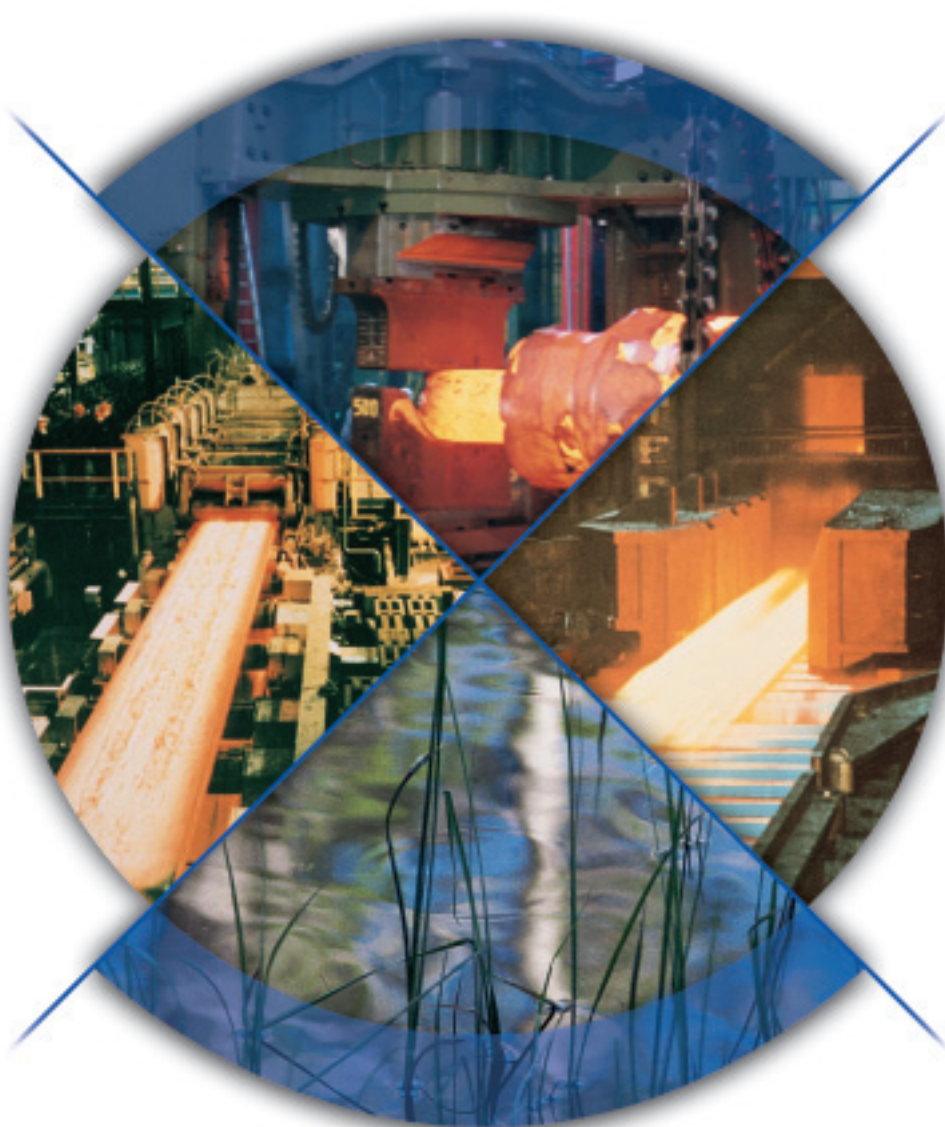


Oilgear

WATER HYDRAULIC PRODUCTS



System Solutions Guide



Innovative Solutions...

For your most demanding manufacturing requirements when you need:

- Water under pressure
- Minimized fire risk
- Environmental protection
- Reduction or elimination of unscheduled downtime

Oilgear Experience...

Time-proven application know-how for industry worldwide:

- 80 years of leadership in engineered fluid power and power transmission solutions
- 25 years experience with water-based and other fire-resistant fluids

Full System Responsibility...

Complete integration of your system from design through installation:

- State-of-the-art precision electronic controls
- Engineered components that deliver the accuracy, performance, and reliability you require.

Call on your Oilgear team of seasoned professionals to discuss a **custom solution** for your manufacturing process, whether you need an **upgrade** or a completely **new system**.

