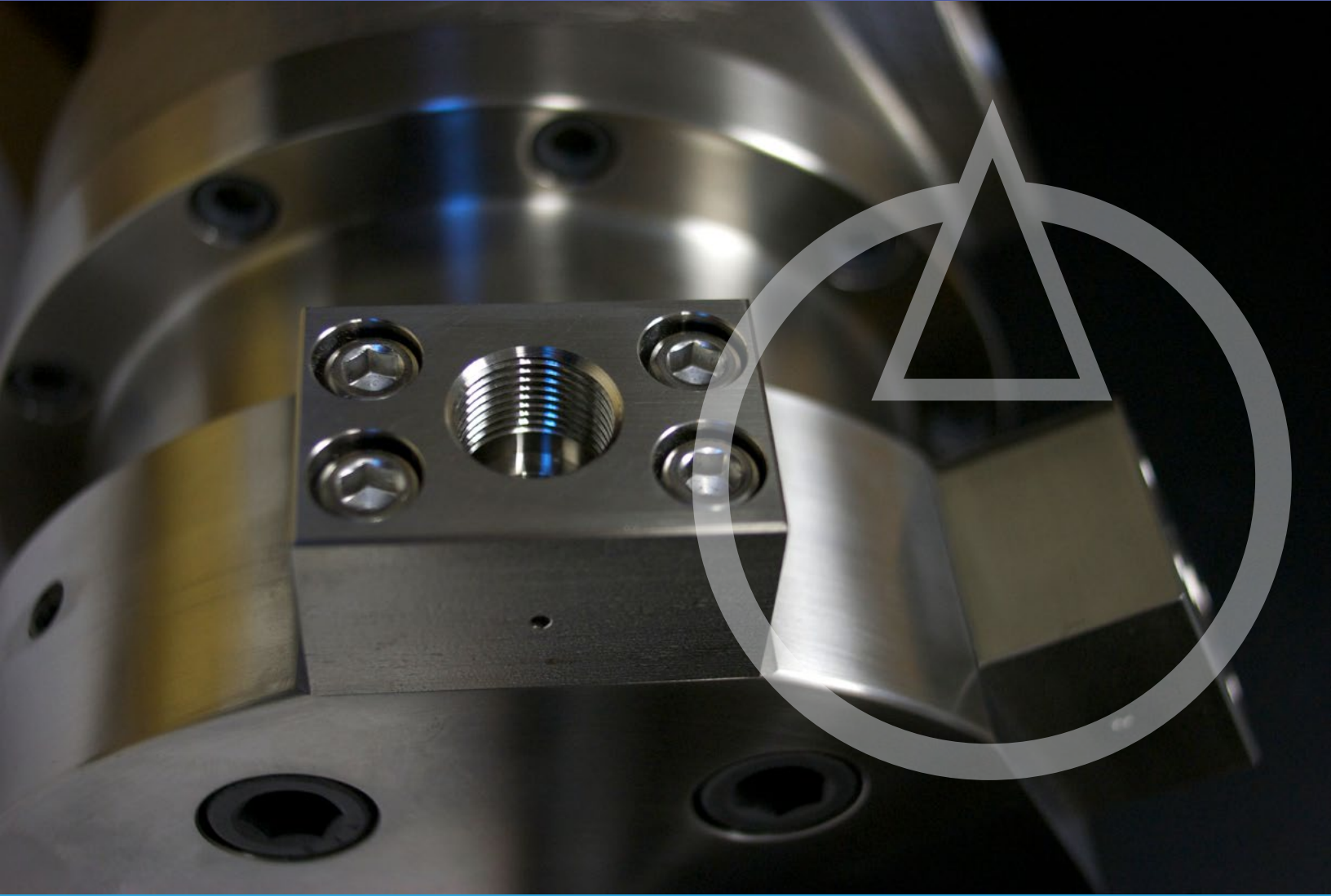


Dynex Product Overview



Company Overview



Hydraulic Components and Power Units

Dynex manufactures hydraulic components and systems for use on mobile and industrial machinery. These pumps, valves, motors, and power units have been sold worldwide for over 60 years.

A Leader in High Pressure Hydraulics

Most hydraulic companies supply components that operate up to 5000 psi (350 bar). At Dynex, our target for new designs begins at 10 000 psi (700 bar).

