2018 Hydraulic Preferred Products Catalog

- Industrial Hydraulics
- Mobile Hydraulics
- Winches & Gear Drives
- Hose & Fittings
- Lubrication
- Controls
- Power Units
- Accessories

External Gear Pump, 14.3cc Displacement, Thread (UN-28) SAE 0-Rmg BOSS

Bosch Rexroth (BRH)

AHC1604013

3 -- Bristol, PA -- Storeroom

Quantity: 1 / EA

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  - Purchase history and invoices
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  - Quotes and shopping lists
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**NOTE:** Each manufacturer part number in this catalog designated in red has been linked to its item detail page on our website. There you can find more information and can purchase the item online.

*Thank you to our suppliers who have contributed images and information toward the production of this catalog.*
We’re here to help you.

In addition to our distribution and engineered systems capabilities, we offer hydraulic sub-assemblies, hose assemblies, lubrication systems, machine safeguarding, energy optimization solutions, preventative maintenance, installation, field service and repair. For your convenience, we also provide:

- **Same Day Shipping** on in-stock orders placed before 3:30 p.m. EST.
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  - **J.I.T. (Just-In-Time) Inventory Services:** Ensures the products you need are available when you need them.
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- **E.F.T. Electronic Funds Transfer:** Provides for electronic payments and collections. EFT is safe, secure, efficient and cost-effective.
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In addition to the products shown on the following pages, Airline is your source for all of the components listed below. Please note that certain product lines may not be available in all areas.

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**HOSE & FITTINGS** - Hose, Fittings & Equipment; Plastic Hose, Tubing & Fittings; Brass, Stainless Steel & Composite Fittings; Industrial Hose; Quick Couplings; Tube Fittings
Parker • Adaptall • Alkon • Anchor • Apollo • Aventics • Camozzi • Clippard • Dixon • DMIC • Dynamic • Hannay Reels • HYDAC LDI Industries • LinkTech • New Age Industries • Noshok • Rectus (Parker) • SMC • STC • Super Swivels • Snap-Tite (Parker) • Twintec

**LUBRICATION** - Industrial Pumping Equipment; Automatic Lubrication Systems; General Lubrication Equipment; Lubrication Equipment Accessories
Bijur Delimon • Lincoln • SKF

**WINCHES & GEAR DRIVES** - Winches; Gear Drives; Parts
Braden • Pullmaster • Ingersoll Rand • Air Starter Components • Bezares • Bosch Rexroth • DP Winch • Durst • Eskridge Gearnatic • Gear Products HECO • Lantec • Paccar • TWG • Tulsa Winch

**PNEUMATIC COMPONENTS** - Actuators & Air Cylinders; Valves, Manifolds & Fieldbus; Air Prep Equipment; Connectors & Tubing; Electro-Pneumatic Products; Vacuum Components; Air Dryers; Temperature Control; Air Motors, Compressors, Vacuum Pumps & Blowers; Marine & Mobile Pneumatic Engine Parts; Pneumatic Safety Products
SMC • Aventics (Rexroth) • Clippard • Camozzi • Nason • Cylinders & Valves • Hanna Cylinders • Twintec • KNF • Milwaukee Cylinder Motion Controls • Allenair • STC • Greenco/Duramaster • Parker (Origa) • HyperCyl • Adsens • Ross Controls • Parker (Skinner) Alkon • Lexair • LinkTech • Deltro • Vacuforce • Ingersoll Rand

**LIQUID & GAS PRESSURE PRODUCTS** - Air & Hydraulic-Driven Gas Boosters; Air-Driven Liquid Pumps; Air Pressure Amplifiers; Low, Medium & High Pressure Valves & Fittings; Pressure Systems; Accessories
Haskel • BuTech • SMC

**PROCESS CONTROL & COMPONENTS** - Electrical, Control & Sensing Products; Filtration; Industrial Hose; Pumps; Temp. Control; Valves
HYDAC • Omron • Opto 22 • Parker • Pepperl & Fuchs • Phoenix Contact • PSL • Rittal • SMC • Turck

**ALUMINUM STRUCTURAL FRAMING** - Strut; Connectors & Fasteners; Tubular Framing System; Panels & Mounting Accessories; Doors & Door Components; Floor-to-Frame Elements; Ergonomic Workstations for Lean Manufacturing; Machine Guarding Elements, Manual Conveyors and Flow Racks; Sliding & Linear Elements; Air Supply Elements; Tools & Accessories
Bosch Rexroth • GSM • Bucher

**AUTOMATION & CONTROL PRODUCTS** - Material Handling & Mechanical Products; Electric Drives/Motors & Motion Controls; Sensors & Vision; Operator Interface Terminals (OITs) & Human-Machine Interfaces (HMIs); Programmable Logic Controllers (PLCs); Distributed/Remote I/O; Code Readers & RFID Systems
Bosch Rexroth • Omron • Oriental Motor • Eaton • ABB • Applied Motion Products • Banner Engineering • Beijer • Bell Everman Bishop-Wisecarver • CalAmp • Carlo Gavazzi • CGI • Copley Controls • E-Drive • GAM • IDEC • Joyce Dayton • Maple Systems • MTS Murr • Opto 22 • Pepperl & Fuchs • Phoenix Contact • Pro-face • QC Industries • SMC • Turck • Unitronics • WEG • Wittenstein

**ELECTRICAL COMPONENTS** - Electrical Enclosures; Climate Control; Circuit Protective Devices; Contactors; Power Quality & Distribution; Connectivity & Wire Management; Power Supplies & Transformers; Relays & Programmable Relays; Overload Relays; Pilot Device & Indicators; Limit & Basic Switches; Motor Starters; Metering Devices; Temperature Controllers; Timers, Counters & Totalizers
Eaton • ABB • Acme Electric • Arrow Hart (Eaton) • B-Line (Eaton) • Banner • Bussmann (Eaton) • Crouse Hinds (Eaton) • Erica Hammond Manufacturing • Hammond Power Solutions • Icotek • Meltric • Mersen • Murr • Omni Cable • Omron • Opto 22 • Oriental Motor • Pepperl & Fuchs • Phoenix Contact • PSL • Rittal • Turck • WEG

**MACHINE SAFETY PRODUCTS & SERVICES** - Machine Risk Assessments & Safety Surveys; Machine Guarding & Perimeter Fencing; Safety Interlock Switches; Light Curtains, Beams & Scanners; Force-Guided Relays & Contactors; Safe Speed Monitors; Electrical Safety; Safety Limit Switches; Emergency Stop Buttons & Controls; Operator Control Devices; Safety Controllers, Relays & Modules; Safety Mats, Edges & Bumpers; Control Reliable Hydraulics & Pneumatics; Machine Safety Accessories
Airline’s Machine & Process Safety Assessment (MPSA) Group • Schmersal • Omron/STI • Jokab (ABB) • Banner • Bosch Rexroth • Eaton GSM • Phoenix Contact • Ross Controls
A10V(S)0 & (A)A10VSO (Series 31) Variable Displacement Pumps

Variable displacement axial piston pump (A)A10V(S)0 Series 31 in swashplate design is available for open circuit applications. It can be used in both mobile and industrial applications. Flow is proportional to the drive speed and the displacement. By adjusting the position of the swashplate, it is possible to steplessly vary the flow. Multiple forms of pressure, flow or electrohydraulic controls are available.

Features
- Sizes 10 to 140
- Axial piston swashplate design
- Open circuit
- Combination of pumps of up to the same size can be mounted to the through-drive (not with size 10)

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Commitment to Quality

Six of Airline’s facilities have achieved ISO 9001:2015 certification. In addition to our headquarters in Bensalem, PA, our other certified locations include Ocean View, NJ; Pittsburgh, PA; North Kingstown, RI; Owings Mills, MD; and Lancaster, NY. Our certification confirms our commitment to the consistent delivery of quality products and services.
A10V(S)O (Series 52) Variable Displacement Pumps

Variable displacement axial piston pump A10V(S)O Series 52 in swashplate design is available for hydrostatic drives in an open circuit. The flow is proportional to the drive speed and displacement of the pump. Flow can be steplessly varied by adjusting the swashplate angle. Long service life, low noise, and a favorable power-to-weight ratio make it ideal for mobile and industrial applications requiring a compact drive.

Features
- Sizes 10 to 85 cc
- Axial piston swashplate design
- Open circuit
- Combination of pumps of up to same size can be mounted to the thru-drive (not with size 10)

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A10V 60 SO97 ASSY

(A)A4VSO (Series 10 & 30) Variable Displacement Pumps

Variable displacement axial piston pump (A)A4VSO in swashplate design is available for open circuit applications. Sizes 40 & 71 are available in Series 10; sizes 125-250 are available in Series 30 and have the U99 universal through-drive with coverplate. The flow is proportional to the input drive speed and displacement. By adjusting the swashplate angle, it is possible to infinitely vary the output flow. This rugged, low-noise pump is generally used in industrial 24/7 applications. A version with special bearings (code “F”) for water-content fluids up to 5000 psi and 1800 rpm is also available.

Features
- Sizes 40 to 250 cc
- Axial piston swashplate design
- Open circuit
- Combination of pumps of up to same size can be mounted to the thru-drive

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A15VSO (Series 10) Variable Displacement Pumps

Variable displacement axial piston pump A15VSO Series 10 in swashplate design is for hydrostatic drives in an open circuit. The pump is typically used in stationary applications where efficiency and compact design are required. It can work either as self-priming or with a charge pump. Other notable features include low noise operation, fast control response, overcenter operation and universal through-drive with coverplate.

Features
- Sizes 110 to 280 cc
- Axial piston swashplate design
- Open circuit
- Typical used for stationary applications

---|---|---|---|---|---|---
R902536979 | AHC2089926 | Bosch Rexroth | A15VSO 145 DRS 0A0V/10ARVD4T11EU0000-0 | 8.85 | 68.9 @ 1800 | 5100
R902536791 | AHC2218139 | Bosch Rexroth | A15VSO 175 DR 50A0V/10ARVE4T21EU0000-0 | 10.68 | 83.22 @ 1800 | 5100
R902536795 | AHC2028818 | Bosch Rexroth | A15VSO 210 DRS 0A0V/10ARVE4T21EU0000-0 | 12.81 | 99.8 @ 1800 | 5100
R902497156 | AHC1856476 | Bosch Rexroth | A15VSO 280 DRS 0A0V/10ARVE4T31EU0000-0 | 17.09 | 133 @ 1800 | 5100
R902490422 | AHC2089924 | Bosch Rexroth | Remote control spool for A15 Pumps: A15V-DG | |

AA4VG (Series 32) Variable Displacement Pumps

Variable displacement axial piston pump AA4VG Series 32 in swashplate design is for hydrostatic closed circuit transmissions. The flow is proportional to drive speed and displacement which is infinitely variable depending on the swashplate angle. The pump is equipped with two pressure relief valves on the high pressure ports to protect the transmission from overload.

Features
- Sizes 56 to 125 cc
- Axial piston swashplate design
- Closed circuit
- Integrated boost pump acts as feed and oil control pump

---|---|---|---|---|---|---
R902232805 | AHC2160056 | Bosch Rexroth | AA4VG 56 EP4 D1 /32R-N5C52F005DP | 3.42 | 26.6 @ 1800 | 5800
R902232816 | AHC2160055 | Bosch Rexroth | AA4VG 71 EP4 D1 /32R-N5F52F001DP | 4.33 | 33.7 @ 1800 | 5800
R902232824 | AHC2218141 | Bosch Rexroth | AA4VG 90 EP4 D1 /32R-N5F52F001DP | 5.49 | 42.7 @ 1800 | 5800
R902232830 | AHC2211933 | Bosch Rexroth | AA4VG 125 EP4 D1 /32R-N5F52F001DP | 7.63 | 59.4 @ 1800 | 5800
AZPF and AZPN Series External Gear Pumps

Bosch Rexroth has been involved with the design, development and manufacture of gear pumps for many decades. Well-proven designs, the use of specially developed materials, constant testing and sophisticated mass production techniques ensure products of the very highest quality.

**Features**
- AZPF – sizes 4 to 28 cc; AZPN – sizes 20 to 36 cc
- Plain bearings for high loads
- Drive shafts according to ISO or SAE and customer-specific standards
- Combination of several pumps possible
- Line connections: connecting flanges or female threads

*Note: All pumps have SAE A 2-bolt mount and 5/8” diameter keyed shaft unless specified.*

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Helpful pump formulas:

GPM x 231 = in³ per minute
CIR (or C/D) x RPM = in³ per minute

\[
\text{In}^3 \text{ per minute} = \frac{\text{GPM x PSI}}{231}
\]

Input HP = \frac{\text{GPM x PSI}}{1714}

\[
\text{Theoretical Flow} = \frac{\text{RPM x CIR}}{231}
\]

\[
\text{Volumetric Efficiency} = \frac{\text{Actual GPM x 100}}{\text{Theoretical Flow}}
\]

\[
\text{Overall Efficiency} = \frac{\text{Output HP x 100}}{\text{Input HP}}
\]

(Alternate) \text{Overall Efficiency} = \text{Mechanical Efficiency} \times \text{Volumetric Efficiency}
PV Series Fixed Displacement Vane Pumps

Rexroth PVV pumps are a fixed displacement vane pump based on the cartridge principle. PVV pumps can be used in a wide spectrum of applications, from low pressure filter/cooler loops to higher pressure systems such as presses and injection molding machines.

Features
- Hydraulically balanced design provides long bearing life
- Cartridge replacement simplifies service and repair
- Cartridges are interchangeable with competitive designs
- Displacement changes can be easily performed by swapping cartridges
- Rotational flexibility of port locations optimizes customer interface
- PVV pumps can be coupled to other Rexroth vane, piston and gear products

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Bosch Rexroth GoTo App

GoTo Products at Your Fingertips

Bosch Rexroth’s GoTo app makes browsing products from the GoTo Delivery Program as portable as your smartphone. The GoTo Focused Delivery Program streamlines everything to make it easier for you to get a selection of Rexroth’s most popular products faster. The GoTo app allows you to search thousands of products and take advantage of features such as:

- Build product lists and email them
- Get technical details
- View product videos

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(A)2FM Series Fixed Displacement Motors

The A(A)2FM fixed motor with axial tapered piston rotary group of bent axis design is available for hydrostatic drives in open and closed circuits. For use in mobile and stationary application areas, the output speed is dependent on the flow of the pump and the displacement of the motor. The output torque increases with the pressure differential between the high and low pressure sides.

Features
- Series 6, sizes 16 to 180
- Fixed motor with axial tapered piston rotary group of bent axis design
- Open and closed circuits
- High power density and overall efficiency
- Compact design

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Helpful motor formulas:

- Torque = Radius x Load
- Circumference = 3.14 x Diameter
- Inch # = Foot #
- Inch # = Foot # x 12
- Theoretical Torque Inch # = CIR x Pressure Differential
- 6.28
- Speed = (336 x MPH) / Wheel Diameter (inch)
- Theoretical Speed = GPM x 231 / CIR
- Input HP = GPM x PSI / 1714
- Output HP = Torque Inch # x RPM / 63025
- Volumetric Efficiency = Actual Speed x 100 / Theoretical Speed
- Mechanical Efficiency = Actual Torque x 100 / Theoretical Torque
- Overall Efficiency = Output HP / Input HP

(Alternate) Overall Efficiency = Mechanical Efficiency x Volumetric Efficiency
AZMF Series External Gear Motors

Bosch Rexroth has been involved with the design, development and manufacture of gear motors for many decades. Well-proven designs, the use of specially developed materials, constant testing and sophisticated mass production techniques ensure products of the very highest quality.

Features

- Sizes 8 to 22 cc
- High pressures with small installation space and low weight
- Wide speed ranges
- Wide viscosity and temperature ranges
- Reversible motors for 2- and 4-quadrant operation
- Plain bearings for high loads
- Consistently high quality owing to large-scale production

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Rineer MV015 Series High Torque Vane Motors

Bosch Rexroth Rineer MV015 Series hydraulic vane motors provide high torque at start & stall, medium speed, and reliability in demanding applications. The patented Vane-Crossing-Vane design allows for high power-to-weight ratio, improved mechanical & volumetric efficiency. The rotating group is hydraulically balanced internally, resulting in no significant loads induced on the motor bearings which contribute to long service life.

**Features**
- Patented Vane-Crossing-Vane design
- High torque at start & stall
- Speed to 2000 rpm continuous & 2600 rpm intermittent
- Operating pressure to 3000 psi continuous
- Can conform to SAE C mounting specification
- High power-to-weight ratio
- Reliability in heavy duty & demanding applications

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Displacement (in³/rev)</th>
<th>Cont. Pressure (psi)</th>
<th>Intermittent Pressure (psi)</th>
<th>Torque @ 3000 psi (lb-ft)</th>
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Remember, hydraulic pumps and motors need filtration.

Rexroth’s mobile app Fit4Filter 3.1 makes ordering Rexroth filters faster and easier than ever

Fit4Filter v3.1 now includes an integrated QR code scanner to find the right Rexroth replacement filter elements faster than ever. It is now available in the Apple App Store and the Google Play™ Store.
Rineer MV037 Series High Torque Vane Motors

Bosch Rexroth Rineer MV037 Series Hydraulic Vane Motors provide high torque at start & stall, medium speed, and reliability in demanding applications. The patented Vane-Crossing-Vane design allows for high power-to-weight ratio, improved mechanical & volumetric efficiency. The rotating group is hydraulically balanced internally, resulting in no significant loads induced on the motor bearings which contribute to long service life.

Features

- Patented Vane-Crossing-Vane design
- High torque at start & stall
- Speed to 1000 rpm continuous & 1200 rpm intermittent
- Operating pressure to 5000 psi continuous
- Can conform to SAE D mounting specification
- High power-to-weight ratio
- Reliability in heavy duty & demanding applications

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<th>Mfr.</th>
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- In-house hard chrome plating, grinding and honing
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WE Series Directional Spool Valves

Directional valves type WE are solenoid operated directional spool valves. They control the start, stop, and direction of a flow. These directional valves basically consist of housing; one or two solenoids; control spool; and no, one, or two return springs. A full array of spools are possible with variations in voltage and electrical connection, all within the program. Flow and pressure rates from 4000 psi to 5000 psi and 21 gpm to 32 gpm cover a wide range of applications.

Features
- Sizes 6 to 10
- Wet-pin AC or DC solenoids
- Solenoids with detachable coil
- Electrical connection as individual or central connection
- Optional spool position monitoring (RE24830)
- Smooth switching characteristics
- CSA certified part numbers available in all sizes
- 4WE6 bolts required: (4) 10-24 X 2.00” UNC Socket Head Cap Screws
- 4WE10 bolts required: (4) 1/4-20 X 1.50” UNC Socket Head Cap Screws

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<tr>
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<tr>
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<tr>
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<td>1438001</td>
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<td>PHOENIX DOUBLE DIN CABLE, BLACK, PUR, 5 METERS WITH LED AND SURGE, 110V</td>
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</tbody>
</table>
4WEH Series Directional Spool Valves

Directional valves type WEH are solenoid operated directional spool valves. They control the start, stop, and direction of a flow. These pilot operated directional valves consist of a pilot control valve and main stage with spring or hydraulic centering options. Additionally, the pilot and drain configuration may be selected. A full array of spools are possible with variations in voltage and electrical connection, all within the program. Flow and pressure rates from 4000 psi to 5000 psi and 42 gpm to 120 gpm cover a wide range of applications.

Features
- Sizes 10 to 22
- Porting pattern according to DIN 24340 Form A and ISO 4401-5, 7, 8; NFPA T3.5.1M R1, and ANSI B93.7 D 05, D 07, D 08
- Wet-pin AC or DC solenoids
- Spring and/or pressure return of the main spool to its initial position
- Spring centering (size 10, 16 & 22)
- Spring or pressure centering (sizes 16 & 22)
- Electrical connection as individual connection or central connection
- Optional switching time adjustment
- Stroke limitation of the main spool, optional
- CSA certified part numbers available in all sizes
- Bolts required: (6) 1/2”-13 X 2.50” UNC Socket Head Cap Screws

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Size</th>
<th>Valve Configuration</th>
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<tbody>
<tr>
<td>R900937356</td>
<td>AHC1385612</td>
<td>Bosch Rexroth</td>
<td>4WEH22D7X/8EG24N9ETK4/B10</td>
<td>N625</td>
<td>D</td>
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<tr>
<td>R900973561</td>
<td>AHC1388190</td>
<td>Bosch Rexroth</td>
<td>4WEH22D7X/8EW110N9ETK4/B10</td>
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<tr>
<td>R900932659</td>
<td>AHC1863229</td>
<td>Bosch Rexroth</td>
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<td>R901211089</td>
<td>AHC1394154</td>
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<tr>
<td>R900939186</td>
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<td>Bosch Rexroth</td>
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<tr>
<td>R900306349</td>
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<td>Bosch Rexroth</td>
<td>SEAL KIT WH 22.6X/7X/ BUNA</td>
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<tr>
<td>R900309825</td>
<td>AHC1364359</td>
<td>Bosch Rexroth</td>
<td>BRH SEAL KIT WH 22.6X/7X/VITON</td>
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</table>
**4WREE Series Proportional Directional Valves**

WRE(E) direct operated proportional directional control with integral feedback are available with on-board electronics (OBE). Positive overlap spools reduce leakage at center, while underlap spools can be utilized for closed-loop functions. Individual amplifiers are available, while OBE models are possible with either a voltage or current command.

**Features**
- Sizes 6 to 10
- Control of the direction and magnitude of a flow
- Proportional solenoid operation
- Spring-centered control spool
- Different spool overlaps possible
- Integrated control electronics (OBE) for type 4WREE
- EE6 bolts required: (4) 10-24 X 2.00" UNC Socket Head Cap Screws
- 4WREE10 bolts required: (4) 1/4-20 X 1.50" UNC Socket Head Cap Screws

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Command</th>
<th>Max. Flow (lpm)</th>
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</thead>
<tbody>
<tr>
<td>R900938420</td>
<td>AHC1384560</td>
<td>Bosch Rexroth</td>
<td>4WREE 6 E04-2X/G24K31/A1V, D03 Proportional with Feedback</td>
<td>+/- 10V</td>
<td>3.98 @ 10 bar</td>
</tr>
<tr>
<td>R900912156</td>
<td>AHC1383458</td>
<td>Bosch Rexroth</td>
<td>4WREE 6E0682X/G24K31/A1V, D03 Proportional with Feedback</td>
<td>+/- 10V</td>
<td>7.98 @ 10 bar</td>
</tr>
<tr>
<td>R900920567</td>
<td>AHC1382063</td>
<td>Bosch Rexroth</td>
<td>4WREE 6E162X/G24K31/A1V, D03 Proportional with Feedback</td>
<td>+/- 10V</td>
<td>16.01 @ 10 bar</td>
</tr>
<tr>
<td>R900907114</td>
<td>AHC1382003</td>
<td>Bosch Rexroth</td>
<td>4WREE 6E322X/G24K31/A1V, D03 Proportional with Feedback</td>
<td>+/- 10V</td>
<td>31.96 @ 10 bar</td>
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<tr>
<td>R900927231</td>
<td>AHC1384728</td>
<td>Bosch Rexroth</td>
<td>4WREE 6E502X/G24K31/A1V, D05 Proportional with Feedback</td>
<td>+/- 10V</td>
<td>49.96 @ 10 bar</td>
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<tr>
<td>R900927230</td>
<td>AHC1384726</td>
<td>Bosch Rexroth</td>
<td>4WREE 6E752X/G24K31/A1V, D05 Proportional with Feedback</td>
<td>+/- 10V</td>
<td>74.95 @ 10 bar</td>
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<tr>
<td>R900021267</td>
<td>AHC1359701</td>
<td>Bosch Rexroth</td>
<td>Z31 CONNECTOR</td>
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</tr>
<tr>
<td>R91420483</td>
<td>AHC2216682</td>
<td>Bosch Rexroth</td>
<td>Cable Set 7P Z31 BFE +3M CABLE</td>
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<tr>
<td>R91420491</td>
<td>AHC2216681</td>
<td>Bosch Rexroth</td>
<td>Cable Set 7P Z31 BFE +5M CABLE</td>
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<tr>
<td>R91420496</td>
<td>AHC2216683</td>
<td>Bosch Rexroth</td>
<td>Cable Set 7P Z31 BFE +10M CABLE</td>
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**Hydraulic Machine Safety Solutions**

*Monitored Block & Vent Assembly*

These assemblies are intended to block the supply of hydraulic fluid to downstream machinery and vent any trapped pressure back to tank, leaving machinery in a zero-energy state, allowing for safe shutdown.

