



Instrument Manifolds Flanged Products, Ball Valves and Hand Valve Directory

*Catalog 4190-PD
April 2003*





Introduction

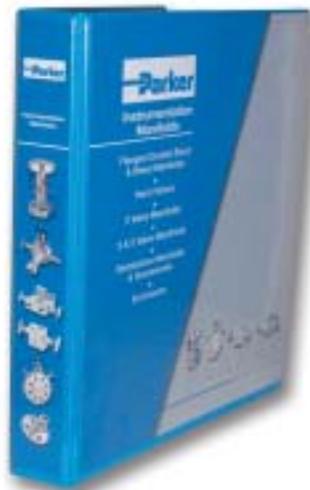
From its ISO9001:2000 facility, Parker Hannifin's Instrumentation Products Division designs and manufactures one of the most comprehensive range of precision instrumentation manifolds for the varied oil, gas and process industries across the world.

With many years of manifold development Parker Hannifin offers a range to suit all types of instrumentation installations, specifications and applications.

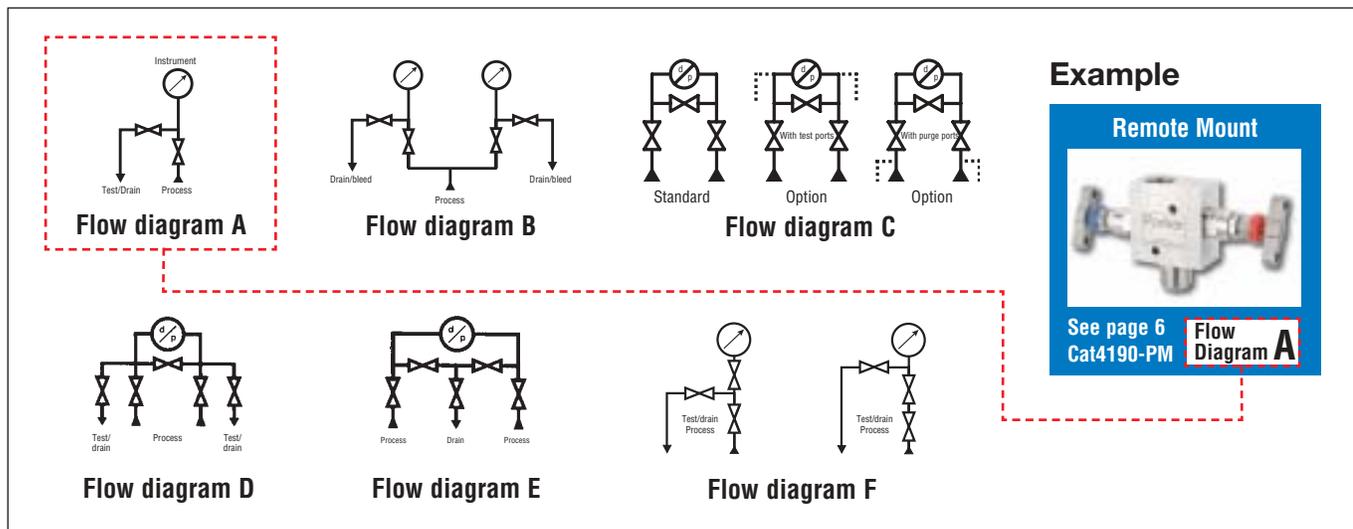
In addition to manifolds, Parker Hannifin offer the broadest range of tube fittings, instrumentation valves, complimentary products and accessories in the market, providing all the components to take the instrument engineer from the process connection to the instrument.

This directory is intended as an overview to the range of manifolds available. For detailed product specifications please refer to the relevant product catalogue as indicated on the following pages.

The complete range of Manifold catalogues are available in a binder.
Order Code 'Manifold/Bin'



Key to Flow diagrams



H Series 2 Valve Manifolds

Designed for use with pressure measurement transmitters for up to 10,000psig, (689 barg)

