



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





Quick Coupling Products

Quick Couplings, Swivels, Valves, Diagnostic Equipment Catalog 3800 USA | February 2014





ENGINEERING YOUR SUCCESS.

Quick Coupling Division Locations



Minneapolis, MN



Chetek, WI



Grantsburg, WI



Union City, PA



FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS 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 or system options for further investigation by users having technical expertise.

• The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

• To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

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."

Table of Contents

Pneumatic Quick Couplings	Section A
Hydraulic Quick Couplings	Section B
Thermoplastic Couplings	Section C
Swivels	Section D
Valves	Section E
Diagnostic Products	Section F
Appendices:	

Fluid Compatibility Chart	
Safety Guide	VI
Offer of Sale	IX
Glossary of Terms	Х



Parker Hannifin Corporation Quick Coupling Division Minneapolis, MN www.parker.com/quickcouplings





Diagnostics – A Wise Investment

When time is money... In today's "Lean" environment there is more emphasis put on increased production and reduced downtime than ever before. You can't afford to have your equipment sitting idle. Momentary pressure spikes and flow surges that are not recognized by other conventional mechanical measuring devices can unexpectedly destroy both components and systems.

An ounce of prevention... Diagnosing a problem before it occurs should be your primary objective. Whether it is a piece of mobile construction equipment, or an automated industrial assembly machine, lost production is lost profits. The basic prescription for system maintenance is prevention.

Hydraulic and pneumatic... Parker's SensoControl product line is a valuable tool for diagnosing problems both before and after they occur. Today's hydraulic and pneumatic systems are continuously becoming more sophisticated. Being able to identify critical information for optimizing machine efficiencies is a necessity.





Table of Contents

Introduction	F-1
Table of Contents	F-2
Meter Selection Guide	F-3
The Parker ServiceJunior [™] Diagnostic Tee Kits	
The Parker Serviceman Plus [™] Diagnostic Meter Versions Diagnostic Meter Kits	F-7
The Parker Service Master Easy [™] Diagnostic Meter Kits	
The Parker Service Master Plus [™] Diagnostic Instrument Kits	
Meters and Accessories Selection Guide	F-16, F-17
Components and Accessories	F-18 to F-22
Pressure Transducers	F-18, F-19
Flow Sensors	F-20, F-21
Temperature Sensor	F-22
Tachometer	F-22
Voltage Adapter	F-22
Cables	F-22
Frequency Converter	F-22

Test Port Couplings	F-23 to F-32
Coupling Selection Guide	F-3
PD Series Dust Cap Couplers Nipples	F-23 F-24
PDP Series Dust Cap Couplers Nipples	F-27 F-28
EMA3 Series	F-29
Nipples	F-29, F-30
Gauge Adapter & Union	
Transducer Adapters	
Flexible Hose	F-31
PDFS Series - Fluid Sampling	F-32
Couplers	
Nipples	



Diagnostic Products SensoControl®

Product Selection Guide

Diagnostic Meters and Test Port Couplings









Meter Selection Guide

	The Parker Service Junior	The Parker Serviceman Plus	The Parker Service Master Easy	The Parker Service Master Plus
Pressure Sensing	•	•	•	•
Flow Sensing				•
Temperature Sensing				•
Rotational Speed Sensing				
Auxiliary Sensing		•		•
Pressure Differential		•		•
Automatic Sensor Recognition		•		•
Frequency Sensing				•
Auto Power Off				
Battery Monitoring		•		•
Battery Type	AA (2 req'd)	Rechargeable LI-ion	Rechargeable Ni-MH	Rechargeable LI-ion
PC Compatible (Windows 7)				•
Minimum/Maximum Memory				•
Self Contained Memory				•
On-Line Data Transfer				
Text Display (Lines)	2	4	8	48
Inputs	1	2-3	4	26
Data Points (Maximum in Memory)		270,000	1,000,000	1,000,000,000
Numbered LCD Display				
Basic Hydraulic Calculations		•		•
USB Interface				
CAN Sensors		•		•
Graphic Color Display				•
Additional Storage Media		•		

The Parker Serviceman Plus, Parker Service Master Easy and the Parker Service Master Plus require the appropriate sensors to perform measurement functions.

Test Port Coupling Selection Guide										
Test Port	Valving Style	Body	I	Material	k	Locking Mechanism	Locking	Standard Seal Material	Rated	Temp Range**
	valuing Style	Size	Br	SS	S			Pressure	remp Kange	
PD Series	Flush Face	1/8"				Ball	Nitrile	6000 psi	-40° to +250° F	
PDP Series	Ball (Nipple only)	1/8"				Ball	Nitrile	6000 psi	-40° to +250° F	
EMA3 Series	Poppet	1/8"				Threads	Nitrile/Fluorocarbon	9000 psi	-15° to +250° F	

* See Fluid Compatibility chart and/or consult QCD for questions regarding proper material for specific applications.

CODE: Br = Brass; SS = Stainless Steel; S = Steel ** Temperature Range for standard seal material



Diagnostic Quick Couplers - Order Today, SHIP TODAY at www.ConnectorSpecialists.com **Diagnostic Products** ServiceJunior[™] SensoControl® **Digital Pressure Gauge**



The Parker ServiceJunior is an integrated digital pressure gauge with minimum/maximum memory capability.

Capabilities:

- Hand held digital pressure gauge
- Measure and Display
- -Pressure

Features:

- Easy operation
- Backlit display
- User-adjustable pressure units
- Min/Max memory
- Battery life indicator applications
- Ranges for hydraulics and pneumatics
- Scanning rate of 10ms
- Fluid temperature: -4° to 176° F
- Colored covers correspond with pressure ranges for easy identification

Cover Color Code				
Blue	-14.5 to 230 PSI (-1 to 16 bar)			
Green	0 to 1500 PSI (0 to 100 bar)			
Orange	0 to 5800 PSI (0 to 400 bar)			
Red	0 to 8700 PSI (0 to 600 bar)			

Part Nur	mbers and S	pecifications

Part Numbers and Specifications						
ServiceJunior with PD Coupler	ServiceJunior with EMA3 Coupler	ServiceJunior with 1/4"NPT Port	Measuring Range	Overload Pressure (psi)	Resolution (psi)	Accuracy
SCJR-0250-PD	SCJR-0250-EMA	SCJR-0250-4MP	-14.5 to 230 PSI (-1 to 16 bar)	580	0.1	
SCJR-1500-PD	SCJR-1500-EMA	SCJR-1500-4MP	0 to 1500 PSI (0 to 100 bar)	2,900	1	0.5% FS
SCJR-5800-PD	SCJR-5800-EMA	SCJR-5800-4MP	0 to 5800 PSI (0 to 400 bar)	11,600	1	0.3% F5
SCJR-8700-PD*	SCJR-8700-EMA**	SCJR-8700-4MP	0 to 8700 PSI (0 to 600 bar)	17,400	1	

* PD Couplers rated to 6,000 PSI max ** EMA3 Couplers rated to 9,000 PSI max

Accessories	
Part Number	Description
PD240	PD Series Diagnostic Coupler
SCA-7/16-EMA-3	7/16 - 20UNF-2B female to M16X2.0 EMA3 female swivel
SCJA-1/4	7/16 - 20UNF-2B female to 1/4" NPT male adapter
PDH-19	19" PD Hose extension to be used with PD nipple
PDH-32	32" PD Hose extension to be used with PD nipple
SMA3-400	16" (400 mm) Hose assembly for EMA M16X2.0 interface
SCC-110	Storage case for one gauge and diagnostic adapters
SCC-300	Storage case for three gauges and diagnostic adapters



Diagnostic Quick Couplers - Order Today, SHIPTODAY at www.ConnectorSpecialists.comDiagnostic ProductsServiceJunior™SensoControl®Diagnostic Tee Kits



PD Style Kits

	SCJR1-KIT-PD
1	ServiceJunior Gauge: Range: 0 to 5800 psi (0 to 400 bar)
6	PD style JIC Tee Fittings 1/4 through 1 inch sizes
6	PD style ORFS Tee Fttings 1/4 through 1 inch sizes
1	PD style Whip Hose 32 inch (800 mm) length
1	Case - includes 3 plastic storage compartments





	SCJR2-KIT-PD
1	ServiceJunior Gauge: Range: 0 to 1500 psi (0 to 100 bar)
1	ServiceJunior Gauge: Range: 0 to 5800 psi (0 to 400 bar)
6	PD style JIC Tee Fittings 1/4 through 1 inch sizes
6	PD style ORFS Tee Fttings 1/4 through 1 inch sizes
2	PD style Whip Hoses 32 inch (800 mm) length
 1	Case - includes 3 plastic storage compartments