Ask how we can help you attain the desired performance & safety level of your equipment.
DBETA/DBETE Series Proportional Pressure Relief Valves, Direct Operated

DBETA/DBETE proportional pressure relief valves for piloting applications. Pressure is limited by changing current or voltage to the proportional solenoid from an external amplifier or internal electronics (DBETE). DBETA with on-board electronics is a closed loop pressure design for outstanding linearity and accuracy, even while fluid viscosity and flows change.

Features
- Sizes 6
- Directly operated valves for limiting a system pressure
- Proportional solenoid operation
- Proportional solenoid with central thread and detachable coil
- Integrated electronics (OBE) with type DBETE
- DBETA with integrated pressure sensor, controller, and amplifier.
- Bolts required: 4x ISO 4762 - M5 x 45 - 10.9 hexagon socket head cap screws

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Max. Set Pressure</th>
<th>Max. Flow (ppm)</th>
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<tbody>
<tr>
<td>R901338404</td>
<td>AHC2224034</td>
<td>Bosch Rexroth</td>
<td>DBETA-6X/P200G24K31A1V, Type DBETA with Integrated Electronics, 0-10 V</td>
<td>2900 psi</td>
<td>3.02 @ 10 bar</td>
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<tr>
<td>R901352135</td>
<td>AHC2079836</td>
<td>Bosch Rexroth</td>
<td>DBETA-6X/P350G24K31A1V, Type DBETA with Integrated Electronics, 0-10 V</td>
<td>5100 psi</td>
<td>3.02 @ 10 bar</td>
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<tr>
<td>R901029968</td>
<td>AHC1389937</td>
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<td>DBETE-6X/200G24K31A1V, Type DBETE, 0-10 V</td>
<td>2900 psi</td>
<td>3.02 @ 10 bar</td>
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<td>AHC1389938</td>
<td>Bosch Rexroth</td>
<td>DBETE-6X/315G24K31A1V, Type DBETE, 0-10 V</td>
<td>4600 psi</td>
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<td>Bosch Rexroth</td>
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<td>5100 psi</td>
<td>3.02 @ 10 bar</td>
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<td>AHC1339501</td>
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<td>AHC2216882</td>
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<td>AHC2216881</td>
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<td>Bosch Rexroth</td>
<td>Cable Set 7P 231 BF6 +10M CABLE</td>
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Bosch Rexroth’s Sytronix SvP - Variable-Speed Pump Drive

Sytronix SvP offers the highest performance for dynamics and control accuracy.

The SvP (servo-variable pump drive) system consists of a pump that is optimized for variable-speed applications, a synchronous servo motor as well as the corresponding servo controller and accessories. The system is suitable for use in open but also closed hydraulic systems. This way, the widest spectrum of control and power functionality is possible, including pressure and force control, volume flow and speed control, and positioning and alternating control.
4WRLE Series High-Response Directional Valves

Pilot operated proportional directional valve type 4WRLE offers integral position greater feedback on both pilot and mainstage for dynamic response plus greater accuracy. On-board electronics (OBE) and 7-pin connectors permit power and command all to be accomplished on the valve. Overlapped main spools and high-performance pilot permit application into various circuits including those requiring closed-loop control of pressure, force, or velocity.

Features
- Sizes 10, 16, and 25
- Porting pattern according to ISO 4401-5, 7, 8; NFPA T3.5.1M R1; and ANSI B93.7 D 05, D 07, D 08
- Control of the direction and magnitude of a flow
- Use for force control, position control, velocity control and pressure control purposes
- Pilot control valve and main stage are position-controlled
- Characteristic curves with and without inflection
- Integral electronics (OBE) for type 4WRLE

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<td>0811404713</td>
<td>AHC1350942</td>
<td>Bosch Rexroth</td>
<td>4WRLE 10 E80SJ-3X/G24ETK0/A1M, D05 Proportional with Feedback</td>
<td>+/- 10V</td>
<td>79.49 @ 10 bar</td>
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<tr>
<td>0811404707</td>
<td>AHC1858853</td>
<td>Bosch Rexroth</td>
<td>4WRLE 10 W80SJ-3X/G24ETK0/A1M, D05 Proportional with Feedback</td>
<td>+/- 10V</td>
<td>79.49 @ 10 bar</td>
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<tr>
<td>0811404319</td>
<td>AHC1349824</td>
<td>Bosch Rexroth</td>
<td>4WRLE 16 EZ180SJ-3X/G24ETK0/A1M, D07 Proportional with Feedback</td>
<td>+/- 10V</td>
<td>16.01 @ 10 bar</td>
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<tr>
<td>0811404307</td>
<td>AHC1349833</td>
<td>Bosch Rexroth</td>
<td>4WRLE 16 WZ180SJ-3X/G24K0/A1M, D07 Proportional with Feedback</td>
<td>+/- 10V</td>
<td>31.98 @ 10 bar</td>
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<tr>
<td>0811404454</td>
<td>AHC1350165</td>
<td>Bosch Rexroth</td>
<td>4WRLE 25 EZ350SJ-3X/G24K0/A1M, D05 Proportional with Feedback</td>
<td>+/- 10V</td>
<td>49.96 @ 10 bar</td>
</tr>
<tr>
<td>0811404456</td>
<td>AHC1350168</td>
<td>Bosch Rexroth</td>
<td>4WRLE 25 WZ350SJ-3X/G24K0/A1M, D05 Proportional with Feedback</td>
<td>+/- 10V</td>
<td>74.95 @ 10 bar</td>
</tr>
<tr>
<td>R900021267</td>
<td>AHC1359701</td>
<td>Bosch Rexroth</td>
<td>Z31 Connector</td>
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Proportional Valve Cable Assembly

<table>
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<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Cable Length</th>
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<tbody>
<tr>
<td>R901420483</td>
<td>AHC2216862</td>
<td>Bosch Rexroth</td>
<td>BRH CABLE SET 7P Z31 BF6 +3M CABLE</td>
<td>3M</td>
</tr>
<tr>
<td>R901420491</td>
<td>AHC2216861</td>
<td>Bosch Rexroth</td>
<td>BRH CABLE SET 7P Z31 BF6 +5M CABLE</td>
<td>5M</td>
</tr>
<tr>
<td>R901420496</td>
<td>AHC2216863</td>
<td>Bosch Rexroth</td>
<td>BRH CABLE SET 7P Z31 BF6 +10M CABLE</td>
<td>10M</td>
</tr>
<tr>
<td>BOM SE00011E-40FT</td>
<td>AHC1909918</td>
<td>Bosch Rexroth</td>
<td>Proportional Valve Cable Assembly with 7-Pin REX-R900021267 Connector</td>
<td>40'</td>
</tr>
<tr>
<td>BOM SE00011E-50FT</td>
<td>AHC1900557</td>
<td>Bosch Rexroth</td>
<td>Proportional Valve Cable Assembly with 7-Pin REX-R900021267 Connector</td>
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<tr>
<td>BOM SE00011E-075FT</td>
<td>AHC1847776</td>
<td>Bosch Rexroth</td>
<td>Proportional Valve Cable Assembly with 7-Pin REX-R900021267 Connector</td>
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</table>
VT-HACD-3 Digital Closed Loop Control Electronics

The VT-HACD-3-2X closed-loop control electronics is a module that is installed on a top hat rail. A microcontroller controls the entire process, makes adjustments, establishes links and realizes the closed control loops. Data for configuration, command values and parameters are stored in a FLASH in a non-volatile form.

Features
- Closed-loop control with positioning, pressure control, force control and sequence parameterization
- Acceleration and velocity control
- Digital SSI or incremental position measuring system
- Active dampening
- Consistent 2ms scan time
- Configurable analog and discrete I/O
- PC software BODAC for configuration, parameterization and diagnostics
- Field bus systems: PROFIBUS DP or EtherNet IP

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Communication</th>
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<td>R901239533</td>
<td>AHC1393389</td>
<td>Bosch Rexroth</td>
<td>VT-HACD-3-2X/0-I-00/000</td>
<td>Analog</td>
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<td>AHC1393390</td>
<td>Bosch Rexroth</td>
<td>VT-HACD-3-2X/E-I-00/000</td>
<td>EtherNet IP</td>
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<tr>
<td>R901227616</td>
<td>AHC1393504</td>
<td>Bosch Rexroth</td>
<td>VT-HACD-3-2X/P-I-00/000</td>
<td>ProfibusDP</td>
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</tbody>
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Z1S & Z2S Sandwich Module Design Check Valves

Valve type Z1S is a direct operated check valve of sandwich plate design. It is used for leak-free checking in one direction and allows free flow in the opposite direction. The check function can be in one of several ports, or dual ports. The check function orientation can also be defined by model coding. Models Z2S are pilot operated check valves in a sandwich plate design. They provide line contact closure in one or two actuator ports, even during idle periods. Piloted to open, utilizing a pressure signal from the opposite actuator port provides a self-contained function.

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Max. Flow (gpm)</th>
<th>Stack Height</th>
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</thead>
<tbody>
<tr>
<td>R901086051</td>
<td>AHC1391776</td>
<td>Bosch Rexroth</td>
<td>Z1S 6 P05-4X/V, D03 P Port Check</td>
<td>10.6</td>
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<tr>
<td>R901274759</td>
<td>AHC1395554</td>
<td>Bosch Rexroth</td>
<td>Z1S 10 P05-1-4XF, D05 P Port Check</td>
<td>26.4</td>
<td>2.00&quot;</td>
</tr>
<tr>
<td>R900347504</td>
<td>AHC1366749</td>
<td>Bosch Rexroth</td>
<td>Z2S 6-1-6X/V, D03 Dual Pilot Check</td>
<td>15.8</td>
<td>1.57&quot;</td>
</tr>
<tr>
<td>R900407439</td>
<td>AHC1367131</td>
<td>Bosch Rexroth</td>
<td>Z2S 10-1-3X/V, D05 Dual Pilot Check</td>
<td>31.7</td>
<td>2.00&quot;</td>
</tr>
</tbody>
</table>
Z2FS Sandwich Module Double Throttle Check Valves

Flow control valves, Model Z2FS, are double throttle/check sandwich type valves. They restrict flow to or from actuator ports (A & B) of a directional valve. Two throttle/check valves, symmetrically arranged in the housing, restrict flow with adjustable throttles in one direction while providing free flow in the opposite direction.

Features
- For limiting the main or pilot flow of one or two actuators
- Meter-in or meter-out throttling
- Softscrew with locknut adjustment type
- Size 6: Porting pattern according to ISO 4401-3, NFPA T3.5.1M R1, and ANSI B93.7 D 03
- Size 10: Porting pattern according to ISO 4401-5, NFPA T3.5.1M R1, and ANSI B93.7 D 03

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Max. Flow (gpm)</th>
<th>Stack Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>R900481624</td>
<td>AHC1369235</td>
<td>Bosch Rexroth</td>
<td>Z2FS 6-2-4X/2QV, Flow/Throttle Valve</td>
<td>15.8</td>
<td>1.57&quot;</td>
</tr>
<tr>
<td>R900517812</td>
<td>AHC1371297</td>
<td>Bosch Rexroth</td>
<td>Z2FS 10-5-3XV, D05 Dual Flow Control - Meter In/Out</td>
<td>42.3</td>
<td>2.00&quot;</td>
</tr>
</tbody>
</table>

ZDR Sandwich Module Pressure Reducing Valves

Models ZDR are 3-way direct operated pressure reducing/relieving valves. They maintain a “reduced” pressure in a branch circuit and permit “relieving” pressure spike occurrences in the reduced branch circuit.

Options for pressure ranges and operator adjustment options are within the scope of the modular reducing valve portfolio.

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Max. Flow (gpm)</th>
<th>Stack Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>R900401216</td>
<td>AHC1366596</td>
<td>Bosch Rexroth</td>
<td>ZDR 6 DP2-4X/75YM/12, D03 P Port, Red, 0-1,000 psi</td>
<td>21.1</td>
<td>1.57&quot;</td>
</tr>
<tr>
<td>R900404754</td>
<td>AHC1366945</td>
<td>Bosch Rexroth</td>
<td>ZDR 6 DP2-4X/150YM/12, D03 P Port, Red, 0-2,000 psi</td>
<td>21.1</td>
<td>1.57&quot;</td>
</tr>
<tr>
<td>R900433350</td>
<td>AHC1369105</td>
<td>Bosch Rexroth</td>
<td>ZDR 6 DP2-4X/210YM/12, D03 P Port, Red, 0-3,000 psi</td>
<td>21.1</td>
<td>1.57&quot;</td>
</tr>
<tr>
<td>R900582564</td>
<td>AHC1373291</td>
<td>Bosch Rexroth</td>
<td>ZDR 10 DP2-5X/210YM/12, D05 P Port, Red, 0-3,000 psi</td>
<td>21.1</td>
<td>2.00&quot;</td>
</tr>
</tbody>
</table>
DB & DBW Series Pressure Relief Valves

Pressure control valves of type DB are pilot operated pressure relief valves. They are used for the limitation of the operating pressure. Pressure relief valves basically consist of a main valve with main spool insert and pilot valve with pressure adjustment element.

Features
- Sizes 10, 20, & 30
- For mounting: Porting pattern according to ISO 6264-AT-10-2-A

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Port Thread</th>
<th>Max. Pressure (psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>R900947400</td>
<td>AHC1387521</td>
<td>Bosch Rexroth</td>
<td>DB20G25X/200/12, Relief</td>
<td>SAE 16</td>
<td>2900</td>
</tr>
<tr>
<td>R978864137</td>
<td>AHC1558325</td>
<td>Bosch Rexroth</td>
<td>DB20G25X/315/12, Relief</td>
<td>SAE 16</td>
<td>4500</td>
</tr>
<tr>
<td>R900930932</td>
<td>AHC1384777</td>
<td>Bosch Rexroth</td>
<td>DB30G25X/200/12, Relief</td>
<td>SAE 24</td>
<td>2900</td>
</tr>
<tr>
<td>R90094379</td>
<td>AHC1383913</td>
<td>Bosch Rexroth</td>
<td>DB30G25X/315/12, Relief</td>
<td>SAE 24</td>
<td>4500</td>
</tr>
<tr>
<td>R978003836</td>
<td>AHC1412619</td>
<td>Bosch Rexroth</td>
<td>DBW15BG25X/10006W110N9K4/12, Solenoid Relief</td>
<td>SAE 12</td>
<td>1450</td>
</tr>
<tr>
<td>R978917231</td>
<td>AHC1900141</td>
<td>Bosch Rexroth</td>
<td>DBW15BG25X/3156W110N9K4/12, Solenoid Relief</td>
<td>SAE 12</td>
<td>4600</td>
</tr>
<tr>
<td>R978914408</td>
<td>AHC1900142</td>
<td>Bosch Rexroth</td>
<td>DBW20BG25X/10006W110N9K4/12, Solenoid Relief</td>
<td>SAE 16</td>
<td>1450</td>
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<tr>
<td>R978910199</td>
<td>AHC1575679</td>
<td>Bosch Rexroth</td>
<td>DBW20BG25X/20006W110N9K4/12, Solenoid Relief</td>
<td>SAE 16</td>
<td>2900</td>
</tr>
<tr>
<td>R978910752</td>
<td>AHC1900155</td>
<td>Bosch Rexroth</td>
<td>DBW30BG25X/10006W110N9K4/12, Solenoid Relief</td>
<td>SAE 24</td>
<td>1450</td>
</tr>
<tr>
<td>R978915746</td>
<td>AHC1900156</td>
<td>Bosch Rexroth</td>
<td>DBW30BG25X/20006W110N9K4/12, Solenoid Relief</td>
<td>SAE 24</td>
<td>2900</td>
</tr>
</tbody>
</table>

DBD Series Pressure Relief Valves

The DBD pressure relief valves are direct operated type relief valves. They are used to limit the pressure in a hydraulic system. DBD type relief valves offer line contact sealing for minimal leakage at closure and a full array of pressure capacities are available.

Features
- Sizes 6 to 20
- For threaded connection (“G”)
- As cartridge valve (“K”)
- Optional adjustment types: Screw with hexagon socket and protective cap
- Optional adjustment types: Rotary knob/hand wheel

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Port Thread</th>
<th>Max. Pressure (psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>R900347546</td>
<td>AHC1366896</td>
<td>Bosch Rexroth</td>
<td>DBDH6G1X/50/12, Relief</td>
<td>SAE 4</td>
<td>725</td>
</tr>
<tr>
<td>R900386796</td>
<td>AHC1388067</td>
<td>Bosch Rexroth</td>
<td>DBDH6G1X/100/12, Relief</td>
<td>SAE 4</td>
<td>1450</td>
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<tr>
<td>R900345310</td>
<td>AHC1366545</td>
<td>Bosch Rexroth</td>
<td>DBDH6G1X/200/12, Relief</td>
<td>SAE 4</td>
<td>2900</td>
</tr>
<tr>
<td>R900458278</td>
<td>AHC1369125</td>
<td>Bosch Rexroth</td>
<td>DBDH6G1X/315/12, Relief</td>
<td>SAE 4</td>
<td>4600</td>
</tr>
<tr>
<td>R900351411</td>
<td>AHC1900139</td>
<td>Bosch Rexroth</td>
<td>DBS10G1X/25/12, Relief</td>
<td>SAE 8</td>
<td>365</td>
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<tr>
<td>R900347687</td>
<td>AHC1834424</td>
<td>Bosch Rexroth</td>
<td>DBS10G1X/50/12, Relief</td>
<td>SAE 8</td>
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<tr>
<td>R900341383</td>
<td>AHC1366700</td>
<td>Bosch Rexroth</td>
<td>DBS10G1X/100/12, Relief</td>
<td>SAE 8</td>
<td>1450</td>
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<tr>
<td>R900341591</td>
<td>AHC1366703</td>
<td>Bosch Rexroth</td>
<td>DBS10G1X/200/12, Relief</td>
<td>SAE 8</td>
<td>2900</td>
</tr>
<tr>
<td>R900534613</td>
<td>AHC1371863</td>
<td>Bosch Rexroth</td>
<td>DBS15G1X/100/12, Relief</td>
<td>SAE 12</td>
<td>725</td>
</tr>
<tr>
<td>R900389921</td>
<td>AHC1900140</td>
<td>Bosch Rexroth</td>
<td>DBS15G1X/100/12, Relief</td>
<td>SAE 12</td>
<td>1450</td>
</tr>
<tr>
<td>R900375503</td>
<td>AHC1366383</td>
<td>Bosch Rexroth</td>
<td>DBS15G1X/200/12, Relief</td>
<td>SAE 12</td>
<td>2900</td>
</tr>
</tbody>
</table>
**RV Series Check Valves**

**Features**
- 5000 psi operating pressure
- 9 Sizes, 1/8” - 2”
- NPT or SAE O-ring connections and manifold mounting
- Flows to 150 gpm
- Carbon steel housing
- FPM (fluoroelastomer) O-rings (for RVP series)
- Metal to metal seal design for poppet
- Hardened and ground steel poppet
- 3 cracking pressures: 7 psi (standard), 25 psi and 65 psi (optional)
- Temperature range: -4° to 212°F at full pressure

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Port Thread</th>
<th>Spring Pressure (psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>705831</td>
<td>AHC88327</td>
<td>HYDAC</td>
<td>RV-08-01.X/12 Check Valve</td>
<td>SAE 4</td>
<td>7</td>
</tr>
<tr>
<td>705834</td>
<td>AHC88333</td>
<td>HYDAC</td>
<td>RV-10-01.X/12 Check Valve</td>
<td>SAE 6</td>
<td>7</td>
</tr>
<tr>
<td>705837</td>
<td>AHC88338</td>
<td>HYDAC</td>
<td>RV-12-01.X/12 Check Valve</td>
<td>SAE 8</td>
<td>7</td>
</tr>
<tr>
<td>705840</td>
<td>AHC88343</td>
<td>HYDAC</td>
<td>RV-16-01.X/12 Check Valve</td>
<td>SAE 12</td>
<td>7</td>
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<tr>
<td>705843</td>
<td>AHC88349</td>
<td>HYDAC</td>
<td>RV-20-01.X/12 Check Valve</td>
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<tr>
<td>705846</td>
<td>AHC88354</td>
<td>HYDAC</td>
<td>RV-25-01.X/12 Check Valve</td>
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<tr>
<td>2064132</td>
<td>AHC93417</td>
<td>HYDAC</td>
<td>RV-30-01.X/12 Check Valve</td>
<td>SAE 24</td>
<td>7</td>
</tr>
<tr>
<td>2055686</td>
<td>AHC91039</td>
<td>HYDAC</td>
<td>RV-40-01.X/12 Check Valve</td>
<td>SAE 32</td>
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<tr>
<td>705850</td>
<td>AHC88325</td>
<td>HYDAC</td>
<td>RV-08-01.X/5 Check Valve</td>
<td>1/4” NPT</td>
<td>7</td>
</tr>
<tr>
<td>705856</td>
<td>AHC88336</td>
<td>HYDAC</td>
<td>RV-12-01.X/5 Check Valve</td>
<td>1/2” NPT</td>
<td>7</td>
</tr>
<tr>
<td>705842</td>
<td>AHC88347</td>
<td>HYDAC</td>
<td>RV-20-01.X/5 Check Valve</td>
<td>1” NPT</td>
<td>7</td>
</tr>
</tbody>
</table>

**Complete Your System with Valve Accessories**

In addition to valves, Airline provides all the accessories needed to complete your system:
- Bolt Kits (see p. 33)
- Sandwich Valves (see p. 15)
- Subplates (see p. 33)
- Bar Manifolds (see p. 30)
- Connectors & Cables

**Not sure how to bring it all together?**
Airline provides complete valve assembly services from design to construction.

**Contact us for even more options.**

Shop online at [www.airlinehyd.com](http://www.airlinehyd.com)
**DRV & DRVP Series Flow Control Valves**

**Features**
- 5000 psi operating pressure
- 8 sizes, 1/8” - 1-1/2”
- NPTF or SAE O-ring threaded connections or manifold mounting
- Flows to 80 gpm
- Carbon steel dousing
- FPM (fluoroelastomer) O-rings (standard)
- Color coded spindle for accurate flow control
- Provision for panel mounting
- Unique safety spindle design
- Temperature range: -4° to 212°F at full pressure

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Port Thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>705522</td>
<td>AHC88244</td>
<td>HYDAC</td>
<td>DRV0801.X/12 Flow Control</td>
<td>SAE 4</td>
</tr>
<tr>
<td>705534</td>
<td>AHC88249</td>
<td>HYDAC</td>
<td>DRV1001.X/12 Flow Control</td>
<td>SAE 6</td>
</tr>
<tr>
<td>705546</td>
<td>AHC88255</td>
<td>HYDAC</td>
<td>DRV1201.X/12 Flow Control</td>
<td>SAE 8</td>
</tr>
<tr>
<td>705558</td>
<td>AHC88260</td>
<td>HYDAC</td>
<td>DRV1601.X/12 Flow Control</td>
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<tr>
<td>705570</td>
<td>AHC88266</td>
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<td>DRV2001.X/12 Flow Control</td>
<td>SAE 16</td>
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<tr>
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<td>AHC88271</td>
<td>HYDAC</td>
<td>DRV2501.X/12 Flow Control</td>
<td>SAE 20</td>
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<tr>
<td>705594</td>
<td>AHC88292</td>
<td>HYDAC</td>
<td>DRV3001.X/12 Flow Control</td>
<td>SAE 24</td>
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<tr>
<td>705602</td>
<td>AHC88253</td>
<td>HYDAC</td>
<td>DRV1201.X/5 Flow Control</td>
<td>1/2” NPT</td>
</tr>
<tr>
<td>705666</td>
<td>AHC88264</td>
<td>HYDAC</td>
<td>DRV2001.X/12 Flow Control</td>
<td>1” NPT</td>
</tr>
</tbody>
</table>

**DV, DVE & DVP Series Needle Valves**

**Features**
- 5000 psi operating pressure
- 8 Sizes, 1/8” - 1-1/2”
- SAE O-ring, NPT or BSPP threaded connections; manifold mounting; and cartridge type
- Flows to 80 gpm
- Carbon steel housing
- FPM (fluoroelastomer) O-rings (standard)
- Color coded spindle for accurate flow control
- Provision for panel mounting
- Unique safety spindle design
- Temperature range: -4° to 212°F at full pressure

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Port Thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>705022</td>
<td>AHC88163</td>
<td>HYDAC</td>
<td>DV0801.X/12, Needle Valve</td>
<td>SAE 4</td>
</tr>
<tr>
<td>705018</td>
<td>AHC88161</td>
<td>HYDAC</td>
<td>DV0801.X/5, Needle Valve</td>
<td>1/4” NPT</td>
</tr>
<tr>
<td>705034</td>
<td>AHC88169</td>
<td>HYDAC</td>
<td>DV1001.X/12, Needle Valve</td>
<td>SAE 6</td>
</tr>
<tr>
<td>705046</td>
<td>AHC88174</td>
<td>HYDAC</td>
<td>DV1201.X/12, Needle Valve</td>
<td>SAE 8</td>
</tr>
</tbody>
</table>
KHB & KHM Series 2-way Ball Valves with SAE & NPT Connections

Features
- 1/4” - 2” full port design
- NPT or SAE O-ring connections
- Polyacetal ball seals (standard)
- FPM (fluoroelastomer) O-rings (standard)
- Carbon steel housing
- Block housing - sizes 06 - 25
- Forged housing - sizes 32 - 50
- Operating pressure to 7250 psi pending on valve size and seal materials selected
- Temp. range: 14° F to 176° F with standard materials (1114) up to max. pressure rating. Extended temperature range -40° F to 392° F on request with special materials and reduced pressure rating.

