/vent block for general applications

- DIN 19213 PT2 1980 instrument connections
- Dual isolate, equalise and vent valves
- G1/4" BSPP female port supplied with either 1/2" or 3/8" OD or 10mm OD A-LOK®/CPI™ compression fittings fitted and pinned
- PTFE seal kit included as standard
- Graphite valve packing as standard

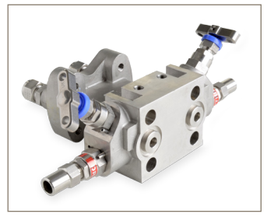


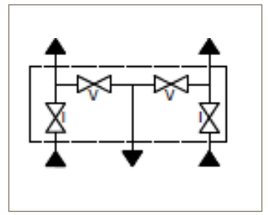


Type	MESC	Process/Vent	A-LOK® Part Number	CPI™ Part Number
A	609856.205.1	10 mm	MMHOMDS4L6098562051	MMHOMDS4B6098562051
A	609856.207.1	3/8"	MMHOMDS4L6098562071	MMHOMDS4B6098562071
A	609856.209.1	1/2"	MMHOMDS4L6098562091	MMHOMDS4B6098562091

4 Valve Manifold - Type B - double isolate/vent block for applications where contamination of process streams and not permitted

- Dual isolate and dual vent valves
- G1/4 BSPP female port supplied with either 3/8" OD or 10mm OD A-LOK®/CPI™ compression fittings fitted and pinned
- PTFE seal kit included as standard
- Graphite valve packing as standard

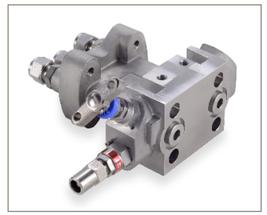


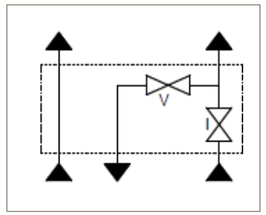


Type	MESC	Process/Vent	A-LOK® Part Number	CPI™ Part Number
B	609856.215.1	10 mm	MMHOMDS4L6098562151	MMHOMDS4B6098562151
B	609856.217.1	3/8"	MMHOMDS4L6098562171	MMHOMDS4B6098562171
B	609856.219.1	1/2"	MMHOMDS4L6098562191	MMHOMDS4B6098562191

2 Valve Manifold - Type C - single isolate/vent block for pressure applications and level measurement on atmospheric tanks

- Single isolate and vent valve
- G1/4 BSPP female port supplied with either 3/8" OD or 10mm OD A-LOK®/CPI™ compression fittings fitted and pinned
- PTFE seal kit included as standard
- Graphite valve packing as standard



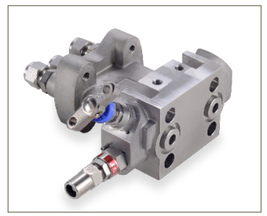


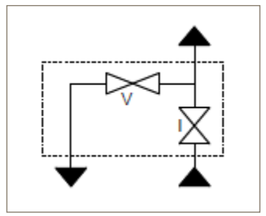
Type	MESC	Process/Vent	A-LOK® Part Number	CPI™ Part Number
C	609856.225.1	10 mm	MMHOMDS2L6098562251	MMHOMDS2B6098562251
C	609856.227.1	3/8"	MMHOMDS2L6098562271	MMHOMDS2B6098562271
C	609856.229.1	1/2"	MMHOMDS2L6098562291	MMHOMDS2B6098562291

Key: I = Isolating E = Equalising V = Vent

2 Valve Manifold - Type D - single isolate/vent block for pressure transmitters of the differential body design

- Single isolate and vent valve
- G1/4" BSPP female port supplied with either 1/2" or 3/8" OD or 10mm OD A-LOK®/CPI™ compression fittings fitted and pinned
- PTFE seal kit included as standard
- Graphite valve packing as standard