SCJR3-KIT-PD				
1	ServiceJunior Gauge: Range: -14.5 to 230 psi (-1 to 16 bar)			
1	ServiceJunior Gauge: Range: 0 to 1500 psi (0 to 100 bar)			
1	ServiceJunior Gauge: Range: 0 to 5800 psi (0 to 400 bar)			
6	PD style JIC Tee Fittings 1/4 through 1 inch sizes			
6	PD style ORFS Tee Fttings 1/4 through 1 inch sizes			
3	PD style Whip Hoses 32 inch (800 mm) length			
1	Case - includes 3 plastic storage compartments			
	storage compartments			

EMA Style Kits

2arke

SCJR1-KIT-EMA				
1	ServiceJunior Gauge: Range: 0 to 5800 psi (0 to 400 bar)			
6	EMA style JIC Tee Fittings 1/4 through 1 inch sizes			
6	EMA style ORFS Tee Fittings 1/4 through 1 inch sizes			
1	EMA style Whip Hose 32 inch (800 mm) lengt			
1	EMA style Union female to male adapter			
1	Case - includes 3 plastic storage compartments			
	1			

	SCJR2-KIT-EMA
1	ServiceJunior Gauge: Range: 0 to 1500 psi (0 to 100 bar)
1	ServiceJunior Gauge: Range: 0 to 5800 psi (0 to 400 bar)
6	EMA style JIC Tee Fittings 1/4 through 1 inch sizes
6	EMA style ORFS Tee Fittings 1/4 through 1 inch sizes
2	EMA style Whip Hoses 32 inch (800 mm) length
2	EMA style Unions female to male adapter
1	Case - includes 3 plastic storage compartments

F-5

	SCJR3-KIT-EMA
1	ServiceJunior Gauge: Range: -14.5 to 230 psi (-1 to 16 bar)
1	ServiceJunior Gauge: Range: 0 to 1500 psi (0 to 100 bar)
1	ServiceJunior Gauge: Range: 0 to 5800 psi (0 to 400 bar)
6	EMA style JIC Tee Fittings 1/4 through 1 inch sizes
6	EMA style ORFS Tee Fttings 1/4 through 1 inch sizes
3	EMA style Whip Hoses 32 inch (800 mm) length
3	EMA style Unions female to male adapter
1	Case - includes 3 plastic storage compartments
	•



Diagnostic Products SensoControl[®]



Serviceman Plus[™]

Diagnostic Meter

The Serviceman Plus is an extremely robust, portable and easy-to-use measuring device. With a scan rate of 1 ms and the ability to read pressure, flow, temperature and RPM, it is versatile for use with mobile and industrial systems.

Data can be conveniently saved to a removable nano USB stick or transferred through USB interface to a PC for further analysis with SensoWin software.

The Serviceman Plus is available in two designs. One with two inputs for analog sensors and the other with CAN interface for up to three CAN sensors.

Capabilities:

- Hand held diagnostic meter
- Measure and Display
 - -Pressure
 - -Flow
 - -Rational Speed
 - -Temperature

Features:

- Automatic sensor recognition eliminates troublesome and confusing set up
- Large back-lit display MIN/MAX memory and differential measurements
- Increased memory capacity with nano USB stick
- USB interface to PC for convenient analysis and documentation
- Robust design with IP67 rated protection
- Rear support for free-standing operation
- Scan rate of 1 ms

Interfaces	Battery		
 USB device: Online data transfer between device and PC via SensoWin Software: measured value transfer: ACT/MIN/MAX, min. 5 mns; USB standard: 2.0, full speed; connection assembly: Micro USB socket, protected, type B USB host: Connection of USB memory stick, max. 4 GB; recommended types: Delock USB 2.0 nano memory stick, Intenso Micro Line; USB standard: 2.0, full speed, max. 100 mA; connection assembly: Micro USB socket, protected, type B 	 Analog Version: Type: Lithium-ion pack: 3.7 V DC/2250 mAh Battery charging time with power supply: Approx. 3.5 hours Battery discharge period: > 8 hours, with 2 sensors CAN Version: Type: Lithium-ion pack: 3.7 V DC/4550 mAh Battery charging time with power supply: Approx. 7 hours Battery discharge period: > 8 hours, with 2 CAN-BUS sensors 		
Memory	Casing		
 Internal measure value memory: 1 measurement, approx. 15,000 data records (270,000 measure values ACT/MIN/MAX) USB memory stick: 1 GB supplied 	 Material of casing: PC/ABS Material of casing protective cover: TPU Dimensions (W x H x D): 96 x 172 x 54 mm Weight: approx. 540g 		
Functions	Operating Environment		
 Difference; addition; output; ACT; MIN; MAX; FS; TEMP display; battery charge; start-stop measurement 	Operating temperature: 0-50°C Storage temperature: -25-60°C		
Display	Relative humidity: <80%		
 Type: FSTN-LCD, graphical with LED background lighting Visible area: 62 mm x 62 mm 	Environmental assessment: DIN EN 60068-2-32 (1 m free fall) Protection catagory (EN60529): Analog IP54, CAN IP67		
• Resolution: 130 x 130 pixels	PC Software		
Voltage (external)	• Read measurement data, show, analyse on PC; read device		
• Micro-USB socket, type B, + 5 V DC max 1000MA	settings, edit; load device setting from library to manual measuring device		





Diagnostic Products SensoControl[®]

Serviceman Plus[™]

Diagnostic Meter

SCM-155-2-05 CAN Version

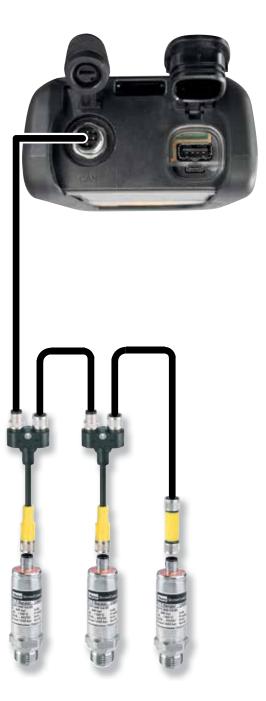
CAN Inputs:

- CAN-Bus sensor auto recognition
- Plug connection: 5-pol, M12 x 1, SPEEDCON plug
- Sampling rate P-channel: 1 ms

SCM-155-0-02 Analog Version

Analog Inputs:

- Analog sensor auto recognition
- Measurement Precision: +/- 0.02 +/- one digit
- Plug Connection: 5-pol, push-pull
- Sampling rate P-channel: 1 ms





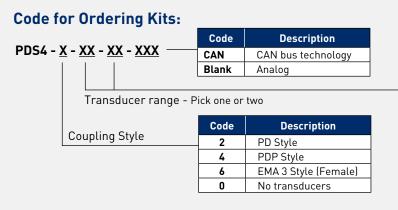




PDS4 (CAN version) Kit Contents:	Part Number
Serviceman Plus (CAN)	SCM-155-2-05
CD with SensoWin, documentation and instructions	CD 4078
Case	SCC-210
CAN Transducers (1 or 2)	PD XXXXX-XXXX-CAN
CAN Transducer Connection Cable (1 or 2 based on transducer #)	SCK-401-05-4F-4M
Power Supply	SCSN-440
CAN Y cable (only included with 2 transducer kit)	SCK-401-0.3-Y
Terminator Resistor	SCK-401-R
Nano USB Stick - 1 GB	SCK-USB-MINISTICK
USB Connection Cable - 1 meter	SCK-315-02-36

PDS4 (Analog version) Kit Contents:	Part Number
Serviceman Plus (Analog)	SCM-155-0-02
CD with SensoWin, documentation and instructions	CD 4078
Case	SCC-210
Analog Transducers (1 or 2)	PD XXXXX-XXXX
Analog Transducer Connection Cable (1 or 2 based on transducer #)	SCK-102-03-02
Power Supply	SCSN-440
Nano USB Stick - 1 GB	SCK-USB-MINISTICK
USB Connection Cable - 1 meter	SCK-315-02-36





Code	Pressure (psi)	Color
01	-14.5 – 220	Blue
06	0 - 870	Green
- 15	0 – 2175	Yellow
40	0 – 5800	Orange
60	0 - 8700	Red
00	No transducers	

Additional Transducers - Code for Ordering Separately: PD XXXXX - XXXX - XXX

XX	<u>XXXX</u> - <u>XXXX</u> - <u>XXX</u>				Description	
				CAN	CAN bus technolo	gy
				Blank	Analog	
				Code	Pressure (psi)	Color
	Pressure Range			0100	-14.5 – 220	Blue
				0600	0 - 870	Green
		Code	Description	1500	0 – 2175	Yellow
	Coupling Style	TA	PD Style	4000	0 – 5800	Orange
		PTA	PDP Style	6000	0 - 8700	Red
		TEMA3	EMA 3 Style (Female)	L	1	

Flow Sensors - Code for Ordering Separately:

SCFT- <u>XXXX</u> - <u>XXX</u> - <u>XXX</u>			Code	Description		
					CAN	CAN bus technology
					Blank	Analog
		Coupli	ng Style		Code	Description
					PD	PD Style
			Code	Flow Rate (gpm)	PDP	PDP Style
	Flow	Range	0004	0.2 – 4 (1 – 15 l/min)	EMA	EMA 3 Style
			0116	1 – 16 (4 – 60 l/min)		
			0380	3 – 80 (10 – 300 l/min)		
			5160	5 – 160 (20 – 600 l/min)		



Diagnostic Products SensoControl[®]



The Service Master Easy[™]

Diagnostic Meter

The Parker Service Master Easy gives you the ability to measure and store operational parameter data simultaneously, or switch between them with ease.