Aluminum Foundry

Aluminum Rolling Mills

Automotive

Brass Rolling Mills

Centrifugal Casting

Chemical Processing

Civil

Cleaning

Concast

Cutting

D.C. Casting

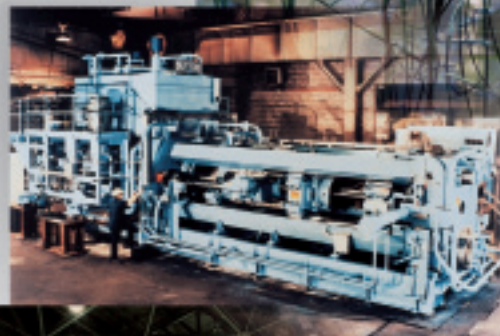
Die Casting

Entertainment

Extrusion

Food Processing

Forging
Foundry
Glass Making
Hydroforming
Metal Processing
Mining
Marine
Offshore
Oil and Gas
Plastics
Pulp and Paper
Rubber
Steel Rolling Mills
Walking Beam
Furnace Systems



Oilgear Water Hydraulic Products

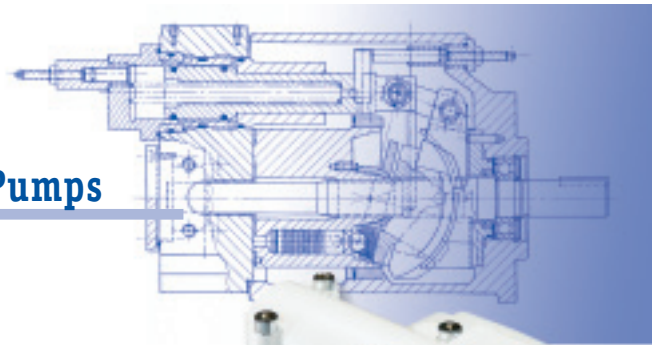
Axial Piston Port Plate Pumps

PVWW → Economy
(Bulletin #47013)

PVG → High Performance
(Bulletin #47019)

PVK → Larger High Performance
(Bulletin #47025)

Flows to 60 gpm with 95/5 Fluid
Pressures to 3500 psi with 95/5 Fluid
Flows to 120 gpm with Water Glycol
Pressures to 4000 psi with Water Glycol
Operation to 1800 rpm (Higher rpm on application)



Axial Piston Check Valve Pumps

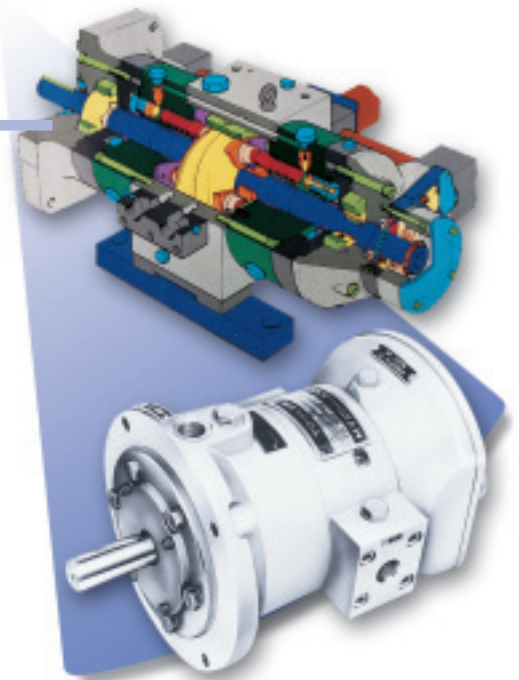
(Bulletin # 46005)

PFBK and PFCM

Fixed Displacement Pumps
Stepped Deliveries to 58.6 gpm
5000 psi with 95/5 Hydraulic Fluid
Operation to 1800 rpm (Higher rpm on application)

A8 PUMP

5.0 gpm/1200 rpm (19.2 lpm) (6.6 h.p.)
6.3 gpm/1500 rpm (24 lpm) (8.3 h.p.)
7.6 gpm/1800 rpm (28.8 lpm) (10 h.p.)
2000 psi (2500 psi max)



Duplex Water Pump

Ideal for new installations or to replace Triplex, Quintplex, or Centrifugal pumps

100 to 600 gpm
Pressure to 5000 psi
Tap Water, 95/5, and Water Glycol Fluid
Variable Delivery
Pressure Compensated
Other Controls: Volume, Load Sense, H.P. Limiting