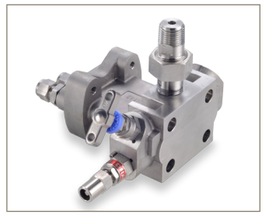


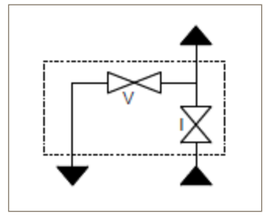


Type	MESC	Process/Vent	A-LOK® Part Number	CPI™ Part Number
D	609856.235.1	10 mm	MMHOMDS2L6098562351	MMHOMDS2B6098562351
D	609856.237.1	3/8"	MMHOMDS2L6098562371	MMHOMDS2B6098562371
D	609856.239.1	1/2"	MMHOMDS2L6098562391	MMHOMDS2B6098562391

2 Valve Manifold - Type E, F & G- single isolate/vent block for pressure transmitters

- Single isolate and vent
- G1/4 BSPP female port supplied with either 3/8" OD or 10mm OD A-LOK®/CPI™ compression fittings fitted and pinned





Type	MESC	Process/Vent	A-LOK® Part Number	CPI™ Part Number	Outlet
E	609856.305.1	10 mm	MMHOMLS2L6098563051	MMHOMLS2B6098563051	1/2" NPT M
E	609856.325.1	3/8"	MMHOMLS2L6098563251	MMHOMLS2B6098563251	1/2" NPT M
E	609856.345.1	1/2"	MMHOMLS2L6098563451	MMHOMLS2B6098563451	1/2" NPT M
F	609856.315.1	10 mm	MMHOMLS2L6098563151	MMHOMLS2B6098563151	1/2" NPT F
F	609856.335.1	3/8"	MMHOMLS2L6098563351	MMHOMLS2B6098563351	1/2" NPT F
F	609856.355.1	1/2"	MMHOMLS2L6098563551	MMHOMLS2B6098563551	1/2" NPT F
G	609856.317.1	10 mm	MMHOMLS2L6098563171	MMHOMLS2B6098563171	1/2" BSPP F
G	609856.337.1	3/8"	MMHOMLS2L6098563371	MMHOMLS2B6098563371	1/2" BSPP F
G	609856.357.1	1/2"	MMHOMLS2L6098563571	MMHOMLS2B6098563571	1/2" BSPP F

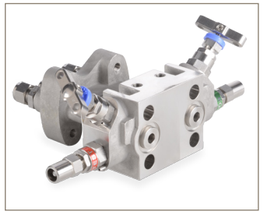
- Type E/F Outlet 1/2" NPT female manifold connection as standard fitted with swivel gauge adapter to above outlet options
- Type G Outlet 1/2" BSPP Female

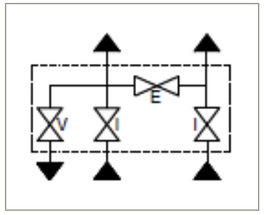
Notes:
- Part numbers shown are manufactured from 316 stainless steel. Other materials on request
- Direct mount interface in accordance with DIN 19213 PT2 1980 with 54mm (2 1/8") centers
- Bolt material ASTM A193-B8 CL2, (7/16 bolts)
- Cast manifold body ASTM A351/CF3M
- Equalise and vent valves with anti-tamper feature as standard - keys should be ordered separately
- Supplied with four M8 mounting plate screws and washers

Key: I = Isolating E = Equalising V = Vent

4 Valve Manifold - Type A - double isolate/equalise/vent block for general applications

- IEC 61518:2001
- Dual isolate, equalise and vent valves
- G1/4" BSPP female port supplied with either 1/2" or 3/8" OD or 10mm OD A-LOK®/CPI™ compression fittings fitted and pinned
- Graphite seal kit included
- Graphite valve packing as standard