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Port Thread</th>
<th>Max. Pressure (psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2060288</td>
<td>AHC92089</td>
<td>HYDAC</td>
<td>KHB06SAE111411X, Ball Valve</td>
<td>SAE 4</td>
<td>7250</td>
</tr>
<tr>
<td>2060289</td>
<td>AHC92090</td>
<td>HYDAC</td>
<td>KHB10SAE111411X, Ball Valve</td>
<td>SAE 6</td>
<td>7250</td>
</tr>
<tr>
<td>2060290</td>
<td>AHC92091</td>
<td>HYDAC</td>
<td>KHB16SAE111411X, Ball Valve</td>
<td>SAE 8</td>
<td>5800</td>
</tr>
<tr>
<td>2060291</td>
<td>AHC92092</td>
<td>HYDAC</td>
<td>KHB25SAE111411X, Ball Valve</td>
<td>SAE 12</td>
<td>5000</td>
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<tr>
<td>2060292</td>
<td>AHC92093</td>
<td>HYDAC</td>
<td>KHB25SAE111411X, Ball Valve</td>
<td>SAE 12</td>
<td>5000</td>
</tr>
<tr>
<td>2060293</td>
<td>AHC1656812</td>
<td>HYDAC</td>
<td>KHM32SAE111416X, Ball Valve</td>
<td>SAE 20</td>
<td>5000</td>
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<tr>
<td>2060294</td>
<td>AHC92094</td>
<td>HYDAC</td>
<td>KHM40SAE111416X, Ball Valve</td>
<td>SAE 24</td>
<td>5000</td>
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<td>2060295</td>
<td>AHC92095</td>
<td>HYDAC</td>
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<td>SAE 32</td>
<td>5000</td>
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<tr>
<td>2061169</td>
<td>AHC92313</td>
<td>HYDAC</td>
<td>Locking Handle</td>
<td>SAE 4 to SAE 6</td>
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<tr>
<td>2061170</td>
<td>AHC92314</td>
<td>HYDAC</td>
<td>Locking Handle</td>
<td>SAE 8</td>
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<tr>
<td>2061171</td>
<td>AHC92315</td>
<td>HYDAC</td>
<td>Locking Handle</td>
<td>SAE 12 to SAE 16</td>
<td>N/A</td>
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<tr>
<td>2055711</td>
<td>AHC91042</td>
<td>HYDAC</td>
<td>Locking Handle</td>
<td>SAE 20 to SAE 32</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Fluid Power Formulas in Your Pocket

Airline’s Fluid Power Data Book

This pocket size booklet provides a collection of useful fluid power data to help you quickly solve problems like:
- Calculating replacement pump or motor size
- Units conversion
- Force, torque, HP, and speed calculations
- Oil flow and viscosity rating systems

Ask your Airline representative to get a copy.
**DF Series Inline Filters**

**Features**
- 6000 psi - up to 180 gpm
- Non-welded housing design reduces stress concentrations and prevents fatigue failure
- Choice of NPT, SAE straight thread o-ring boss, and SAE 4-bolt flange porting (sizes 60 - 1320) to allow easy installation without costly adapters
- O-ring seals are used to provide positive, reliable sealing. Choice of o-ring materials (nitrile, fluoroelastomer, EPDM) provides compatibility with petroleum oils, synthetic fluids, water-glycols, oil/water emulsions, and high water-base fluids
- Screw-in bowl mounted below the filter head requires minimal clearance to remove the element for replacement
- Differential pressure indicators
- Fatigue pressure ratings equals maximum allowable working pressure rating

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr. Description</th>
<th>Port Thread</th>
<th>Max. Pressure (psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2058677</td>
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<td>HYDAC DF ON 60TC10A1.0/12B6 Filter</td>
<td>SAE 12</td>
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</tr>
<tr>
<td>2058888</td>
<td>AHC91401</td>
<td>HYDAC DF ON 110TC10A1.0/12B6 Filter</td>
<td>SAE 12</td>
<td>6000</td>
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<tr>
<td>2058947</td>
<td>AHC91388</td>
<td>HYDAC DF ON 160TE10A1.0/12B6 Filter</td>
<td>SAE 20</td>
<td>6000</td>
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<tr>
<td>2058852</td>
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<td>6000</td>
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<tr>
<td>2059125</td>
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<td>HYDAC DF ON 330TF10A1.0/12B6 Filter</td>
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<tr>
<td>303162</td>
<td>AHC265302</td>
<td>HYDAC V06BM.1 DF Visual Indicator</td>
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<tr>
<td>306839</td>
<td>AHC266493</td>
<td>HYDAC V05C.0 DF Electrical Indicator</td>
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<tr>
<td>314394</td>
<td>AHC26667</td>
<td>HYDAC V05D.0/L115 DF Electrical/Visual Indicator, 110VAC</td>
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<tr>
<td>316885</td>
<td>AHC26726</td>
<td>HYDAC V05D.0/L24 DF Electrical/Visual Indicator, 240VDC</td>
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<tr>
<td>1250487</td>
<td>AHC89838</td>
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<tr>
<td>1250488</td>
<td>AHC89839</td>
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<tr>
<td>1250490</td>
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<tr>
<td>1250491</td>
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<td>1250493</td>
<td>AHC89844</td>
<td>HYDAC 0330 D 010 ON Element, 10 Micron, 55 gpm</td>
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</table>

Nearly 85% of hydraulic component failures result from contaminated oil. The contamination in a hydraulic system may be invisible to the human eye, but when magnified, it’s easy to see how these tiny particles can damage a system and its components. When circulating through the system, they act as an abrasive which “sand-blasts” the surface of all of the components and causes them to function inefficiently, and eventually break down.

Whether it’s an upgrade of your current filtration system, or a one-time system filtration or flush performed by our top-notch Service & Repair team, Airline can recommend and implement the best option to ensure the longest and most reliable service life for your system or component. Call our toll-free number below or visit www.airlinehyd.com to learn more.

Call Airline toll free: 800-999-7378
245 LE(N) Line-Mounted Filters

Line filters are used in hydraulic systems for separating solid materials from the hydraulic fluids and lubricating oils. They are intended for installation into pipelines.

Features
- Special highly-efficient filter media
- Adsorption of very fine particles across a broad pressure differential range
- High dirt-holding capacity thanks to large specific filter area
- Good chemical-resistance of the filter elements
- High collapse resistance of the filter elements (e.g. in case of cold start)
- Equipped with mechanical-optical maintenance indicator with memory function
- Flow-optimized design due to 3D computer-supported design

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Port Thread</th>
<th>Max. Pressure (psi)</th>
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<tbody>
<tr>
<td>R928030728</td>
<td>AHC1991886</td>
<td>Bosch Rexroth</td>
<td>245 LEN 0040-H100LA00-V5.0-M-U3, Filter, Includes Bypass &amp; Visual Indicator</td>
<td>SAE 12</td>
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<tr>
<td>R928030730</td>
<td>AHC2030872</td>
<td>Bosch Rexroth</td>
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<td>SAE 12</td>
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<tr>
<td>R928030731</td>
<td>AHC1991887</td>
<td>Bosch Rexroth</td>
<td>245 LE D130-H100LA00-V5.0-M-U5, Filter, Includes Bypass &amp; Visual Indicator</td>
<td>SAE 20</td>
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<tr>
<td>R928030732</td>
<td>AHC2030830</td>
<td>Bosch Rexroth</td>
<td>245 LE D150-H100LA00-V5.0-M-U5, Filter, Includes Bypass &amp; Visual Indicator</td>
<td>SAE 20</td>
<td>3553</td>
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<tr>
<td>R928030734</td>
<td>AHC1892738</td>
<td>Bosch Rexroth</td>
<td>245 LEN 0250-H100LA00-V5.0-M-U6, Filter, Includes Bypass &amp; Visual Indicator</td>
<td>SAE 24</td>
<td>3553</td>
</tr>
<tr>
<td>R928028409</td>
<td>AHC1849117</td>
<td>Bosch Rexroth</td>
<td>WE-1SP-M12x1, Single Switch, No Lights, M12, 150 (AC/DC)</td>
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<tr>
<td>R928028410</td>
<td>AHC1405290</td>
<td>Bosch Rexroth</td>
<td>WE-2SP-M12x1, Dual Switch, with Lights (GR, YL, RD), M12, 10-30 (DC)</td>
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<tr>
<td>R928006647</td>
<td>AHC1910698</td>
<td>Bosch Rexroth</td>
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<tr>
<td>R928006755</td>
<td>AHC1397692</td>
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<tr>
<td>R928022276</td>
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<tr>
<td>R928022285</td>
<td>AHC1971184</td>
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<tr>
<td>R928006863</td>
<td>AHC1847518</td>
<td>Bosch Rexroth</td>
<td>2.0250 H100L-A00-0-M Element, 10 Micron</td>
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<tr>
<td>1406245</td>
<td>AHC2164769</td>
<td>Phoenix Contact</td>
<td>SAC-4P-5.0-542/FS SCO BK, 5M Cable for Clogging Indicator</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Rexroth filtration products can extend your power unit warranty.

Did you know your Rexroth hydraulic power unit may be registered with our industry-leading 36-month extended warranty?

Any power unit produced by Bosch Rexroth in the US since August 2012 has been automatically registered with a 36-month warranty that gives additional protection to all of the Rexroth Hydraulic components. Power units produced by Airline, a Rexroth authorized distributor, may also be eligible for this extended warranty – ask your local Airline sales engineer for more information.
### RFM Series In-tank/Inline Filters, Indicators & Elements

**Features**
- The compact and lightweight design makes RFM filters especially suitable for mobile applications
- Constructed of polyamide plastic housing and lid
- Aluminum alloy is water tolerant and anodization is not required for water based fluids
- Models 330 and 500 have filter elements equipped with separate, reusable contamination baskets

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2062919</td>
<td>AHC92923</td>
<td>HYDAC</td>
<td>RFMBN/HC165BD10E1.0/12T Filter Housing, SAE 16, 10 Micron Absolute Element</td>
</tr>
<tr>
<td>2068821</td>
<td>AHC94387</td>
<td>HYDAC</td>
<td>RFM ON 330BF10E1.0/12 Filter Housing, SAE 24, 10 Micron Absolute Element</td>
</tr>
<tr>
<td>2060190</td>
<td>AHC923077</td>
<td>HYDAC</td>
<td>RFM ON 500BF10E1.0/12 Filter Housing, SAE 24, 10 Micron Absolute Element</td>
</tr>
<tr>
<td>2069871</td>
<td>AHC95960</td>
<td>HYDAC</td>
<td>VMF2D.0/L24, RFM 75/270 Electrical/Visual Indicator, 24VDC</td>
</tr>
<tr>
<td>301708</td>
<td>AHC98635</td>
<td>HYDAC</td>
<td>VMF2D.0/L115, RFM 75/270 Electrical/Visual Indicator, 115VAC</td>
</tr>
<tr>
<td>306825</td>
<td>AHC96486</td>
<td>HYDAC</td>
<td>VR2D.0/L24, RFM330/500 Electrical/Visual Indicator, 24VDC</td>
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<tr>
<td>311934</td>
<td>AHC96616</td>
<td>HYDAC</td>
<td>VR2D.0/L115, RFM330/500 Electrical/Visual Indicator, 115VDC</td>
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<tr>
<td>1262969</td>
<td>AHC90110</td>
<td>HYDAC</td>
<td>0165 R 010 BN4HC Element, 10 Micron Absolute, 18 gpm @ 10 psi *</td>
</tr>
<tr>
<td>1262993</td>
<td>AHC90130</td>
<td>HYDAC</td>
<td>0330 R 010 ON Element, 10 Micron Absolute, 36 gpm @ 10 psi *</td>
</tr>
<tr>
<td>1263005</td>
<td>AHC90142</td>
<td>HYDAC</td>
<td>0500 R 010 ON Element, 10 Micron Absolute, 52 gpm @ 10 psi *</td>
</tr>
</tbody>
</table>

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**Receive Fluid Power Training with Airline**

At Airline, we believe there’s no greater asset to a company than a properly trained employee. When you receive training from Airline, be assured that you are receiving training from the best. Our instructors are experts in their fields and employ proven training methods to ensure that those who attend our classes obtain the highest caliber of training available in the industry.

We invite you to let us provide the training your company needs to fully understand today’s industrial equipment. If you have any questions or would like to speak to one of our training representatives, please call us at (215) 638-4700 or contact us at training@airlinehyd.com

Call Airline toll free: **800-999-7378**

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Filtration & Fluid Conditioning

2018 Hydraulic Preferred Products Catalog
10 TEN Tank Mounted Return Line Filters

The tank mounted return line filters are designed for installation on fluid tanks. They serve the separation of solid materials from the whole fluid flowing back to the tanks.

**Features**

- Special highly efficient filter media
- Adsorption of very fine particles across a broad pressure differential range
- High dirt holding capacity thanks to large specific filter area
- Good chemical resistance of the filter elements
- High collapse resistance of the filter elements (e.g. in case of cold start)
- Each filter is equipped with mechanical-optical maintenance indicator with memory function

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr. Name</th>
<th>Description</th>
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<tbody>
<tr>
<td>R928036298</td>
<td>AHC1996361</td>
<td>Bosch Rexroth</td>
<td>10TEN0040-H10XL000-V2.2-M-U4-F, SAE12, 10 Micron, with Breather</td>
</tr>
<tr>
<td>R928036321</td>
<td>AHC2217868</td>
<td>Bosch Rexroth</td>
<td>10TEN0083-H10XL000-V2.2-M-U8-F, SAE16, 10 Micron, with Breather</td>
</tr>
<tr>
<td>R928036322</td>
<td>AHC1967026</td>
<td>Bosch Rexroth</td>
<td>10TEN0100-H10XL000-V2.2-M-U9-F, SAE16, 10 Micron</td>
</tr>
<tr>
<td>R928044981</td>
<td>AHC20300797</td>
<td>Bosch Rexroth</td>
<td>10TEN0160-H10XL000-P2.2-M-U6, TEN0160 Filter Housing, SAE 24, 10 Micron</td>
</tr>
<tr>
<td>R928041281</td>
<td>AHC2060463</td>
<td>Bosch Rexroth</td>
<td>10TEN0400-H10XL000-P2.2-M-S8 Filter Housing, 2&quot; CODE 61, 10 Micron</td>
</tr>
<tr>
<td>R928028409</td>
<td>AHC1849117</td>
<td>Bosch Rexroth</td>
<td>Filter Clogged Indicators, WE-1SP-M12x1, Single Switch, No Lights, M12, 150 (AC/DC)</td>
</tr>
<tr>
<td>R928028410</td>
<td>AHC1405290</td>
<td>Bosch Rexroth</td>
<td>Filter Clogged Indicators, WE-2SP-M12x1, Dual Switch, with Lights (GR, YL, RD), M12, 10-30 (DC)</td>
</tr>
<tr>
<td>R928005837</td>
<td>AHC1397326</td>
<td>Bosch Rexroth</td>
<td>Preffered Element, 1.0040 H10XL-A00-0-M Element, 10 Micron</td>
</tr>
<tr>
<td>R928005855</td>
<td>AHC1397399</td>
<td>Bosch Rexroth</td>
<td>Preffered Element, 1.0063 H10XL-A00-0-M Element, 10 Micron</td>
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<tr>
<td>R928005873</td>
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<tr>
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<tr>
<td>R928005963</td>
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<td>Bosch Rexroth</td>
<td>Preffered Element, 1.0400 H10XL-A00-0-M Element, 10 Micron</td>
</tr>
<tr>
<td>1406245</td>
<td>AHC2164769</td>
<td>Phoenix Contact</td>
<td>SAC-4P- 5,0-542/ FS SCO BK, 5M Cable for Clogging Indicator</td>
</tr>
</tbody>
</table>
GoTo Fluid Analysis Kit

The GTAK fluid analysis kit can be used to obtain a complete and comprehensive laboratory analysis on a customer supplied fluid sample. The GTAK kits are supplied with pre-addressed labels for shipment to any one of multiple labs located throughout the United States. Results are quick and can be obtained via email or on the internet. Trend analysis is possible and easy to obtain for continuous monitoring of equipment.

Each Kit Contains
- 8 oz ISO CLEAN sample jar
- Sample submittal form
- Shipping container
- Prepaid laboratory analysis
- Quick results sent via e-mail
- On-line trend analysis via Horizon system

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R913039221</td>
<td>AHC2073652</td>
<td>Bosch Rexroth</td>
<td>Fluid Analysis Kit &amp; Bottle</td>
</tr>
</tbody>
</table>
Accumulators

SB Series Bladder Accumulators
Bladder accumulators are a very versatile and cost-effective option for numerous types of hydraulic systems involving energy storage, shock absorption, pulsation dampening, leakage loss compensation and volume compensation. They are a first choice for a great variety of general applications and have the widest range of standard sizes and model options. Bladder accumulators also have very quick shock response characteristics in sizes much larger than diaphragm accumulators.

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Size</th>
<th>Thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>2054004</td>
<td>AHC89848</td>
<td>HYDAC</td>
<td>SB33044A1/112S210C Accumulator</td>
<td>1 Gallon</td>
<td>SAE 20</td>
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<tr>
<td>2110642</td>
<td>AHC104991</td>
<td>HYDAC</td>
<td>HS167 Mounting Clamp</td>
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<tr>
<td>2107989</td>
<td>AHC104974</td>
<td>HYDAC</td>
<td>KBK167/G Mounting Base Bracket</td>
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<tr>
<td>2054005</td>
<td>AHC1671784</td>
<td>HYDAC</td>
<td>SB33010A1/112S210C Accumulator</td>
<td>2.5 Gallon</td>
<td>SAE 24</td>
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<tr>
<td>2054006</td>
<td>AHC1712277</td>
<td>HYDAC</td>
<td>SB33020A1/112S210C Accumulator</td>
<td>5 Gallon</td>
<td>SAE 24</td>
</tr>
<tr>
<td>2054007</td>
<td>AHC1671788</td>
<td>HYDAC</td>
<td>SB33032A1/112S210C Accumulator</td>
<td>10 Gallon</td>
<td>SAE 24</td>
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<tr>
<td>235224</td>
<td>AHC84961</td>
<td>HYDAC</td>
<td>HSS222/229 Mounting Clamp (2 Required per Bottle)</td>
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<tr>
<td>2100651</td>
<td>AHC104893</td>
<td>HYDAC</td>
<td>KBK222/G Mounting Base Bracket</td>
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<tr>
<td>2054186</td>
<td>AHC90890</td>
<td>HYDAC</td>
<td>FPS250F2.5G4K Accumulator Charging &amp; Gauge Kit</td>
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</table>

SAF Series Safety & Shut-off Blocks
HYDAC safety and shut off blocks are designed to protect, shut-off, and discharge hydraulic accumulators or user units. The compact design simplifies the hydraulic system connection and offers multiple advantages.

**Features**
- Minimum space compared to individual components
- Reduced installation time
- Various system connections
- System lockout

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Thread</th>
<th>Drain</th>
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</thead>
<tbody>
<tr>
<td>2076187</td>
<td>AHC2143846</td>
<td>HYDAC</td>
<td>SAF10M16-N250C S62, use with 1 Gallon Accumulator</td>
<td>SAE 20</td>
<td>Manual</td>
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<tr>
<td>2076184</td>
<td>AHC1712339</td>
<td>HYDAC</td>
<td>SAF10E16Y1-N350C S62 L, use with 1 Gallon Accumulator</td>
<td>SAE 20</td>
<td>24 VDC</td>
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<tr>
<td>2076237</td>
<td>AHC1712265</td>
<td>HYDAC</td>
<td>SAF20M16-N250C S63, use with 2.5-10 Gallon Accumulator</td>
<td>SAE 24</td>
<td>Manual</td>
</tr>
<tr>
<td>2076205</td>
<td>AHC1712240</td>
<td>HYDAC</td>
<td>SAF20E16Y1-N250C S63, use with 2.5-10 Gallon Accumulator</td>
<td>SAE 24</td>
<td>24 VDC</td>
</tr>
</tbody>
</table>
**Heat Exchangers & Coolers**

**ELD M Series Rear-Mounted NEMA Motor Cooler**

These coolers are designed with a durable brazed bar and plate-type heat exchanger for high efficiency. Included with the cooler package is a shroud with gasket to seal to the motor fan and adjustable mounting feet.

**Features**
- Coolers to mount on rear of TEFC frame motors
- Power unit case drain coolers
- Utilizes ELD standard cores and shrouds
- Air filter available upon request

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Thread</th>
<th>Passes</th>
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</thead>
<tbody>
<tr>
<td>2595793</td>
<td>AHC1866434</td>
<td>HYDAC</td>
<td>ELD2M1.5, Heat Exchanger, Fits 213TC - 256TC Motors (Use E-motor with Large Fan)</td>
<td>SAE 16</td>
<td>1</td>
</tr>
<tr>
<td>2595794</td>
<td>AHC1946929</td>
<td>HYDAC</td>
<td>ELD3M1.5, Heat Exchanger, Fits 254TC - 365TC Frames (Use E-motor with Large Fan)</td>
<td>SAE 12</td>
<td>1</td>
</tr>
</tbody>
</table>

**OK Series Air Cooled Oil Coolers**

The OK Series cooler design uses an axial fan assembly which draws air through the cooler. This offers excellent cooling capacity.

