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## PUMPS WITH MULTIPLE FIXED DELIVERIES FOR HIGH PRESSURE (OIL OR 95/5 HWCF) HEAVY DUTY APPLICATIONS

Internationally known as a world class hydraulic company, Oilgear specializes in the design, engineering technology and equipment needed to solve tough hydraulic problems by combining the right pump and components into an engineered system that will meet specific needs. The Oilgear PFCS pump is designed for applications that require the following:

- HIGH PRESSURE Up to 7250 psi (500 bar) with most hydraulic fluids (5000 psi (345 bar) with 95/5).
- HEAVY DUTY CONSTRUCTION Many of these units have operated 40,000 hours before inspection and reconditioning is necessary.
- HIGH DIRT TOLERANCE Check valve design provides a high degree of contamination resistance.
- OPERATION ON LOW VISCOSITY and SPECIAL FLUIDS INCLUDING 95/5 These pumps are designed with hydrostatic type bearings and a stationary cylinder.
- MULTIPLE DELIVERIES Up to three separate displacements available from a single pump.

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# PERFORMANCE ASSURANCE – STANDARD WITH EVERY OILGEAR COMPONENT

# **Oilgear** PERFORMANCE ASSURANCE

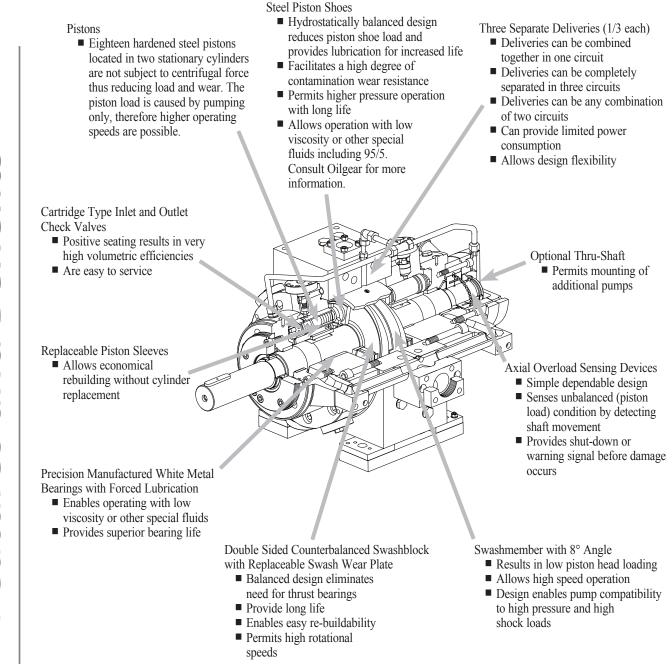
**Every** Oilgear product is shipped to you with our Performance Assurance — a corporate commitment to stay with your installation until our equipment performs as specified.

Hydraulic equipment and systems have been Oilgear's primary business since 1921. For decades, we have developed hydraulic techniques to meet the unique needs and unusual fluid power problems of machinery builders and users worldwide, matching fluid power systems to a tremendous range of applications and industries. Our exclusive Performance Assurance program is built upon that strong foundation. As a customer, you also benefit from access to Oilgear's impressive technical support network. You'll find factory trained and field-experienced application engineers on staff at every Oilgear facility. They are backed by headquarters staff who can access the records and knowledge learned from decades of solving the most difficult hydraulic challenges.

When your design or purchase is complete, our service is just beginning. If you ever need us, our Oilgear engineers will be there, ready to help you with the education, field service, parts and repairs to assure that your installation runs smoothly and keeps right on running.

# PFCS

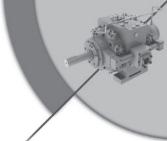
# HIGH PRESSURE AXIAL PISTON PUMPS



#### Experience

Typical applications for these units include – open and closed die forging presses, piercing presses, coining presses, rubber pad presses, etc.

Features and Benefits gear



## SINGLE DISCHARGE PFCS440 / PFCS580

				ATED RATED DRIVE SPEED												
	THEOR	ETICAL	CONTI			1200 rpm 1500 r					) rpm			1800 rpm		
	DISPLAC	CEMENT	PRES	SURE			INPUT*				INPUT*				INPUT*	
UNIT	in.3/rev.	ml/rev.	psi	bar	USgpm	lpm	hp	kw	USgpm	lpm	hp	kw	USgpm	lpm	hp	kw
PFCS440	28.6	468	7250	500	135	511	649	484	169	640	812	606	203	769	976	728
PFCS580	35.8	587	5000	350	169	641	633	472	212	801	791	590	-	-	-	-

\*Approximate at rated speed and pressure.

Note: External supercharge pressure of 150-to-180 psi (10,3-to-12,4 bar) is required.

### MULTIPLE DISCHARGE PFCS440 / PFCS580

				RA	TED DRI	VE SPE	ED		
	NUMBER OF	DISCHARGE	1200	rpm	1500	rpm	1800	) rpm	
UNIT	DISCHARGES	#	USgpm	lpm	USgpm	lpm	USgpm	lpm	
	2	1	45.0	171	56.3	213	67.7	257	
	2	2	90.0	341	113	427	135	514	
PFCS440		1	45.0	171	56.3	213	67.7	257	
	3	2	45.0	171	56.3	213	67.7	257	
		3	45.0	171	56.3	213	67.7	257	
	2	1	56.5	214	70.5	267	-	-	
PFCS580	2	2	113	427	141	534	-	-	
		1	56.5	214	70.5	267	-	-	
	3	2	56.5	214	70.5	267	-	-	
		3	56.5	214	70.5	267	-	-	

### **DISCHARGE BLOCKS**

There is a wide and diverse variety of discharge blocks and integrated manifolds available incorporating valves for the various types of installations. Contact the factory with specific requirements.