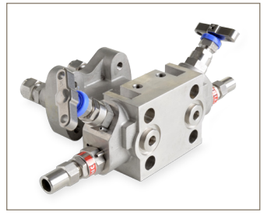


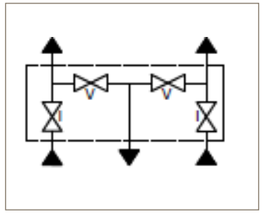


Type	MESC	Process/Vent	A-LOK® Part Number	CPI™ Part Number
A	609856.405.1	10 mm	MMHOMDS4L6098564051	MMHOMDS4B6098564051
A	609856.407.1	3/8"	MMHOMDS4L6098564071	MMHOMDS4B6098564071
A	609856.409.1	1/2"	MMHOMDS4L6098564091	MMHOMDS4B6098564091

4 Valve Manifold - Type B - double isolate/vent block for applications where contamination of process streams and not permitted

- IEC 61518:2001
- Dual isolate, equalise and vent valves
- G1/4" BSPP female port supplied with either 1/2" or 3/8" OD or 10mm OD A-LOK®/CPI™ compression fittings fitted and pinned
- Graphite seal kit included
- Graphite valve packing as standard

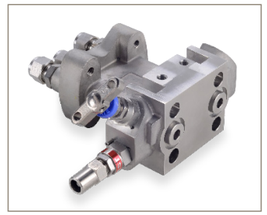


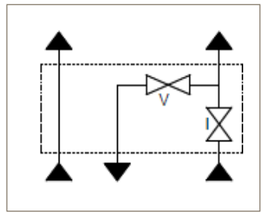


Type	MESC	Process/Vent	A-LOK® Part Number	CPI™ Part Number
B	609856.415.1	10 mm	MMHOMDS4L6098564151	MMHOMDS4B6098564151
B	609856.417.1	3/8"	MMHOMDS4L6098564171	MMHOMDS4B6098564171
B	609856.419.1	1/2"	MMHOMDS4L6098564191	MMHOMDS4B6098564191

2 Valve Manifold - Type C - single isolate/vent block for pressure applications and level measurement on atmospheric tanks

- IEC 61518:2001
- Single isolate, equalise and vent valves
- G1/4" BSPP female port supplied with either 1/2" or 3/8" OD or 10mm OD A-LOK®/CPI™ compression fittings fitted and pinned
- Graphite seal kit included
- Graphite valve packing as standard



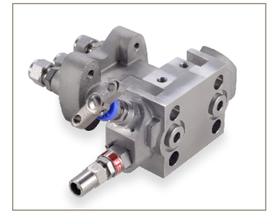


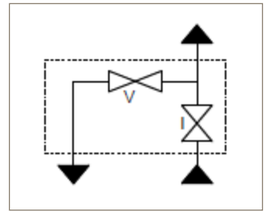
Type	MESC	Process/Vent	A-LOK® Part Number	CPI™ Part Number
C	609856.425.1	10 mm	MMHOMDS2L6098564251	MMHOMDS2B6098564251
C	609856.427.1	3/8"	MMHOMDS2L6098564271	MMHOMDS2B6098564271
C	609856.429.1	1/2"	MMHOMDS2L6098564291	MMHOMDS2B6098564291

Key: I = Isolating E = Equalising V = Vent

2 Valve Manifold - Type D - single isolate/vent block for pressure transmitters of the differential body design

- IEC 61518:2001
- Single isolate, equalise and vent valves
- G1/4" BSPP female port supplied with either 1/2" or 3/8" OD or 10mm OD A-LOK®/CPI™ compression fittings fitted and pinned
- Graphite seal kit included
- Graphite valve packing as standard