Capabilities:

- Hand held diagnostic meter
- Measure and Display
 - -Pressure
 - -Flow
 - -Rational Speed
 - -Temperature

Features:

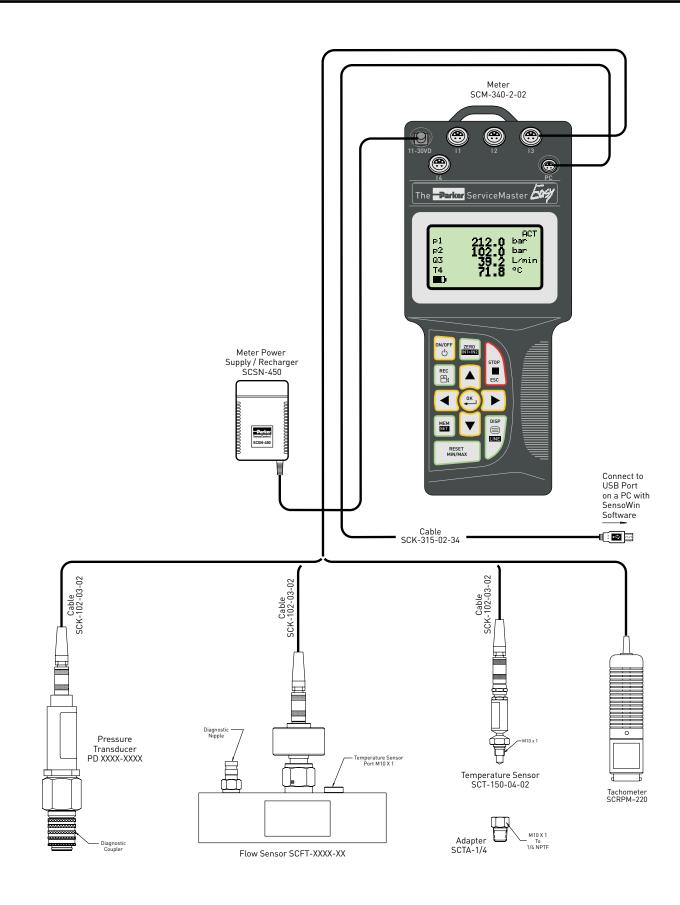
- Four sensor inputs
- Intuitive operation
- Rugged design
- Auto sensor recognition
- Four line numerical display
- Calculated channels
- Store data on device
- SensoWin software utility
- Scan rate of 1ms

Service Master Easy SCM-340-2-02 Technical Data

Functions	Ambient Conditions	Meter	
Differential Value Measurement	Operating Temperatures	Digital LCD Text Display	
MIN/MAX Memory	32°F to 122°F (0°C to 50°C)	- 128x64 pixels	
On line data transfer	Storage Temperatures	- 72x40 mm screen	
Battery level indicator	-4°F to 140°F (-20°C to 60°C)	Character Height 6 mm	
Power calculation (display only)	Protection class IP54	Display of Pressure, Temperature, Flow and	
Flow run-out (display only)	Housing	Rotational Speed	
Auto power off	Glass reinforced polyamide	- Pressure in PSI and Bar	
Output	12-Key tactile touch membrane	- Temperature in °F and °C	
USB 2.0 interface	EMC Protection	- Flow in GPM and l/min.	
Power Requirements	- Electromagnetic interference	- Rotational Speed in RPM	
Internal rechargeable Ni-MH battery	(DIN/EN 50081, Part 1)	Inputs	
Recharge circuit for use with external power supply.	- Immunity to emitted interference	Four 5-pin push-pull style connectors	
Operating time - 8 hours	(DIN/EN 50082, Part 2)	Automatic Sensor Recognition for pressure,	
Charge time - 3 hours	Dimensions	temperature or rotational speed sensors	
Excitation voltage (12-30 VDC)	Length/Height/Width	12 Bit A/D Converter (4096 steps)	
Memory Functions	- 9.25 x 4.19 x 2.09	Selectable scanning rate in 1 ms intervals	
Memory capacity	- (235 x 106 x 52 mm)	Burst Mode 0.25 ms (input 1 only)	
- 1,000,000 data points max	Weight		
- 250,000 points per curve max	1.2 lbs (700 grams)		
Variable measuring period up to 100 hours			
	1	1	



Diagnostic Quick Couplers - Order Today, SHIP TODAY at www.ConnectorSpecialists.comDiagnostic ProductsThe Service Master Easy™SensoControl®Diagnostic Meter







Kit Contents:				
Case	SC-690			
The Parker Service Master Easy Meter	SCM-340-2-02			
2 Transducers (see ordering Information below)	(See Below)			
2 Transducer Cables (3m)	SCK-102-03-02			
Power Supply	SCSN-450			
SensoWin Software 6.0	SC-CD 4082			
USB Computer Cable	SCK-315-02-34			
Operating Manual (incl. with the Parker Service Master Easy Meter)				

Code for Ordering Service Master Easy Kits:

PDSME <u>XX</u> -	<u>X - XX - XX</u>	Transduc (Choose o	cer Pressure Range ne or two)	01 06 15
	Coupling Style	Code	Description PD Style	40 60
		4	PDP Style	Code
	Meter	0	EMA 3 Style (Female)	3/.

	Code	Pressure (psi)	Color				
	01	-14.5 - +220	Blue				
	06	0 - 870	Green				
-	15	0 - 2175	Yellow				
	40	0 – 5800	Orange				
	60	0 – 8700	Red				
	Code	Description					
	34	The Parker Service Master Easy 340 Meter					

Additional Transducers- Code for Ordering Separately:

PD <u>XXXXX</u> - <u>XXXX</u>

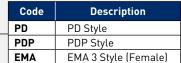
Pressure Range						
	Code	Description				
Coupling Style	TA	PD Style				
-	PTA	PDP Style				
	TEMA3	EMA 3 Style (Female)				

Code	Pressure (psi)	Color		
0100	-14.5 - +220	Blue		
0600	0 - 870	Green		
1500	0 – 2175	Yellow		
4000	0 – 5800	Orange		
6000	0 - 8700	Red		

Flow Sensors - Code for Ordering Separately:

SCFT- XXXX - XXX

	<u> </u>			ooue	
	Coupling	Style		PD	
				PDP	Τ
	Code	Flow Rate (gpm)	EMA	Τ	
	Flow Range	0004	0.2 – 4 (1 – 15 l/min)		
	i tow Kunge	0116	1 – 16 (4 – 60 l/min)		
	0380	3 – 80 (10 – 300 l/min)			
		5160	5 – 160 (20 – 600 l/min)		







The Service Master Plus combines innovative technology with increased overall capabilities to bring you a premier diagnostic instrument. This tool is more than just a meter; it incorporates data measurement, display, and on-screen analysis to provide increased functionality that extends far beyond standard meters currently on the market.