 <p>Remote Mount</p> <p>See page 6 Cat4190-PM</p> <p>Flow Diagram A</p>	 <p>Remote Mount</p> <p>See page 6 Cat4190-PM</p> <p>Flow Diagram A</p>	 <p>Remote</p> <p>See page 6 Cat4190-PM</p> <p>Flow Diagram A</p>	 <p>Remote Mount</p> <p>See page 6 Cat4190-PM</p> <p>Flow Diagram A</p>	 <p>Remote Mount</p> <p>See page 6 Cat4190-PM</p> <p>Flow Diagram A</p>
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 <p>Remote Mount</p> <p>See page 8 Cat4190-PM</p> <p>Flow Diagram A</p>	 <p>Remote Mount</p> <p>See page 8 Cat4190-PM</p> <p>Flow Diagram A</p>	 <p>High Pressure</p> <p>See page 8 Cat4190-PM</p> <p>Flow Diagram A</p>	 <p>Double Block & Bleed</p> <p>See page 6 Cat4190-PM</p> <p>Flow Diagram F</p>	 <p>High Pressure DBB</p> <p>See page 8 Cat4190-PM</p> <p>Flow Diagram A</p>
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 <p>Direct Mount</p> <p>See page 10 Cat4190-PM</p> <p>Flow Diagram A</p>	 <p>Direct Mount</p> <p>See page 10 Cat4190-PM</p> <p>Flow Diagram A</p>	 <p>Direct Mount</p> <p>See page 10 Cat4190-PM</p> <p>Flow Diagram A</p>	 <p>Direct Mount</p> <p>See page 10 Cat4190-PM</p> <p>Flow Diagram A</p>	 <p>Direct Mount</p> <p>See page 10 Cat4190-PM</p> <p>Flow Diagram A</p>
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 <p>Flanged Connected</p> <p>See page 12 Cat4190-PM</p> <p>Flow Diagram A</p>	 <p>Flanged Connected</p> <p>See page 12 Cat4190-PM</p> <p>Flow Diagram B</p>	 <p>Mini Static Pressure</p> <p>See page 14 Cat4190-PM</p> <p>Flow Diagram A</p>
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For detailed product information refer to Cat 4190-PM



2 Valve Carbon Steel Manifold Mounting Brackets

See page 16/17 Cat4190-PM



3051 Transmitter manifolds

Designed for mounting to the 3051 series of differential pressure transmitters

 <p>2 Valve 3051</p> <p>See page 10 Cat4190-PM</p> <p>Flow Diagram A</p>	 <p>3 Valve 3051</p> <p>See page 13 Cat4190-FM</p> <p>Flow Diagram C</p>	 <p>5 Valve 3051</p> <p>See page 16 Cat4190-FM</p> <p>Flow Diagram D</p>
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H Series 3 Valve Manifolds

Designed for use with pressure measurement transmitters for up to 10,000psig, (689 barg)

<p>Direct Mount</p>  <p>See page 8 Cat4190-FM Flow Diagram C</p>	<p>Direct Mount</p>  <p>See page 8 Cat4190-FM Flow Diagram C</p>	<p>Direct Mount</p>  <p>See page 9 Cat4190-FM Flow Diagram C</p>	<p>Direct Mount</p>  <p>See page 9 Cat4190-FM Flow Diagram C</p>	<p>Cast Body</p>  <p>See page 11 Cat4190-FM Flow Diagram C</p>
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<p>Cast Body</p>  <p>See page 11 Cat4190-FM Flow Diagram C</p>	<p>Extruded body direct mount</p>  <p>See page 10 Cat4190-FM Flow Diagram C</p>	<p>Extruded body direct mount</p>  <p>See page 10 Cat4190-FM Flow Diagram C</p>	<p>Remote Mount</p>  <p>See page 12 Cat4190-FM Flow Diagram C</p>	<p>Remote Mount</p>  <p>See page 12 Cat4190-FM Flow Diagram C</p>
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H Series 5 Valve Manifolds

Designed for flow measurement transmitters (6000psig, 413 barg)

<p>Direct Mount</p>  <p>See page 14 Cat4190-FM Flow Diagram D</p>	<p>Direct Mount</p>  <p>See page 14 Cat4190-FM Flow Diagram D</p>	<p>Direct Mount</p>  <p>See page 15 Cat4190-FM Flow Diagram D</p>	<p>Custody Transfer/Fiscal metering</p>  <p>See page 15 Cat4190-FM Flow Diagram E</p>	<p>Bottom Entry</p>  <p>See page 16 Cat4190-FM Flow Diagram D</p>
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<p>Cast Body</p>  <p>See page 17 Cat4190-FM Flow Diagram D</p>	<p>Cast Body</p>  <p>See page 17 Cat4190-FM Flow Diagram D</p>	<p>Custody Transfer/Fiscal metering</p>  <p>See page 18 Cat4190-FM Flow Diagram D/E</p>
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<p>Custody Transfer/Fiscal metering</p>  <p>See page 18 Cat4190-FM Flow Diagram D/E</p>	<p>Remote Mount</p>  <p>See page 18 Cat4190-FM Flow Diagram D/E</p>	<p>High Pressure</p>  <p>See page 19 Cat4190-FM Flow Diagram D</p>
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For detailed product information refer to Cat 4190-FM