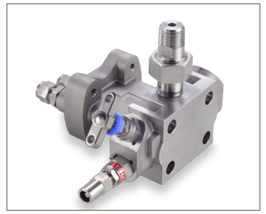


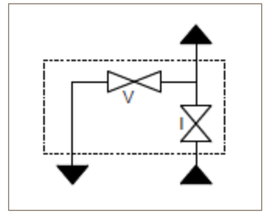


Type	MESC	Process/Vent	A-LOK® Part Number	CPI™ Part Number
D	609856.435.1	10 mm	MMHOMDS2L6098564351	MMHOMDS2B6098564351
D	609856.437.1	3/8"	MMHOMDS2L6098564371	MMHOMDS2B6098564371
D	609856.439.1	1/2"	MMHOMDS2L6098564391	MMHOMDS2B6098564391

2 Valve Manifold - Type E, F & G- single isolate/vent block for pressure transmitters

- IEC 61518:2001
- Single isolate and vent
- G1/4 BSPP female port supplied with either 1/2" or 3/8" OD or 10mm OD A-LOK®/CPI™ compression fittings fitted and pinned





Type	MESC	Process/Vent	A-LOK® Part Number	CPI™ Part Number	Outlet
E	609856.305.1	10 mm	MMHOMLS2L6098563051	MMHOMLS2B6098563051	1/2" NPT M
E	609856.325.1	3/8"	MMHOMLS2L6098563251	MMHOMLS2B6098563251	1/2" NPT M
E	609856.3451	1/2"	MMHOMLS2L609856345.1	MMHOMLS2B6098563451	1/2" NPT M
F	609856.315.1	10 mm	MMHOMLS2L6098563151	MMHOMLS2B6098563151	1/2" NPT F
F	609856.335.1	3/8"	MMHOMLS2L6098563351	MMHOMLS2B6098563351	1/2" NPT F
F	609856.3551	1/2"	MMHOMLS2L609856355.1	MMHOMLS2B6098563551	1/2" NPT F
G	609856.317.1	10 mm	MMHOMLS2L6098563171	MMHOMLS2B6098563171	1/2" BSPP F
G	609856.337.1	3/8"	MMHOMLS2L6098563371	MMHOMLS2B6098563371	1/2" BSPP F
G	609856.3571	1/2"	MMHOMLS2L609856357.1	MMHOMLS2B6098563571	1/2" BSPP F

- Type E/F Outlet 1/2" NPT female manifold connection as standard fitted with swivel gauge adapter to above outlet options
- Type G Outlet 1/2" BSPP Female fitted with swivel gauge adapter

Notes:
- Part numbers shown are manufactured from 316 stainless steel. Other materials on request
- Direct mount interface in accordance with IEC 61518:2001 54mm (2 1/8") centers
- Bolt material ASTM A193-B8 CL2, (7/16 bolts)
- Cast manifold body ASTM A351/CF3M
- Equalise and vent valves with anti-tamper feature - keys should be ordered separately
- Supplied with four M8 mounting plate screws and washers

Key: I = Isolating E = Equalising V = Vent

Enclosure & Protective Shade

Enclosure

Often used in low temperature environments, the enclosure offers complete environmental protection of both the manifold and instrument body.

Attribute	Value
Temp Range, Ambient	-30°C (22°F) to +85°C (185°F)
Material	Glass Fibre Polyester
Density, Material	1.4 kg/dm^3 to 1.9 kg/dm^3
Resistance, Ultra Violet	1000 hrs Xenotest
Spec, Flame Retardant	DIN 4102 Class B1
Conductivity, Thermal	0.30 WM-1 K-1
Strength, Bending	85 N/mm^2
Strength, Impact	20 kJ/m^2
Material, Seal	Hydrocarbon & Weather Resist
Material, Metal Parts	AISI 316
Mandatory add requirements	MESC SPE 60.98.91/305 LV
Mounting	Direct to Mounting

Protective Shade

The protective shade has been designed to protect the instrument from direct sunlight or heavy rain.