**Features**
- Externally mounted heat exchangers for easy maintenance and cleaning
- Up to 40 HP cooling capacity
- Maximum flows (w/o pump) up to 61.8 gpm
- 230/460 volt/3 phase motor

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Flow Rate</th>
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</thead>
<tbody>
<tr>
<td>2598094</td>
<td>AHC2263088</td>
<td>HYDAC</td>
<td>OK5S3.6B, HEAT REMOVAL - 17HP @ 40 DEG F DELTA</td>
<td>50 GPM Max</td>
</tr>
<tr>
<td>2598096</td>
<td>AHC1943085</td>
<td>HYDAC</td>
<td>OK6S3.6B, HEAT REMOVAL - 40HP @ 40 DEG F DELTA</td>
<td>60 GPM Max</td>
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</tbody>
</table>

**Industrial RM Series Fluid Cooling**

**Features**
- Mounts to rear of electric motor – TEFC
- Utilizes electric motor fan air flow
- Ideal for case drain applications
- Compact, efficient design
- Low flow & heat removal

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Thread</th>
<th>Passes</th>
</tr>
</thead>
<tbody>
<tr>
<td>85351</td>
<td>AHC1844323</td>
<td>Thermal Transfer</td>
<td>RM0822, Heat Exchanger, Fits 48TC - 184TC Motors (Use E-motor with Large Fan)</td>
<td>SAE 8</td>
<td>2</td>
</tr>
<tr>
<td>95148</td>
<td>AHC3986778</td>
<td>Thermal Transfer</td>
<td>RM1922, Heat Exchanger, Fits 213TC - 256TC Motors (Use E-motor with Large Fan)</td>
<td>SAE 12</td>
<td>2</td>
</tr>
<tr>
<td>94603</td>
<td>AHC3986785</td>
<td>Thermal Transfer</td>
<td>RM2422, Heat Exchanger, Fits 254TC - 365TC Frames (Use E-motor with Large Fan)</td>
<td>SAE 12</td>
<td>2</td>
</tr>
</tbody>
</table>
Heat Exchangers & Coolers

**Shell & Tube EK Series Fluid Cooling**

**Features**
- Compact size
- High-efficiency finned bundle design
- Optional patented built-in Surge-Cushion® relief bypass
- 3/16” tube size
- Removable end bonnets for easy tube cleaning
- Mounting brackets designed so that cooler can be rotated in 90° increments

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr. Description</th>
<th>Thread</th>
<th>Passes</th>
</tr>
</thead>
<tbody>
<tr>
<td>86459</td>
<td>AHC1896211</td>
<td>Thermal Transfer EKS510T, Heat Exchanger, 10 HP Removal with 7 gpm Oil</td>
<td>SAE 12</td>
<td>2</td>
</tr>
<tr>
<td>78502</td>
<td>AHC398291</td>
<td>Thermal Transfer EKS712T, Heat Exchanger, 20 HP Removal with 16 gpm Oil</td>
<td>SAE 24</td>
<td>2</td>
</tr>
</tbody>
</table>

**HEX Series Brazed Plate Heat Exchanger**

**Features**
- Plates and connections are manufactured from stainless steel to AISI 316, 1.4401, vacuum–brazed with copper.
- The special molding of the plates produces the turbulent flow necessary for effective heat transfer and provides the plate heat exchanger with a high level of mechanical strength.
- Preferred cooler connections are 1” NPT female thread.
- Temperature range: 50ºF to 437ºF
- Max pressure, copper brazed: 30 bar.

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr. Description</th>
<th>Number of Plates</th>
<th>Pressure Rating</th>
<th>Thread</th>
</tr>
</thead>
<tbody>
<tr>
<td>2582226</td>
<td>AHC1986249</td>
<td>HYDAC Heat Exchanger HEX 610-20 NPT</td>
<td>20</td>
<td>30 Bar</td>
<td>1” NPT</td>
</tr>
<tr>
<td>2582227</td>
<td>AHC1981287</td>
<td>HYDAC Heat Exchanger HEX 610-30 NPT</td>
<td>30</td>
<td>30 Bar</td>
<td>1” NPT</td>
</tr>
<tr>
<td>2582228</td>
<td>AHC1956972</td>
<td>HYDAC Heat Exchanger HEX 610-40 NPT</td>
<td>40</td>
<td>30 Bar</td>
<td>1” NPT</td>
</tr>
<tr>
<td>2582230</td>
<td>AHC1906810</td>
<td>HYDAC Heat Exchanger HEX 610-60 NPT</td>
<td>60</td>
<td>30 Bar</td>
<td>1” NPT</td>
</tr>
<tr>
<td>2582237</td>
<td>AHC1908039</td>
<td>HYDAC Heat Exchanger HEX 615-40 NPT</td>
<td>40</td>
<td>30 Bar</td>
<td>1” NPT</td>
</tr>
</tbody>
</table>

Shop online at [www.airlinehyd.com](http://www.airlinehyd.com)
Modulating Water Valves and Bulb Wells

These modulating valves regulate the flow of water to the heat exchanger to maintain a desired exiting oil temperature. They open automatically when temperature increases at the sensing bulb. No external power source is required to actuate the valve. Not to be used for salt water service.

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr. Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>65253</td>
<td>AHC399152</td>
<td>Thermal Transfer Water Control Valve, 3/4” NPT, 75-135° F Range, 40 gpm Max Flow (Use Bulb Well 65280)</td>
</tr>
<tr>
<td>65511</td>
<td>AHC399150</td>
<td>Thermal Transfer Water Control Valve, 1/2” NPT, 75-135° F Range, 25 gpm Max Flow (Use Bulb Well 65280)</td>
</tr>
<tr>
<td>65280</td>
<td>AHC392819</td>
<td>Thermal Transfer Bulb Well</td>
</tr>
</tbody>
</table>

Helpful Reservoir Equations

**Cooling**

\[ \text{HP Radiated} = \frac{\text{Sq. Ft. Vertical Steel} \times \text{Temp. Delta}}{1000} \]

Tank is stainless steel (CRES): Divide the answer by 2

Tank is made of aluminum: Multiply your answer by 2.8

**Heating**

\[ \text{BTU’s to heat a reservoir} = \text{Oil volume (ft.}^3\text{)} \times 62.4 \times \frac{\text{Sp. Heat}}{.5} \times \frac{\text{Sp. G}}{.89} \times \text{Temp. Delta} \]
D03 Standard Hydraulic Manifolds

Industrial hydraulic manifolds are used to interconnect various components within a hydraulic system. Standard hydraulic manifolds include a variety of proven manifold designs for a wide range of industrial hydraulic applications. Standard manifolds may improve the assembly and test time of your system, save cost, reduce leak points, and improve the serviceability and aesthetics of your system compared to alternate connection methods.

Features
- Size 6 (D03)
- Ductile iron pressure range to 5000 psi
- Ductile iron manifolds blackened

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R978908745</td>
<td>AHC2219195</td>
<td>Bosch Rexroth</td>
<td>2-Station D03 Manifold</td>
</tr>
<tr>
<td>R978908747</td>
<td>AHC2219196</td>
<td>Bosch Rexroth</td>
<td>4-Station D03 Manifold</td>
</tr>
<tr>
<td>R978839953</td>
<td>AHC1558616</td>
<td>Bosch Rexroth</td>
<td>Cover Plate</td>
</tr>
</tbody>
</table>

Parallel Bar Manifolds

Features
- Standard flow, rated 14 gpm at 15 fps
- Aluminum, 6061-T6, 3000psi working pressure
- Parallel circuit
- SAE o-ring port threads, per ISO 11926

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr. Description</th>
<th>P&amp;T Port Threads</th>
<th>A&amp;B Port Threads</th>
<th>GA Port Threads</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD03P012S</td>
<td>AHC1655207</td>
<td>Daman Manifold, Parallel, D03-1 Station</td>
<td>SAE-10</td>
<td>SAE-8</td>
<td>None</td>
</tr>
<tr>
<td>AD03P022S</td>
<td>AHC1655213</td>
<td>Daman Manifold, Parallel, D03-2 Station</td>
<td>SAE-10</td>
<td>SAE-8</td>
<td>SAE-6</td>
</tr>
<tr>
<td>AD03P032S</td>
<td>AHC1655222</td>
<td>Daman Manifold, Parallel, D03-3 Station</td>
<td>SAE-10</td>
<td>SAE-8</td>
<td>SAE-6</td>
</tr>
<tr>
<td>AD03P042S</td>
<td>AHC1655228</td>
<td>Daman Manifold, Parallel, D03-4 Station</td>
<td>SAE-10</td>
<td>SAE-8</td>
<td>SAE-6</td>
</tr>
<tr>
<td>AD03P052S</td>
<td>AHC1655236</td>
<td>Daman Manifold, Parallel, D03-5 Station</td>
<td>SAE-10</td>
<td>SAE-8</td>
<td>SAE-6</td>
</tr>
<tr>
<td>AD03P062S</td>
<td>AHC1655242</td>
<td>Daman Manifold, Parallel, D03-6 Station</td>
<td>SAE-10</td>
<td>SAE-8</td>
<td>SAE-6</td>
</tr>
<tr>
<td>AD05P013S</td>
<td>AHC1655315</td>
<td>Daman Manifold, Parallel, D05-1 Station</td>
<td>SAE-12</td>
<td>SAE-8</td>
<td>None</td>
</tr>
<tr>
<td>AD05P023S</td>
<td>AHC1655317</td>
<td>Daman Manifold, Parallel, D05-2 Station</td>
<td>SAE-12</td>
<td>SAE-8</td>
<td>SAE-6</td>
</tr>
<tr>
<td>AD05P033S</td>
<td>AHC1655320</td>
<td>Daman Manifold, Parallel, D05-3 Station</td>
<td>SAE-12</td>
<td>SAE-8</td>
<td>SAE-6</td>
</tr>
<tr>
<td>AD05P043S</td>
<td>AHC1655322</td>
<td>Daman Manifold, Parallel, D05-4 Station</td>
<td>SAE-12</td>
<td>SAE-8</td>
<td>SAE-6</td>
</tr>
<tr>
<td>AD05P053S</td>
<td>AHC1655324</td>
<td>Daman Manifold, Parallel, D05-5 Station</td>
<td>SAE-12</td>
<td>SAE-8</td>
<td>SAE-6</td>
</tr>
</tbody>
</table>
Parallel Bar Manifolds with Relief Cavity

Features
- Standard flow, rated 14 gpm at 15 fps
- Aluminum, 6061-T6, 3000psi working pressure
- Parallel circuit
- SAE o-ring port threads, per ISO 11926
- Single common cavity, C-10-2, with solenoid clearance

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>P&amp;T Port Threads</th>
<th>A&amp;B Port Threads</th>
<th>GA Port Threads</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD03P012S/C</td>
<td>AHC1655208</td>
<td>Daman</td>
<td>Manifold, Parallel, D03-1 Station with C-10-2 Relief Cavity</td>
<td>SAE-10</td>
<td>SAE-8</td>
<td>None</td>
</tr>
<tr>
<td>AD03P022S/C</td>
<td>AHC1655214</td>
<td>Daman</td>
<td>Manifold, Parallel, D03-2 Station with C-10-2 Relief Cavity</td>
<td>SAE-10</td>
<td>SAE-8</td>
<td>SAE-6</td>
</tr>
<tr>
<td>AD03P032S/C</td>
<td>AHC1655223</td>
<td>Daman</td>
<td>Manifold, Parallel, D03-3 Station with C-10-2 Relief Cavity</td>
<td>SAE-10</td>
<td>SAE-8</td>
<td>SAE-6</td>
</tr>
<tr>
<td>AD03P042S/C</td>
<td>AHC1655229</td>
<td>Daman</td>
<td>Manifold, Parallel, D03-4 Station with C-10-2 Relief Cavity</td>
<td>SAE-10</td>
<td>SAE-8</td>
<td>SAE-6</td>
</tr>
<tr>
<td>AD03P052S/C</td>
<td>AHC1655237</td>
<td>Daman</td>
<td>Manifold, Parallel, D03-5 Station with C-10-2 Relief Cavity</td>
<td>SAE-10</td>
<td>SAE-8</td>
<td>SAE-6</td>
</tr>
<tr>
<td>AD03P062S/C</td>
<td>AHC1655243</td>
<td>Daman</td>
<td>Manifold, Parallel, D03-6 Station with C-10-2 Relief Cavity</td>
<td>SAE-10</td>
<td>SAE-8</td>
<td>SAE-6</td>
</tr>
<tr>
<td>AD05P013S/C</td>
<td>AHC1900159</td>
<td>Daman</td>
<td>Manifold, Parallel, D05-1 Station with C-10-2 Relief Cavity</td>
<td>SAE-12</td>
<td>SAE-8</td>
<td>None</td>
</tr>
<tr>
<td>AD05P023S/C</td>
<td>AHC1900160</td>
<td>Daman</td>
<td>Manifold, Parallel, D05-2 Station with C-10-2 Relief Cavity</td>
<td>SAE-12</td>
<td>SAE-8</td>
<td>SAE-6</td>
</tr>
<tr>
<td>AD05P033S/C</td>
<td>AHC1900161</td>
<td>Daman</td>
<td>Manifold, Parallel, D05-3 Station with C-10-2 Relief Cavity</td>
<td>SAE-12</td>
<td>SAE-8</td>
<td>SAE-6</td>
</tr>
<tr>
<td>AD05P043S/C</td>
<td>AHC1655323</td>
<td>Daman</td>
<td>Manifold, Parallel, D05-4 Station with C-10-2 Relief Cavity</td>
<td>SAE-12</td>
<td>SAE-8</td>
<td>SAE-6</td>
</tr>
<tr>
<td>AD05P053S/C</td>
<td>AHC1900183</td>
<td>Daman</td>
<td>Manifold, Parallel, D05-5 Station with C-10-2 Relief Cavity</td>
<td>SAE-12</td>
<td>SAE-8</td>
<td>SAE-6</td>
</tr>
<tr>
<td>R9300511168</td>
<td>AHC2143741</td>
<td>Bosch Rexroth</td>
<td>VSPC-10A-20-A Pilot Operated Relief 1000-4000 PSI for C-10-2 Cavity</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Adapters

Features
- Aluminum, 6061-T6, 3000 psi working pressure
- Adapts a D03 (size 6) valve to a D05 (size 10) pattern
- Port orientation; valve A port common to manifold A port
- Includes UNC bolt kit

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD03D05VAAB</td>
<td>AHC1655192</td>
<td>Daman</td>
<td>Adapter, D03 to D05</td>
</tr>
</tbody>
</table>
Tapping Plates

Features
- Aluminum, 6061-T6, 3000 psi working pressure
- Size 6 (D03) or size 10 (D05)
- Versions for single station A and B or P and T ports, or dual station A and B common
- SAE-4 ports

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD03TPAB4S</td>
<td>AHC1655273</td>
<td>Daman</td>
<td>Tapping Plate, D03 A &amp; B Ports=SAE-4, HT-1.00</td>
</tr>
<tr>
<td>AD03TPPT4S</td>
<td>AHC1655277</td>
<td>Daman</td>
<td>Tapping Plate, D03 P &amp; T Ports=SAE-4, HT-1.00</td>
</tr>
<tr>
<td>AD03TP022AB</td>
<td>AHC1655271</td>
<td>Daman</td>
<td>Tapping Plate, D03 Two Station</td>
</tr>
<tr>
<td>AD05TPAB4S</td>
<td>AHC1655333</td>
<td>Daman</td>
<td>Tapping Plate, D05 A &amp; B Ports=SAE-4, HT-1.00</td>
</tr>
<tr>
<td>AD05TPPT4S</td>
<td>AHC1655335</td>
<td>Daman</td>
<td>Tapping Plate, D05 P &amp; T Ports=SAE-4, HT-1.00</td>
</tr>
<tr>
<td>AD05TP023AB</td>
<td>AHC1655331</td>
<td>Daman</td>
<td>Tapping Plate, D05 Two Station</td>
</tr>
</tbody>
</table>

Cover Plates

Features
- Aluminum, 6061-T6, 3000 psi working pressure
- Size 6 (D03) or size 10 (D05)
- Parallel circuit
- Includes UNC bolt kit

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD03CPP</td>
<td>AHC1655188</td>
<td>Daman</td>
<td>Cover Plate, Parallel, D03</td>
</tr>
<tr>
<td>AD05CPP</td>
<td>AHC1655282</td>
<td>Daman</td>
<td>Cover Plate, Parallel, D05</td>
</tr>
</tbody>
</table>
### Subplates

**Features**
- Aluminum, 6061-T6, 3000 psi working pressure
- For D03, D05, D08
- Side ported, SAE threaded ports
- Relief version is common cavity, C-10-2, P to T

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>AD03SPS8S</td>
<td>AHC1655267</td>
<td>Daman</td>
<td>Subplate, D03, SAE 8</td>
</tr>
<tr>
<td>AD05SPS8S</td>
<td>AHC1655329</td>
<td>Daman</td>
<td>Subplate, D05, SAE 8</td>
</tr>
<tr>
<td>AD08SPS08S</td>
<td>AHC1655387</td>
<td>Daman</td>
<td>Subplate, D08, SAE 16</td>
</tr>
<tr>
<td>AD03SPRVC6S</td>
<td>AHC1655260</td>
<td>Daman</td>
<td>Subplate, D03, SAE 6, C-10-2 P-T Relief Cavity</td>
</tr>
<tr>
<td>AD03SPRVC8S</td>
<td>AHC1655261</td>
<td>Daman</td>
<td>Subplate, D03, SAE 8, C-10-2 P-T Relief Cavity</td>
</tr>
<tr>
<td>AD05SPRVC8S</td>
<td>AHC1655327</td>
<td>Daman</td>
<td>Subplate, D05, SAE 8, C-10-2 P-T Relief Cavity</td>
</tr>
<tr>
<td>AD08SPRVC16S</td>
<td>AHC1655364</td>
<td>Daman</td>
<td>Subplate, D08, SAE 16, C-10-2 P-T Relief Cavity</td>
</tr>
</tbody>
</table>

### Bolt & Stud Kits

**Features**
- Common 10-24 and ¼-20 threads and 7” and 12” lengths

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R978833366</td>
<td>AHC1557025</td>
<td>Bosch Rexroth</td>
<td>Bolt Kit, 4 pieces of 1/4-20 x 1-1/2” Long Bolts</td>
</tr>
<tr>
<td>R978833367</td>
<td>AHC1553452</td>
<td>Bosch Rexroth</td>
<td>Bolt Kit, 4 pieces of 1/4-20 x 1-3/4” Long Bolts</td>
</tr>
<tr>
<td>R978800696</td>
<td>AHC1951950</td>
<td>Bosch Rexroth</td>
<td>Socket Head Cap Screw for D03 Directional and Stack Valves, 10-24 x 3/4” ASTM A574, 4 Required</td>
</tr>
<tr>
<td>R978800717</td>
<td>AHC1548301</td>
<td>Bosch Rexroth</td>
<td>Socket Head Cap Screw for D03 Directional and Stack Valves, 1/4-20 x 1-1/2” ASTM A574, 4 Required</td>
</tr>
<tr>
<td>R978800693</td>
<td>AHC1548823</td>
<td>Bosch Rexroth</td>
<td>Socket Head Cap Screw for D03 Directional and Stack Valves, 10-24 x 3/4” ASTM A574, 4 Required</td>
</tr>
<tr>
<td>R978801234</td>
<td>AHC1548872</td>
<td>Bosch Rexroth</td>
<td>Socket Head Cap Screw for D03 Directional and Stack Valves, 10-24 x 3/4” ASTM A574, 4 Required</td>
</tr>
<tr>
<td>R978800698</td>
<td>AHC1548832</td>
<td>Bosch Rexroth</td>
<td>Socket Head Cap Screw for D03 Directional and Stack Valves, 10-24 x 1-1/2” ASTM A574, 4 Required</td>
</tr>
<tr>
<td>R978800702</td>
<td>AHC1548839</td>
<td>Bosch Rexroth</td>
<td>Socket Head Cap Screw for D03 Directional and Stack Valves, 10-24 x 1-1/2” ASTM A574, 4 Required</td>
</tr>
<tr>
<td>992011</td>
<td>AHC16558801</td>
<td>Sun Hydraulics</td>
<td>10-24 x 7” Stud Nuts and Stud Rods for D03 Valve Stacks (4 Nuts &amp; Rods per Kit)</td>
</tr>
<tr>
<td>992012</td>
<td>AHC16558802</td>
<td>Sun Hydraulics</td>
<td>10-24 x 12” Stud Nuts and Stud Rods for D03 Valve Stacks (4 Nuts &amp; Rods per Kit)</td>
</tr>
<tr>
<td>992001</td>
<td>AHC1683592</td>
<td>Sun Hydraulics</td>
<td>1/4-20 x 7” Stud Nuts and Stud Rods for D03 Valve Stacks (4 Nuts &amp; Rods per Kit)</td>
</tr>
<tr>
<td>992002</td>
<td>AHC16558800</td>
<td>Sun Hydraulics</td>
<td>1/4-20 x 12” Stud Nuts and Stud Rods for D03 Valve Stacks (4 Nuts &amp; Rods per Kit)</td>
</tr>
</tbody>
</table>
### DIN 3015 HRL Standard Duty Clamps

HYDAC manufactures a complete line of hose, tube, and pipe mounting components according to the DIN 3015 standard. HYDAC clamps assure a simple, reliable dampening support for lines which absorb shock, dampen vibration, and reduce noise in plumbing systems.

**Features**
- Recommended for systems with less than 1500 psi operating pressure and no dynamic loads.

<table>
<thead>
<tr>
<th>Mfr. Part No</th>
<th>AHC Part No</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2056149</td>
<td>AHC91086</td>
<td>HYDAC</td>
<td>HRL 1 A 6.4 PP UNC – ¼&quot; OD Tubing</td>
</tr>
<tr>
<td>2056150</td>
<td>AHC91087</td>
<td>HYDAC</td>
<td>HRL 1 A 9.5 PP UNC – 3/8&quot; OD Tubing</td>
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<tr>
<td>2056152</td>
<td>AHC91089</td>
<td>HYDAC</td>
<td>HRL 2 A 12.7 PP UNC – ½&quot; OD Tubing</td>
</tr>
<tr>
<td>2056156</td>
<td>AHC91093</td>
<td>HYDAC</td>
<td>HRL 3 A 19 PP UNC – ¾&quot; OD Tubing</td>
</tr>
<tr>
<td>2056159</td>
<td>AHC91096</td>
<td>HYDAC</td>
<td>HRL 3 A 25.4 PP UNC – 1&quot; OD Tubing</td>
</tr>
<tr>
<td>2056161</td>
<td>AHC91098</td>
<td>HYDAC</td>
<td>HRL 5 A 32 PP UNC – 1 ¼&quot; OD Tubing</td>
</tr>
<tr>
<td>2056153</td>
<td>AHC91090</td>
<td>HYDAC</td>
<td>HRL 2 A 14 PP UNC – ¼&quot; Pipe</td>
</tr>
<tr>
<td>2056155</td>
<td>AHC91092</td>
<td>HYDAC</td>
<td>HRL 2 A 17.1 PP UNC – 3/8&quot; Pipe</td>
</tr>
<tr>
<td>2056157</td>
<td>AHC91094</td>
<td>HYDAC</td>
<td>HRL 3 A 21.3 PP UNC – ½&quot; Pipe</td>
</tr>
<tr>
<td>2056160</td>
<td>AHC91097</td>
<td>HYDAC</td>
<td>HRL 4 A 26.6 PP UNC – ¾&quot; Pipe</td>
</tr>
<tr>
<td>2056162</td>
<td>AHC91099</td>
<td>HYDAC</td>
<td>HRL 5 A 33.7 PP UNC – 1&quot; Pipe</td>
</tr>
</tbody>
</table>

### DIN 3015 HRS Heavy Duty Clamps

HYDAC manufactures a complete line of hose, tube, and pipe mounting components according to the DIN 3015 standard. HYDAC clamps assure a simple, reliable dampening support for lines which absorb shock, dampen vibration, and reduce noise in plumbing systems.

**Features**
- Recommended for systems with greater than 1500 psi operating pressure, operations with pressure surges and applications with wide temperature fluctuations.

<table>
<thead>
<tr>
<th>Mfr. Part No</th>
<th>AHC Part No</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2056178</td>
<td>AHC91115</td>
<td>HYDAC</td>
<td>HRS 2 S 25.4 PP UNC – 1&quot; OD Tubing</td>
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<tr>
<td>2056180</td>
<td>AHC91117</td>
<td>HYDAC</td>
<td>HRS 3 S 32 PP UNC – 1 ¼&quot; OD Tubing</td>
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<tr>
<td>2056182</td>
<td>AHC91119</td>
<td>HYDAC</td>
<td>HRS 3 S 38 PP UNC – 1 ½&quot; OD Tubing</td>
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<tr>
<td>2056186</td>
<td>AHC91123</td>
<td>HYDAC</td>
<td>HRS 4 S 50.8 PP UNC – 2&quot; OD Tubing</td>
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<tr>
<td>2056181</td>
<td>AHC91118</td>
<td>HYDAC</td>
<td>HRS 3 S 33.7 PP UNC – 1&quot; Pipe</td>
</tr>
<tr>
<td>2056183</td>
<td>AHC91120</td>
<td>HYDAC</td>
<td>HRS 3 S 42 PP UNC – 1 ¼&quot; Pipe</td>
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<tr>
<td>2056185</td>
<td>AHC91122</td>
<td>HYDAC</td>
<td>HRS 4 S 48.3 PP UNC – 1 ½&quot; Pipe</td>
</tr>
<tr>
<td>2056188</td>
<td>AHC91125</td>
<td>HYDAC</td>
<td>HRS 4 S 60.3 PP UNC – 2&quot; Pipe</td>
</tr>
</tbody>
</table>

Shop online at [www.airlinehyd.com](http://www.airlinehyd.com)
DIN 3015 HRZ Twin Clamps
HYDAC manufactures a complete line of hose, tube, and pipe mounting components according to the DIN 3015 standard. HYDAC clamps assure a simple, reliable dampening support for lines which absorb shock, dampen vibration, and reduce noise in plumbing systems.

