CCIMS
Close Coupled Instrument Mounting System

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

Parker Hannifin's response to the constant demand for higher performance in flow measurement is the introduction of a breakthrough in process control: CCIMS – Close Coupled Instrument Mounting System; A radical and standardised solution for direct-mounting differential pressure transmitters to piping flanges.

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CCIMS: The Concept

CCIMS supports the direct or close coupled’ connection of one of the most common types of process instruments – differential pressure (DP) transmitters – to process pipework.

CCIMS combines an instrument manifold and a pipe interface (including isolation valves) and provides a standard means of connecting instruments with huge cost, performance and safety advantages.

Design

CCIMS has been designed using tried and tested standard components from our current ball, needle and rising plug valves ranges. All the designs meet the relevant industry standard design codes.

Manufacturing

A state of the art manufacturing cell has been established within our UK manufacturing facility to support CCIMS.

Testing

CCIMS meets all relevant industry design codes. All components and complete assemblies meet a 4:1 pressure test requirement and have been rigorously tested.

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.

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CCIMS: The Benefits

Installation
The use of CCIMS will bring significant cost savings to plant operators and installers.
Instrument ‘Hook-ups’ can vary widely but they typically necessitate an assembly time of at least 12 hours (other estimates put this time to nearer 29 hours). Mounting a CCIMS solution takes only half an hour, saving at least 75% of the installation time.

Safety
A traditional ‘hook-up’ for flow measurement can involve up to 40 connections, each of which is a potential leak path.
A CCIMS solution reduces this to just 5 – a massive leap in integrity that helps to avoid the human and environmental safety issues caused by leakages or emissions.
Potential leak paths can be reduced by 75%.

Maintenance
With the elimination of impulse lines, when using CCIMS removes the potential problem of lines blocking, plugging or freezing.
Should the instrument need to be removed for calibration, maintenance or replacement this is able to be done literally in seconds because of the unique ‘Phastfit’ interlocked connection interface, which also significantly reduces the plant downtime.

System Accuracy
Users now require high levels of reliability and integrity and the performance advantages are a major attraction.
With traditional impulse line arrangements, the length of the flow path, the volume of the system, the bends, elbows, tees and valves etc. can all introduce pressure drops and turbulence/flow variations (hydrostatic errors) that lead to measurement inaccuracies, or gauge line error’, which can give inaccuracies of up to 15%.
The straight through flow path of CCIMS removes these problems.
Cost of Ownership

CCIMS benefits plant operators by reducing maintenance requirements and by enhancing the integrity and performance of the instrument system. The 5 fold decrease in instrument changeover time, the easy specification, the reduced number of purchase orders needed, the reduced spares inventory and the reduced emissions monitoring costs all contribute to the significant reduction in the total cost of ownership.
Value Proposition

Reduced Installation Costs
- CCIMS offers end users and contractors significant opportunity to reduce installations costs.
- Installation time can be reduced from a typical hook up requiring at least 12 hours, to less than 1 hour.
- The number of components required for a hook up is significantly reduced - no need for tubing, fittings, brackets, instrument stands.
- The procurement costs of dealing with multiple vendors are eliminated.

Reduced Cost of Ownership
- CCIMS delivers significant reductions in cost of ownership.
- Instrument change out time is minutes rather than hours reducing labour time and costs. Quick change out reduces any associated process downtime.
- By reducing the number of components, and being more compact that traditional hook ups. Emissions monitoring costs are reduced.
- By being closer to the process and by utilising direct flow paths gauge line errors are reduced.

Increased Safety
- CCIMS provides end users with a safer alternative to traditional hook up practice. Potential leak path and connections are reduced from more that 30 to 5.
- The unique mounting system to the orifice carrier removes any load from the process tapings removing the possibility of vibration induced fatigue failure.
- The interlocked isolation device ensures that the isolation valves cannot be opened accidentally.