Attribute	Value
Temp Range, Ambient	-30°C (22°F) to +85°C (185°F)
Material	Synthetic
Density, Material	1.4 kg/dm^3 to 1.9 kg/dm^3
Resistance, Ultra Violet	1000 hrs Xenotest
Spec, Flame Retardant	DIN 4102 Class B1
Strength, Bending	85 N/mm^2
Strength, Impact	20 kJ/m^2
Material, Metal Parts	AISI 316
Mandatory add requirements	MESC SPE 60.98.91/205 LV
Mounting	Direct to Mounting

MESC	Description	Part Number
609891.205.1	Protective Sun Shade	MMPA-SH-6098912051-L1
609891.305.1	Enclosure	Contact Division*

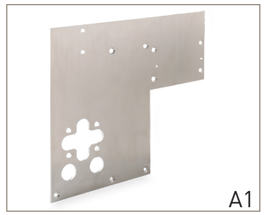
*** Note:** Please supply transmitter part number and manufacturer also specify liquid or gas service when ordering enclosures. To contact the division, please telephone 00 44 1271 313131, or email ipde_technical@parker.com

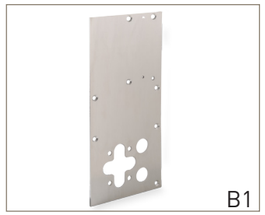
Back Plates

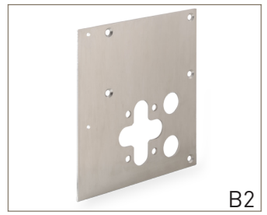
Product Description

Parker's range of back plates ensure the straightforward installation mounting of MESC-compliant manifolds with different accessories.

There are four types of back plates available, all featuring a clamp that allows easy mounting on a two-inch pipestand. The plates are made of 316 stainless steel.







MESC	Description	Function	Part Number
609891.105.1	Back Plate A1	For protective shade & junction box	MMMP-6098911051-A1
609891.110.1	Back Plate A2	For protective shade w/o junction box	MMMP-6098911101-A2
609891.118.1	Back Plate B1	For protective shade & junction box	MMMP-6098911181-B1
609891.120.1	Back Plate B2	For protective shade w/o junction box	MMMP-6098911201-B2

Seal Pot and Purge Blocks

Seal Pot - Product Description

Parker's seal pot is designed for instrumentation systems requiring an open seal such as toxic, corrosive or high temperature service. An immiscible seal fluid is used with the seal pot. A barrier is formed in front of the manifold and instrument due to the difference in density to the process media.

Rating

Maximum working pressure:
413 bar (5990 psi) @ 38°C (100.4°F)
Maximum working temperature:
450°C (842°F)

Volume

Approx. 50 cm^3

Placement

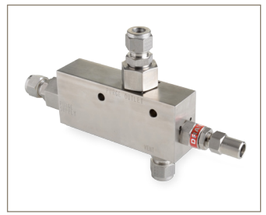
If the seal pot is located below the orifice plate, a seal fluid with higher specific gravity than the process medium is required.

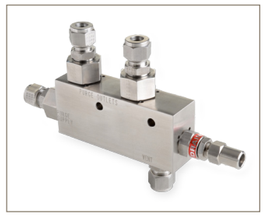
If the seal pot is located above the orifice plate, a seal fluid with lower specific gravity is to be used.

MESC	Description	Vent	A-LOK® Part Number	CPI™ Part Number
609870.510.1	Seal Pot	10mm	MMHMSPSL6098705101	MMHMSPSB6098705101
609870.600.1		1/2"	MMHMSPSL6098706001	MMHMSPSB6098706001
609870.610.1		3/8"	MMHMSPSL6098706101	MMHMSPSB6098706101

Purge Blocks - Product Description

Parker offer a choice of single and double vent and purge blocks for MESC-compliant manifolds. The single-vent is suitable for static pressure instrumentation applications. The double-vent is suitable for differential pressure applications, and is designed to connect to impulse lines on 54 mm (2 1/8")centres.