Dynex is the world's leading producer of high pressure hydraulics for moderate and high flows. At high pressures, these products provide the power in smaller packages. At lower pressures, these same products give you the life and performance margin essential in critical environments. Your machines are stronger, more efficient and reliable. They can be used with confidence anywhere in the world.

Dynex also builds standard hydraulic power units and specialized systems for demanding conditions including high pressure and special fluids.

Top

Corporate Headquarters

Dynex headquarters and primary manufacturing facility in Pewaukee, Wisconsin, U.S.A.

Middle

European Sales and Service

Sales to Europe, Africa and the Middle East are supported from a Dynex facility in the United Kingdom

Bottom

Power Units Division

Power units are produced in Ashland, Massachusetts, U.S.A



DYNEX PF500 SERIES FIXED DISPLACEMENT CHECKBALL PUMPS

0.16 to 0.68 gpm (0,59 to 2,57 L/min) at 1800 rpm

Rated: 10 000 psi (700 bar), Maximum: 15 000 psi (1040 bar)

- Power requirements as low as 1.0 HP at 10 000 psi (0,75 kW at 700 bar).
- Bi-directional rotation providing constant flow direction regardless of drive shaft rotation.
- Split-Flow® models can supply independent flows from up to four separate outlets.
- Used on wellhead control panel systems, solar-powered systems, and power packs on high-torque service tools.



DYNEX PF1000 SERIES FIXED DISPLACEMENT CHECKBALL PUMPS

1.5 to 5.9 gpm (5,7 to 22,3 L/min) at 1800 rpm

Rated: 6 000 psi (420 bar), Maximum: 10 000 psi (700 bar)

- Contamination tolerant, for operation in dirty environments.
- Bi-directional rotation providing constant flow direction regardless of drive shaft rotation.
- Split-Flow® models can supply independent flows from up to four separate outlets.
- Used on wellhead control panel systems, lifting, skidding, and jacking applications.



DYNEX PF1300 SERIES FIXED DISPLACEMENT CHECKBALL PUMPS FOR WATER-BASED FLUIDS

0.32 to 1.42 gpm (1,21 to 5,38 L/min) at 1800 rpm

Maximum: 15 000 psi (1040 bar)

- A wide range of fluid compatibility, for reliable operation with low lubricity, low viscosity fluids.
- Bi-directional rotation providing constant flow direction regardless of drive shaft rotation.
- Single-fluid design eliminates the need for a lubrication circuit.
- These water-glycol pumps are used on wellhead control systems, subsea applications, and other systems requiring waterbased or fire-resistant fluids.



DYNEX PF2000 FIXED DISPLACEMENT CHECKBALL PUMPS

3.0 to 8.5 gpm (11,4 to 32,2 L/min) at 1800 rpm

Rated: 3 000 psi (210 bar), Maximum: 10 000 psi (700 bar)

- Contamination tolerant, for operation in dirty environments.
- Bi-directional rotation providing constant flow direction regardless of drive shaft rotation.
- Split-Flow® models can supply independent flows from up to six separate outlets.
- Used on lifting, skidding and jacking applications, high-pressure hydraulic press applications, mining equipment including rock crushers, and multiple-function systems with changing flow and pressure requirements.

DYNEX PF3000 SERIES FIXED DISPLACEMENT CHECKBALL PUMPS

8.1 to 17.2 gpm (30,7 to 65,1 L/min) at 1800 rpm

Rated: 4 000 psi (700 bar), Maximum: 10 000 psi (1040 bar)



- Contamination tolerant, for operation in dirty environments.
- Bi-directional rotation providing constant flow direction regardless of drive shaft rotation.
- Split-Flow® models can supply independent flows from up to eight separate outlets.
- Used on lifting, skidding and jacking applications, oil field B.O.P systems, test stands, lubrication systems, and other demanding industrial, mobile, and marine applications.

DYNEX PF4000 SERIES FIXED DISPLACEMENT CHECKBALL PUMPS

7.7 to 14.0 gpm (29,1 to 53,0 L/min) at 1800 rpm

Rated: 6 000 psi (420 bar), Maximum: 10 000 psi (700 bar)



- Contamination tolerant, for operation in dirty environments.
- A wide range of fluid compatibility, for reliable operation with low lubricity, low viscosity fluids.
- Bi-directional rotation providing constant flow direction regardless of drive shaft rotation.
- Split-Flow® models can supply independent flows from up to ten separate outlets.
- Used on tunneling machines, high-force pipe jacking, lifting, skidding and jacking applications, test stands, other demanding industrial, mobile, and marine applications.