Features
- Recommended for systems with less than 1500 psi operating pressure and no dynamic loads.

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2058873</td>
<td>AHC91442</td>
<td>HYDAC</td>
<td>HRZ 1 A 6.4-6.4 PP UNC – ¼” OD Tubing</td>
</tr>
<tr>
<td>2059302</td>
<td>AHC91620</td>
<td>HYDAC</td>
<td>HRZ 1 A 9.5-9.5 PP UNC – ¾” OD Tubing</td>
</tr>
<tr>
<td>2058874</td>
<td>AHC91443</td>
<td>HYDAC</td>
<td>HRZ 2 A 12.7-12.7 PP UNC – ½” OD Tubing</td>
</tr>
<tr>
<td>2058875</td>
<td>AHC91444</td>
<td>HYDAC</td>
<td>HRZ 3 A 19-19 PP UNC – ¾” OD Tubing</td>
</tr>
<tr>
<td>2059309</td>
<td>AHC91627</td>
<td>HYDAC</td>
<td>HRZ 3 A 25.4-25.4 PP UNC = 1” OD Tubing</td>
</tr>
</tbody>
</table>

FSK & FSA Series Fluid Level Indicators
Fluid level gauges FSA are units which are used for checking and monitoring a operating fluid level.

Features
- Visual thermometer with °C and °F in scale
- Temperature gauge which records the temperature of the operating fluid in the tank. Scale in °C.
- Simple, standardised mounting (FSA/K)

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>700078</td>
<td>AHC88060</td>
<td>HYDAC</td>
<td>FSA-254-2.1/T/12, 10” Sight Glass with Thermometer</td>
</tr>
<tr>
<td>700040</td>
<td>AHC88045</td>
<td>HYDAC</td>
<td>FSA-127-1.1/T/12, 5” Sight Glass with Thermometer</td>
</tr>
</tbody>
</table>
**G1620 Series Sight Gauge - Closed Circuit**

The G1620 Series back-mount, closed-circuit sight gauges provide front viewing of the fluid level through a clear sight glass. Integral to the sight gauge is a thermometer contained within a white colored card for direct reading of the fluid temperature. The white colored card helps draw eye contact to the fluid level quickly.

**Features**
- Back mount
- Fluid level visible from front of gauge (.75 inches wide)
- Clear sight glass
- Card thermometer (5.00 inch and 10.00 inch centerline), dual scale 0° to 220°F and -20° to 110°C graduations
- Suitable for use with most hydraulic and machine lubricating oils
- 20 psi (138 kPa) maximum working pressure at 150°F (65°C)

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1620-05-A-1</td>
<td>AHC1660609</td>
<td>LDI Industries</td>
<td>ALGST, 5” Sight Glass with Thermometer</td>
</tr>
</tbody>
</table>

**BD Series Breathers**

**Features**
- Durable ABS plastic and impact-modified plexiglass
- 2 micron, 100% efficiency
- Airflow up to 100 scfm (750 gpm)

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2059436</td>
<td>AHC31727</td>
<td>HYDAC</td>
<td>0160MA016BN, 10 Micron Absolute Spin-on Breather, 1-1/2 SAE thread</td>
</tr>
<tr>
<td>2074253</td>
<td>AHC399045</td>
<td>HYDAC</td>
<td>BD 100 x 2 W 0.0 Drymicron, 2 Micron, 0.2 L Water Removal, A=3.5&quot;</td>
</tr>
<tr>
<td>2074254</td>
<td>AHC399047</td>
<td>HYDAC</td>
<td>BD 200 x 2 W 0.0 Drymicron, 2 Micron, 0.4 L Water Removal, A=5&quot;</td>
</tr>
<tr>
<td>2074465</td>
<td>AHC39126</td>
<td>HYDAC</td>
<td>BD 400 x 2 W 0.0 Drymicron, 2 Micron, 0.9 L Water Removal, A=8&quot;</td>
</tr>
<tr>
<td>2079076</td>
<td>AHC100850</td>
<td>HYDAC</td>
<td>Drymicron Bayonet Flange</td>
</tr>
<tr>
<td>2074251</td>
<td>AHC399043</td>
<td>HYDAC</td>
<td>Drymicron Bayonet Adapter</td>
</tr>
</tbody>
</table>
Top Mount Filler Breathers

Top-mount filler breathers protect your hydraulic systems from ingesting airborne particles. These breathers feature a large pleated surface area providing an exceptional dirt-holding capacity that extends the life of the breather and thus the length of time between servicing.

Features
- 3 micron and above filtration
- High-capacity air flow
- SAE bayonet flange adapter - any mating SAE bayonet flange adapter

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1306-4</td>
<td>AHC1846217</td>
<td>LDI Industries</td>
<td>5 Micron Breather (STD for 60 Gallon and Larger Reservoirs)</td>
</tr>
</tbody>
</table>

High Capacity Spin-On Adapters

Converts standard breather installation to accept a high efficiency spin-on air breather.

Features
- Anodized 6061 aluminum
- Absorption of very fine particles across a broad pressure differential range
- Flange adapter accepts 1 1/2-16 UN threaded spin-on filters and uses the same mounting bolt circle as Magnaloy filler breather screens and comes complete with mounting hardware and gaskets

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FBS-10816-F</td>
<td>AHC1653554</td>
<td>Magnaloy</td>
<td>Breather Adapter 1-1/2 SAE Thread to Fill Riser Flange</td>
</tr>
<tr>
<td>FBS-10816-104P</td>
<td>AHC1653553</td>
<td>Magnaloy</td>
<td>Breather Adapter 1-1/2 SAE Thread to 1-1/4&quot; NPT</td>
</tr>
</tbody>
</table>
**SFE Series In-Tank Suction Strainer Elements**

HYDAC suction strainer elements are designed for installation into suction lines of pumps. Extra caution should be taken to ensure that the suction elements are always mounted below the minimum oil level of the reservoir. The suction strainer elements can be supplied with a bypass valve to reduce high-pressure drops caused by contaminated elements or high-viscosity fluids during cold starting. The bypass valve opens at 3 psi for best results; suction strainer elements should be sized for clean-element pressure drops of no higher than 0.5 to 0.7 psi.

*Note: 4 Weeks ARO*

**Features**
- Stainless steel wire screen media
- Plastic nut cap
- Plated steel end cap and support tube

<table>
<thead>
<tr>
<th></th>
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<th></th>
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<tbody>
<tr>
<td>2057922</td>
<td>AHC911272</td>
<td>HYDAC</td>
<td>SFE25G125A1.0</td>
<td>100 Mesh</td>
<td>8</td>
<td>3/4&quot; NPT</td>
</tr>
<tr>
<td>2058638</td>
<td>AHC911384</td>
<td>HYDAC</td>
<td>SFE50G120A1.0</td>
<td>100 Mesh</td>
<td>10</td>
<td>1&quot; NPT</td>
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<tr>
<td>2058493</td>
<td>AHC91021</td>
<td>HYDAC</td>
<td>SFE80G125A1.0</td>
<td>100 Mesh</td>
<td>20</td>
<td>1-1/4&quot; NPT</td>
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<tr>
<td>2058839</td>
<td>AHC911385</td>
<td>HYDAC</td>
<td>SFE100G125A1.0</td>
<td>100 Mesh</td>
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<td>1-1/2&quot; NPT</td>
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<tr>
<td>2058410</td>
<td>AHC911358</td>
<td>HYDAC</td>
<td>SFE180G125A1.0</td>
<td>100 Mesh</td>
<td>50</td>
<td>2&quot; NPT</td>
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<tr>
<td>2056930</td>
<td>AHC911280</td>
<td>HYDAC</td>
<td>SFE280G125A1.0</td>
<td>100 Mesh</td>
<td>75</td>
<td>2-1/2&quot; NPT</td>
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<tr>
<td>2057930</td>
<td>AHC911280</td>
<td>HYDAC</td>
<td>SFE380G125A1.0</td>
<td>100 Mesh</td>
<td>100</td>
<td>3&quot; NPT</td>
</tr>
</tbody>
</table>

**All Steel Sump Strainer**

The all-steel sump strainer provides greater strength and has continuous epoxy-bonded joints that will not leak fluid around the element. They may be cleaned and used indefinitely.

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>P5-3/4-100</td>
<td>AHC1856139</td>
<td>Flow Ezy</td>
<td>Steel Strainer</td>
<td>100 Mesh</td>
<td>5</td>
<td>3/4&quot; NPT</td>
</tr>
<tr>
<td>P10-1-100</td>
<td>AHC1860768</td>
<td>Flow Ezy</td>
<td>Steel Strainer</td>
<td>100 Mesh</td>
<td>10</td>
<td>1&quot; NPT</td>
</tr>
<tr>
<td>P20-1-1/4-100</td>
<td>AHC1855700</td>
<td>Flow Ezy</td>
<td>Steel Strainer</td>
<td>100 Mesh</td>
<td>20</td>
<td>1-1/4&quot; NPT</td>
</tr>
<tr>
<td>P30-1-1/2-100</td>
<td>AHC1856137</td>
<td>Flow Ezy</td>
<td>Steel Strainer</td>
<td>100 Mesh</td>
<td>30</td>
<td>1-1/2&quot; NPT</td>
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<tr>
<td>P50-2-100</td>
<td>AHC1856138</td>
<td>Flow Ezy</td>
<td>Steel Strainer</td>
<td>100 Mesh</td>
<td>50</td>
<td>2&quot; NPT</td>
</tr>
<tr>
<td>P75-2-1/2-100</td>
<td>AHC1856140</td>
<td>Flow Ezy</td>
<td>Steel Strainer</td>
<td>100 Mesh</td>
<td>75</td>
<td>2-1/2&quot; NPT</td>
</tr>
<tr>
<td>P100-3-100</td>
<td>AHC1856133</td>
<td>Flow Ezy</td>
<td>Steel Strainer</td>
<td>100 Mesh</td>
<td>100</td>
<td>3&quot; NPT</td>
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</tbody>
</table>
## Accessories

### PumpMate Magnetic Filter

The Magnom PumpMate magnetic filter (magnetic suction strainer) is specifically designed to protect hydraulic pumps on the suction side, inside the tank (reservoir).

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr. Description</th>
<th>Port Size</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>555103002</td>
<td>AHC1659334</td>
<td>Magnom PM07603SU3/4NPT</td>
<td>3/4&quot; NPT</td>
<td>140 Grams</td>
</tr>
<tr>
<td>555103005</td>
<td>AHC1659335</td>
<td>Magnom PM07603SU1NPT</td>
<td>1&quot; NPT</td>
<td>140 Grams</td>
</tr>
<tr>
<td>555103008</td>
<td>AHC1659336</td>
<td>Magnom PM07603SU1 1/4NPT</td>
<td>1-1/4&quot; NPT</td>
<td>140 Grams</td>
</tr>
<tr>
<td>555103011</td>
<td>AHC1659337</td>
<td>Magnom PM11003SU1 1/2NPT</td>
<td>1-1/2&quot; NPT</td>
<td>200 Grams</td>
</tr>
<tr>
<td>555103014</td>
<td>AHC1659338</td>
<td>Magnom PM11003SU2NPT</td>
<td>2&quot; NPT</td>
<td>200 Grams</td>
</tr>
<tr>
<td>555103020</td>
<td>AHC1659339</td>
<td>Magnom PM16703SU3NPT</td>
<td>3&quot; NPT</td>
<td>400 Grams</td>
</tr>
</tbody>
</table>

### Level Switch

The Add-A-Switch® filler-breather system consists of an oil filler-breather and screen, a raised-reservoir mounting adapter and a choice of oil-level switch and oil temperature switch options which can be combined as desired, and includes the necessary switch mounting and installation hardware.

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr. Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASW-1120</td>
<td>AHC1656693</td>
<td>Hayco Stainless Steel Level Switch, 1&quot; Float, SPST</td>
</tr>
<tr>
<td>ASW-1070-140F</td>
<td>AHC1656692</td>
<td>Hayco Level/Tmp Switch, 140°F</td>
</tr>
</tbody>
</table>

### 4000 Series Level Switch

Uniquely monitors fluid level and temperature in a single control assembly.

**Features**

- Field-adjustable level switch
- Temperature switch 1°C repeatability, 5°C accuracy
- Up to 15 ampere heavy-duty switch

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B40033AFD2M708</td>
<td>AHC1653233</td>
<td>ACT</td>
<td>B40033AFD2M708, Old # B4032N-70-N-NO, Level N0, TEMP NC 158°F Combo Switch, 6 amp Temp, Switch Set NC</td>
</tr>
</tbody>
</table>
Temperature Switch

The 54 Series offers the OEM a combination of reliable performance and low cost. It has been field-proven in a wide variety of OEM applications, including medical, laboratory, fire protection and heating equipment.

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr. Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B54-103-W141</td>
<td>AHC1659723</td>
<td>United Electric Controls B54103W141 (Old # B541039040/WITHWELL) Temp Switch with Well 0-225°F, SPDT</td>
</tr>
</tbody>
</table>

Features
- Accuracy: ±1.5% of span
- Both psi and bar scales
- Connection: 1/4" NPT male
- Stainless steel case
- Ring: polished SS, crimped
- Wetted parts: copper alloy
- Window: polycarbonate
- Liquid Filling: glycerine

2 1/2" Face - 1/4" NPT Connection Gauges

*Note: 4 Weeks ARO

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr. Description</th>
<th>Pressure</th>
<th>Part Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>2701547</td>
<td>AHC105523</td>
<td>HYDAC HPG-63-1000-LM, Pressure Gauge</td>
<td>0-1000 psi (0-70 BAR)</td>
<td>1/4&quot; NPT</td>
</tr>
<tr>
<td>2701548</td>
<td>AHC105524</td>
<td>HYDAC HPG-63-1500-LM, Pressure Gauge</td>
<td>0-1500 psi (0-100 BAR)</td>
<td>1/4&quot; NPT</td>
</tr>
<tr>
<td>2701549</td>
<td>AHC105525</td>
<td>HYDAC HPG-63-2000-LM, Pressure Gauge</td>
<td>0-2000 psi (0-140 BAR)</td>
<td>1/4&quot; NPT</td>
</tr>
<tr>
<td>2701550</td>
<td>AHC105526</td>
<td>HYDAC HPG-63-3000-LM, Pressure Gauge</td>
<td>0-3000 psi (0-210 BAR)</td>
<td>1/4&quot; NPT</td>
</tr>
<tr>
<td>2701551</td>
<td>AHC105527</td>
<td>HYDAC HPG-63-5000-LM, Pressure Gauge</td>
<td>0-5000 psi (0-350 BAR)</td>
<td>1/4&quot; NPT</td>
</tr>
</tbody>
</table>
### CF Series Gauges

**Features**
- Stainless steel case & bezel
- Phospher bronze bourdon tube
- Vacuum to 10,000 psi range
- Dual scale psi & bar (KPA referenced)
- Accuracy ± 1.6% FSD
- Temperature range -40º to 180º F
- SAE 7/16-20 bronze connection

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr. Description</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>CF1P007A-SAE</td>
<td>AHC1655897</td>
<td>Dynamic Fluid Components Pressure Gauge 0-100 psi (0-7 BAR)</td>
<td></td>
</tr>
<tr>
<td>CF1P010A-SAE</td>
<td>AHC1655898</td>
<td>Dynamic Fluid Components Pressure Gauge 0-160 psi (0-10 BAR)</td>
<td></td>
</tr>
<tr>
<td>CF1P020A-SAE</td>
<td>AHC1655899</td>
<td>Dynamic Fluid Components Pressure Gauge 0-300 psi (0-20 BAR)</td>
<td></td>
</tr>
<tr>
<td>CF1P035A-SAE</td>
<td>AHC1655900</td>
<td>Dynamic Fluid Components Pressure Gauge 0-500 psi (0-35 BAR)</td>
<td></td>
</tr>
<tr>
<td>CF1P070A-SAE</td>
<td>AHC1655901</td>
<td>Dynamic Fluid Components Pressure Gauge 0-1000 psi (0-70 BAR)</td>
<td></td>
</tr>
<tr>
<td>CF1P100A-SAE</td>
<td>AHC1655902</td>
<td>Dynamic Fluid Components Pressure Gauge 0-1500 psi (0-100 BAR)</td>
<td></td>
</tr>
<tr>
<td>CF1P140A-SAE</td>
<td>AHC1927276</td>
<td>Dynamic Fluid Components Pressure Gauge 0-2000 psi (0-140 BAR)</td>
<td></td>
</tr>
<tr>
<td>CF1P210A-SAE</td>
<td>AHC1655920</td>
<td>Dynamic Fluid Components Pressure Gauge 0-3000 psi (0-210 BAR)</td>
<td></td>
</tr>
<tr>
<td>CF1P350A-SAE</td>
<td>AHC1655903</td>
<td>Dynamic Fluid Components Pressure Gauge 0-5000 psi (0-350 BAR)</td>
<td></td>
</tr>
</tbody>
</table>

### 900 Series ABS & Stainless Steel Case Gauges

**Features**
- High-quality liquid filled gauge
- Vacuum and compound ranges through 0 psi to 15,000 psi
- 1-1/2", 2", 2-1/2" and 4" gauge sizes
- Impact-resistant ABS and stainless steel case
- Copper alloy and brass wetted parts

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr. Description</th>
<th>Pressure</th>
<th>Port Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>25-901-1500-psi</td>
<td>AHC1712773</td>
<td>NOSHOK 0-1500 PSI Liquid-Filled Pressure Gauge</td>
<td>0-1500 psi (0-100 BAR)</td>
<td>1/4&quot; NPT</td>
</tr>
<tr>
<td>25-901-2000-psi</td>
<td>AHC1836778</td>
<td>NOSHOK 0-2000 PSI Liquid-Filled Pressure Gauge</td>
<td>0-2000 psi (0-140 BAR)</td>
<td>1/4&quot; NPT</td>
</tr>
<tr>
<td>25-901-3000-psi</td>
<td>AHC1712812</td>
<td>NOSHOK 0-3000 PSI Liquid-Filled Pressure Gauge</td>
<td>0-3000 psi (0-210 BAR)</td>
<td>1/4&quot; NPT</td>
</tr>
<tr>
<td>25-901-3000-psi/KPA-AIRLIN</td>
<td>AHC1712805</td>
<td>NOSHOK 0-3000 PSI Liquid-Filled Pressure Gauge with Airline Logo</td>
<td>0-3000 psi (0-210 BAR)</td>
<td>SAE#4</td>
</tr>
</tbody>
</table>
MA Series Single Gauge Isolator

Features
- Gauge life is extended by using the MA Series isolator when reading pressure. When not reading pressure, the gauge is vented to tank to protect the gauge against pressure from the system.
- There are two ways to operate the MA Series isolator: Push to read (spring return) Push and rotate clockwise to lock in for Cont. Pressure reading
- Mounting: Panel installation maximum 0.39”
- Connections: 1/4” NPT, SAE-5, or G1/4 (Ports M, P, T)
- Weight: 0.88 lbs./0.4 kg
- Horizontal or vertical mounting position
- Operating Fluid: Mineral Oils
- Operating Pressure: P max. 5075 psi/350 bar (T-Port max. 145 psi/10 bar)
- Temp. Range: -4° to 176°F (-20° to 80°C)

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2057941</td>
<td>AHC91290</td>
<td>HYDAC</td>
<td>MA1A1.0/12V, Gauge Isolator, Pus-to-Read, SAE 4</td>
</tr>
<tr>
<td>2057940</td>
<td>AHC91289</td>
<td>HYDAC</td>
<td>MA1A1.0/12V, Gauge Isolator, Pus-to-Read, 1/4” NPT</td>
</tr>
</tbody>
</table>

Inline Gauge Snubbers

DMIC’s snubbers extend gauge life expectancy and facilitate readings by damping pulsations.

Features
- SAE/NPT.N-S hybrid thread
- 1/4” thread standard

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DMGSSMS41</td>
<td>AHC1655687</td>
<td>DMIC</td>
<td>DMGSSMS41, Gauge Snubber, SAE 4 Female x SAE 4 Male</td>
</tr>
</tbody>
</table>

Adjustable Gauge Snubber

Features
- Snubbers with a male SAE thread are adjustable allowing the knob to be pointed in any direction
- Zero leakage at shutoff
- Gauge snubber backup seals are "PTFE" (Teflon®, product of E. I. DuPont Co.)
- Material: 303 and 416 stainless. Knobs are glass-filled nylon

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSABKXVHS</td>
<td>AHC1683620</td>
<td>Sun Hydraulics</td>
<td>Gauge Shutoff Valve, SAE 4 Female x SAE 4 Male</td>
</tr>
</tbody>
</table>
AEV Series Automatic Air Vent Valves

The HYDAC air vent valve eliminates air bubbles which accumulate in hydraulic systems immediately after start-up or after long periods of shut-down of the system. The air vent valve remains open until the valve reaches a 45 psi differential pressure. Pressure must be maintained above 45 psi to keep valve closed. This type of operation of the HYDAC air vent valve allows for easy start-up of hydraulic systems. Due to the compact design the air vent valve requires minimum space.

Features
- Operating pressure range: P min 43 psi (3 bar), P max 8700 psi (600 bar)
- Material: carbon steel
- Operating flow range: Q min 0.25 gpm (1 l/min) , Q max 15 gpm (57 l/min)

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>230229</td>
<td>AHC84858</td>
<td>HYDAC</td>
<td>AEV6/S, Air Bleed, 1/4&quot; NPT</td>
</tr>
</tbody>
</table>

1620 Series Test Points & Micro Bore Flex Hoses

HYDAC series 1620, guided piston design, test points are compact, self sealing couplings that provide access to hydraulic and pneumatic systems for pressure measurement to 9000 psi. Mating adapters or hose connections can be connected without loss of fluid while the system is operating. Test points can also be used to take oil samples or to bleed air from hydraulic systems. They are available in 1620 (M16x2.0) connection threads with a variety of screw-in port configurations.

Features
- Can be coupled and uncoupled under pressure without system shutdown or fluid loss
- Patented guided piston design for leak-free performance at operating pressure to 9000 psi

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6003735</td>
<td>AHC106562</td>
<td>HYDAC</td>
<td>Pressure Test Point with Metal Cap, SAE-4</td>
</tr>
<tr>
<td>6003737</td>
<td>AHC106563</td>
<td>HYDAC</td>
<td>Pressure Test Point with Metal Cap, SAE-6</td>
</tr>
<tr>
<td>6003769</td>
<td>AHC106567</td>
<td>HYDAC</td>
<td>Direct Gauge Adapter, 1/4 NPT Gauge Connection</td>
</tr>
<tr>
<td>6003768</td>
<td>AHC106566</td>
<td>HYDAC</td>
<td>Hose to Gauge Adapter, 1/4 NPT Gauge Connection</td>
</tr>
<tr>
<td>6003726</td>
<td>AHC106553</td>
<td>HYDAC</td>
<td>Micro Bore Test Hose, 9000 psi rated, 24.8&quot; Length</td>
</tr>
<tr>
<td>632654</td>
<td>AHC87946</td>
<td>HYDAC</td>
<td>Micro Bore Test Hose, 9000 psi rated, 35&quot; Length</td>
</tr>
<tr>
<td>682859</td>
<td>AHC88020</td>
<td>HYDAC</td>
<td>Micro Bore Test Hose, 9000 psi rated, 79&quot; Length</td>
</tr>
</tbody>
</table>
CD Series High-Pressure Switches

Features
- Long-life elastomer diaphragm (ranges 1 - 3)
- Proven sealed piston sensor (ranges 4 - 8)
- High-quality snap action switch
- Field adjustable
- Easily customized
- NEMA 4, 13

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD-11C4-200UJ/HR</td>
<td>AHC1893263</td>
<td>Nason</td>
<td>Pressure Switch, NEMA 4 &amp; 13, 5 Amp @ 250 VAC, SPDT, -6 SAE Male, DIN Connection</td>
<td>100-400 psi</td>
</tr>
<tr>
<td>CD-11C5-750UJ/HR</td>
<td>AHC1890238</td>
<td>Nason</td>
<td>Pressure Switch, NEMA 4 &amp; 13, 5 Amp @ 250 VAC, SPDT, -6 SAE Male, DIN Connection</td>
<td>250-1000 psi</td>
</tr>
<tr>
<td>CD-11C6-1200UJ/HR</td>
<td>AHC1873715</td>
<td>Nason</td>
<td>Pressure Switch, NEMA 4 &amp; 13, 5 Amp @ 250 VAC, SPDT, -6 SAE Male, DIN Connection</td>
<td>500-2000 psi</td>
</tr>
<tr>
<td>CD-11C7-3000UJ/HR</td>
<td>AHC1834918</td>
<td>Nason</td>
<td>Pressure Switch, NEMA 4 &amp; 13, 5 Amp @ 250 VAC, SPDT, -6 SAE Male, DIN Connection</td>
<td>1200-4500 psi</td>
</tr>
</tbody>
</table>

Barksdale

Series 96201 Pressure Switch

The series 96201 pressure switches offer a durable and versatile solution to your pressure control problems in a compact, economical package. A wide range of factory options is available in plastic, brass or stainless steel, allowing the switch to be custom configured to the exact needs of your application. With the addition of an optional conduit connector, the switch becomes watertight and bears a NEMA 4 rating. The addition of optional DIN electrical connector allows for ease of installation and maintenance. Designed to control pressures from vacuum up to 7500 psi, the series 96201 pressure switches are an outstanding choice to meet your demanding industrial applications.