MESC	Description	Vent	A-LOK® Part Number	CPI™ Part Number
609870210.1	Single Vent Purge Block	10mm	MMVPBSSL6098702101	MMVPBSSB6098702101
609870.310.1		3/8"	MMVPBSSL6098703101	MMVPBSSB6098703101
609870.220.1	Double Vent Purge Block	10mm	MMVPBDSL6098702201	MMVPBDSB6098702201
609870.320.1		3/8"	MMVPBDSL6098703201	MMVPBDSB6098703201

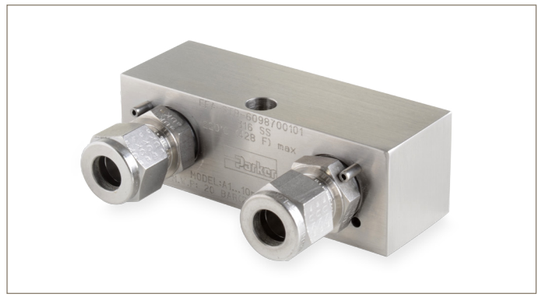
Heating Blocks

Steam tracing and electrical heating blocks are available to provide frost protection or to maintain the process temperature of the media being measured. The blocks mount directly onto the manifold, providing a highly efficient conductive heat transfer to the manifold and transmitter body.

Steam Heating

A separate stainless steel steam block which mounts directly onto the manifold is used to provide steam heating.

Two G 1/4 female ports with tube fittings provide the connection to the steam line.



MESC	Description	Vent	A-LOK® Part Number	CPI™ Part Number
609870.010.1	Steam Tracing Block	10mm	MMSTBL6098700101	MMSTBB6098700101
609870.110.1		3/8"	MMSTBL6098701101	MMSTBB6098701101

Electrical Heating

This aluminium block mounts directly onto the manifold to provide efficient conduction heating, with a self-limiting output characteristic. The block is supplied with a cable length of 1m.

Attribute	Value
Material	Aluminium, sea water resistant
Size	90x40x30mm
Voltage	110V - 265V
Rating	50W
Type of Protection	IP68, NEMA 4X
Explosion Proof	II 2 GD EEx d IIC T4
Certificate Number (PTB)	02 ATEX 1116X

MESC	Description	Part Number
609870.050.1	Electrical Heater	Contact Division*

*** Note:** Heating requirements can vary depending on service. To contact the division, please telephone 00 44 1271 313131, or email: ipde_technical@parker.com

Filling Connector and Port Protector

Filling Connector - Product Description

Parker's filling connector is available for use when purge protection is required but no purge block is installed. The purge medium flows through the instrument cavities allowing the system to be filled. It comes with an integral check valve.

Rating

Maximum working pressure:
IEC - 413 bar (5990 psi) @ 38°C (100.4°F)
DIN - 400BAR (5800PSI @ 38 (100.4°F)

Maximum working temperature:
200°C (392°F)

MESC	SEAL	Description	Part Number - DIN 19213 PT2 1980
609890.106.1	PTFE	Filling Connector 6mm	MMHFCS-6098901061
609890.107.1	PTFE	Filling Connector 1/4"	MMHFCS-6098901071
609890.307.1	PTFE	Blind Flange	MMBLFG-6098903071

MESC	SEAL	Description	Part Number -IEC 61518
609890.406.1	Graphite	Filling Connector 6mm	MMHFCS-6098904061
609890.407.1	Graphite	Filling Connector 1/4"	MMHFCS-6098904071
609890.507.1	Graphite	Blind Flange	MMBLFG-6098905071

Port Protector - Product Description

Parker's port protectors (mud dauber fittings) protect open ends of instruments, tubing, outlet vents, etc. The mesh wire screen prevents foreign bodies such as insects or debris from entering and clogging various systems and causing damage.