DYNEX PF4200 SERIES FIXED DISPLACEMENT CHECKBALL PUMPS

2.2 to 6.7 gpm (8,3 to 25,4 L/min) at 1800 rpm

Rated: 8 000 psi (560 bar), Maximum: 20 000 psi (1380 bar)



- A wide range of fluid compatibility, for reliable operation with low lubricity, low viscosity fluids.
- Bi-directional rotation providing constant flow direction regardless of drive shaft rotation.
- Used on hydrostatic roll balance and high-pressure lubrication systems, test stands, Skydrol and other phosphate ester fluid applications, and other demanding industrial, mobile, and marine applications.

DYNEX PF4300 SERIES FIXED DISPLACEMENT CHECKBALL PUMPS FOR WATER-BASED FLUIDS

2.2 to 8.2 gpm (8,3 to 31,0 L/min) at 1800 rpm

Maximum: 15 000 psi (1040 bar)



- Corrosion resistant stainless steel design.
- A wide range of fluid compatibility, for reliable operation with low lubricity, low viscosity fluids.
- Bi-directional rotation providing constant flow direction regardless of drive shaft rotation.
- Single-fluid design eliminates the need for a lubrication circuit.
- These water-glycol pumps are used on wellhead control systems, subsea applications, test stands, aerospace ground support equipment, and other systems requiring waterbased or fire-resistant fluids.



DYNEX PF6000 SERIES FIXED DISPLACEMENT CHECKBALL PUMPS

12.7 to 54 gpm (48,0 to 204,4 L/min) at 1800 rpm

Rated: 5 500 psi (380 bar) – 15 000 psi (1040 bar)

Max: 5 500 psi (1380 bar) – 15 000 psi (1040 bar)

- Contamination tolerant, for operation in dirty environments.
- Bi-directional rotation providing constant flow direction regardless of drive shaft rotation.
- Split-Flow® models can supply independent flows from up to ten separate outlets.
- Used on mining equipment, rotary drill rigs, high-pressure hydraulic press applications, and other demanding industrial, mobile, and marine applications.



DYNEX PV4000 SERIES PRESSURE COMPENSATED CHECKBALL PUMPS

7.3 to 13.7 gpm (27,6 to 51,9 L/min) at 1800 rpm

Rated: 6 000 psi (420 bar), Maximum: 10 000 psi (700 bar)

- Integral pressure compensation for energy efficient performance.
- Contamination tolerant, for operation in dirty environments.
- A wide range of fluid compatibility, for reliable operation with low lubricity, low viscosity fluids.
- Used on mining equipment, rotary drill rigs, tunneling machines and high-force pipe jacking, test stands, Skydrol and other phosphate ester fluid applications, and other demanding industrial, mobile, and marine applications.



DYNEX PV6000 SERIES PRESSURE COMPENSATED CHECKBALL PUMPS

30.9 to 47,8 gpm (117,0 to 180,9 L/min) at 1800 rpm

Rated: 6 000 psi (420 bar), Maximum: 8 500 psi (590 bar)

- High flow, high pressure.
- Integral pressure compensation for energy efficient performance.
- Contamination tolerant, for operation in dirty environments.
- A wide range of fluid compatibility, for reliable operation with low lubricity, low viscosity fluids.
- Used on mining equipment, rotary drill rigs, test stands, Skydrol and other phosphate ester fluid applications, and other demanding industrial, mobile, and marine applications.



DYNEX PV6000 SERIES VARIABLE DISPLACEMENT CHECKBALL PUMPS

35.1 to 54.0 gpm (132,9 to 203,7 L/min) at 1800 rpm

Rated: 5 500 psi (380 bar), Maximum: 6 000 psi (420 bar)

- Hydraulically controlled variable delivery.
- Contamination tolerant, for operation in dirty environments.
- Bi-directional rotation providing constant flow direction regardless of drive shaft rotation.
- A wide range of fluid compatibility, for reliable operation with low lubricity, low viscosity fluids.
- Split-Flow® models models can supply two independent flows (from five pistons each). These pumps can supply two variable flows, or one fixed and one variable flow.
- Used on mining equipment, rotary drill rigs, test stands, Skydrol and other phosphate ester fluid applications, and other demanding industrial, mobile, and marine applications.