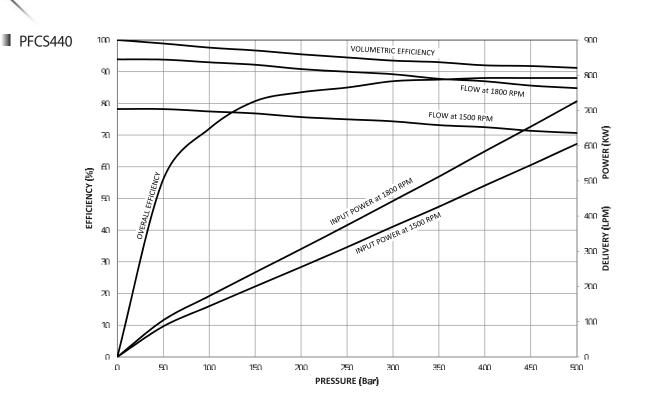
## DIMENSIONS\* (Without Discharge Block)

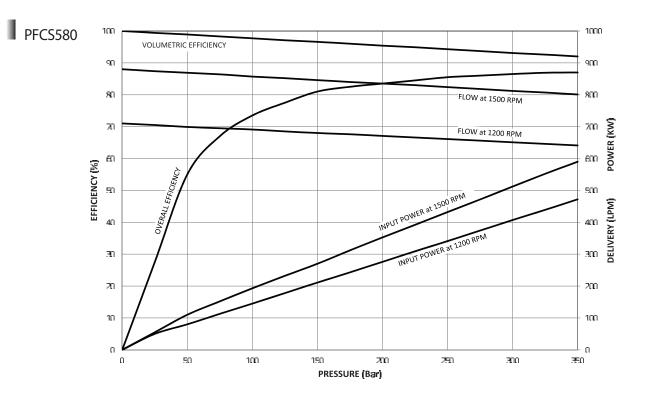
	L LEI	NGTH	W W	'IDTH	H HE	IGHT	WEIGHT		
UNIT	in.	mm	in.	mm	in.	mm	lb.	kg	
PFCS440	16 12	1170	24.57	624	22.72	577	2469	1120	
PFCS580	46.42 1179		24.57	024	22.12	511	2409	1120	

\* All dimensions are approximate. For detailed information consult your factory representative.



Oilgear Performance Data





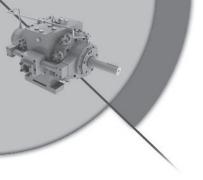
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## HOW TO ORDER – PFCS

BLOCK NUMBER EXPLANATION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
HIGH PRESSURE PUMP EXAMPLE	Р	F	С	S	440	А	*	М	500	L	F	R	L	Ν	NN	А	В

- 1 = UNIT P = Pump
- 2 = TYPE F = Fixed
- 3 = DESIGN C = Dual Swash
- 4 = FRAME S = Up to 630 ml/Rev
- 5 = DISPLACEMENT 440 = 440 ml/Rev 580 = 580 ml/Rev
- 6 = DESIGN SERIES A = Standard for Mineral Oil
- 7 = MODIFIER \* = Designated by Factory
- 8 = DIMENSIONS M = Metric
- 9 = MAX. WORKING PRESSURE 500 = For 440 Size 350 = For 580 Size
- 10 = ROTATION (Facing Drive Shaft)
  - L = Counterclockwise (CCW) Left Hand
  - R = Clockwise (CW) Right Hand
- 11 = MOUNTING
  - F = Foot Mounting (Standard)

- 12 = INLET POSITION (Facing Drive Shaft) Note: Inlet is always on the opposite side of discharge
  - L = Left Side with Horizontal Connection
  - R = Right Side with Horizontal Connection
  - A = Left Side with Vertical Connection
  - B = Right Side with Vertical Connection
- 13 = DISCHARGE POSITION (Facing Drive Shaft) Note: Discharge Position is always on the opposite side of inlet
  - L = Left Side
  - R = Right Side
- 14 = DISCHARGE BLOCK N = No Connection Block Fitted (Available as a separate item; consult Oilgear)
- 15 = SHAFT NN = Standard Key
- 16 = FAULT SWITCH
  - A = Micro Switch and Connector
- 17 = SEALS
  - B = Buna N
  - E = E.P.D.M.
  - V = Viton
  - Z = Special





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For more information about your application or the products in this brochure, please contact your nearest Oilgear facility.



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CANADA The Oilgear Company

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GERMANY Oilgear Towler GmbH

**INDIA** Oilgear Towler Polyhydron Pvt. Ltd. Towler Automation Pvt. Ltd.

ITALY Oilgear Towler S.r.l.

JAPAN The Oilgear Japan Company

KOREA Oilgear Towler Korea Co. Ltd.

**MEXICO** Oilgear Mexicana S.A. de C.V.

SPAIN Oilgear Towler S.A.

TAIWAN Oilgear Towler Taiwan Co. Ltd.

**UNITED KINGDOM** Oilgear Towler Ltd.

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