Amplifier Cartridge Type 2 Port By-pass Valves

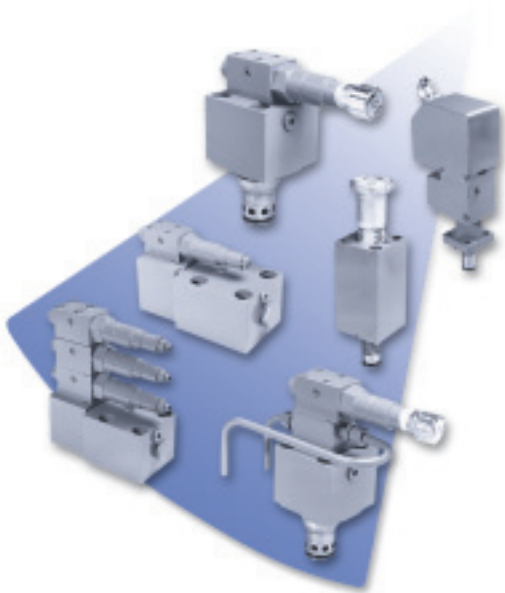
Proportional or On/Off (Bulletin # 80225)

VRT Slip-in Cartridges—ISO7368

Flows to 792 gpm (3000 lpm)
Pressures to 7250 psi (500 bar)
ISO/DIN Sizes: 06/016, 09/032, 10/040,
12/063, 13/080

VBW Manifold Face Mtd.—HWCF—ISO1581

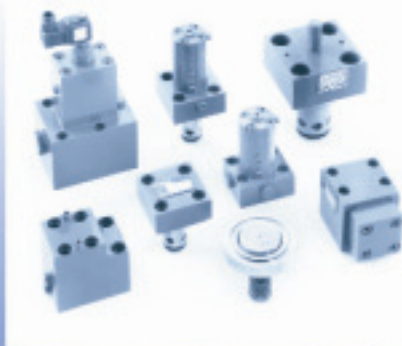
Pressures to 4500 psi (310 bar)
ISO/DIN Sizes: 06/016, 08/025, 10/040



Pressure Controls

2 Stage Pilot Operated
Single Stage Direct Operated (Bulletin # 80100)

Surface Mounted and Slip-in Types
Flows to 120 gpm (450 lpm, 7000 psi (480 bar)
Pressures to 1200 bar available
Operators Available: Remote, Multi-Pressure,
Stepper Motor, Electronic

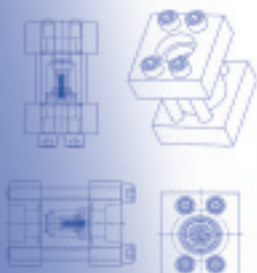


Model VC Check Valves

(Bulletin # 80104)

ISO Mounting Pattern:
■ Slip-in Valves ISO 7368
■ Manifold Face Mount ISO 5781

Flows to 1300 gpm (5000 lpm)
Pressures/Pending Style: 7250 psi (500 bar)
to 20,300 psi (1400 bar)
Sizes/mm: 16, 25, 32, 40, 50, 63, 80, 100, 150, 200



Sizes 1½", 2", 2½", and 3"



Sizes 4", 6", and 8"

In-line Water Check Valves

3500 psi (5000 psi on application)
Sizes: 1½", 2", 2½", 3", 4", 6", 8"



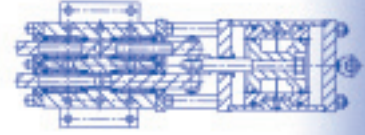
Cartridge Poppet Directionals

Replace or Convert Salem Packed Spool Valves

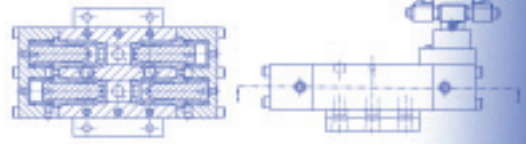
(Bulletin # 89401)

- 15 to 4000 gpm
- 4000 psi
- Fluids: Plain Water, HWCF
- Other Low Viscosity Fluids
- Emulsions, Mineral Oil, Synthetics
- Sizes: 1/2", 3/4", 1", 1 1/4", 1 1/2"
- 2", 3", 4", 6", 8"

Convert from this Salem Series "10"



To this Oilgear Model "1P6"



Convert from this Salem Series "99"

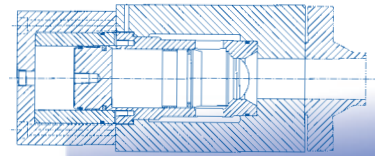


To this Oilgear Model "9P6"