DYNEX MF5000 SERIES VALVEPLATE MOTORS

Pressures to 8000 psi (560 bar). Torque to 4775 lb·in at 5000 psi (540 N·m at 350 bar).

- Rugged, heavy-duty design.
- Ideal for applications subject to pressure spikes, vibration, constant starting/stopping, and sudden direction reversals.
- Used on mining equipment, and rotary drill rigs.



DYNEX D03 PATTERN DIRECTIONAL CONTROL VALVES

Nominal Flow: 8 gpm (30 L/min), Max Flow: 15 gpm (57 L/min)
Rated Pressure: 5 000 psi (350 bar)

- Actuator Options include: Manual Lever; Direct Solenoid; Hydraulic Piloted; Air Piloted.
- Exceptionally low pressure drop.
- Full range of Spool types, Actuators, Electrical connections, and Solenoid options.
- Used on machine tools, presses, test stands, torque tools, other demanding industrial, mobile, and marine applications.



DYNEX HP03 (*Special High Pressure Pattern*) DIRECTIONAL CONTROL VALVES

Nominal Flow: 5 gpm (19 L/min), Max Flow: 15 gpm (57 L/min)
Rated Pressure: 10 000 psi (700 bar)

- Actuator Options include: Manual Lever; Direct Solenoid; Hydraulic Piloted; Air Piloted.
- Special mounting pattern required.
- Full range of Spool types, Actuators, Electrical connections, and Solenoid options.
- Used on machine tools, presses, test stands, torque tools, and other demanding industrial, mobile, and marine applications.



DYNEX VST SEATED VALVES - (*Special HP03 Pattern*) DIRECTIONAL CONTROL VALVES

Two position, two-way valves – rated for: 5 gpm at 10 000 psi (19 L/min at 700 bar), for low-flow venting functions.

Two position, three-way valves – rated for: 5 gpm at 10 000 psi (19 L/min at 700 bar), for load holding functions.

Vent valves – rated for: 1 gpm at 15 000 psi (3,8 L/min at 1040 bar) .

- Non-silting ball-on-seat design.
- Used on high pressure test stands, and presses.

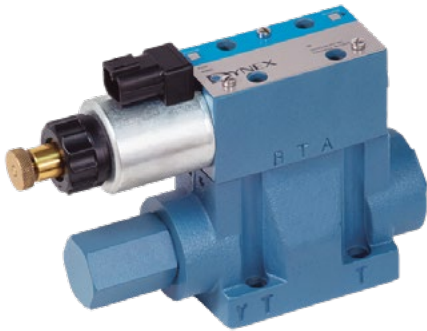


DYNEX D05 - N.F.P.A. D05/ISO 05 PATTERN DIRECTIONAL CONTROL VALVES

Nominal Flow: 20 gpm (76 L/min), Max Flow: 40 gpm (152 L/min)

Rated Pressure: 5 000 psi (350 bar)

- Actuator Options include: Manual Lever; Direct Solenoid; Hydraulic Piloted; Air Piloted.
- Exceptionally low pressure drop.
- Full range of Spool types, Actuators, Electrical connections, and Solenoid options.
- Used on machine tools, presses, test stands, torque tools, and other demanding industrial, mobile, and marine applications.

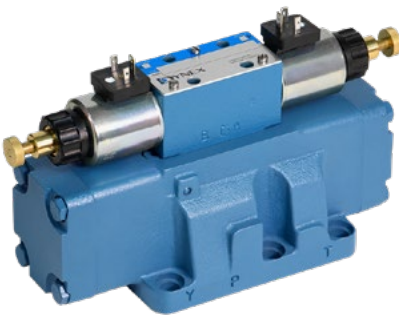


DYNEX D05H - N.F.P.A. D05/ISO 05 PATTERN (With "X" and "Y" ports for external pilot and drain) DIRECTIONAL CONTROL VALVES

Nominal Flow: 30 gpm (114 L/min), Max Flow: 40 gpm (151 L/min)

Rated Pressure: 5 000 psi (350 bar)

- Actuator Options include: Solenoid Pilot; Hydraulic Piloted; Air Piloted.
- Special mounting pattern required.
- Full range of Spool types, Actuators, Electrical connections, and Solenoid options.
- Used on machine tools, presses, test stands, torque tools, other demanding industrial, mobile, and marine applications.