3 & 5 Valve Carbon Steel Manifold Mounting Brackets See page 20/21 Cat4190-FM



Needle and Rising Plug Valves

Designed for use with any fluid up to 10,000 psig (689 barg)

Bar Stock Needle



See page 6/7
Cat4190-HV

Bar Stock Needle



See page 8/9
Cat4190-HV

Rising Plug



See page 10/11
Cat4190-HV

Multi-port Gauge



See page 12/13
Cat4190-HV

Single port Gauge



See page 14/15
Cat4190-HV

Outside Screw & Yoke



See page 16/17
Cat4190-HV

For detailed product information refer to **Cat 4190-HV**



Miniature Needle



See page 22/23
Cat4190-HV

Distribution Manifolds

Designed for use with any fluid up to 10,000 psig (689 barg)

Distribution Manifold



Distribution Manifold



Swivel Gauge Adaptors

For flexible and secure positions of gauges

Swivel Gauge Adapter



See
Cat4190-PM

Miniature Manifolds

Are ideal for installation inside control panels and other size limited installations

Pressure Measurement



See page 14
Cat4190-PM **Flow Diagram A**

Flow Measurement



See page 13
Cat4190-FM **Flow Diagram F**

Hi-Pro Ball Valve

For high performance process isolation

Hi-Pro Ball Valve



See page 10
Cat4190-HBV

For detailed product information refer to
Cat 4190-HBV



Hi-Pro Ball Valve

PTFree connect™

2 Valve PTFree connect™



See page 15
Cat4190-PM

3 Valve PTFree connect™



See page 22
Cat4190-FM

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 sealants.

PTFree™ connection can be applied to any 2, 3 or 5 valve manifold featured in this directory.

Double Block and Bleed Manifolds and Flanged Products

Designed to reduce leakage path by combining primary and secondary values into one compact unit.

Flange to compression connectors



See page 17
Cat4190-FP

Kidney flanges to compression connectors



See page 16
Cat4190-FP

Pro-Valve DBB manifolds



See page 15
Cat4190-FP

Pro-Bloc® DBB manifold



See page 12
Cat4190-FP

Monoflange DBB manifolds



See page 10
Cat4190-FP

For detailed product information refer to
Cat 4190-FP



Manifold and Enclosure Sub-Assemblies

Enclosure Sub-Assembly



Enclosure Sub-Assembly



Parker offer the world's most complete range of instrumentation products. They provide the basis for all Parker sub-assemblies, allowing our engineers to capitalise on the innovation, quality and reliability inherent in all our products. A wide range of fully fitted enclosure assemblies are available.

Product Directory

Manifold and Hand Valve Options

Gland packing	Graphite
	PTFE
	H. F. Fluorocarbon (RPV)
	EPR (RPV)
	Nitrile (RPV)
Seating	Silicone (RPV)
	PCTFE
	PEEK
	Stellite tip
	6mm
Plug/Bleed valve	Blank plug 1/2" NPT
(supplied loose in box)	Bleed valve 1/2" NPT
	Plug & bleed valve
Connections	Purge ports 1/4"
	Test ports 1/4"
	Socket weld
	Butt weld
	in *mm
	DIN 19213 Seal
	Swivel gauge outlet
	Flange
	BSPT
	BSPP

Bolting	St. St. Mounting bolts	SSB
	M10 x 1.5 CS Mounting bolts	CSB10
	M10 x 1.5 SS Mounting bolts	SSB10
	Bolts for 3051 inclusive flange	CSBCP
Flow pattern	Angled	ANG
Operating mechanism	Lockable T bar	HL
	Anti tamper T bar	AT
	Anti tamper + key	ATK
	Handwheel	HW
	Lockable handwheel	LHW
Mounting	Panel mount	PM
	Base mount	BM
	56mm centres	56
	57mm centres	57
Condition	NACE (latest issue)	NACE
	Oxygen use	OXY
	Firesafe	FS
	Heat code certificates	HCT
	Test certificates	TC
	Air testing	PT

Check main catalogues for appropriate options

Bonnet Options



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 style 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.

Material	
Stainless steel std	Carbon steel
Monel	6Mo
Duplex	Titanium
Super Duplex	Incoloy 825
Hasteloy	Inconel 625

Other material available on request

Parker Instrumentation Sales & Service Locations

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