Please consult your local Parker Sales Engineer or Distributor for a free evaluation of your current hook up practice together with the quantified savings that CCIMS can deliver for you.
Design & Test Data

1. Vibration
CCIMS has been tested in accordance with the standards used by the leading transmitter manufacturers for vibration requirements. CCIMS units have been subjected to a 50 hour swept sine endurance test in three axes whilst pressurised to 3,000 psi (207 bar). The test being carried out at an independent UKAS accredited testing facility.

2. Salt Spray
All components and assemblies have been subjected to a corrosive environment test in accordance with ASTM B11703 for a period of 100 hours.

3. Piping & Pressure Codes
CCIMS has been designed to, and is in accordance with the following codes:

- ASME VIII Div 1 (Design/Factor of Safety)
- ANSI/ASME B16.34 (Design/Material)
- ANSI/ASME B1.20.1 (NPT Threads)
- BS 3643 pt2 (Metric Threads)
- ANSI/ASME B16.36 (Orifice Flange connection)
- API 607/BS 6755 pt2 (Fire safety)
- IEC 61518 (Instrument connection)
- MSS-SP-25 (Product Marking)
- MSS-SP-99 (Instrument Valves)
- ASME B36.10 (MSW Pipe).

4. Environmental Testing
CCIMS units can be used with operating temperatures from -54 up to 180°C depending upon the seat material used. Extensive thermal cycling has been conducted on the complete unit. The unit is pressurised to the maximum operating pressure for the relevant seat material, placed into a climatic chamber and thermally cycled through the full temperature range, with the pressure monitored to ensure there is no thermal fatigue failure.

5. Finite Element Analysis (FEA)
Finite Element Analysis was used throughout the design and development process to arrive at the final design.

PED/CE Marking
In accordance with Article 3 paragraph 3, of the Pressure Equipment Directive 97/23/EC, valves having a nominal size of DN25 (1") or less are manufactured in accordance with “Sound Engineering Practice” and it is not permitted to CE mark items which fall into this category.
Solution Configurations

Orifice Tap Mountings

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>½ -14 NPT (Male)</td>
</tr>
<tr>
<td>B</td>
<td>¾ - 14 NPT (Male)</td>
</tr>
<tr>
<td>C</td>
<td>½ N.B. Male Socket Weld</td>
</tr>
<tr>
<td>D</td>
<td>¾ N.B. Male Socket weld</td>
</tr>
</tbody>
</table>
Primary (Isolation) Module Options

Singel Block
10 mm Through Bore • 1 st Isolate – Ball Pattern

[Diagram of Singel Block]

Part No. P1

Singel Block & Bleed
10 mm Through Bore • 1 st Isolate – Ball Pattern, Bleed Valve – Needle Pattern

[Diagram of Singel Block & Bleed]

Part No. P2

Double Block
10 mm Through Bore • 1 st Isolate – Ball Pattern • 2nd Isolate – Ball Pattern

[Diagram of Double Block]

Part No. P3

Double Block & Bleed
10 mm Through Bore • 1 st Isolate – Ball Pattern
2nd Isolate - Ball Pattern, Bleed Valve – Needle Pattern

[Diagram of Double Block & Bleed]

Part No. P4

Ball Valve details - p16; Needle Valve details - p17
Primary (Isolation) Module Options

3 Valve with Rising Plug Valve (RPV) Isolate
Direct mounting to differential pressure transmitters with 54 mm/2.125” mounting centres. Designed in accordance with IEG 61518 type A (without spigot).

![3 Valve with Rising Plug Valve (RPV) Isolate diagram]

Part No. S3R

3 Valve with Ball Valve Isolate
Direct mounting to differential pressure transmitters with 54 mm/2.125” mounting centres. Designed in accordance with IEG 61518 type A (without spigot).

![3 Valve with Ball Valve Isolate diagram]

Part No. S3B

3 Valve with Needle Valve Isolate
Direct mounting to differential pressure transmitters with 54 mm/2.125” mounting centres. Designed in accordance with IEG 61518 type A (without spigot).

![3 Valve with Needle Valve Isolate diagram]

Part No. S3N
Secondary (Instrument) Module Options: 5 Valve

5 Valve with RPV (6 mm) Isolate
Direct mounting to differential pressure transmitters with 54 mm/2.125” mounting centres. Designed in accordance with IEG 61518 type A (without spigot).