Capabilities:

- Hand held diagnostic meter
- Measure and Display
 - -Pressure
 - -Flow
 - -Rotational Speed
 - -Temperature
 - -Auxiliary inputs

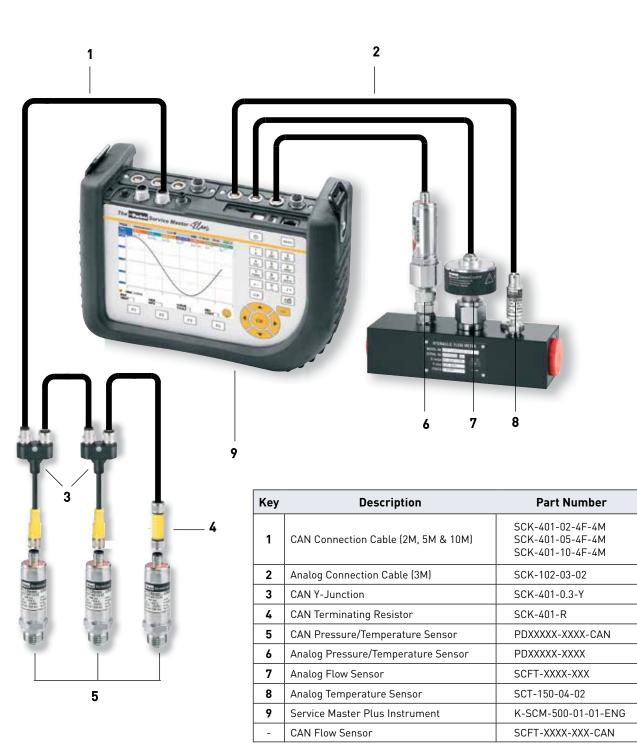
Features:

- 26 sensor inputs
- Rugged design
- Auto sensor recognition
- CAN open sensors
- Full color data display options
- Fast scan rate
- Store data to device, micro SD or USB
- SensoWin software utility
- Scan rate of 1ms

Service Master Plus K-SCM-500-01-01-ENG includes:
The Parker Service Master Plus Instrument
Quick Start Manual
Power Supply
USB Connection Cable
SensoWin Software
Category 5 LAN Cable

Functions	CANbus Inputs	Ambient Operating Conditions		
Measurement Accuracy: ±0.25 % FS	2 CANbus networks with 8 inputs each	Ambient temperature: 32 to 112 F°		
Temp Error: 0.02% FS per °C	(16 total)	Storage temperature: -10 to 140 F°		
Display	Scanning Rate: 1 ms	Relative humidity: < 80 %		
Visible Area: 115 x 86 mm	Input Impedance: 1 kΩ	Environmental test: IEC60068-2-32		
Resolution 640 x 480 pixels	M12x1, 5 pin push-in connector	(1 m, free fall)		
Interfaces	Analog Inputs	Type of Protection		
USB device type B (mass storage)	6 Senso Control sensor inputs	IP64 (to EN60529) (Un-connected)		
USB host type A (PC Connection)	Parker Automatic Sensor Recognition	IP54 in connected state		
10/100 base T Ethernet RJ45	Scanning Rate: 1 ms	Power Supply		
Functions	Input Impedance: 1 kΩ	Internal Lithium Ion pack, +7.4 VDC/4500 mAh		
Measuring mode: Start/stop, points, trigger	5 pin push-pull connection	External 110/240 VAC - 24 VDC/2500 mA		
Measurement: ACT, MIN and MAX	Digital Input /Output	Charge Time: 3h		
Measurement display: Numerical, bar graph,	Active High 7 to 24 VDC	Run time with fully charged battery: 8h		
pointer, curve graph	Active Low <1 VDC	Housing/protective sleeve		
Trigger: Slope, manual, level, window, time,	Input Impedance: 1 kΩ	Housing material: ABS/PC (thermoplastic)		
logic, Pre-Trigger	Output Current - 20 mA	Housing protective sleeve material: TPE		
Remote operation via the Ethernet	Analog Inputs for auxiliary sensors	(thermoplastic elastomer)		
Acoustic notification at any incident	2 analog inputs for measuring current	Dimensions (w x h x d):		
Measure value storage	and voltage	257 mm x 75 mm x 181 mm		
6,000,000 points per measurement	Scanning Rate: 1ms	Weight: 3.4 lbs		
1,000,000,000 points total storage	Voltage Measuring Range: -10 to +10VDC			
On board storage 64 MB	Current Measuring Range: 0/4 to 20 mA			
External: Micro SD memory card slot	Configurable as FAST-mode analog			
External: USB mass storage device	inputs, 0.1ms scanning rate			









Kit Contents:	
Case	SCC-500-ENG
The Parker Service Master Plus Instrument	K-SCM-500-01-01-ENG
2 Transducers	(CAN or Analog See Below)
2 Transducer Cables (5m CAN or Analog)	SCK-XXX-XX-X
Power Supply	SCSN-460
USB Connection Cable	SCK-318-02-35
SensoWin Software	
Quick Start Manual	
Category 5 LAN Cable	

Code for Ordering Service Master Plus Kits:

Plus Kits:	5		Code	Description		Code	Pressure (psi)	Color
PDSMP <u>50</u> - <u>X</u> - <u>XX - XX</u> - <u>XXX</u>		CAN	CAN bus Technology		01	-14.5 - +220	Blue	
		Blank	Analog		06	0 – 870	Green	
Transdusor Prossura				15 0 – 2175		Yellow		
	Transducer Pressure Range (choose 2)			40	0 – 5800	Orange		
Coupler Style		Code	Description		60	0 – 8700 Red		
			2	PD Style				
	6 EMA 3 Style (Female)			Code	Descriptio	n		
	Meter			<u> </u>		50	The Parker Servio Plus	e Master

Additional Transducers -

Additional ITansudcers	Code	Code Description			
Code for Ordering Separately:		Description	Code	Pressure (psi)	Color
	CAN	CAN bus Technology	oouc	-	00101
PD XXXXX - XXXX - XXX	Blank	Analog	0100	-14.5 - +220	Blue
	Dtallk	Anatog	0600	0 - 870	Green
Pressure Range			1500	0 – 2175	Yellow
5	Code	Description	4000	0 - 5800	Orange
Coupler Style	ТА	PD Style	6000	0 - 8700	Red
	ΡΤΑ	PDP Style			
[TEMA3	EMA 3 Style (Female)			

Flow Soncore

Code for Ordering Sep	arately:	Code	Description		
5 1	,	CAN	CAN bus Technology		
SCFT- XXXX -	· <u>XXX</u> - <u>XXX</u> ——[Blank	Analog	Code	Description
	Coupler Style			PD	PD Style
				EMA	EMA 3 Style
		Code	Flow Rate (gpm)		
	Dan ea	0004	0.25 – 4 (1 – 15 l/min)		
Flo	w Range	0116	1 – 16 (4 – 60 l/min)		
	-	0380	3 – 80 (10 – 300 l/min)		
	-	5160	5 – 160 (20 – 600 l/min)		



Diagnostic Products

SensoControl®

Components and Accessories

Meters and Accessories Selection Guide



Diagnostic Meters and Accessories



Bidghostic Meters and Accessories				
Description	The Parker Serviceman Plus	The Parker Service Master Easy	The Parker Service Master Plus	Part Number
The Parker Serviceman Plus Hand-held meter, 2-3 inputs (Includes SCSN-440 Power Supply)				SCM-155-2-05 (CAN) SCM-155-0-02 (Analog)
The Parker Service Master Easy Hand-held meter, 4 inputs, up to 1,000,000 data points (Includes SCSN-450 Power Supply)				SCM-340-2-02
The Parker Service Master Plus Hand-held meter, 26 inputs, up to 1,000,000,000 data points (Includes SCSN-460 Power Supply)			•	K-SCM-500-01-01-ENG
Storage Case - Small				SCC-210
Storage Case - Medium				SC-690
Storage Case - Large Roller				SCC-500-ENG
Storage Insert - Holds Extra Sensors Used with SCC-500-ENG Large Roller Case			•	SCC-500-INLET-ENG
Power Supply 120 Volt AC				SCSN-440
Power Supply 120 Volt AC				SCSN-450
Power Supply 120 Volt AC				SCSN-460
Connection Cable - Analog Used between meter and sensors (3M length)				SCK-102-03-02
Extension Cable - Analog Used in series with connection cables (5M length)				SCK-102-05-12
Connection Cable - CAN Used between meter and sensors (2M, 5M, 10M lengths)			-	SCK-401-02-4F-4M SCK-401-05-4F-4M SCK-401-10-4F-4M
Pressure Transducers - Analog Five measurement ranges	-			See page F-17
Pressure Transducers - CAN Five measurement ranges	•			See page F-18
Flow Sensors - Analog Four measurement ranges	•			See page F-19
Flow Sensors - CAN Four measurement ranges				See page F-20
Temperature Sensor Used with Parker Flow Sensors or SCTA-1/4 Port Adapter (Requires standard connection cable)			-	SCT-150-04-02
Port Adapter Converts M10X1 to 1/4" male NPT thread				SCTA-1/4
Tachometer To measure rotational speed (0 to 10,000 RPM)				SCRPM-220
Contact Adapter For SCRPM-220 Tachometer			-	SCRPMA-001
Focus Adapter For SCRPM-220 Tachometer			-	SCRPMA-002
Diagnostic Test Hose Assembly (19" & 32" lengths) Used with PD style Parker Transducers and diagnostic nipples			-	PDH-19 PDH-32
Voltage Adapter Used with auxiliary sensors				SCMA-VADC-600
Frequency Adapter				SCMA-FCU-600