DYNEX D08 - N.F.P.A. D08/ISO 08 PATTERN DIRECTIONAL CONTROL VALVES

Nominal Flow: 40 gpm (151 L/min), Max Flow: 90 gpm (341 L/min)

Rated Pressure: 5 000 psi (700 bar)

- Actuator Options include: Manual Lever; Solenoid Piloted; Hydraulic Piloted; Air Piloted.
- Full range of Spool types, Actuators, Electrical connections, and Solenoid options.
- Used on machine tools, presses, test stands, torque tools, other demanding industrial, mobile, and marine applications.



DYNEX D08H - N.F.P.A. D08/ISO 08 PATTERN DIRECTIONAL CONTROL VALVES

Nominal Flow: 20 gpm (76 L/min), Max Flow: 40 gpm (152 L/min)

Rated Pressure: 5 000 psi (350 bar)

- Actuator Options include: Manual Lever; Direct Solenoid; Hydraulic Piloted; Air Piloted.
- Exceptionally low pressure drop.
- Wide range of Spool types, Electrical connections, and Solenoid options.
- Used on machine tools, presses, test stands, torque tools, and other demanding industrial, mobile, and marine applications.



DYNEX VH HIGH-PRESSURE CONTROL VALVES

Max Pressure: 15 000 psi (1040 bar)

Max Flow 30 gpm (114 L/min)

- Available as a Relief, Unloading, or Decompression Valve.
- Suitable for use with some water-based, fire-resistant, and other special fluids including water glycol, various military fluids, and Skydrol and other phosphate ester fluids.
- Line connected or Subplate mounted.
- Electric Vent Option.
- Used on high pressure test stands, presses.



DYNEX VHR ELECTROHYDRAULIC PROPORTIONAL RELIEF VALVES

Max Pressure: 15 000 psi (1040 bar)

Max Flow 30 gpm (114 L/min)

- Suitable for use with some water-based, fire-resistant, and other special fluids including water glycol, various military fluids, and Skydrol and other phosphate ester fluids.
- Proportional Solenoid available: 10 VDC, 24 VDC
- Used on high pressure test stands, presses.



DYNEX H8819 HIGH-PRESSURE/HIGH-FLOW RELIEF VALVES

Rated to 50 gpm at 15 000 psi (190 L/min at 1040 bar), or

Rated to 75 gpm at 9000 psi (284 L/min at 620 bar).

- Available in Manual or Electrohydraulic Proportional Control.
- Electric Vent Option.
- Compatible with conventional fluids and special fluids, including or with low viscosity, military fluids, and Skydrol and other phosphate ester fluids.
- Used on high pressure test stands, aerospace ground support equipment, and other applications requiring special fluids.



DYNEX 8820 SERIES PANEL MOUNTED PRESSURE CONTROL VALVES

Rated Pressure: 5 000 psi (350 bar)

Size 01:

Nominal Flow 0.75 gpm (2,8 L/min), Max Flow 1.0 gpm (3,8 L/min)

Size 02:

Nominal Flow 1.5 gpm (5,7 L/min), Max Flow 2.5 gpm (9,5 L/min)

- Handwheel or Cam Operator Option.
- Used on hydraulic power units and other demanding industrial, mobile, and marine applications.



DYNEX 8800 SPOOL PRESSURE CONTROL VALVES

Max Pressure: 5 000 psi (350 bar)

Size: 03: Max Flow 20 gpm (76 L/min)

06: Max Flow 60 gpm (227 L/min)

10: Max Flow 150 gpm (568 L/min)

- Available as Relief; Reducing; Unloading; Counterbalance; Sequence functions .
- Line Connected or Subplate Mounted.
- Electric Vent Option (Size 10 only).
- Bypass Check available on some models.
- Used on machine tools and other demanding industrial, mobile, and marine applications.