Features
- Compact size
- Low & high pressures including vacuum
- Extremely versatile
- Optional DIN and conduit connectors
- NEMA 1 & 4; IP65
- Single-pole, double-throw, snap-action switching
- Factory preset or field adjustable

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>96201-BB3-T2-P1</td>
<td>AHC1856040</td>
<td>Barksdale</td>
<td>Pressure Switch, NEMA 4, 5 Amp SPDT, 1/4” NPT, Din Connection</td>
<td>1450-4400 psi</td>
</tr>
</tbody>
</table>
HDA 4700 Series High Pressure Transducer

The pressure transmitter series HDA 4700 has a very accurate and robust sensor cell with a thin-film strain gauge on a stainless steel membrane. The output signals 4 to 20 mA or 0 to 10 V allow for all HYDAC electronic measurement and control devices, as well as standard evaluation systems (e.g. PLC controls), to be connected. The main areas of application are in the mobile or industrial sectors of hydraulics and pneumatics, particularly in applications with restricted installation space.

Features
- Accuracy = ±0.25% BFSL
- Highly robust sensor cell
- Very small temperature error
- Excellent EMC characteristics
- Very compact design
- Excellent price / performance ratio

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Pressure</th>
</tr>
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<tbody>
<tr>
<td>907194</td>
<td>AHC88783</td>
<td>HYDAC</td>
<td>HDA4775B1000000, SAE 6, DIN 43650 Connector, 3 Conductor, 0-10 VDC</td>
<td>1000 psi</td>
</tr>
<tr>
<td>907195</td>
<td>AHC88785</td>
<td>HYDAC</td>
<td>HDA4775B1000000, SAE 6, DIN 43650 Connector, 3 Conductor, 0-10 VDC</td>
<td>1500 psi</td>
</tr>
<tr>
<td>907196</td>
<td>AHC88787</td>
<td>HYDAC</td>
<td>HDA4775B1000000, SAE 6, DIN 43650 Connector, 3 Conductor, 0-10 VDC</td>
<td>3000 psi</td>
</tr>
<tr>
<td>907197</td>
<td>AHC88788</td>
<td>HYDAC</td>
<td>HDA4775B1000000, SAE 6, DIN 43650 Connector, 3 Conductor, 0-10 VDC</td>
<td>5000 psi</td>
</tr>
</tbody>
</table>

Diesel Filtration and Water Removal

New fuel/water separation media technology in a three-phase element construction for highly efficient, single-pass removal of free-water in Ultra-Low Sulfur Diesel (ULSD) and biodiesel fuels. (Prior generation coalescing products no longer provide high-efficiency separation in ULSD & biofuels.)

Diesel Precare HDP 1.5 GPM or 2.6 GPM
Bulk Diesel Carts 14 and 25 GPM
Bulk Diesel Skid 70 GPM

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Ask your local Airline sales engineer how your application can benefit from this technology.

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**PD & BG Series Planetary Hoists**

The BG and PD series planetary winches are high-performance products designed to provide many years of service.

**Features**
- Multi-disc brake-spring applied and hydraulically released
- Anti-friction bearings for maximum efficiency
- Multi-stage planetary reduction

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Line Pull</th>
<th>Reel Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>4980</td>
<td>AHC1992042</td>
<td>Braden PD15B-41051-05-1</td>
<td>13,400 lbs. @ 3,000 psi</td>
<td>224 Ft./Min. @ 75 gpm</td>
<td></td>
</tr>
<tr>
<td>5674</td>
<td>AHC2010773</td>
<td>Braden PD12C-SPL-59039-02</td>
<td>12,000 lbs. @ 2,400 psi</td>
<td>161 Ft./Min. @ 65 gpm</td>
<td></td>
</tr>
<tr>
<td>5677</td>
<td>AHC1669777</td>
<td>Braden PD12C-SPL-41039-02</td>
<td>10,540 lbs. @ 3,000 psi</td>
<td>226 Ft./Min. @ 65 gpm</td>
<td></td>
</tr>
<tr>
<td>5030</td>
<td>AHC1929006</td>
<td>Braden BG8B-59020-01</td>
<td>8,000 lbs. @ 2,920 psi</td>
<td>145 Ft./Min. @ 35 gpm</td>
<td></td>
</tr>
<tr>
<td>5318</td>
<td>AHC1913812</td>
<td>Braden BG8B-29039-01</td>
<td>6,000 lbs. @ 1,970 psi</td>
<td>92 Ft./Min. @ 27 gpm</td>
<td></td>
</tr>
<tr>
<td>5654</td>
<td>AHC1910477</td>
<td>Braden BO48-0S119-01</td>
<td>4,000 lbs. @ 2,260 psi</td>
<td>133 Ft./Min. @ 20 gpm</td>
<td></td>
</tr>
<tr>
<td>5618</td>
<td>AHC1910476</td>
<td>Braden BO3B-05080-01</td>
<td>3,000 lbs. @ 2,490 psi</td>
<td>140 Ft./Min. @ 15 gpm</td>
<td></td>
</tr>
</tbody>
</table>

**H & PL Series Planetary Hoists**

High-performance, high-efficiency planetary winches offering equal speed in both directions. Ideal for hoisting and lowering applications.

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Line Pull</th>
<th>Reel Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>H123971</td>
<td>AHC1680920</td>
<td>Pullmaster H12-3-97-1, High Speed Reverse Winch</td>
<td>12,121 lbs. @ 2,200 psi</td>
<td>104/449 Ft./Min. @ 50 gpm</td>
<td></td>
</tr>
<tr>
<td>H83301</td>
<td>AHC1680924</td>
<td>Pullmaster H8-3-30-1, High Speed Reverse Winch</td>
<td>8,500 lbs. @ 2,000 psi</td>
<td>116/502 Ft./Min. @ 37 gpm</td>
<td></td>
</tr>
<tr>
<td>PL5122101</td>
<td>AHC1680928</td>
<td>Pullmaster PL5-12-210-1</td>
<td>4,500 lbs. @ 2,100 psi</td>
<td>135 Ft./Min. @ 24 gpm</td>
<td></td>
</tr>
</tbody>
</table>

Shop online at www.airlinehyd.com
**Mobile & Marine**

**SD Series Sectional Valves with Cylinder & Motor Spools**

Sections modularity, parallel, series and tandem circuit possibility, port service valve prearrangement, and adjustable regulating flow and pressure intermediate sections. These features let Walvoil sectional valves offer the right flexibility in a high technology system.

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr. Description</th>
<th>Flow (gpm)</th>
<th>Pressure (psi)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD6/1/AC(YG3-120)/18L/RC-SAE</td>
<td>AHC2218260</td>
<td>Walvoil A&amp;B Blocked, P&amp;T Connected, Handle Operated, Spring Centered, Adjustable Relief</td>
<td>12</td>
<td>4600</td>
</tr>
<tr>
<td>SDS150/1/AC(YG-125)/18L/RC-SAE</td>
<td>AHC2218263</td>
<td>Walvoil A&amp;B Blocked, P&amp;T Connected, Handle Operated, Spring Centered, Adjustable Relief</td>
<td>24</td>
<td>4600</td>
</tr>
<tr>
<td>SDS180/1/AC(YG3-120)/18L/RC-SAE</td>
<td>AHC1944470</td>
<td>Walvoil A&amp;B Blocked, P&amp;T Connected, Handle Operated, Spring Centered, Adjustable Relief</td>
<td>42</td>
<td>4600</td>
</tr>
<tr>
<td>SD25/1/AC(YG-125)/18L/RC-SAE</td>
<td>AHC1992076</td>
<td>Walvoil A&amp;B Blocked, P&amp;T Connected, Handle Operated, Spring Centered, Adjustable Relief</td>
<td>63</td>
<td>4600</td>
</tr>
<tr>
<td>SD6/1/AC(YG3-120)/28L/RC-SAE</td>
<td>AHC2218264</td>
<td>Walvoil A, B, &amp; P to Tank in Neutral, Handle Operated, Spring Centered, Adjustable Relief</td>
<td>12</td>
<td>4600</td>
</tr>
<tr>
<td>SDS150/1/AC(YG-125)/28L/RC-SAE</td>
<td>AHC2218266</td>
<td>Walvoil A, B, &amp; P to Tank in Neutral, Handle Operated, Spring Centered, Adjustable Relief</td>
<td>24</td>
<td>4600</td>
</tr>
<tr>
<td>SDS180/1/AC(YG3-120)/28L/RC-SAE</td>
<td>AHC1951517</td>
<td>Walvoil A, B, &amp; P to Tank in Neutral, Handle Operated, Spring Centered, Adjustable Relief</td>
<td>42</td>
<td>4600</td>
</tr>
<tr>
<td>SD25/1/AC(YG-125)/28L/RC-SAE</td>
<td>AHC2109969</td>
<td>Walvoil A, B, &amp; P to Tank in Neutral, Handle Operated, Spring Centered, Adjustable Relief</td>
<td>63</td>
<td>4600</td>
</tr>
</tbody>
</table>

**HÉCO GEAR**

**Series 16 Planetary Gear Drive**

Heco speed reducers are matched with a low-speed, high-torque hydraulic motor (LSHT) to increase the available torque output while decreasing its output speed. Large hydraulic motors can be replaced with smaller motors and a Heco reducer, resulting in most cases, an increase in usable torque. Bearingless motors are commonly used with Heco reducers.

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HECO 16CF145</td>
<td>AHC1656703</td>
<td>HECO</td>
<td>HECO 16CF145 Planetary Gear Drive</td>
</tr>
<tr>
<td>HECO 18FF145</td>
<td>AHC1656708</td>
<td>HECO</td>
<td>HECO 18FF145 Planetary Gear Drive</td>
</tr>
</tbody>
</table>

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Featuring a comprehensive line of hydraulic components & services:

- Hydraulic Winches
- Engine Starter Systems
- ZF Mathers Pneumatic & Electric Marine Controls
- Rexroth Full Line Hydraulic & Pneumatic Components
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Kobelt offers control and steering systems for managing propulsion and steering on marine vessels or for actuating movement or functionality on oil rigs, industrial equipment or machinery.

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2046KY</td>
<td>AHC172398</td>
<td>Kobelt</td>
<td>Kobelt 2046-KY Single Engine Cable Control</td>
</tr>
<tr>
<td>2046KU</td>
<td>AHC1671281</td>
<td>Kobelt</td>
<td>Kobelt 2046KU Single Engine Control Head</td>
</tr>
<tr>
<td>6652</td>
<td>AHC1671285</td>
<td>Kobelt</td>
<td>Kobelt 6652 Dual Engine Control Head</td>
</tr>
<tr>
<td>900003979T</td>
<td>AHC1673281</td>
<td>Kobelt</td>
<td>Kobelt 7005BL Helm Unit</td>
</tr>
</tbody>
</table>

2TH6 Single-Axis Hydraulic Pilot Controllers

Hydraulic pilot control units of the type 2TH6 operate on the basis of direct-operated, pressure-reducing valves. Pressure in the relevant control port is proportional to the stroke of the control lever. This pressure control, as a function of the control lever position and the characteristics of the control spring enables the proportional hydraulic control of directional valves and high-response control valves for hydraulic pumps and motors.

**Features**
- Precise and play-free control characteristics
- Low actuation force at the lever
- Rust-free plunger
- Stackable single-axis controllers, up to 6 controllers in one assembly
- Lever operator available: “L” spring center, “P” friction detent, or “M” 3-position detent

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R907225176</td>
<td>AHC1615125</td>
<td>Bosch Rexroth</td>
<td>1-2 TH6 L 06-10/M 05</td>
</tr>
<tr>
<td>R908352025</td>
<td>AHC1954508</td>
<td>Bosch Rexroth</td>
<td>1-2 TH6 L 97-10/M 05</td>
</tr>
<tr>
<td>R978728584</td>
<td>AHC1910017</td>
<td>Bosch Rexroth</td>
<td>1-2 TH6 M 06-10/M 05</td>
</tr>
<tr>
<td>R907225383</td>
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<td>1-2 TH6 M 97-10/M 05</td>
</tr>
<tr>
<td>R908352026</td>
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<tr>
<td>R908352027</td>
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<td>1-2TH6L06-1X/M05 S0418</td>
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<td>AHC2218254</td>
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</table>
4TH6 Hydraulic Pilot Control Unit for Armrests

Hydraulic 4-port pilot controller with joystick actuation. Accurate and smooth actuator control provides linear output for optimum machine control. Robust ergonomic joystick handle featuring double and single contact thumb rocker switch and one single contact trigger rocker switch for control of electrical on/off auxiliary control devices.

Features
- Progressive, sensitive operation
- Low actuation forces
- Several ergonomic grips with various E contacts
- All connections point downwards

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
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<td>R907229581</td>
<td>AHC2078724</td>
<td>Bosch Rexroth</td>
<td>4TH6E06-1X/M123/M05</td>
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</table>

BODAS RC Controllers

The BODAS controllers RC are used for the programmable control of proportional solenoids and additional switching functions. They can therefore be used for both simple and complex open- or closed-loop controls, e.g. for hydrostatic travel drives, working hydraulics or transmission control in mobile working machines. BODAS controllers RC were specially developed for use in mobile working machines, and satisfy the relevant safety requirements with regard to ambient temperature, moisture, resistance to shock and vibration, as well as electromagnetic compatibility (EMC).

Features
- Component of BODAS system for mobile applications
- Robust design meeting specifications for mobile applications
- High electromagnetic compatibility (EMC)
- Inputs and outputs with fault detection
- Safety features such as redundant inputs and central safety cut-off for all outputs
- Pulse-width-modulated (PWM) solenoid currents for minimum hysteresis
- Closed-loop control of solenoid currents, i.e. not dependent on voltage and temperature
- Sturdy, sealed aluminum housing

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
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<td>RC2-2/21 (un-programmed)</td>
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<tr>
<td>R917008015</td>
<td>AHC2088267</td>
<td>Bosch Rexroth</td>
<td>RC4-5/30 (un-programmed)</td>
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<tr>
<td>R917008181</td>
<td>AHC1948098</td>
<td>Bosch Rexroth</td>
<td>RC12-10/30 (un-programmed)</td>
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<tr>
<td>R917007883</td>
<td>AHC2078213</td>
<td>Bosch Rexroth</td>
<td>RC28-14/30 (un-programmed)</td>
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</table>
BODAS Tools

The BODAS-service PC software tool provides a convenient and user-friendly method of executing service functions for BODAS controllers from Rexroth. Parameters can be displayed and edited, process variables displayed, and their values graphically plotted and recorded. In addition, error messages and configurable diagnostics are provided.

Features

- User-friendly Windows user interface, freely configurable work flow and online help
- Simultaneous display of multiple parameters for modification settings
- Simultaneous display of multiple process variables in graphical or numeric form
- Printout of all settings and process variables for documentation purposes
- Clear and easy-to-understand display of error messages
- Easy-to-use data logger: save measured values (process variables and parameters) to the hard disk
- Selectable and expandable program language
- Adjustable device language (relevant to controller data, up to 4 languages available)
- Diagnosis configurations for simplified troubleshooting

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
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<tbody>
<tr>
<td>R902045960</td>
<td>AHC1834490</td>
<td>Bosch Rexroth</td>
<td>Flash Adapter FA1/10</td>
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<tr>
<td>R902109416</td>
<td>AHC1610896</td>
<td>Bosch Rexroth</td>
<td>BODAS Service Tool Full</td>
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<tr>
<td>R909831291</td>
<td>AHC1623918</td>
<td>Bosch Rexroth</td>
<td>BODAS Service Diagnostic Connector</td>
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<tr>
<td>R902109422</td>
<td>AHC1610906</td>
<td>Bosch Rexroth</td>
<td>BODAS Cable</td>
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</table>

BODAS Display

The BODAS display DI3 series offers freely configurable and high-resolution VGA color displays with powerful, integrated 32-bit graphics processor for use in mobile working machines. These can be used for displaying alphanumeric elements, process variables and operating states, as well as static and dynamic graphic elements, such as pointer instrument and menus. Additional features for DI3 video include two video inputs and voltage supply for video sources, as well as picture-in-picture display.

- Bright, high-contrast 6.5” VGA 640 x 480 pixel color display
- Powerful 32-bit graphics processor
- Ergonomic design
- 2X CAN bus interface 2.0A or 2.0B (configurable)
- Case designed for stand-alone mounting or for integration in the control panel
- Graphic display configuration tool for quick and flexible development of screen content
- Flash programmed through CAN bus
- Integrated real-time clock

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
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<th>Mfr.</th>
<th>Description</th>
</tr>
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<td>R978730445</td>
<td>AHC2217867</td>
<td>Bosch Rexroth</td>
<td>DI3 Interconnection Kit</td>
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<tr>
<td>R902109505</td>
<td>AHC1611031</td>
<td>Bosch Rexroth</td>
<td>DI3 Display Series 10</td>
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<tr>
<td>R91708412</td>
<td>AHC2218255</td>
<td>Bosch Rexroth</td>
<td>DI3 Display Series 11 (2 ch. Video)</td>
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<tr>
<td>R91708411</td>
<td>AHC2218258</td>
<td>Bosch Rexroth</td>
<td>DI3 Display Series 11 (no video)</td>
</tr>
<tr>
<td>R900877038</td>
<td>AHC2062357</td>
<td>Bosch Rexroth</td>
<td>DI3 Mating Connector</td>
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</table>
SSV Divider Valves

The SSV divider valve is the “heart” of a manual or automated Quicklub system. Featuring from six to 22 outlets, the SSV valve is available in carbon steel and 303 stainless steel for corrosive environments. Valves are available with cycle indicator pins to provide visual indication of system operation.

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
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<th>Mfr. Description</th>
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<tbody>
<tr>
<td>619-27122-1</td>
<td>AHC1658132</td>
<td>Lincoln MET.DEV. SSV 6-K-A</td>
</tr>
<tr>
<td>619-26646-2</td>
<td>AHC1658122</td>
<td>Lincoln MET.DEV. SSV 8-K-A</td>
</tr>
<tr>
<td>619-26645-2</td>
<td>AHC1658129</td>
<td>Lincoln MET.DEV. SSV 10-K-A</td>
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<tr>
<td>619-26648-2</td>
<td>AHC1658123</td>
<td>Lincoln MET.DEV. SSV 12-K-A</td>
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<td>619-28900-1</td>
<td>AHC1658135</td>
<td>Lincoln MET.DEV. SSV 14-K-A</td>
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<td>619-28901-1</td>
<td>AHC1658137</td>
<td>Lincoln MET.DEV. SSV 16-K-A</td>
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<td>619-28902-1</td>
<td>AHC1925914</td>
<td>Lincoln MET.DEV. SSV 20-K-A</td>
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<tr>
<td>619-77254-1</td>
<td>AHC2017727</td>
<td>Lincoln MET.DEV. SSV 22-K-A</td>
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</table>

P203 Electric Grease Pump

These pumps are electrically operated and are used in progressive-type automated lubrication systems. The proven and reliable P203 pump has been designed to develop high operating pressures allowing it to supply NLGI #2 grease in most ambient temperatures. Versatile, compact and economical, this pump can be enhanced with several options including an integrated controller, low-level monitoring and system monitoring.

**Features**

- Output/min. per element: .171 cu. in. / 2.8 cc
- Lubricant outlet: 1/8” NPT (F)
- Max. system operating pressure: 5000 psig / 350 bar
- Enclosure rating: IP6K9K
- Operating temperature range: min. -13°F / -25°C / max. 158°F / 70°C
- Reservoir fill method: by grease fitting
- Pressure relief valve: 4000 psi, +/- 250 psi / 276 bar, +/- 17 bar

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr. Description</th>
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</thead>
<tbody>
<tr>
<td>94012</td>
<td>AHC1658650</td>
<td>Lincoln 12V, 2 Litre, with Integrated On/Off Timer</td>
</tr>
<tr>
<td>94412LDL</td>
<td>AHC1658655</td>
<td>Lincoln 12V, 4 Litre, without Lid, with Integrated On/Off Timer</td>
</tr>
<tr>
<td>94812LDL</td>
<td>AHC1658660</td>
<td>Lincoln 12V, 8 Litre, without Lid, with Integrated On/Off Timer</td>
</tr>
<tr>
<td>94424</td>
<td>AHC1658657</td>
<td>Lincoln 24V, 4 Litre, with Integrated On/Off Timer</td>
</tr>
<tr>
<td>94824LDL</td>
<td>AHC1658664</td>
<td>Lincoln 24V, 8 Litre, without Lid, with Integrated On/Off Timer</td>
</tr>
<tr>
<td>94222</td>
<td>AHC1658652</td>
<td>Lincoln 24VDC-2L-LO LEV = MICRO, with LL Sensor &amp; Integrated Controller for Feedback</td>
</tr>
<tr>
<td>94822</td>
<td>AHC2065369</td>
<td>Lincoln 24VDC-8L-LO LEV = MICRO, with LL Sensor &amp; Integrated Controller for Feedback</td>
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<tr>
<td>94822LDL</td>
<td>AHC1658662</td>
<td>Lincoln 24VDC-8L-LO LEV = MICRO w/o lid, with LL Sensor &amp; Integrated Controller for Feedback</td>
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<tr>
<td>94823LDL</td>
<td>AHC1892169</td>
<td>Lincoln P203-8XL-1K6-24-2A10.18-MS08, with RemoteLinc Technology</td>
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<tr>
<td>644-46174-2</td>
<td>AHC1658173</td>
<td>Lincoln P203-8XLBO-1K6-AC-2A1.01-V10-UL, AC Pump with Integrated On/Off Timer</td>
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## Quicklub Pump Accessories, Fittings, Adapters & Installation Components

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>249520</td>
<td>AHC1657612</td>
<td>Lincoln</td>
<td>Lincoln P203 Pump Mounting Bracket</td>
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<tr>
<td>600-26876-2</td>
<td>AHC1658097</td>
<td>Lincoln</td>
<td>Pump Element Kit</td>
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<tr>
<td>519-34339-4</td>
<td>AHC1658014</td>
<td>Lincoln</td>
<td>Piston Detector</td>
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<tr>
<td>638-37549-2</td>
<td>AHC1658157</td>
<td>Lincoln</td>
<td>Manual Filler, 4 &amp; 8L</td>
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<tr>
<td>246416</td>
<td>AHC1657536</td>
<td>Lincoln</td>
<td>SSV Mounting Bracket</td>
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<tr>
<td>239857</td>
<td>AHC1657471</td>
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<td>Adapter 1/8 with Check</td>
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<td>404-22381-2</td>
<td>AHC1657942</td>
<td>Lincoln</td>
<td>Ferrule</td>
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<td>244047</td>
<td>AHC1657516</td>
<td>Lincoln</td>
<td>1/4 Tube NPT Male Straight Fitting</td>
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<tr>
<td>244048</td>
<td>AHC1657517</td>
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<td>1/4 Tube NPT Male 90° Fitting</td>
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<td>1/4 Tube NPT Male 90° Swivel Fitting</td>
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<tr>
<td>272658</td>
<td>AHC1657738</td>
<td>Lincoln</td>
<td>Valve Outlet Fitting with Check, M10x1</td>
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<tr>
<td>272659</td>
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<tr>
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<td>AHC1657808</td>
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<td>Valve outlet closure plug (gasket not required)</td>
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<tr>
<td>241288</td>
<td>AHC1657488</td>
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<td>40 ft. (12.19 m) coil grease filled</td>
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<tr>
<td>252717</td>
<td>AHC1657641</td>
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<td>200 ft. (60.96 m) coil non-grease filled</td>
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<td>272401</td>
<td>AHC1657724</td>
<td>Lincoln</td>
<td>Hose Stud, Short</td>
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<tr>
<td>272427</td>
<td>AHC1657725</td>
<td>Lincoln</td>
<td>Hose Stud, Sleeve</td>
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<td>272394</td>
<td>AHC1657723</td>
<td>Lincoln</td>
<td>Hose Stud, 90°</td>
</tr>
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<td>246002</td>
<td>AHC1657533</td>
<td>Lincoln</td>
<td>NPT Field Installable Hose Coupling</td>
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<tr>
<td>62357</td>
<td>AHC1658148</td>
<td>Lincoln</td>
<td>Nylon Tubing, 1/4, 100’ RL</td>
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<td>13129</td>
<td>AHC1657293</td>
<td>Lincoln</td>
<td>Pipe Thread Adapter</td>
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<td>20026</td>
<td>AHC1657377</td>
<td>Lincoln</td>
<td>Pipe Thread Adapter</td>
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<td>AHC1657378</td>
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<td>AHC1657379</td>
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<td>90° Angle Body</td>
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<tr>
<td>20031</td>
<td>AHC1657380</td>
<td>Lincoln</td>
<td>Elbow - 90°</td>
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</tbody>
</table>
PVB Divider Valves - Mobile Series Progressive

The PVB divider valve accurately meters and dispenses lubricant to as many as 20 outlet lines at operating pressures up to 3600 psi. Output volumes are fixed at 0.17cc (0.01 cu. in.) per cycle but can be combined with other outlets by using appropriate fittings for larger outputs. Valves are available with cycle indicator pins to provide visual confirmation of system operation. In addition, the cycle pin can be fitted with a switch to provide electrical feedback to a system controller.