5 Valve with Ball Valve Isolate
Direct mounting to differential pressure transmitters with 54 mm/2.125” mounting centres. Designed in accordance with IEG 61518 type A (without spigot).

5 Valve with Needle Valve Isolate
Direct mounting to differential pressure transmitters with 54 mm/2.125” mounting centres. Designed in accordance with IEG 61518 type A (without spigot).
5 Valve Custody Transfer / Fiscal Metering Module

RPV (6 mm) Isolates
Direct mounting to differential pressure transmitters with 54 mm/2.125” mounting centres. Designed in accordance with IEC 61518 type A (without spigot).

Ball Valve Isolates
Direct mounting to differential pressure transmitters with 54 mm/2.125” mounting centres. Designed in accordance with IEC 61518 type A (without spigot).

Needle Valve Isolates
Direct mounting to differential pressure transmitters with 54 mm/2.125” mounting centres. Designed in accordance with IEC 61518 type A (without spigot).
Auxiliary Modules & Options

Secondary Blanking Plate Module
Provides protection when instrument module is removed.

Secondary ½ (Female) NPT Port Connection Module
Allows use in remote mounting applications.

90 Degree twist Module
Used in vertical mounting installations.

Valve Options

<table>
<thead>
<tr>
<th>Lockable Primary Isolates</th>
<th>Anti Tamper Valves</th>
<th>Lockable Handwheel</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Valve Icon" /></td>
<td><img src="image2" alt="Valve Icon" /></td>
<td><img src="image3" alt="Valve Icon" /></td>
</tr>
<tr>
<td>Part No. L</td>
<td>Part No. A</td>
<td>Part No. LHW</td>
</tr>
</tbody>
</table>

Handwheel

<table>
<thead>
<tr>
<th>Handwheel</th>
<th>Spanner Actuator</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image4" alt="Handwheel Icon" /></td>
<td><img src="image5" alt="Actuator Icon" /></td>
</tr>
<tr>
<td>Part No. HW</td>
<td>Part No. SA</td>
</tr>
</tbody>
</table>
How to Order

**Material**

<table>
<thead>
<tr>
<th>Material Code</th>
<th>Material Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Stainless Steel 316</td>
</tr>
<tr>
<td>D</td>
<td>Monel M400</td>
</tr>
<tr>
<td>E</td>
<td>Duplex UNS 31803</td>
</tr>
<tr>
<td>F</td>
<td>Super Duplex UNS 332750</td>
</tr>
<tr>
<td>G</td>
<td>Hastelloy C 276</td>
</tr>
<tr>
<td>K</td>
<td>6Mo</td>
</tr>
<tr>
<td>M</td>
<td>625</td>
</tr>
<tr>
<td>L</td>
<td>825</td>
</tr>
</tbody>
</table>

**Primary Modules (P)**

- **P1**: Single Block
- **P2**: Single Block & Bleed
- **P3**: Double Block
- **P4**: Double Block & Bleed

**Orifice Tap Mountings**

- **A**: 1/2-14 NPT (Male)
- **B**: 3/4-14 NPT (Male)
- **C**: 1/2 N.B. (Male) SOCKET WELD
- **D**: 3/4 N.B. (Male) SOCKET WELD

**Lower Temperature limits**

- P1 and P2 = -54°C (-65°F)
- P3 and P4 = -25°C (-13°F)

**Example Part Number:**

CC B – P 1

**Part Number Description:**

Stainless Steel 316 – Single Block Primary Module
1/2 - 14 NPT Orifice Tap Mounting

**Auxiliary Secondary Modules**

- **AV**: 90° Twist Module for vertical installations
- **AB**: Blanking Plate
- **AR**: 1/2 NPT (Female) Port Connection Module
## Secondary Modules (S)