F Diagnostic

Diagnostic Quick Couplers - Order Today, SHIP TODAY at www.ConnectorSpecialists.com **Diagnostic Products**

SensoControl[®]

Components and Accessories

Meters and Accessories Selection Guide



Diagnostic Meters and Accessories Software and Data Cables



Description	The Parker Serviceman Plus	The Parker Service Master Easy	The Parker Service Master Plus	Part Number
The Parker Serviceman Plus Hand-held meter, 2-3 inputs (Includes SCSN-440 Power Supply)				SCM-155-2-05 (CAN) SCM-155-0-02 (Analog)
The Parker Service Master Easy Hand-held meter, 4 inputs, up to 1,000,000 data points (Includes SCSN-450 Power Supply)				SCM-340-2-02
The Parker Service Master Plus Hand-held meter, 26 inputs, up to 1,000,000,000 data points (Includes SCSN-460 Power Supply)				K-SCM-500-01-01-ENG
Data Cable To connect the Serviceman Plus meter to a PC	•			SCK-315-02-36
Data Cable Used between the Parker Service Master Easy meter and a PC		-		SCK-315-02-34
Data Cable Used between the Parker Service Master Plus meter and a PC				SCK-318-02-35
SensoWin Software For data transfer from any Parker Service Master meter to a PC	-		-	Download from web





Pressure Transducer - Analog

- Five measurement ranges: Vacuum to 8,750 PSI
- Color coded for easy identification
- Corrosion resistant stainless steel housing
- Accuracy of 0.50% Max Full Scale
- Available with PD, PDP or EMA style diagnostic couplings

Analog Transducer Part Numbers and Technical Data

	PD * *-0100	PD **-0600	PD **-1500	PD * *-4000	PD **-6000
Color Code	Blue	Green	Yellow	Orange	Red
Measuring Range (Pressure)	-14.5 to 220 psi	0 to 870 psi	0 to 2175 psi	0 to 5800 psi	0 to 8700 ⁽¹⁾ psi
Measuring Range (Temp)	-13°F to 221°F	-13°F to 221°F	-13°F to 221°F	-13°F to 221°F	-13°F to 221°F
Max. Overload Pressure	434 psi	1450 psi	3625 psi	14500 psi	14500 psi
Output Signal (Volts)	-0.2 to 2	0 to 3	0 to 3	0 to 3	0 to 3
Response Time	1 ms	1 ms	1 ms	1 ms	1 ms
Excitation Voltage	7-12 VDC	7-12 VDC	7-12 VDC	7-12 VDC	7-12 VDC
Accuracy (max)	0.50% FS	0.50% FS	0.50% FS	0.50% FS	0.50% FS

1. Maximum Rated Pressure for PD Series Couplers is 6000 psi. Maximum Rated Pressure for EMA Series Couplers is 9000 psi.

2. Analog accessories such as pressure sensors, temperature sensors, flow meters, tachometers and cables are all compatible for use with Serviceman and the Parker Service Master meters.

" ** " in the Part Number Represents:

TA = PD Style PTA = PDP Style TEMA3 = EMA3 Style (Female)

Materials of Construction

Temperature Range

Transducer	Stainless steel
Diaphragm	Stainless steel
CouplerChromium-6	Free Plated steel
Seal	Fluorocarbon

Working.....-4° to 185°

Fluid.....-13° to 221° Storage.....-40° to 257°

O i	ıŧ	nı	d

0.50% FS
2m ohms
<1 ms
0.1%FS
100 KHz

Voltage Requirement

7 to 12 VDC excitation voltage	
Permissible ripple	2% ss
Current requirement	5 mA

Cable E (Pin Ou		
Pin	Mark	Wire Colors
1	Р	Yellow
2	Т	White
3	*	Brown
4	GND	Green
5	SR**	Grey

* V_s = 7-12 VDC

** Sensor Recognition





Pressure Transducer - CAN

- Five measurement ranges: Vacuum to 8,750 PSI
- Compatible for use with the Parker Service Master Plus only
- Color coded for easy identification
- Corrosion resistant stainless steel housing
- Accuracy of 0.50% Max Full Scale
- Available with PD, PDP or EMA style diagnostic couplings

CAN Transducer Part Numbers and Technical Data					
	PD <u>*</u> -0100-CAN	PD * *-0600-CAN	PD <u>*</u> -1500-CAN	PD * -4000-CAN	PD * 6000-CAN
Color Code	Blue	Green	Yellow	Orange	Red
Measuring Range (Pressure)	-14.5 to 220 psi	0 to 870 psi	0 to 2175 psi	0 to 5800 psi	0 to 8700 ⁽¹⁾ psi
Measuring Range (Temp)	-13°F to 221°F	3°F to 221°F -13°F to 221°F		-13°F to 221°F	-13°F to 221°F
Max. Overload Pressure	434 psi	1740 psi	4350 psi	11600 psi	17400 psi
Response Time	1 ms	1 ms	1 ms	1 ms	1 ms
Excitation Voltage	8-40 VDC	8-40 VDC	8-40 VDC	8-40 VDC	8-40 VDC
Accuracy (max)	0.50% FS	0.50% FS	0.50% FS	0.50% FS	0.50% FS

1. Maximum Rated Pressure for PD Series Couplers is 6000 psi. Maximum Rated Pressure for EMA Series Couplers is 9000 psi.

2. CAN accessories such as pressure transducers, flow sensors, and cables are compatible for use with the Parker Service Master Plus only.

" ** " in the Part Number Represents:

TA = PD Style PTA = PDP Style TEMA3 = EMA3 Style (Female)

Excitation Voltage	8-40 VDC
Electrical Connection	5 pin, M 12 x 1 connection
Port Connection	1/2 " BSPP
Housing	Stainless Steel 1.4301
Seal Material	FKM
Ambient Temperature Range	13 to 185°F
Max. Fluid Temperature	221°F
Shock Resistence	IEC 68-2-29
Vibration Resistence	IEC 68-2-6

Cable End (Pin Out)	
Pin	ltem
1	Shield
2	V _s = 840VDC
3	GND
4	CAN High
5	CAN Low





Parker Flow Sensors provide the ability to measure pressure,

temperature and flow from a single test point in a hydraulic system. Constructed of light-weight aluminum, they are designed to be used with a wide variety of hydraulic fluids. This design also minimizes the effect of viscosity changes.

Flow sensors are provided with a choice of PD, PDP or EMA style diagnostic ports and are designed to be used with Serviceman Plus (Analog), Parker Service Master Plus and Parker Service Master Easy.

- Four measurement ranges: 0.2 to 160 gpm
- Accuracy of 1% FS or IR
- Provides access ports for temperature and pressure measurement
- Supplied with diagnostic coupling and temperature measurement port

Analog Flow Sensor Pa	rt Numbers						
Measuring Range	Flow Sensor with PD Nipple	Flow Sensor with PDP Nipple	Flow Sensor with EMA Nipple	Inlet/Outlet Port Configuration	Length (in.)	Height (in.)	Width (in.)
0.2 – 4 gpm (1 – 15 l/min)	SCFT-0004-PD	SCFT-0004-PDP	SCFT-0004-EMA	3/4-16 ORB	5.35	4.61	1.46
1 – 16 gpm (4 – 60 l/min)	SCFT-0116-PD	SCFT-0116-PDP	SCFT-0116-EMA	1 1/16-12 ORB	7.48	5.12	2.44
3 – 80 gpm (10 – 300 l/min)	SCFT-0380-PD	SCFT-0380-PDP	SCFT-0380-EMA	1 5/16-12 ORB	7.48	5.28	2.44
5 – 160 gpm (20 – 600 l/min)	SCFT-5160-PD	SCFT-5160-PDP	SCFT-5160-EMA	1 5/8-12 ORB	8.35	5.91	2.44

Analog Flow Sensors Technical Data		
Pressure Rating	6000 PSI	
Fluid Temperature Range	-4°F to +194°F	
Ambient Temperature Range	-4°F to +122°F	
Media/Compatibility	Petroleum Based Fluids (Contact factory for use with water based hydraulic fluids)	
Flow Measurement Accuracy	±1.0% Actual Reading	
Voltage Input	+7 to 12 VDC (Supplied by SensoControl meter)	
Current Requirement	бmА	
Response Time	50 ms	
Viscosity Range	10 to 100 cSt	

Material Specifications		
Housing	Anodized Aluminum	
Turbine	Stainless Steel	
Bearings	Stainless Steel	
Seal Material	Nitrile	
Electrical Connection	5 Pin Push-Pull Style	





Parker Flow Sensors provide the ability to measure pressure, temperature and flow from a single test point in a hydraulic system. Constructed of light-weight aluminum, they are designed to be used with a wide variety of hydraulic fluids. This design also minimizes the effect of viscosity changes.