Features
- Flexible design allows for on-site configurations
- Valves available in sizes ranging from 6 to 20 outlets
- Positive displacement discharge
- One switch monitors complete system
- Valves are corrosion resistant

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
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<th>Description</th>
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<tbody>
<tr>
<td>PVBM06-001</td>
<td>AHC2217795</td>
<td>Bijur Delimon</td>
<td>Bijur Divider PVBNA02AA03 With Pin</td>
</tr>
<tr>
<td>PVBM08-001</td>
<td>AHC2217796</td>
<td>Bijur Delimon</td>
<td>Bijur Divider PVBNA02AA03 With Pin</td>
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<tr>
<td>PVBM10-001</td>
<td>AHC2217797</td>
<td>Bijur Delimon</td>
<td>Bijur Divider PVBNA02AA03 With Pin</td>
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<tr>
<td>PVBM12-001</td>
<td>AHC2217798</td>
<td>Bijur Delimon</td>
<td>Bijur Divider PVBNA02AA03 With Pin</td>
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<td>PVBM14-001</td>
<td>AHC2217799</td>
<td>Bijur Delimon</td>
<td>Bijur Divider PVBNA02AA03 With Pin</td>
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<td>Bijur Delimon</td>
<td>Bijur Divider PVBNA02AA03 With Pin</td>
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<tr>
<td>PVBM18-001</td>
<td>AHC2217801</td>
<td>Bijur Delimon</td>
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<td>AHC2217802</td>
<td>Bijur Delimon</td>
<td>Bijur Divider PVBNA02AA03 With Pin</td>
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</table>

PVB Divider Valve Accessories

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<td>Bijur Delimon</td>
<td>Adapter PVB MVB 1/8NPTF w/CV</td>
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<tr>
<td>74161-1851</td>
<td>AHC2217811</td>
<td>Bijur Delimon</td>
<td>Plug B Porting</td>
</tr>
<tr>
<td>23292</td>
<td>AHC2218381</td>
<td>Bijur Delimon</td>
<td>Sleeve Comp 6TBG Mono Brass</td>
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<tr>
<td>74161-5741</td>
<td>AHC2217812</td>
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<td>Plug C Porting</td>
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<tr>
<td>72712-1094</td>
<td>AHC2217810</td>
<td>Bijur Delimon</td>
<td>Seal Copper Washer 13.4X1T</td>
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<td>35417</td>
<td>AHC2217806</td>
<td>Bijur Delimon</td>
<td>Bracket Mounting PVB</td>
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<td>AHC2217808</td>
<td>Bijur Delimon</td>
<td>Bolt Mounting PVB 1/4-20 Grd 8</td>
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<tr>
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<td>Nut Mounting 1/4-20 Grd 8</td>
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<td>AHC2217809</td>
<td>Bijur Delimon</td>
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<tr>
<td>76928-2863</td>
<td>AHC2217813</td>
<td>Bijur Delimon</td>
<td>Cable 10M for Prox Switch</td>
</tr>
<tr>
<td>76928-2833</td>
<td>AHC1914032</td>
<td>Bijur Delimon</td>
<td>Elbow Plug Cable 10M</td>
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</table>
**SL-32 Series Grease Injectors**

**Features**
- For single-line, high-pressure central lubrication system
- For dispensing petroleum-based lubricants with a viscosity up to NLGI No.2
- Output is externally adjustable
- Indicator stem permits visual check of injector operation
- May be combined in a circuit of injectors SL-33, SL-V, SL-V XL, SL-1 and/or SL-11
- Individual injectors can be easily removed for inspection or replacement

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>83336-1</td>
<td>AHC1658375</td>
<td>Lincoln</td>
<td>SL32 Injector Assembly</td>
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<td>AHC1658376</td>
<td>Lincoln</td>
<td>SL32 Injector Assembly</td>
</tr>
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<td>83336-3</td>
<td>AHC1658377</td>
<td>Lincoln</td>
<td>SL32 Injector Assembly</td>
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<td>AHC1658378</td>
<td>Lincoln</td>
<td>SL32 Injector Assembly</td>
</tr>
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</table>

**SL-V Series Grease Injectors**

**Features**
- For single-line, high-pressure central lubrication system
- For dispensing petroleum-based lubricants with a viscosity up to NLGI No.2
- Output is externally adjustable
- Indicator stem permits visual check of injector operation
- May be combined in a circuit of injectors SL-32, SL-33, SL-1, SL-V XL and/or SL-11
- Individual injectors can be easily removed for inspection or replacement

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
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<tr>
<td>85770-1</td>
<td>AHC1658528</td>
<td>Lincoln</td>
<td>SL-V Injector Manifold Assembly</td>
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<tr>
<td>85770-2</td>
<td>AHC1658529</td>
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<td>AHC1658530</td>
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<td>AHC1658531</td>
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<td>AHC1658532</td>
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<td>AHC1658533</td>
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<td>SL-V Injector Manifold Assembly</td>
</tr>
</tbody>
</table>
SL-1 Series Grease Injectors

Features
- For single-line, high-pressure central lubrication system
- For dispensing lubricants compatible with fluorelastomer packings and viscosity up to NLGI No. 2
- Output is externally adjustable
- Indicator stem permits visual check of injector operation
- May be combined in a circuit of injectors SL-32, SL-33, SL-1, SL-V XL and/or SL-11
- Individual injectors can be easily removed for inspection or replacement

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
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<td>Lincoln</td>
<td>SL1 Injector Assembly</td>
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<td>81770-2</td>
<td>AHC1658313</td>
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<td>AHC1658314</td>
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<td>SL1 Injector Assembly</td>
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<td>81770-4</td>
<td>AHC1658315</td>
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<td>AHC1658316</td>
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<td>81770-6</td>
<td>AHC1658317</td>
<td>Lincoln</td>
<td>SL1 Injector Assembly</td>
</tr>
</tbody>
</table>

SL-11 Series Grease Injector

Features
- For single-line, high-pressure central lubrication system
- For dispensing lubricants compatible with fluorelastomer packings and viscosity up to NLGI No. 2
- Output is externally adjustable
- Indicator stem permits visual check of injector operation
- May be combined in a circuit of injectors SL-32, SL-33, SL-1, SL-V XL and/or SL-1
- Available only as single unit with ½” NPTF female inlet

<table>
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<td>85497</td>
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<td>SL11 Injector</td>
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### Centromatic Injector Accessories

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<td>83272</td>
<td>AHC1658359</td>
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<td>Plastic Cap</td>
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<td>12698</td>
<td>AHC1657283</td>
<td>Lincoln</td>
<td>Plug</td>
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<td>12511</td>
<td>AHC1657277</td>
<td>Lincoln</td>
<td>1/8NPT Pipe Plug</td>
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<tr>
<td>66280</td>
<td>AHC1658212</td>
<td>Lincoln</td>
<td>Compression Plug</td>
</tr>
<tr>
<td>68087</td>
<td>AHC1658252</td>
<td>Lincoln</td>
<td>Spray Nozzle</td>
</tr>
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</table>

### FlowMaster II Electric Grease Pump

**Features**
- 19:1 gear ratio results in lower current draw
- Gear sets can be changed for different ratios
- 18” (457 mm) wire motor leads with Deutsch connectors for easier installation
- Wire leads are sheathed for protection from the elements and rub areas

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
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<td>85738</td>
<td>AHC1899390</td>
<td>Lincoln</td>
<td>Electric Pump Assembly</td>
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</table>

### P653S Electric Grease Pumps

The fully integrated P653S pump is a next-generation, lower-cost pump package that can be fitted with one of four reservoir sizes and easily adapts to many applications.

**Features**
- Integrated pump supplies lubricant to a single-line parallel lubrication system
- Pumps low- and high- viscosity greases including industry standard NLGI grade 2 grease
- Easily interfaces with telematics technology in today’s heavy equipment
- Operating temperature range from -40°F to +158°F (-40°C to +70°C) VDC or 32°F to 122°F (0°C to 50°C) VAC
- Neutral switch allows mobile equipment to remain idling with pump power on but the timer is deactivated – allowing manual lubrication functionality
- Integration of major system components reduces labor and overall costs
- Simplifies lubrication system design
- Installation time is reduced due to the “plug-and-play” pump design. Simply mount the pump, connect power and the supply lines and the system is ready for operation
- Neutral switch ensures lubrication only when the machine is operating – eliminating wasted grease

<table>
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<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
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<th>Description</th>
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<td>Lincoln</td>
<td>Pump kit 8L, 24V</td>
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<tr>
<td>80089</td>
<td>AHC1866537</td>
<td>Lincoln</td>
<td>Pump kit 8L, 120V</td>
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</tbody>
</table>
FlowMaster Hydraulic Pump Components

High-performance FlowMaster hydraulic pumps combine rotary-driven pump motors with reciprocating pump tubes and flexible control features that perform in desert heat and arctic cold. Integrated control manifold adjusts the amount of lubricant and operating pressure. The pump’s output is adjustable from 7 to 45 cubic inches per minute.

<table>
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<tr>
<th>Mfr. Part No.</th>
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<th>Mfr.</th>
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<td>Drum Cover</td>
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<td>85492</td>
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<td>Follower Assembly</td>
</tr>
<tr>
<td>85835</td>
<td>AHC2068021</td>
<td>Lincoln</td>
<td>Vent Valve</td>
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</tbody>
</table>

Model 69630 Pressure Switch

Senses supply line pressure rise/fall to signal system operation to controller or system alarm. It has a NEMA 3 housing and UL listed switching elements.

<table>
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<th>Mfr. Part No.</th>
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<th>Mfr.</th>
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<td>69630</td>
<td>AHC1658265</td>
<td>Lincoln</td>
<td>Pressure Switch</td>
</tr>
</tbody>
</table>

Reliable lubrication for your critical equipment.

SKF CircOil OC1 Pumping Unit

SKF’s OC1 circulating oil lubrication unit is ideal for bearings on industrial fans and similar applications where high speeds and/or temperatures can preclude the use of grease. Powder-coated carbon steel or optional stainless steel reservoir provides optimal retention time for cooling and aeration of oil. Features high-pressure filtration, 10 micron up to 1,000 PSI (69 bar).

Ask your Airline representative for more information.
UV Divider Valves

UV divider valves are designed to meter oil or grease in automatic or manual systems installed on all types of industrial machinery. Segmented baseplate assembly contains all inlet and outlet connections. Alternate outlet ports are located on the face of the divider valve which may be used for installation of performance indicators.

<table>
<thead>
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<th>Mfr. Part No.</th>
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<th>Description</th>
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<td>87919</td>
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<td>UV Intermediate Section</td>
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<td>87920</td>
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<td>88645</td>
<td>AHC1658253</td>
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<td>Pipe Plug</td>
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<td>250290</td>
<td>AHC1657624</td>
<td>Lincoln</td>
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<td>250291</td>
<td>AHC1657625</td>
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<td>Tie Rod, 4 Section</td>
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<td>250292</td>
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<td>AHC1657627</td>
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<td>Tie Rod, 8 Section</td>
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<td>882201</td>
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<td>UV Valve 20S</td>
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<td>882251</td>
<td>AHC1658603</td>
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<td>UV Valve 25S</td>
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<td>882301</td>
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<td>AHC1658601</td>
<td>Lincoln</td>
<td>UV Valve 20S CIP</td>
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<td>AHC1658607</td>
<td>Lincoln</td>
<td>UV Valve 30S CIP</td>
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<td>AHC1658611</td>
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<td>UV Valve 35S CIP</td>
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<td>882102</td>
<td>AHC1658597</td>
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<td>882152</td>
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<td>UV Valve 35T</td>
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<td>882402</td>
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<td>AHC1658616</td>
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Divider Valve Accessories

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<tr>
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<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
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<td>Cycle Switch</td>
</tr>
<tr>
<td>87825</td>
<td>AHC1658574</td>
<td>Lincoln</td>
<td>UV Crossport Kit</td>
</tr>
<tr>
<td>250296</td>
<td>AHC1657623</td>
<td>Lincoln</td>
<td>UV Mounting Bracket</td>
</tr>
</tbody>
</table>
Lube Oil Analysis

MRG, Maintenance Reliability Group, Laboratories has experts that have been performing in-depth oil analysis for over 25 years. Their lube oil analysis monitors the health of oil-lubricated equipment with a comprehensive testing slate. Oils are assessed in three categories: wear, oxidation, and physical properties.

Test Features
- Particle Count
- DR-III Ferrography
- RDE Spectroscopy
- Viscosity
- FT-IR Spectroscopy
- Karl Fisher Moisture Analysis
- RULER Testing

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
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<tbody>
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<td>MGT-01-008</td>
<td>AHC1803730</td>
<td>MRG Labs</td>
<td>Grease Thief Sampling Kit for Pillow Block Bearings</td>
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<tr>
<td>MGT-01-014</td>
<td>AHC2219204</td>
<td>MRG Labs</td>
<td>Grease Thief Sampling Kit for MOV Gearbox</td>
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<tr>
<td>MGT-01-012</td>
<td>AHC1803738</td>
<td>MRG Labs</td>
<td>Grease Thief Sampling Kit for Motor Bearings</td>
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<tr>
<td>MGT-01-007</td>
<td>AHC2219213</td>
<td>MRG Labs</td>
<td>Grease Thief Sampling Kit for Wind Turbines</td>
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<tr>
<td>MGT-01-009</td>
<td>AHC2219216</td>
<td>MRG Labs</td>
<td>Grease Thief Sampling Kit for Robot Drives</td>
</tr>
</tbody>
</table>

Airline & Lincoln: Dependable solutions for industrial, mobile and off-road equipment lubrication.

Airline offers a full inventory of Lincoln products, including automated and manual lubrication pumping systems, industrial pumping systems, as well as fittings and installation components. We provide competitive pricing, quick delivery, and expert advice from our team of Certified Fluid Power Specialists. Whatever the service—evaluating your lubrication methods, installing a customized system, or supplying top-quality lubrication products—with Airline, you always get the very best value.

Airline also offers Industrial Lubrication Training

Attendees will learn about the application, storage and analysis of industrial lubricants & can become a certified Machine Lubrication Analyst or Machine Lubrication Technician through the International Council of Machine Lubrication.

To learn more about these offerings, call your local Airline sales engineer or our toll-free number below.

Call Airline toll free: 800-999-7378
**451TC Tough Cover Hydraulic Hose**

Parker 451TC 3,000 psi hydraulic hoses are what to specify when abrasion resistance and ease-of-use are required.

**Features**
- 43 & 77 series crimp fittings
- One-half SAE 100R1 minimum bend radius – flexible, easy to work with and install
- Specially engineered TC covers prolong hose life and minimize downtime
- Exceeds SAE 100R17 specification
- SAE 100R17, J1942 / ISO 11237 – 1 TYPE R17 – USCG HF / ABS

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<thead>
<tr>
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<tbody>
<tr>
<td>451TC-4</td>
<td>AHC1792521</td>
<td>Parker</td>
<td>Tough Cover Hydraulic Hose</td>
<td>1/4 in., 6.3 mm</td>
<td>0.52 in., 13 mm</td>
<td>3000 psi, 21 Mpa</td>
<td>2 in., 50 mm</td>
</tr>
<tr>
<td>451TC-6</td>
<td>AHC1792523</td>
<td>Parker</td>
<td>Tough Cover Hydraulic Hose</td>
<td>3/8 in., 10 mm</td>
<td>0.88 in., 17 mm</td>
<td>3000 psi, 21 Mpa</td>
<td>2-1/2 in., 65 mm</td>
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<tr>
<td>451TC-8</td>
<td>AHC1792529</td>
<td>Parker</td>
<td>Tough Cover Hydraulic Hose</td>
<td>1/2 in., 12.5 mm</td>
<td>0.80 in., 20 mm</td>
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<td>3-1/2 in., 90 mm</td>
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<td>AHC1792514</td>
<td>Parker</td>
<td>Tough Cover Hydraulic Hose</td>
<td>5/8 in., 16 mm</td>
<td>0.94 in., 24 mm</td>
<td>3000 psi, 21 Mpa</td>
<td>4 in., 100 mm</td>
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<td>3/4 in., 19 mm</td>
<td>1.10 in., 28 mm</td>
<td>3000 psi, 21 Mpa</td>
<td>4-3/4 in., 120 mm</td>
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<td>451TC-16</td>
<td>AHC1792518</td>
<td>Parker</td>
<td>Tough Cover Hydraulic Hose</td>
<td>1 in., 25 mm</td>
<td>1.40 in., 35 mm</td>
<td>3000 psi, 21 Mpa</td>
<td>6 in., 150 mm</td>
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<td>451TC-20</td>
<td>AHC1678143</td>
<td>Parker</td>
<td>Tough Cover Hydraulic Hose</td>
<td>1-1/4 in., 31.5 mm</td>
<td>1.85 in., 47 mm</td>
<td>3000 psi, 21 Mpa</td>
<td>8-1/4 in., 210 mm</td>
</tr>
</tbody>
</table>

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**351TC Tough Cover Hydraulic Hose**

351TC’s braided construction, offering 4000 psi, is more flexible than its standard spiral counterpart.

**Features**
- 43 series crimp fittings
- Specially engineered TC covers prolong hose life and minimize downtime
- Exceeds SAE 100R19, J517 specifications
- SAE 100R19, J517

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<tbody>
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<td>AHC1792328</td>
<td>Parker</td>
<td>Tough Cover Hydraulic Hose</td>
<td>1/4 in., 6.3 mm</td>
<td>0.51 in., 13 mm</td>
<td>4000 psi, 28 Mpa</td>
<td>2 in., 50 mm</td>
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<tr>
<td>351TC-6</td>
<td>AHC1792329</td>
<td>Parker</td>
<td>Tough Cover Hydraulic Hose</td>
<td>3/8 in., 10 mm</td>
<td>0.67 in., 17 mm</td>
<td>4000 psi, 28 Mpa</td>
<td>2-1/2 in., 65 mm</td>
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<tr>
<td>351TC-8</td>
<td>AHC1792330</td>
<td>Parker</td>
<td>Tough Cover Hydraulic Hose</td>
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<td>0.80 in., 20 mm</td>
<td>4000 psi, 28 Mpa</td>
<td>3-1/2 in., 90 mm</td>
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<tr>
<td>351TC-10</td>
<td>AHC1792326</td>
<td>Parker</td>
<td>Tough Cover Hydraulic Hose</td>
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<td>0.93 in., 24 mm</td>
<td>4000 psi, 28 Mpa</td>
<td>4 in., 100 mm</td>
</tr>
<tr>
<td>351TC-12</td>
<td>AHC1792327</td>
<td>Parker</td>
<td>Tough Cover Hydraulic Hose</td>
<td>3/4 in., 19 mm</td>
<td>1.09 in., 28 mm</td>
<td>4000 psi, 28 Mpa</td>
<td>4-3/4 in., 120 mm</td>
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</tbody>
</table>
### 722TC Global Core Hydraulic Hose

722TC hose provides SAE 100R12 performance enabling its use in a wide variety of applications. It is also one-half the bend radius of SAE 100R12 hose.

#### Features
- 43 series crimp fittings
- 4-spiral construction for longer lasting hose in high impulse, heavy duty cycle applications
- Synthetic rubber inner tube provides a wider range of fluid compatibility
- TC cover provides 80 times the abrasion resistance compared to standard rubber cover hose
- SAE 100R12, J1942 / ISO 3862-1 TYPE R12 / EN 856 TYPE R12 / USCG HF / DNV / ABS

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<tr>
<td>722TC-6</td>
<td>AHC1792784</td>
<td>Parker</td>
<td>Tough Cover Hydraulic Hose</td>
<td>3/8 in., 10 mm</td>
<td>0.80 in., 20 mm</td>
<td>4000 psi, 28 Mpa</td>
<td>2-1/2 in., 65 mm</td>
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<td>722TC-8</td>
<td>AHC1792787</td>
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<td>Tough Cover Hydraulic Hose</td>
<td>1/2 in., 12.5 mm</td>
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<td>722TC-10</td>
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<td>4 in., 100 mm</td>
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<td>1.21 in., 31 mm</td>
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<td>4-3/4 in., 120 mm</td>
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<td>722TC-16</td>
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<td>Tough Cover Hydraulic Hose</td>
<td>1 in., 25 mm</td>
<td>1.50 in., 38 mm</td>
<td>4000 psi, 28 Mpa</td>
<td>6 in., 150 mm</td>
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### 787TC Global Core Constant-Working-Pressure Hose

Compared with conventional spiral hose, Parker’s Global Core 787TC Hose offers measurably greater advantages in routing and installation, product size and weight, inventory savings and much more.