Poppet Descaler Valves

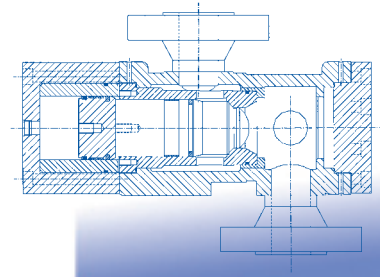
- Poppet Cartridge in Block Housing
- 500 to 4000 gpm
- 3600 psi; 5000 psi available
- Sizes: 3", 4", 6", 8"



Poppet Conversion for Salem Descaler

(Bulletin # 89401)

- Poppet Cartridge fits directly into Salem Descaler Housing
- 800 to 4000 gpm
- 3000 psi
- Sizes: 4", 6", 8"



Cylinder Prefill Valves

(Bulletin # 86000)

Model V S A

- 3-way Spool Type
- Flows to 2500 gpm
- 5000 psi
- Sizes: 4", 6", 8", 10"

Model V P E

- 2-way Seated Type
- Flows to 13,000 gpm
- Pressures to 14,500 psi
- Sizes/mm: 40, 50, 65, 90, 130, 190, 250, 300



12 Sizes Directional Valves 3/8" to 8" 7 gpm to 4000 gpm

(Bulletin # 80080)

Series 10 | Directional Control Valve 2-way ■ 3-way ■ 4-Way

Rated Pressure: 2000 psi ■ 4000 psi

Capacity: SIZES: 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 3", 4"
9 to 1175 gpm

Operator Type: Air Cylinder ■ Hydraulic Cylinder ■ Lever

Series 11 | Descaling Water Valve 2-way

Rated Pressure: 3000 psi

Capacity: SIZES: 4", 6", 8"
1033 to 2869 gpm

Operator Type: Internal Hydraulic

Series 13 | Hydraulic/Air Directional Control Valve 2-way ■ 3-way ■ 4-Way

Rated Pressure: Hydraulic: 350 psi ■ Air: 250 psi

Capacity: SIZES: 1/4", 1/2", 2", 3", 4", 6", 8"
Hydraulic: 115 to 3850 gpm ■ Air: 1430 to 3530 scfm

Operator Type: Internal Air Pistons ■ Lever

Series 14 | Air/Hydraulic Directional Control Valve 3-way ■ 4-Way

Rated Pressure: 125 psi

Capacity: SIZES: 1/2", 1", 1 1/4", 1 1/2", 2", 3"
Air: 265 to 705 scfm ■ Hydraulic: 9 to 258 gpm

Operator Type: Internal Air Pistons ■ Lever

Series 77 | Directional Control Valve 3-way ■ 4-Way

Rated Pressure: 3000 psi

Capacity: SIZES: 3/8", 3/4", 1", 1 1/2", 2 1/2"
6 to 372 gpm

Operator Type: Sol./Air Pilot ■ Internal Hydraulic ■ Lever

Series 99 | Directional Control Valve 2-way ■ 3-way ■ 4-Way

Rated Pressure: 2000 psi

Capacity: SIZES: 3/8", 3/4", 1", 1 1/4", 1 1/2", 2"
6 to 258 gpm

Operator Type: Internal Hydraulic ■ Lever

4", 6", 8" Strainers 800 to 4000 gpm

(Bulletin # 80080)

Series 12 | Descaling Water Strainer .027" gaps or optional .015" gaps

Rated Pressure: 3000 psi ■ 4000 psi Available

Capacity: SIZES: 4", 6", 8"
Flows to 4720 gpm

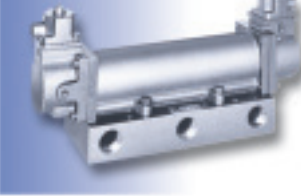
Series 10



Series 11



Series 13



Series 14



Series 77



Series 99



Oilgear Packed Hollow Spool Valves

Strainers

7

Oilgear

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www.oilgear.com

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

Performance Assurance

Each Oilgear component manufactured is shipped with corporate commitment to stay with the installation until the unit performs as specified.

This total dedication to performance is based upon experience gained since 1921 in matching fluid power systems to a tremendous range of machines and applications.

Oilgear's Performance Assurance is made possible because of the many hydraulic techniques learned over the years in supplying machinery builders and users with unique solutions to hundreds of unusual fluid power problems.



Historically, Oilgear has concentrated its energies on hydraulic equipment and systems. Every Oilgear facility is staffed with factory trained and field experienced application engineers.

Performance Assurance doesn't stop with the design of the system or the sale of the component. Oilgear engineers will be there — when they are needed, where they are needed — supplying the technical support, field service, parts and repairs to make sure each component operates correctly.

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