

Oilgear

PRODUCT REFERENCE GUIDE



PERFORMANCE ASSURANCE – STANDARD WITH EVERY OILGEAR COMPONENT

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.





PVM | Axial Piston Pump
10 Displacements

Maximum Pressure: 4250 psi
Displacement: 0.66 to 7.94 in.³
Rated RPM: 3600 rpm
Mounting Configuration: SAE "A", "B", "C" 2 and 4 Bolt Flange Mount
Bulletin Number: 47070



PVWJ | Axial Piston Pump
10 Displacements

Maximum Pressure: 5800 psi
Displacement: 0.66 to 7.94 in.³
Rated RPM: 3000 rpm
Mounting Configuration: SAE "A", "B" and "C" 2 Bolt Flange Mount
Bulletin Number: 47085



PVWH | Axial Piston Pump
10 Displacements

Maximum Pressure: 5800 psi
Displacement: 0.66 to 7.94 in.³
Rated RPM: 3000 rpm
Mounting Configuration: SAE "A", "B" and "C" 2 Bolt Flange Mount
Bulletin Number: 47015



PVWW | Axial Piston Pump
7 Displacements

Maximum Pressure: 3500 psi
Displacement: 0.86 to 7.94 in.³
Rated RPM: 1800 rpm
Mounting Configuration: SAE "A", "B" and "C" 2 Bolt Flange Mount
Bulletin Number: 47013



PVWC | Axial Piston Pump
Hydrostatic
3 Displacements

Maximum Pressure: 5000 psi
Displacement: 0.66 to 1.35 in.³
Rated RPM: 3600 rpm
Mounting Configuration: SAE "A" and "B" 2 Bolt Flange Mount
Bulletin Number: 47018



PVK | Axial Piston Pump
3 Displacements

Maximum Pressure: 5800 psi
Displacement: 8.61 to 22.4 in.³
Rated RPM: 1800 rpm
Mounting Configuration: SAE "D" and "F" 4 Bolt Flange Mount
Bulletin Number: 47025



Oilgear Variable Pumps

Variable Pumps



PVG — Axial Piston Pump 4 Displacements

Maximum Pressure: 5800 psi
 Displacement: 3.98 to 7.94 in.³
 Rated RPM: 2700 rpm
 Mounting Configuration: SAE "B", "C" 2 and 4 Bolt Flange Mount
 Bulletin Number: 47019



PVV — Axial Piston Pump 4 Displacements

Maximum Pressure: 6500 psi
 Displacement: 12.2 to 33.00 in.³
 Rated RPM: 2200 rpm
 Mounting Configuration: ISO and SAE Flange Mount
 Bulletin Number: 47028

Fixed Pumps



PFBA — Check Valve Pump 6 Displacements

Maximum Pressure: 9000 psi
 Displacement: 0.136 to 0.835 in.³
 Rated RPM: 1800 rpm
 Mounting Configuration: Foot or Face Mount
 Bulletin Number: 46005



PFBK — Check Valve Pump 4 Displacements

Maximum Pressure: 15000 psi
 Displacement: 2.13 to 4.17 in.³
 Rated RPM: 1800 rpm
 Mounting Configuration: Foot or Face Mount
 Bulletin Number: 46005



PFCM — Check Valve Pump 4 Displacements

Maximum Pressure: 15000 psi
 Displacement: 4.26 to 8.34 in.³
 Rated RPM: 1800 rpm
 Mounting Configuration: Foot or Face Mount
 Bulletin Number: 46005



PFCS — Check Valve Pump 2 Displacements

Maximum Pressure: 7250 psi
 Displacement: 26.85 to 35.39 in.³
 Rated RPM: 1800 rpm
 Mounting Configuration: Foot or Face Mount
 Bulletin Number: 46005

Motors



MVQ — Axial Piston Motor **Variable** — 4 Displacements

Maximum Pressure:	4500 psi
Displacement:	0.86 to 2.83 in. ³
Rated RPM:	100 to 3000 rpm
Mounting Configuration:	SAE "A" and "B" 2 Bolt Flange Mount
Bulletin Number:	57015



MFQ — Axial Piston Motor **Fixed** — 4 Displacements

Maximum Pressure:	4500 psi
Displacement:	0.86 to 2.83 in. ³
Rated RPM:	100 to 3000 rpm
Mounting Configuration:	SAE "A" and "B" 2 Bolt Flange Mount
Bulletin Number:	57015



Manifolds

Oilgear modular and integrated manifolds simplify maintenance and reduce fluid leakage. Modular type manifolds can be stacked horizontally or vertically to satisfy circuit needs. For more demanding applications, Oilgear high strength steel integrated manifolds withstand extreme operating pressure and allow higher throughput rates with minimal pressure drops.

Electronics

Oilgear offers a wide range of standardized electronic control modules for specialized electrohydraulic control applications. These standard modules may be combined, using a building block approach, into "customized" application control systems. Solid state I.C. construction gives you high reliability and long service performance. An optional mini rack featuring back plane wiring and extender cards ensures easy servicing of all control modules.



Directional Valves



VDC — Directional Valve

General Description: Subplate Mounted.
3 and 4-way.
3 Sizes: ranging from 1 to 3 inches.

GPM: 620 gpm Δ 100 psi
PSI: 5000 psi
Bulletin Number: 80305

WE — Directional Valve

General Description: Subplate Mounted.
3 and 4-way.
4 Sizes: ranging from 1/4 to 3/4 inches.

GPM: 105 gpm Δ 100 psi
PSI: 5000 psi
Bulletin Number: 80340 and 80349

Cartridge Valves



SLIP-IN — Cartridge Valve

General Description: 6 Sizes for a variety of Pressure and Flow Applications.

GPM: 880 gpm Δ 100 psi
PSI: 5000 psi
Bulletin Number: 80001

SCREW-IN — Cartridge Valve

General Description: 5 Sizes for a variety of Pressure and Flow Applications.

GPM: 300 gpm Δ 100 psi
PSI: 5000 psi
Bulletin Number: 80001

Servo Valves



VBP — Servo Valve

General Description: Servo Controlled Cartridge Valve with LVDT feedback.
6 Sizes Available.

GPM: 800 gpm Δ 100 psi

PSI: 5000 psi

Bulletin Number: Contact Factory



SCVS — Servo Valve

General Description: 3-way.
5 Sizes Available.
2 Stage.

GPM: 275 gpm Δ 1000 psi

PSI: 5000 psi

Bulletin Number: 36110

Prefill Valves



VPE — Prefill Valve

General Description: 2-way.
8 Sizes Available.

GPM: 13000 gpm 50 psi Head Loss

PSI: 14500 psi

Bulletin Number: 86000



VSA — Prefill Valve

General Description: 3-way.
4 Sizes Available.

GPM: 2500 gpm 1 psi Head Loss

PSI: 5000 psi

Bulletin Number: 86000

Oilgear

World Headquarters
The Oilgear Company

2300 South 51st Street Milwaukee, WI USA 53219
phone: 414/327-1700 fax: 414/327-0532

www.oilgear.com

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



AUSTRALIA

Oilgear Towler Australia Pty. Ltd.

BRAZIL

Oilgeardo Brazil Hydraulica Ltd.

CANADA

The Oilgear Company

FRANCE

Oilgear Towler S.A.

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.

UNITED STATES OF AMERICA

The Oilgear Company