CAN flow sensors are provided with a choice of PD, PDP or EMA style diagnostic ports and are designed to be used with the Parker Service Master Plus and Serviceman Plus (CAN).

- Four measurement ranges: 0.2 to 160 gpm
- Accuracy of 1% FS or IR
- Provides access ports for temperature and pressure measurement
- Supplied with diagnostic coupling and temperature measurement port

CAN Flow Sensor Part	Numbers						
Measuring Range	Flow Sensor with PD Nipple	Flow Sensor with PDP Nipple	Flow Sensor with EMA Nipple	Inlet/Outlet Port Configuration	Length (in.)	Height (in.)	Width (in.)
0.2 – 4 gpm (1 – 15 l/min)	SCFT-0004-PD-CAN	SCFT-0004-PDP-CAN	SCFT-0004-EMA-CAN	3/4-16 ORB	5.35	4.61	1.46
1 – 16 gpm (4 – 60 l/min)	SCFT-0116-PD-CAN	SCFT-0116-PDP-CAN	SCFT-0116-EMA-CAN	1 1/16-12 ORB	7.48	5.12	2.44
3 – 80 gpm (10 – 300 l/min)	SCFT-0380-PD-CAN	SCFT-0380-PDP-CAN	SCFT-0380-EMA-CAN	1 5/16-12 ORB	7.48	5.28	2.44
5 – 160 gpm (20 – 600 l/min)	SCFT-5160-PD-CAN	SCFT-5160-PDP-CAN	SCFT-5160-EMA-CAN	1 5/8-12 ORB	8.35	5.91	2.44

CAN Flow Sensors Technic	al Data
Operating Pressure	6000 psi
Overload Pressure	1.2 X Operating Pressure
Max Fluid Temperature	194°F
Ambient Temperature Range	14°F to +122°F
Max Flow	1.1 X Flow Range
Pressure Drop	21 psi (SCFT-0004)
@ FS 21 cSt	21 psi (SCFT-0116)
	58 psi (SCFT-0380)
	72 psi (SCFT-5160)
Flow Measurement Accuracy	1 % FS (SCFT-0004)
ា21 cSt	1 % IR (SCFT-0116)
50 5 110 1	1 % IR (SCFT-0380)
FS = Full Scale IR = Indicated Reading	1 % IR (SCFT-5160)
Voltage Input	8 to 40 VDC
Response Time	50 ms
Filtration	25 um
Viscosity Range	10 to 100 cSt

Material Specifications		
Housing	Aluminum	
Wetted Parts	Stainless Steel	
Seal Material	FKM	



All Parker SensoControl hand-held diagnostic meters are equipped with the same 5-pin push-pull style connector ports. This allows analog accessories such as pressure sensors, temperature sensors, flow meters, tachometers and cables to be compatible with the Serviceman and the Parker Service Master meters.

Voltage Adapter for use with Auxiliary Sensors to the Parker Service Master Easy.

Part Number SCMA-VADC-600	
Input	0 - 4 A, 0 - 48 VDC
Accuracy	0.25% FS



Temperature Sensor for Serviceman and the Parker Service Master Easy. Can be used with Parker flow sensors or with an SCTA-1/4 port adapter.

Part Number	SCT-150-04-02
Accuracy	+1.5% Full scale
Temperature range	-58°F to 257°F (-50°C to 125°C)



SCRPM Tachometer for Serviceman and the Parker Service Master Easy Meters. Displays a precision measurement of rotational speed. 5-pin push-pull style connector.

Part Number	SCRPM-220
Measuring Range	20 – 10,000 RPM
Measuring Distance	0.1 – 19.5 in
Accuracy	0.5% FS
Excitation Voltage	7 – 9 VDC
Output Signal	0 – 3 VDC
Resolution	5 RPM

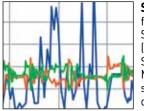
Tachometer Adapters

Contact Adapte	r for belt drive/wheel.
Part Number	SCRPMA-001
Focus Adapter	for confined areas.
Part Number	SCRPMA-002



5 pin to 5 pin Cables Flow sensor, transducer and temperature probe cables for both Serviceman and the Parker Service Master Easy.

Part Number	SCK-102-03-02
Length	10 ft (3 m)
Part Number	SCK-102-05-12
Extension Cable	16.4 ft (5 m)



SensoWIN[™] Software

for data transfer from all Parker Service Master meters to a PC (Windows 98 and newer). SensoWin Software is included with Service Master meters. It is not sold separately, but is available for download from Parker.com



Frequency Converter Converts the signal of a connected sensor into an analog and a CAN frequency. Measurement parameters of the converter can be set via PC with the configurations sortware

Part Number SCMA-FCU-600



Diagnostic Quick Couplers - Order Today, SHIP TODAY at www.ConnectorSpecialists.com **Diagnostic Products Test Port Couplings** Couplings

Ordering Information

- Coupler / Nipple Material
- Prefix "B" for Brass Body with Fluorocarbon seal
- Prefix "SS" for Stainless Steel Body with Fluorocarbon seal
- Standard body material is Steel with Nitrile seal
- Suffix "-6" to include Dust Cap with Nipple

Optional Seals Suffix*

No suffix is required when ordering products with the standard Nitrile seals. When specifying an optional seal, refer to the following chart to determine the appropriate suffix.

Coupling Series	Ethylene Propylene	Fluorocarbon	Neoprene
PD Series	W	Y	Z

*To select proper seal materials, see Fluid Compatibility Chart in Appendix section, or contact your Parker Quick Coupling Distributor.

PD Series

PD Series couplings provide easy connection for mechanical gauges or specialized diagnostic equipment like SensoControl®.

Typically, PD or BPD nipples are permanently mounted in the system at threaded test ports, in rigid tubing or in hose assemblies. PD couplers are attached to test instruments.

Couplers align to the mating nipples without threading. This allows gauges, transducers and other test equipment to be snapped into place without difficulty.

Note: Protective dust caps play a crucial role in the life of a quick coupling and no purchase is complete without the selection of an appropriate dust cap.

Features

- Flush-face poppet valves minimize air inclusion and spillage. provide easy-to-clean surfaces, and help to prevent contamination.
- Grip-tight knurled sleeves help to make connecting and disconnecting easy, even while wearing gloves.
- Nipples are machined from high tensile steel for strength to withstand 6000 PSI continuous operating pressure. BPD nipples offer features similar to the standard steel PD nipples with the added feature of a brass body.
- PD nipples are designed to meet or exceed SAE J1502 and ISO 15171-1 design and performance specifications.
- End connections include pipe, O-ring, metric thread, bulkhead, 37° Flare, ORFS and bite-type.