<table>
<thead>
<tr>
<th>S5R</th>
<th>5 valve with RPV (6 mm) isolate valves.</th>
</tr>
</thead>
<tbody>
<tr>
<td>S5B</td>
<td>5 valve with ball (10 mm) isolate valves.</td>
</tr>
<tr>
<td>S5N</td>
<td>5 valve with needle (6 mm) isolate valves.</td>
</tr>
<tr>
<td>S5R</td>
<td>3 valve with RPV (6 mm) isolate valves.</td>
</tr>
<tr>
<td>S3B</td>
<td>3 valve with ball (10 mm) isolate valves.</td>
</tr>
<tr>
<td>S3N</td>
<td>3 valve with needle (6 mm) isolate valves.</td>
</tr>
</tbody>
</table>

## Options

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Anti Tamper Valves</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Blank Plug</td>
<td></td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Firesafe</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>Firesafe Primary module only</td>
<td></td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>HCT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>Spanner Actuation Primary Isolates</td>
<td></td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>Handwheel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>Graphite Packing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>I</td>
<td>PEEK seated ball valves</td>
<td></td>
<td></td>
</tr>
<tr>
<td>J</td>
<td>PEEK or PAI Insertion tool</td>
<td></td>
<td></td>
</tr>
<tr>
<td>K</td>
<td>PAI PhastFit seal supplied with insertion tool</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Add option suffix in alpha/numeric order.
**Note 1:** Anti tamper and locking handle options will be fitted to vents only, unless specified otherwise.

Exampel Part Number:

CC B – P 1 A – S 5 B 1 – N P

Part Number Description:

Single Block Primary Module
1/2 - 14 NPT (Male) Oriface Tap Mountings
5 Valve Secondary Module with Ball Valve Isolates.
Std Flow Std Instrument Mounting *
NACE compliant.
PEEK seated ball valves **
** if not required enter XX

* if not required enter XXXX

** Seals & Tooling

- CCIMS-ASSY-TOOL: CCIMS assembly tool. One tool supplied with every complete unit.
- PFS-INSERT-TOOL: PhastFit seal insert tool.
- PFS-SET PEEK or PFS_SET PAI: PhastFit seal set. PEEK 450G or PAI Insertion tool required for PAI. Replace seals when secondary module is.

Remote Mount

Enclosure Mount

Parker Hannifin Ltd
Instrumentation Group
Valve Design & Performance Properties

CCIMS incorporates valves from our standard range of Ball, Needle and Rising Plug designs. Full details can be found in the following catalogues:

Ball Valves  4190-HBV
Needle Valves  4190-HV
Rising Plug Valves  4190-HV

Standard Product Specification

Supplied with PTFE seats as standard, 6000 PSIG MWP (414Barg).
Optional PEEK seats 6000 PSIG MWP (414Barg).

Ball Valve (10mm)

Phastfit Seal

CCIMS Phastit seal, is a unique sealing method for instrumentation. The seal facilitates the innovative method of connecting and disconnecting the secondary module in seconds. End users can quickly and easily change out the transmitter for calibration with the added value of increased calibration, accuracy, easy and reliable pressure seal connections.

Supplied in PEEK as standard, 6000 PSIG MWP (414Barg) to 140°C (283°F), seal insertion by hand.
Optional PAI, 6000 PSIG MWP(414Barg) to 180°C (365°F), seal insertion with PFS-INSERT TOOL (see page 15). For lower temperature limits see page 14.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Seats</td>
</tr>
<tr>
<td>2</td>
<td>Ball</td>
</tr>
<tr>
<td>3</td>
<td>Body</td>
</tr>
<tr>
<td>4</td>
<td>End connector</td>
</tr>
<tr>
<td>5</td>
<td>Anti blowout stem</td>
</tr>
<tr>
<td>6</td>
<td>Thrust seal</td>
</tr>
<tr>
<td>7</td>
<td>Gland packing</td>
</tr>
<tr>
<td>8</td>
<td>Upper glang packing</td>
</tr>
<tr>
<td>9</td>
<td>Thrust bush</td>
</tr>
<tr>
<td>10</td>
<td>Thrust bush</td>
</tr>
<tr>
<td>11</td>
<td>Lock nut</td>
</tr>
<tr>
<td>12</td>
<td>Locking dome nut</td>
</tr>
<tr>
<td>13</td>
<td>Handle (sectioned)</td>
</tr>
<tr>
<td>14</td>
<td>Handle grip</td>
</tr>
</tbody>
</table>