- Pipe plug, bored-through design
- 40 x 40 mesh .010 µm diameter wire screen
- Designed to vent female pipe, straights, elbows or tees

Description	Connection	Part Number
Port Protector 316 SS	1/4 NPT Male	4MDF - SS
Port Protector 316 SS	1/2 NPT Male	8MDF - SS
Port Protector 316 SS	1/4 BSPP Male	4RMDF - SS
Port Protector 316 SS	1/2 BSPP Male	8RMDF - SS

Quote Questionnaire

Information Required for Specifying an Enclosure System

Please provide the following details with your quotation request.

Quote Quesionnaire		
1	Item number	
2	Quantity	
3	Liquid or level	
4	Differential Pressure/Pressure Transmitter	
5	Material	
6	External design temperature	
7	Process temperature	
8	Transmitter reference	
9	Enclosure required	
10	Sun shade required	
11	A-LOK® or CPI™	
12	Other comments	

Additional Products Available

Fittings & Materials (Catalogue 4190-FMTG)

A complete guide to Parker IPDE's fittings, tubing and materials. Including tubing charts, anti corrosion information together with a comprehensive guide to the complete range of fittings

Process to Instrumentation Valves

- TAMAP 2 star ball or needle valve class A or class B
- Single block and bleed or double block and bleed
- Available in the following materials 316, Duplex or alloy 625
- A-LOK ,CPI or BSPP connections
- Flange classes: 600 (covers 150, 300 and 600) class 2500 (covers 900, 1500 and 2500)

H Series Instrument Needle Valves (Catalogue 4190-HV)

- Compact needle valves
- For applications up to 10,000 psi (690 bar)
- Available with integral A-LOK® or CPI™ connections, reducing leak paths and reducing installation costs
- Soft tipped optional seating available for gaseous applications
- Fire safe option

HBV Series Instrument Ball Valves (Catalogue 4190-HBV)

- Suitable for the most demanding applications in the oil, gas and process control industries
- Integral compression ends available, eliminating taper threads and thread sealants
- Two piece barstock design reduces body leakage paths
- Complies with ANSI/ASME B16.34 requirements where applicable
- NACE MR-01-75/ISO 15156 compliant materials available
- Fire safe option

Parker Grade Tube (Catalogue 4190-PGT)

Parker's Instrument tube fittings have been engineered and manufactured to consistently provide high levels of reliability; no systems integrity is complete without considering the critical link - tubing

To contact the division please telephone 00 44 1271 313131 or email ipde_technical@parker.com

Notes

Parker Worldwide

Europe, Middle East, Africa

AE – United Arab Emirates,
Dubai
Tel: +971 4 8127100
parker.me@parker.com

AT – Austria, Wiener Neustadt
Tel: +43 (0)2622 23501-0
parker.austria@parker.com

AT – Eastern Europe, Wiener Neustadt
Tel: +43 (0)2622 23501 900
parker.easteurope@parker.com

AZ – Azerbaijan, Baku
Tel: +994 50 2233 458
parker.azerbaijan@parker.com

BE/LU – Belgium, Nivelles
Tel: +32 (0)67 280 900
parker.belgium@parker.com

BG **–** Bulgaria, Sofia
Tel: +359 2 980 1344
parker.bulgaria@parker.com

BY – Belarus, Minsk
Tel: +48 (0)22 573 24 00
parker.poland@parker.com

CH – Switzerland, Etoy
Tel: +41 (0)21 821 87 00
parker.switzerland@parker.com

CZ – Czech Republic, Klecany
Tel: +420 284 083 111
parker.czechrepublic@parker.com