DYNEX 8800 POPPET STYLE PRESSURE CONTROL VALVES

Max Pressure: 5 000 psi (350 bar)

Size: 03: Max Flow 25 gpm (95 L/min)

06: Max Flow 60 gpm (227 L/min)

- Available as Relief; Unloading functions.
- Line Connected or Subplate Mounted.
- Electric Vent Option.
- Used on machine tools and other demanding industrial, mobile, and marine applications.



VSW-HP03 PATTERN SANDWICH VALVES

Max Pressure: 10 000 psi (700 bar)

Max Flow 10 gpm (38 L/min)

- Perfect for use with Dynex high pressure HP03 Directional Control Valves.
- Available in Check & Relief.
- Suitable for use with some water-based, fire-resistant, and other special fluids including water glycol, various military fluids, and Skydrol and other phosphate ester fluids.
- Used on machine tools and other demanding industrial, mobile, and marine applications.



SPRV SUBPLATES WITH INTEGRAL RELIEF

DO3: Max Flow: 15 gpm (57 L/min), Rated Pressure: 5 000 psi (345 bar)

HP03: Max Flow: 15 gpm (57 L/min), Rated Pressure: 10 000 psi (700 bar)

DO5: Max Flow: 20 gpm (76 L/min), Rated Pressure: 5 000 psi (345 bar)

DO5H: Max Flow: 40 gpm (151 L/min), Rated Pressure: 5 000 psi (345 bar)

DO8: Max Flow: 90 gpm (345 L/min), Rated Pressure: 5 000 psi (345 bar)

- Perfect for use with our high pressure Directional Control Valves.
- Available for DO3; HP03; DO5; DO5H; DO8 mounting patterns.
- Used on machine tools and other demanding industrial, mobile, and marine applications.

Power Units



QUICKPACK SERIES HYDRAULIC POWER PACKS

These units provide a compact package with a small footprint. QuickPacks are typically available to ship in 5 to 10 days. Adding a motor starter or VFD will increase lead time.

QuickPack 5 Specifications:

Reservoir Capacity: 5 gallons (25,6 liters)

Power Source: Electric (Single- or 3-phase)

Max Pressure: Up to 5000 psi (350 bar) or 10000 psi (700 bar)

Flow Range: 0.21 to 0.68 gpm (0,79 to 2,57 L/min) at 1800 rpm



QuickPack 25 Specifications:

Reservoir Capacity: 25 gallons (94,6 liters)

Power Source: Electric (3-phase)

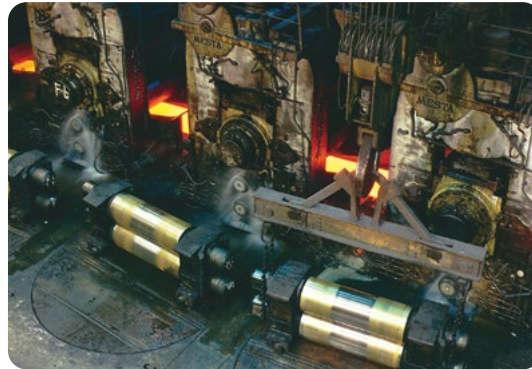
Max Pressure: Up to 5000 psi (350 bar) or 10000 psi (700 bar)

Flow Range: 1.5 to 5.9 gpm (5,7 to 22,3 L/min) at 1800 rpm

Components for Long Life in Tough Applications



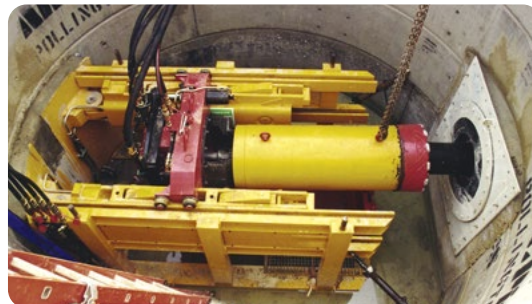
High-pressure torque tools with checkball pumps provide long life, higher speed, and increased power.



In steel mills, pumps withstand severe heat and dirty conditions supplying bearing lubrication systems.



Water glycol pumps operate reliably with low maintenance on wellhead control systems.



Pumps operate at pressures to 10 000 psi (700 bar) in harsh, dirty conditions on pipe jacking systems.



High-pressure pumps perform exceptionally with a wide range of fluids in harsh test stand applications.



One Split-Flow[®] pump can supply multiple jacks for accurate synchronized lifting without flow dividers.

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