Part description

<table>
<thead>
<tr>
<th>Performance Curve</th>
<th>Material</th>
<th>Seat Valve</th>
<th>Seal Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-B-D</td>
<td>PEEK</td>
<td>PTFE</td>
<td></td>
</tr>
<tr>
<td>E-F-B-D</td>
<td>PAI</td>
<td>PEEK</td>
<td></td>
</tr>
<tr>
<td>G-F-C-D</td>
<td>PAI</td>
<td>PEEK</td>
<td></td>
</tr>
<tr>
<td>E-F-G-C-D</td>
<td>PAI</td>
<td>PEEK</td>
<td></td>
</tr>
</tbody>
</table>

PERFORMANCE CHART KEY

Working Pressure - PSIG (Bar)
**Rising Plug Valve (RPV) (6mm)**

Standard Product Specification
Supplied with PEEK soft seat, PTFE packed, T bar operation 6000 psig (414 barg) max. pressure rating.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Body</td>
</tr>
<tr>
<td>2</td>
<td>Seat</td>
</tr>
<tr>
<td>3</td>
<td>Joint seal</td>
</tr>
<tr>
<td>4</td>
<td>Packing</td>
</tr>
<tr>
<td>5</td>
<td>Thrust bush</td>
</tr>
<tr>
<td>6</td>
<td>Stem</td>
</tr>
<tr>
<td>7</td>
<td>Tip</td>
</tr>
<tr>
<td>8</td>
<td>Stem cap</td>
</tr>
<tr>
<td>9</td>
<td>Grub screw</td>
</tr>
<tr>
<td>10</td>
<td>Handle</td>
</tr>
<tr>
<td>11</td>
<td>Dust cap</td>
</tr>
<tr>
<td>12</td>
<td>Gland adjuster</td>
</tr>
<tr>
<td>13</td>
<td>Lock nut</td>
</tr>
<tr>
<td>14</td>
<td>Bonnet</td>
</tr>
<tr>
<td>15</td>
<td>Pin</td>
</tr>
<tr>
<td>16</td>
<td>Seat retainer</td>
</tr>
</tbody>
</table>

**Needle Valve (6mm)**

Standard Product Specification
Metal/metal seated, PTFE packed, stainless steel, T bar operation, globe pattern, 6000 psig (414 barg).

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Positive handle retention</td>
</tr>
<tr>
<td>2</td>
<td>‘T’ bar</td>
</tr>
<tr>
<td>3</td>
<td>Dust cap</td>
</tr>
<tr>
<td>4</td>
<td>Gland packing adjuster</td>
</tr>
<tr>
<td>5</td>
<td>Gland adjuster lock nut</td>
</tr>
<tr>
<td>6</td>
<td>Valve bonnet</td>
</tr>
<tr>
<td>7</td>
<td>Anti blowout spindle</td>
</tr>
<tr>
<td>8</td>
<td>Thrust bush</td>
</tr>
<tr>
<td>9</td>
<td>Gland packing (adjustable)</td>
</tr>
<tr>
<td>10</td>
<td>Excess body washer</td>
</tr>
<tr>
<td>11</td>
<td>Spindle tip</td>
</tr>
</tbody>
</table>

Pressure vs temperature

- **A-A PEEK**
- **B - B: 6000 psig (414 barg) standard PTFE packing**
- **B - C: 6000 psig (414 barg) standard Graphite packing**
- **C - E: PCTFE tip**
Basic Installation Guide

CCIMS – The simplest way to complete close coupled instrumentation

1. Attach orifice tap mountings to flanges

2. Assemble primary module to orifice tap mountings
3. Assemble secondary module with attached instrument using innovative Phastfit design

Detailed installation instructions are supplied with every CCIMS unit.
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