PD Series Dust Cap		
	Body Size	Dust Cap Part No.
	1/8	PD6-285

Description	PD Coupler	PD Nipple	BPD Nipple	Assembly
Part Number	PD242	PD361	BDP343Y	_
Body Material (Steel)	Carbon Steel	High Tensile Steel	Brass	—
Rated Pressure (PSI)	6000	6000	300	6000
Temperature Range (STD Seals) Nitrile	-40°F to	+250°F	-15°F to +400°F Fluorocarbon	-40°F to +250°F
Rated Flow (GPM)	-	—	-	0.8
Max. Recommended Flow (GPM)	_	_	—	4.0
Burst Pressure (PSI/Min)	23,000	40,000	-	17,000
Vacuum Data (Inches Hg)	27.5	27.5	27.5	27.5
Pressure Drop at Rated Flow (PSI) with 200 SUS Fluid	_	_	_	56
Spillage at 15 PSI (ml)-Assembly	0.1 per disconnect			
Air Inclusion (ml)-Assembly	0.02 per connect			
Connect Force-Assembly	41 Lbs. (100 PSI)			
Disconnect Force-Assembly	20 Lbs. (100 PSI)			



Couplers- Female Thread

1146	自己福田	No.2
2.6	ÉÉÉÉ	100
8.13	EEEE	800 A
1405	3238	

	1 C C C C C C C					
Body Size	Part Number	Thread Size	Overall Length	Wrench Flats	Largest Diameter	Weight
1/8	PD222	1/8-27 NPTF	1.67	0.81	0.96	0.20
1/8	PD240	7/16-20 UNF	2.12	0.81	0.96	0.26
1/8	PD242	1/4-18 NPTF	2.12	0.81	0.96	0.25
1/8	SSPD242Y**	1/4-18 NPTF	2.12	0.81	0.96	0.25
1/8	PD260	9/16-18 UNF	2.12	0.81	0.96	0.24

Coupl	ers- Male Pipe Thr	ead				
Body Size	Part Number	Thread Size	Overall Length	Wrench Flats	Largest Diameter	Weight
1/8	PD243	1/4-18 NPTF	2.26	0.81	0.96	0.23

Nippl	Nipples- Female Pipe Thread									
Body Size	Part Number	Thread Size	Overall Length	Exposed Length	Wrench Flats	Largest Diameter	Weight			
1/8	PD322	1/8-27 NPTF	1.48	0.78	0.56	0.65	0.06			
1/8	PD342	1/4-18 NPTF	1.63	0.93	0.75	0.87	0.12			

Nipples- Male Pipe Thread

Body Size	Part Number	Thread Size	Overall Length	Exposed Length	Wrench Flats	Largest Diameter	Weight
1/8	PD323	1/8-27 NPTF	1.55	0.85	0.69	0.79	0.17
1/8	BPD323Y*	1/8-27 NPTF	1.44	0.74	0.63	0.72	0.17
1/8	BPD343Y*	1/4-18 NPTF	1.48	0.78	0.69	0.79	0.06
1/8	PD343	1/4-18 NPTF	1.48	0.78	0.69	0.79	0.06
1/8	SSPD343Y**	1/4-18 NPTF	1.48	0.78	0.69	0.79	0.06
1/8	PD363	3/8-18 NPTF	1.50	1.13	0.81	0.96	0.09

* $\underline{B}PD$ designates brass body, Fluorocarbon seal standard ** $\underline{SS}PD$ designates 316SS body, Fluorocarbon seal standard



Note: Add -6 to Nipple part number to include dust cap, for example PD343-6



Nipples- Male Metric Thread



Body Size	Part Number	Thread Size Metric	Overall Length	Exposed Length	Wrench Flats	Largest Diameter	Weight
1/8	PD357	M10 x 1.0	1.80	1.10	0.69	0.79	0.17
1/8	PD3107	M16 x 1.5	1.54	0.84	0.88	1.01	0.08
1/8	PD3127	M18 x 1.5	1.60	0.90	0.94	1.08	0.09
1/8	PD3147	M20 x 1.5	1.50	0.80	0.75	0.87	0.07

Nipples- Male Straight Thread



Body Size	Part Number	Thread Size ORB	Overall Length	Exposed Length	Wrench Flats	Largest Diameter	Weight
1/8	PD331	3/8-24 UNF	1.80	1.10	0.69	0.79	0.17
1/8	PD341	7/16-20 UNF	1.60	0.90	0.69	0.79	0.08
1/8	PD351	1/2-20 UNF	1.32	0.62	0.63	0.72	0.05
1/8	PD361	9/16-18 UNF	1.32	0.62	0.69	0.79	0.06

Nipples- Bulkhead Triple-Lok



Body Size	Part Number	Thread Size	Tube Size	Overall Length	Exposed Length	Wrench Flats	Largest Diameter	Weight
1/8	PD345	7/16-20 UNF	1/4	2.92	2.22	0.81	0.94	0.19
1/8	PD355	1/2-20 UNF	5/16	2.92	2.22	0.81	0.94	0.19
1/8	PD365	9/16-18 UNF	3/8	3.00	2.30	0.81	0.94	0.20

Nipples- Bulkhead Seal-Lok



Body Size	Part Number	Thread Size	Tube Size	Overall Length	Exposed Length	Wrench Flats	Largest Diameter	Weight
1/8	PD346	9/16-18 UNF	1/4	2.98	2.27	0.81	0.94	-
1/8	PD366	11/16-16 UNF	3/8	3.08	2.37	1.00	1.16	-
1/8	PD386	13/16-16 UNF	1/2	3.18	2.47	1.12	1.30	-

* Note: Add -6 to part number to include dust cap, for example PD343-6

* <u>B</u>PD designates brass body, Fluorocarbon seal standard ** <u>SS</u>PD designates 316SS body, Fluorocarbon seal standard



Tube	Tube End Nipples*- Triple Lok									
Body Size	Part Number Steel	Tube Size	Overall Length	Exposed Length	Weight					
1/8	PD34BTX	1/4	1.64	0.94	0.10					
1/8	PD36BTX	3/8	1.66	0.96	0.09					
1/8	PD38BTX	1/2	1.17	0.47	0.12					
1/8	PD312BTX	3/4	1.39	0.69	0.27					

* Tube end nipples are designed to meet the performance standards of the tube or hose fitting connection, which may or may not meet SAE J1502 Standards

Tube End Nipples*- Seal Lok

Cassioner	States and	101	الاست
C Martin and	2023	and the second second	100
- Generation	ulta -	- 12 - A	2. J.
		1.0	

Body Size	Part Number Steel	Tube Size	Overall Length	Exposed Length	Weight				
1/8	PD34BTL	1/4	2.18	1.48	0.12				
1/8	PD36BTL	3/8	2.30	1.60	0.14				
1/8	PD38BTL	1/2	1.57	0.83	0.13				
1/8	PD310BTL	5/8	1.16	0.46	0.19				

* Tube end nipples are designed to meet the performance standards of the tube or hose fitting connection, which may or may not meet SAE J1502 Standards



Note: Add -6 to Nipple part number to include dust cap, for example PD343-6



Diagnostic Quick Couplers - Order Today, SHIP TODAY at www.ConnectorSpecialists.comDiagnostic ProductsTest Port CouplingsCouplingsPDP Series



Specifications - Body Size 1/8"						
Description	PDP Coupler	PDP Nipple	Assembly			
Body Material (Steel)	Carbon Steel	High Tensile Steel	_			
Rated Pressure (PSI)	-	6000	6000			
Temperature Range (STD Seals) Nitrile	-40°F to +250°F					
Connect Force- Assembly	6 Lbs. (0-6000 PSI)					
Disconnect Force-Assembly		7 Lbs. (0-6000 PS	51)			

PD Series Dust Cap					
	Body Size	Dust Cap Part No.			
	1/8	PD6-285			



Note: Add -6 to Nipple part number to include dust cap, for example PDP343-6

PDP Series couplings provide easy connection for mechanical gauges or specialized diagnostic equipment like SensoControl.

Typically, PDP nipples are permanently mounted in the system at threaded test ports, in rigid tubing or in hose assemblies. PDP couplers are attached to test instruments.

Locking balls align the couplers to the mating nipples without threading, so gauges, transducers and other test equipment can be snapped into place without difficulty.

Parker's PDP Series couplings offer the advantages of PD couplings, but are designed to connect easily and quickly under full system pressure up to 6000 PSI (operating).

PDP couplers and nipples push to connect with a constant force of only six pounds. Then the coupler base is turned to open the valve and complete the connection. In the connected position, the coupler base blocks the retracting sleeve to prevent accidental disconnects.

Features

- Made to connect under pressure up to 6000 psi
- Grip-tight knurled sleeves help to make connecting and disconnecting easy, even while wearing gloves.
- Nipples are machined from high tensile steel for strength to withstand 6000 PSI continuous operating pressure.
- End connections include pipe, O-ring, 37º Flare and ORFS
- Durable Ball Valve Nipple.
- Coupler is unvalved to allow gauges and transducers to return to zero when disconnected.

Ordering Information

Coupling / Nipple Material: Standard body material is Steel Standard seal material is Nitrile

Optional Seals Suffix*						
Nitrile seals. W	No suffix is required when ordering products with the standard Nitrile seals. When specifying an optional seal, refer to the following chart to determine the appropriate suffix.					
Coupling Series	Ethylene Propylene	Fluorocarbon Neopren				
PDP Series	W	Y Z				

*To select proper seal materials, see Fluid Compatibility Chart in Appendix section, or contact your Parker Quick Coupling Distributor.