DE – Germany, Kaarst
Tel: +49 (0)2131 4016 0
parker.germany@parker.com

DK – Denmark, Ballerup
Tel: +45 43 56 04 00
parker.denmark@parker.com

ES – Spain, Madrid
Tel: +34 902 330 001
parker.spain@parker.com

FI – Finland, Vantaa
Tel: +358 (0)20 753 2500
parker.finland@parker.com

FR – France, Contamine s/Arve
Tel: +33 (0)4 50 25 80 25
parker.france@parker.com

GR – Greece, Athens
Tel: +30 210 933 6450
parker.greece@parker.com

HU – Hungary, Budaörs
Tel: +36 23 885 470
parker.hungary@parker.com

IE – Ireland, Dublin
Tel: +353 (0)1 466 6370
parker.ireland@parker.com

IT – Italy, Corsico (MI)
Tel: +39 02 45 19 21
parker.italy@parker.com

KZ – Kazakhstan, Almaty
Tel: +7 7273 561 000
parker.easteurope@parker.com

NL – The Netherlands, Oldenzaal
Tel: +31 (0)541 585 000
parker.nl@parker.com

NO – Norway, Asker
Tel: +47 66 75 34 00
parker.norway@parker.com

PL – Poland, Warsaw
Tel: +48 (0)22 573 24 00
parker.poland@parker.com

PT – Portugal, Leca da Palmeira
Tel: +351 22 999 7360
parker.portugal@parker.com

RO – Romania, Bucharest
Tel: +40 21 252 1382
parker.romania@parker.com

RU – Russia, Moscow
Tel: +7 495 645-2156
parker.russia@parker.com

SE – Sweden, Spånga
Tel: +46 (0)8 59 79 50 00
parker.sweden@parker.com

SK – Slovakia, Banská Bystrica
Tel: +421 484 162 252
parker.slovakia@parker.com

SL – Slovenia, Novo Mesto
Tel: +386 7 337 6650
parker.slovenia@parker.com

TR – Turkey, Istanbul
Tel: +90 216 4997081
parker.turkey@parker.com

UA – Ukraine, Kiev
Tel: +48 (0)22 573 24 00
parker.poland@parker.com

UK – United Kingdom, Warwick
Tel: +44 (0)1926 317 878
parker.uk@parker.com

ZA – South Africa, Kempton Park
Tel: +27 (0)11 961 0700
parker.southafrica@parker.com

North America

CA – Canada, Milton, Ontario
Tel: +1 905 693 3000

US – USA, Cleveland
Tel: +1 216 896 3000

Asia Pacific

AU – Australia, Castle Hill
Tel: +61 (0)2-9634 7777

CN – China, Shanghai
Tel: +86 21 2899 5000

HK – Hong Kong
Tel: +852 2428 8008

IN – India, Mumbai
Tel: +91 22 6513 7081-85

JP – Japan, Tokyo
Tel: +81 (0)3 6408 3901

KR – South Korea, Seoul
Tel: +82 2 559 0400

MY – Malaysia, Shah Alam
Tel: +60 3 7849 0800

NZ – New Zealand, Mt Wellington
Tel: +64 9 574 1744

SG – Singapore
Tel: +65 6887 6300

TH – Thailand, Bangkok
Tel: +662 186 7000

TW – Taiwan, Taipei
Tel: +886 2 2298 8987

South America

AR – Argentina, Buenos Aires
Tel: +54 3327 44 4129

BR – Brazil, Sao Jose dos Campos
Tel: +55 800 727 5374

CL – Chile, Santiago
Tel: +56 2 623 1216

MX – Mexico, Toluca
Tel: +52 72 2275 4200

European Product Information Centre
Free phone: 00 800 27 27 5374
(from AT, BE, CH, CZ, DE, DK, EE, EI, ES, FI, FR, IT, NL, NO, PL, RU, SE, SK, UK, ZA)

Parker Hannifin Manufacturing Ltd
Instrumentation Products Division Europe
Riverside Road
Pottington Business Park
Barnstaple, Devon, EX31 1NP
United Kingdom
Tel.: +44 (0) 1271 313131
Fax: +44 (0) 1271 373636
www.parker.com/mesc

Parker Hannifin Corporation
Instrumentation Products Division
1005 A Cleaner Way
Huntsville
Alabama
AL 35805
USA
Tel: + 1 (256) 881-2040
Fax: + 1 (256) 881-5072
www.parker.com/mesc

Catalogue: 4190-MESC