Diagnostic Quick Couplers - Order Today, SHIP TODAY at www.ConnectorSpecialists.comDiagnostic ProductsTest Port CouplingsCouplingsPDP Series

Coup	ler - Female Thre	ad				
Body Size	Part Number Steel	Thread Size	Overall Length	Largest Diameter	Wrench Flats	Weight
1/8	PDP242	1/4-18 NPTF	2.15	0.96	0.81	-

Nipples - Male Pipe Thread



Body Size	Part Number	Thread Size	Overall Length	Exposed Length	Wrench Flats	Largest Diameter	Weight
1/8	PDP323	1/8-27 NPTF	2.02	1.46	0.69	0.79	0.26
1/8	PDP343	1/4-18 NPTF	1.48	0.93	0.69	0.79	0.12

Nipples - Male Straight Thread



Body Size	Part Number	Thread Size ORB	Overall Length	Exposed Length	Wrench Flats	Largest Diameter	Weight
1/8	PDP341	7/16-20 UNF	2.06	1.50	0.69	0.79	0.12
1/8	PDP361	9/16-18 UNF	1.48	0.93	0.69	0.79	0.07

Nipples - Triple-Lok



Body Size	Part Number	Tube Size	Overall Length	Exposed Length	Wrench Flats	Largest Diameter	Weight
1/8	PDP34BTX	1/4	2.11	1.55	0.69	.80	-
1/8	PDP36BTX	3/8	2.13	1.57	0.69	.80	-

Nipples - Seal-Lok



Body Size	Part Number	Tube Size	Overall Length	Exposed Length	Wrench Flats	Largest Diameter	Weight
1/8	PDP34BTL	1/4	2.65	2.09	.69	.80	-
1/8	PDP36BTL	3/8	2.77	2.21	.81	.94	-



Diagnostic Quick Couplers - Order Today, SHIP TODAY at www.ConnectorSpecialists.comDiagnostic ProductsTest Port CouplingsCouplingsEMA3 Series



Features

- Knurled sleeve allows simple twist-to-connect operation without the use of tools
- Rugged design allows connect-under-pressure operation up to 5800 psi
- Maximum rated working pressure of 9000 psi exceeds the requirements of most applications
- Integral threaded dust cap protects the test point from damage and contamination
- EMA fittings are machined from solid barstock and protected with Chromium-6 Free plating.
- Stainless steel springs for corrosion resistance
- Elastomeric interface and valve seals provide leak free operation
- Compact design and optional high pressure hose assemblies provide flexibility for tight space requirements

EMA couplings provide easy diagnostic connections for Parker
SensoControl [®] equipment or mechanical gages. EMA test
points are typically permanently plumbed into a fluid system
at locations where pressure measurements are required for
maintenance or testing. Integral pressure cap protects the test
point from damage and prevents contam-ination of the fluid
system. Proven twist-to-connect design allows the test points
to be connected even when the system is in operation and the
test points are pressurized. EMA's compact design and optional
high pressure hose assemblies allow extra flexibility for the
location of system test points.

Although designed primarily for diagnostic applications, EMA fittings and hose assemblies are idea for a wide range of applications that require compact high pressure connections and limited flow rates.

Specifications	
Body Size	1/8
Rated Pressure (psi)	9000 PSI
Max Connect-Under-Pressure (psi)	5800
Rated Flow (GPM)	0.8
Body Material	Chromium-6 Free Plated Steel
Standard Seal Material	Nitrile (external) Fluorocarbon (internal)
Temperature Range (std. seals)	-15° to +250° F

Male Pipe Thread



Part Number	Port Thread Size	Wrench Flats	Interface Thread Size	Overall Length	Weight			
EMA3/1/8NPT	1/8-27NPT	17	M16X2.0	1.81	0.15			
EMA3/1/4NPT	1/4-18NPT	17	M16X2.0	1.98	0.16			
EMA3/1/4NPT71 Stainless Steel	1/4-18NPT	17	M16X2.0	1.95	0.16			

SAE Straight Thread



Part Number	Port Thread Size	Wrench Flats	Interface Thread Size	Overall Length	Weight
EMA3/7/16-20UNF-2A*	7/16-20UNF-2A	17	M16X2.0	1.88	0.15
EMA3/9/16-18UNF-2A*	9/16-18UNF-2A	19	M16X2.0	1.88	0.17
* O Bing cool on port					

* O-Ring seal on port



Diagnostic Products

Couplings

Test Port Couplings EMA3 Series

Metric Straigh	t Thread				
Part Number	Port Thread Size	Wrench Flats	Interface Thread Size	Overall Length	Weight
EMA3/M8X10R*	M8X1	17	M16X2.0	1.81	0.15
EMA3/10X1ED**	M10X1	17	M16X2.0	1.85	0.15
EMA3/12X1.5ED**	M12X1.5	17	M16X2.0	1.94	0.16
EMA3/14X1.5ED**	M14X1.5	19	M16X2.0	1.94	0.16

* O-Ring seal on port **Molded seal on port

British Parallel Pipe										
Part Number	Port Thread Size	Wrench Flats	Interface Thread Size	Overall Length	Weight					
Part Number EMA3/1/8ED**	Port Thread Size	Wrench Flats		Overall Length	Weight					
			Size							

**Molded seal on port

EMA Gauge Adapter									
Part Number	Port Thread Size	Wrench Flats	Port Thread Size	Overall Length	Weight				
MAV1/4NPT-MA3	1/4-18NPT	19	M16X2.0	2.22	0.16				
MAV1/4NPT-MA3-KM Includes Dust Cap	1/4-18NPT	19	M16X2.0	2.22	0.23				

EMA Gauge Adapter

3.6

Part Number	Port Thread Size	Wrench Flats	Port Thread Size	Overall Length	Weight			
MAVMD1/4NPT-MA3	1/4-18NPT	19	M16X2.0	2.22	0.18			

Union										
Part Number	Port Thread Size	Wrench Flats	Port Thread Size	Overall Length	Weight					
EMA3VS	M16X2.0	17	M16X2.0	1.65	0.11					



Transducer Adapters 1/2 - 14 BSPP Thread*												
Fine -												
Part Number	Overall Length	Weight	Largest Diameter	Port Thread Size	Interface Thread Size	Weight						
PD288	2.52	1.19	1.38	1/2-14BSPP	-	0.35						
PDP288	2.58	1.19	1.38	1/2-14BSPP	-	0.35						
PDP288 2.58 1.19 1.38 1/2-14BSPP - 0.35												
SCA-1/2-EMA-3	2.07	27mm	-	1/2-14BSPP	M16X2.0	0.30						

* Note: For old style M22X1.5 thread contact QCD

Flexible Hose									
	Part Number	Length (in.)	Length (mm)	Thread Size A					
	SMA3-200	7.90	200	M16x2.0					
	SMA3-400	15.75	400	M16x2.0					
	SMA3-800	31.50	800	M16x2.0					
	SMA3-2000	78.75	2000	M16x2.0					
	SMA3-4000	157.50	4000	M16x2.0					

Note: Other lengths available upon request.

Maximum pressure rating for test hose is 9000 psi.



Diagnostic Quick Couplers - Order Today, SHIP TODAY at www.ConnectorSpecialists.comDiagnostic ProductsTest Port CouplingsCouplingsFluiding Sampling



These diagnostic fluid sampling products are designed to provide an easy access point for obtaining fluid samples. A permanently mounted test point eliminates the need to shut down or break lines when taking samples and reduces the chances of contamination. Fluid analysis is crucial in both engines and hydraulic systems as it can reveal problems with filtration and other internal components. Early detection can prevent costly repairs, unscheduled maintenance and production downtime. These fluid sampling nipples should be installed in either low pressure or return lines. For the most accurate monitoring, fluid samples should be constantly taken from the same location.

Specifications					
Body Size	1/8				
Rated Pressure (PSI)	500 PSI				
Seal Material	Fluorocarbon				
Temperature Range (std. seals (Fluorocarbon)	-40° to +250° F				

Couplers- Female Thread



Body Size	Part Number	Female Thread NPTF	Female Thread ORB	Overall Length	Wrench Flats	Largest Diameter	Weight
1/8	PDFS242	1/4-18	-	2.15	0.81	0.96	0.25

Nipples- Male Thread



Body Size	Part Number	Thread Size ORB or NPTF	Thread Size Metric	Overall Length	Exposed Length	Wrench Flats	Largest Diameter	Weight
1/8	BPDFS341	7/16-20 ORB		1.60	0.90	0.69	0.79	0.08
1/8	BPDFS343	1/4-18 NPTF		1.48	0.78	0.69	0.79	0.06
1/8	PDFS-PROBE*		NA	-	-	-	-	-

Fluorocarbon seal is standard.

Dust Cap PD6-285 is recommended.