#### Features
- 77 series crimp fittings
- Half the bend radius of SAE spiral
- Nearly 30% smaller O.D. by area than SAE spiral
- Twice the impulse/life – tested to 2,000,000 cycles
- Flex impulse tested
- Less hose weight than SAE spiral
- SAE J1754, J1942 / ISO 18752-DC / USCG HF / DNV / ABS

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<td>AHC1690467</td>
<td>Parker</td>
<td>Compact Spiral Hose</td>
<td>1/2 in., 12.5 mm</td>
<td>0.83 in., 21.1 mm</td>
<td>5000 psi, 35 Mpa</td>
<td>3-1/2 in., 90 mm</td>
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<td>AHC1792816</td>
<td>Parker</td>
<td>Compact Spiral Hose</td>
<td>5/8 in., 16 mm</td>
<td>0.94 in., 23.9 mm</td>
<td>5000 psi, 35 Mpa</td>
<td>4 in., 100 mm</td>
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<td>Compact Spiral Hose</td>
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<td>1.10 in., 27.9 mm</td>
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<td>4-3/4 in., 120 mm</td>
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<td>AHC1792823</td>
<td>Parker</td>
<td>Compact Spiral Hose</td>
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<td>1.40 in., 35.7 mm</td>
<td>5000 psi, 35 Mpa</td>
<td>6 in., 150 mm</td>
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<td>787TC-20</td>
<td>AHC1792827</td>
<td>Parker</td>
<td>Compact Spiral Hose</td>
<td>1-1/4 in., 31.5 mm</td>
<td>1.77 in., 44.9 mm</td>
<td>5000 psi, 35 Mpa</td>
<td>8-1/4 in., 210 mm</td>
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<tr>
<td>787TC-24</td>
<td>AHC1860679</td>
<td>Parker</td>
<td>Compact Spiral Hose</td>
<td>1-1/2 in., 38 mm</td>
<td>2.08 in., 52.8 mm</td>
<td>5000 psi, 35 Mpa</td>
<td>10 in., 255 mm</td>
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<tr>
<td>787TC-32</td>
<td>AHC1860681</td>
<td>Parker</td>
<td>Compact Spiral Hose</td>
<td>2 in., 51 mm</td>
<td>2.66 in., 67.6 mm</td>
<td>5000 psi, 35 Mpa</td>
<td>12-1/2 in., 318 mm</td>
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</tbody>
</table>

Call Airline toll free: 800-999-7378
797TC Global Core Constant-Working-Pressure Hose

Parker’s 797TC hose was designed to deliver consistency and reliability. The 797TC hose is made with compact spiral technology making it light, durable, and easily bent, making installation easier and quicker.

Features
- 77 series crimp fittings
- Half the bend radius of SAE spiral
- Flex impulse tested
- SAE J1754, J1942 / ISO 18752-DC / USCG HF / DNV / ABS

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<td>Parker Compact Spiral Hose</td>
<td>1/2 in., 12.5 mm</td>
<td>0.83 in., 21.1 mm</td>
<td>6000 psi, 42 Mpa</td>
<td>4 in., 100 mm</td>
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<td>AHC1792850</td>
<td>Parker Compact Spiral Hose</td>
<td>5/8 in., 16 mm</td>
<td>0.94 in., 23.9 mm</td>
<td>6000 psi, 42 Mpa</td>
<td>4-1/2 in., 100 mm</td>
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<td>AHC1792853</td>
<td>Parker Compact Spiral Hose</td>
<td>3/4 in., 19 mm</td>
<td>1.10 in., 27.9 mm</td>
<td>6000 psi, 42 Mpa</td>
<td>5-1/4 in., 135 mm</td>
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<td>797TC-16</td>
<td>AHC1792857</td>
<td>Parker Compact Spiral Hose</td>
<td>1 in., 25 mm</td>
<td>1.40 in., 35.7 mm</td>
<td>6000 psi, 42 Mpa</td>
<td>6-1/2 in., 165 mm</td>
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<td>797TC-20</td>
<td>AHC1792861</td>
<td>Parker Compact Spiral Hose</td>
<td>1-1/4 in., 31.5 mm</td>
<td>1.77 in., 44.9 mm</td>
<td>6000 psi, 42 Mpa</td>
<td>8-3/4 in., 225 mm</td>
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<td>797TC-24</td>
<td>AHC1990448</td>
<td>Parker Compact Spiral Hose</td>
<td>1-1/2 in., 38 mm</td>
<td>2.08 in., 52.8 mm</td>
<td>6000 psi, 42 Mpa</td>
<td>12 in., 305 mm</td>
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<td>797TC-32</td>
<td>AHC1990450</td>
<td>Parker Compact Spiral Hose</td>
<td>2 in., 51 mm</td>
<td>2.66 in., 67.6 mm</td>
<td>6000 psi, 42 Mpa</td>
<td>15 in., 380 mm</td>
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302 Worldwide Hydraulic Hose

Parker’s 302 hose, a universal two-wire construction hose designed to accommodate global customer requirements, is manufactured to strict international quality specifications. Parker’s 302 offers customers consistency of performance, combined with continuous availability anywhere in the world. It offers a high working pressure, long service life and a wide fluid compatibility.

Features
- 43 series crimp fittings/30 series field attachable
- Increased working pressures for improved reliability and expanded applications
- Synthetic rubber inner tube for greater fluid compatibility and bio-oil resistance
- ISO 1436-1 TYPE 2SN / SAE 100R2 TYPE AT, J1942 / EN 853 TYPE 2SN / USCG HF / DNV / ABS / BV

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<tr>
<td>302-4</td>
<td>AHC1792266</td>
<td>Parker Hydraulic Hose</td>
<td>1/4 in., 6.3 mm</td>
<td>0.59 in., 15 mm</td>
<td>5800 psi, 40 Mpa</td>
<td>4 in., 100 mm</td>
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<td>302-6</td>
<td>AHC1792272</td>
<td>Parker Hydraulic Hose</td>
<td>3/8 in., 10 mm</td>
<td>0.75 in., 19 mm</td>
<td>4750 psi, 33 Mpa</td>
<td>5 in., 130 mm</td>
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<td>AHC1792275</td>
<td>Parker Hydraulic Hose</td>
<td>1/2 in., 12.5 mm</td>
<td>0.88 in., 22.3 mm</td>
<td>4000 psi, 28 Mpa</td>
<td>7 in., 180 mm</td>
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<td>302-10</td>
<td>AHC1792259</td>
<td>Parker Hydraulic Hose</td>
<td>5/8 in., 16 mm</td>
<td>1.00 in., 25.5 mm</td>
<td>3600 psi, 25 Mpa</td>
<td>8 in., 200 mm</td>
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<td>302-12</td>
<td>AHC1792261</td>
<td>Parker Hydraulic Hose</td>
<td>3/4 in., 19 mm</td>
<td>1.16 in., 29.4 mm</td>
<td>3100 psi, 21.5 Mpa</td>
<td>9-1/2 in., 240 mm</td>
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<td>AHC1792263</td>
<td>Parker Hydraulic Hose</td>
<td>1 in., 25 mm</td>
<td>1.50 in., 38.1 mm</td>
<td>2400 psi, 16.5 Mpa</td>
<td>12 in., 300 mm</td>
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<td>AHC1677738</td>
<td>Parker Hydraulic Hose</td>
<td>1-1/4 in., 31.5 mm</td>
<td>1.86 in., 47.1 mm</td>
<td>1800 psi, 12.5 Mpa</td>
<td>16-1/2 in., 420 mm</td>
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<td>302-24</td>
<td>AHC1677739</td>
<td>Parker Hydraulic Hose</td>
<td>1-1/2 in., 38 mm</td>
<td>2.14 in., 54.5 mm</td>
<td>1300 psi, 9 Mpa</td>
<td>20 in., 500 mm</td>
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<td>302-32</td>
<td>AHC1677740</td>
<td>Parker Hydraulic Hose</td>
<td>2 in., 51 mm</td>
<td>2.64 in., 67.2 mm</td>
<td>1150 psi, 8 Mpa</td>
<td>25 in., 630 mm</td>
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811 Suction & Return Line

These hoses combine to meet a wide range of suction and return application requirements.

**Features**
- 81 series crimp fitting/88 series field attachable
- Up to one-half the SAE minimum bend radius for standard and high-temperature applications
- Meets or exceeds SAE 100R4 requirements
- High-visibility layline
- Oil- and weather-resistant synthetic rubber cover
- High-temperature range for petroleum-based hydraulic fluids of -40º F to +257º F
- SAE 100R4, J1942 / USCG HF

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<td>811-12</td>
<td>AHC1679161</td>
<td>Parker Suction &amp; Return Line</td>
<td>3/4 in., 19 mm</td>
<td>1.18 in., 30 mm</td>
<td>300 psi, 2.1 Mpa</td>
<td>2-1/2 in., 64 mm</td>
<td>25 in. of Hg, 84 kPa</td>
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<tr>
<td>811-16</td>
<td>AHC1679162</td>
<td>Parker Suction &amp; Return Line</td>
<td>1 in., 25 mm</td>
<td>1.50 in., 38 mm</td>
<td>250 psi, 1.7 Mpa</td>
<td>3 in., 76 mm</td>
<td>25 in. of Hg, 84 kPa</td>
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<tr>
<td>811-20</td>
<td>AHC1680621</td>
<td>Parker Suction &amp; Return Line</td>
<td>1-1/4 in., 31.5 mm</td>
<td>1.77 in., 45 mm</td>
<td>200 psi, 1.4 Mpa</td>
<td>4 in., 102 mm</td>
<td>25 in. of Hg, 84 kPa</td>
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<tr>
<td>811-24</td>
<td>AHC1680622</td>
<td>Parker Suction &amp; Return Line</td>
<td>1-1/2 in., 38 mm</td>
<td>2.05 in., 52 mm</td>
<td>150 psi, 1 Mpa</td>
<td>5 in., 125 mm</td>
<td>25 in. of Hg, 84 kPa</td>
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<td>811-32</td>
<td>AHC1680623</td>
<td>Parker Suction &amp; Return Line</td>
<td>2 in., 51 mm</td>
<td>2.50 in., 63.6 mm</td>
<td>100 psi, 0.7 Mpa</td>
<td>6 in., 150 mm</td>
<td>25 in. of Hg, 84 kPa</td>
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540N General Hydraulic Hose

The 540N hydraulic hose as excellent chemical compatibility making it one of the most popular thermolastic hoses from Parker that can be used in a wide variety of applications.

**Features**
- 55/56 series fittings
- Matte cover for low coefficient of friction
- Greater range of fluid compatibility than SAE 100R1 hose
- Meets/Exceeds SAE 100R7
- MSHA accepted

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<td>540N-3</td>
<td>AHC1678241</td>
<td>Parker General Hydraulic Hose</td>
<td>3/16 in., 5 mm</td>
<td>.44 in., 11 mm</td>
<td>3,000 psi, 20.7 Mpa</td>
<td>3/4 in., 19 mm</td>
<td>28 in.</td>
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<td>540N-4</td>
<td>AHC1678242</td>
<td>Parker General Hydraulic Hose</td>
<td>1/4 in., 6 mm</td>
<td>.50 in., 13 mm</td>
<td>2,750 psi, 19.0 Mpa</td>
<td>1-1/2 in., 38 mm</td>
<td>28 in.</td>
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<td>540N-6</td>
<td>AHC1683433</td>
<td>Parker General Hydraulic Hose</td>
<td>3/8 in., 10 mm</td>
<td>.65 in., 17 mm</td>
<td>2,250 psi, 15.5 Mpa</td>
<td>2 in., 51 mm</td>
<td>28 in.</td>
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<td>540N-8</td>
<td>AHC1678245</td>
<td>Parker General Hydraulic Hose</td>
<td>1/2 in., 13 mm</td>
<td>.81 in., 21 mm</td>
<td>2,000 psi, 13.8 Mpa</td>
<td>3 in., 76 mm</td>
<td>28 in.</td>
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<td>540N-12</td>
<td>AHC1678240</td>
<td>Parker General Hydraulic Hose</td>
<td>3/4 in., 19 mm</td>
<td>1.05 in., 27 mm</td>
<td>1,250 psi, 8.6 Mpa</td>
<td>6 in., 152 mm</td>
<td>28 in.</td>
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Series 7219 E-Z Form Multipurpose Oil-Resistant Hose

Series 7219 is an extremely flexible, lightweight, low pressure oil suction/return hose and vehicle fuel fill connector line—as well as a suction and discharge hose for refined fuels such as biodiesel (to B20 in dedicated and non-dedicated service), diesel, ethanol and gasoline. The lightweight Greek corrugated hose construction incorporates a wire helix that provides full suction capability, superior kink resistance, minimal force-to-bend and a path to conduct a static electrical charge to ground. The unique Greek corrugations are tightly pitched and precision-engineered, providing extreme flexibility and kink resistance compared to the traditional rounded corrugation profile. The cover is resistant to oil and weathering. Series 7219 is capable of being routed through confined spaces where formed hose might normally be required.

Features
- 43/HY series crimp fittings
- Temp. range: -20°F to +200°F (-29°C to +93°C)

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<td>AHC1678779</td>
<td>Parker Multipurpose Oil Resistant Hose</td>
<td>3/4 in., 19.1 mm</td>
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<td>1.142 in., 29.0 mm</td>
<td>2.0 in., 50.8 mm</td>
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<td>7219-1000025</td>
<td>AHC1678780</td>
<td>Parker Multipurpose Oil Resistant Hose</td>
<td>1 in., 25.4 mm</td>
<td>2</td>
<td>1.378 in., 35.0 mm</td>
<td>2.0 in., 50.8 mm</td>
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<td>AHC1678781</td>
<td>Parker Multipurpose Oil Resistant Hose</td>
<td>1-1/2 in., 31.8 mm</td>
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<td>1.693 in., 43.0 mm</td>
<td>3.1 in., 78.7 mm</td>
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<td>2 in., 50.8 mm</td>
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<td>1.929 in., 49.0 mm</td>
<td>3.9 in., 99.1 mm</td>
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<td>Parker Multipurpose Oil Resistant Hose</td>
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<td>2</td>
<td>2.480 in., 63.0 mm</td>
<td>5.9 in., 149.0 mm</td>
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<td>AHC1779274</td>
<td>Parker Multipurpose Oil Resistant Hose</td>
<td>2-1/4 in., 63.0 mm</td>
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<td>2.756 in., 70.0 mm</td>
<td>7.9 in., 200.7 mm</td>
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<td>AHC1775297</td>
<td>Parker Multipurpose Oil Resistant Hose</td>
<td>3 in., 76.2 mm</td>
<td>2</td>
<td>3.543 in., 90.0 mm</td>
<td>10.6 in., 269.2 mm</td>
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<td>AHC2147041</td>
<td>Parker Multipurpose Oil Resistant Hose</td>
<td>3-1/2 in., 88.9 mm</td>
<td>2</td>
<td>4.094 in., 104.0 mm</td>
<td>13.6 in., 345.4 mm</td>
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<td>AHC1779275</td>
<td>Parker Multipurpose Oil Resistant Hose</td>
<td>4 in., 101.6 mm</td>
<td>2</td>
<td>4.567 in., 116.0 mm</td>
<td>15.7 in., 398.8 mm</td>
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801 Series Push-Lok Plus Multipurpose Hose

Parker’s Push-Lok Plus multipurpose hose line features the widest fluid compatibility, application range and size range in the industry. It also incorporates the highest working pressure in all sizes, making it the most versatile general-purpose hose available. The Push-Lok system is easy to use. No clamps or special tools are required during installation. And with Parker’s exclusive color-code system, you can inventory, maintain and identify your hose needs easily and efficiently. The industry’s most complete line of low-pressure 801 hose and fittings, Push-Lok offers the range and versatility to meet all your instrumentation needs.

Features
- HY series crimp fittings/82 series field attachable
- Easy assembly and organization with Parker’s exclusive color-code system
- Push-Lok assemblies can be made in seconds, saving valuable time and cost
- The unique seal of Push-Lok ensures reliable, durable, leak-free service

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<td>801-4-BLK-RL</td>
<td>AHC1917960</td>
<td>Parker Multipurpose Hose</td>
<td>1/4 in., 6.3 mm</td>
<td>0.50 in., 12.7 mm</td>
<td>350 psi, 2.4 Mpa</td>
<td>2-1/2 in., 65 mm</td>
<td>28 in. of Hg, 95 kPa</td>
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<tr>
<td>801-6-BLK-RL</td>
<td>AHC1917966</td>
<td>Parker Multipurpose Hose</td>
<td>3/8 in., 10 mm</td>
<td>0.63 in., 15.9 mm</td>
<td>350 psi, 2.4 Mpa</td>
<td>3 in., 75 mm</td>
<td>28 in. of Hg, 95 kPa</td>
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<td>801-8-BLK-RL</td>
<td>AHC1917972</td>
<td>Parker Multipurpose Hose</td>
<td>1/2 in., 12.5 mm</td>
<td>0.78 in., 19.8 mm</td>
<td>300 psi, 2.1 Mpa</td>
<td>5 in., 125 mm</td>
<td>28 in. of Hg, 95 kPa</td>
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<td>801-10-BLK-RL</td>
<td>AHC1917945</td>
<td>Parker Multipurpose Hose</td>
<td>5/8 in., 16 mm</td>
<td>0.91 in., 23 mm</td>
<td>300 psi, 2.1 Mpa</td>
<td>6 in., 150 mm</td>
<td>15 in. of Hg, 51 kPa</td>
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<td>801-12-BLK-RL</td>
<td>AHC1917949</td>
<td>Parker Multipurpose Hose</td>
<td>3/4 in., 19 mm</td>
<td>1.03 in., 26.2 mm</td>
<td>300 psi, 2.1 Mpa</td>
<td>7 in., 180 mm</td>
<td>15 in. of Hg, 51 kPa</td>
</tr>
<tr>
<td>801-16-BLK-RL</td>
<td>AHC1917954</td>
<td>Parker Multipurpose Hose</td>
<td>1 in., 25 mm</td>
<td>1.28 in., 32.6 mm</td>
<td>200 psi, 1.4 Mpa</td>
<td>10 in., 250 mm</td>
<td>15 in. of Hg, 51 kPa</td>
</tr>
</tbody>
</table>
919/919B PTFE Hose

Features
- 91N permanent fittings/90 field attachable
- Excellent chemical compatibility and environmentally safe
- Meets or exceeds SAE 100R4 requirements
- Handles extreme temperatures to +450°F and resists moisture
- Low friction minimizes pressure drops and deposits
- Meets/Exceeds SAE 100R14A (919) & SAE 100R14B (919B)
- FDA CFR 177.1550 (Natural tube)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>919-4</td>
<td>AHC1679241</td>
<td>Parker Natural PTFE Hose</td>
<td>3/16 in., 5 mm</td>
<td>.32 in., 8 mm</td>
<td>3,000 psi, 20.7 Mpa</td>
<td>2 in., 51 mm</td>
<td>28 in.</td>
</tr>
<tr>
<td>919-6</td>
<td>AHC1679242</td>
<td>Parker Natural PTFE Hose</td>
<td>5/16 in., 8 mm</td>
<td>.44 in., 11 mm</td>
<td>2,500 psi, 17.2 Mpa</td>
<td>4 in., 102 mm</td>
<td>28 in.</td>
</tr>
<tr>
<td>919-8</td>
<td>AHC1679243</td>
<td>Parker Natural PTFE Hose</td>
<td>13/32 in., 10 mm</td>
<td>.53 in., 13 mm</td>
<td>2,000 psi, 13.8 Mpa</td>
<td>5 in., 127 mm</td>
<td>28 in.</td>
</tr>
<tr>
<td>919-10</td>
<td>AHC1679237</td>
<td>Parker Natural PTFE Hose</td>
<td>1/2 in., 13 mm</td>
<td>.63 in., 16 mm</td>
<td>1,500 psi, 10.3 Mpa</td>
<td>6-1/2 in., 165 mm</td>
<td>28 in.</td>
</tr>
<tr>
<td>919-12</td>
<td>AHC1679238</td>
<td>Parker Natural PTFE Hose</td>
<td>5/8 in., 16 mm</td>
<td>.75 in., 19 mm</td>
<td>1,200 psi, 8.3 Mpa</td>
<td>7-1/2 in., 191 mm</td>
<td>12 in.</td>
</tr>
</tbody>
</table>

43 Series Fittings

Parker’s 43 series fittings are cost effective, permanent, bite-the-wire-style fittings made for easy and quick assembly using the family of Parkrimp crimpers. Common configurations are shown below. Also available in JIC, ORFS, flange, metric, NPT, and more.
Hose & Fittings

77 Series Fittings
Parker’s 77 series fittings are cost effective, permanent, bite-the-wire-style fittings made for easy and quick assembly using the family of Parkrimp crimpers. Common configurations are shown below. Also available in JIC, ORFS, flange, metric, NPT, and more.

<table>
<thead>
<tr>
<th>10177</th>
<th>10677</th>
<th>13777</th>
<th>13977</th>
</tr>
</thead>
<tbody>
<tr>
<td>NPTF Pipe, Male - Rigid</td>
<td>JIC 37°, Female - Swivel Straight</td>
<td>JIC 37°, Female - Swivel 45° Elbow</td>
<td>JIC 37°, Female - Swivel 90° Elbow</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>14A77</th>
<th>14F77</th>
<th>14N77</th>
<th>16A77</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flange Code 61, Straight</td>
<td>Flange Code 61, 45° Elbow</td>
<td>Flange Code 61, 90° Elbow</td>
<td>Flange Code 62, Straight</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>16F77</th>
<th>16N77</th>
<th>1XA77</th>
<th>1XN77</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flange Code 62, 45° Elbow</td>
<td>Flange Code 62, 90° Elbow</td>
<td>Caterpillar Flange, Flange</td>
<td>Caterpillar Flange, 90° Elbow</td>
</tr>
</tbody>
</table>

Seal-Lok O-Ring Face Seal Tube Fittings & Adapters
Parker’s Seal-Lok o-ring face seal offers a leak-free design and a rugged construction to make it optimal for use in situations with high-pressure, vibration and impulse environments. Common configurations are shown below. Inquire about specific configurations and sizes.

<table>
<thead>
<tr>
<th>BL</th>
<th>TL (Inch)</th>
<th>HLO</th>
<th>WLO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tube Nut</td>
<td>Braze Reducer Sleeve</td>
<td>Straights, Union</td>
<td>Straights, Bulkhead Union</td>
</tr>
<tr>
<td>F5OLO</td>
<td>FLO</td>
<td>F65OL</td>
<td>V5OLO</td>
</tr>
<tr>
<td>Straights, ORFS / SAE-ORB</td>
<td>Straights, ORFS / NPTF</td>
<td>Straights, ORFS Swivel / SAE-ORB</td>
<td>45° Elbows, ORFS / SAE-ORB</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ELO</th>
<th>CSOLO</th>
<th>CLO</th>
<th>SS5OLO</th>
</tr>
</thead>
<tbody>
<tr>
<td>90° Elbows, Union Elbow</td>
<td>90° Elbows, ORFS / SAE-ORB</td>
<td>90° Elbows, ORFS / NPTF</td>
<td>Tees, SAE-ORB Branch Tee</td>
</tr>
</tbody>
</table>
Triple-Lok® & Triple-Lok® 2 37° Flare Tube Fittings & Adapters
Parker’s Triple-Lok® & Triple-Lok® 2 soft seal 37° flare JIC tube fittings and adapters offer the unique and added benefit of an elastomeric seal in the nose, creating superior sealing performance in metal to metal seal applications.

<table>
<thead>
<tr>
<th>BTX</th>
<th>TX and TX Metric</th>
<th>HTX</th>
<th>TRTX/TRTXN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nut Mounting 1/4-20 Grd 8</td>
<td>Sleeve</td>
<td>Straights, Union</td>
<td>Straights, Reducer</td>
</tr>
<tr>
<td>F5OX</td>
<td>FTX</td>
<td>GTX</td>
<td>F65OX</td>
</tr>
<tr>
<td>Straights, SAE-ORB / 37° Flare</td>
<td>Straights, NPTF / 37° Flare</td>
<td>Straights, NPTF / 37° Flare</td>
<td>Straights, SAE-ORB / 37° Swivel</td>
</tr>
<tr>
<td>ETX</td>
<td>C5OX</td>
<td>CTX</td>
<td>JTX</td>
</tr>
<tr>
<td>90° Elbows, Union Elbow</td>
<td>90° Elbows, SAE-ORB / 37° Swivel</td>
<td>90° Elbows, NPTF / 37° Swivel</td>
<td>Tees, Union Tee</td>
</tr>
</tbody>
</table>

Ferulok Flareless Bite-Type Fittings
Parker’s Ferulok Bite-Type fittings create a visible heavy bite allowing easy inspection and a rear compression grip which firmly holds the nut and tubing, dampening the effects of vibration.

**Features**
- Hardened ferrule creates a visible heavy bite so no inspecting gauges are required
- Especially suitable for use with tube wall thickness ranging from medium to heavy
- Metal-to-metal sealing makes it suitable for a broad range of temperature and media types
- Steel fittings substantially exceeded the SAE corrosion requirements

<table>
<thead>
<tr>
<th>BU</th>
<th>TU</th>
<th>WLN</th>
<th>HBU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nut</td>
<td>Ferrules</td>
<td>Bulkhead Locknut</td>
<td>Straights, Union</td>
</tr>
<tr>
<td>WBU</td>
<td>F5BU</td>
<td>FBU</td>
<td>GBU</td>
</tr>
<tr>
<td>Straights, Bulkhead Locknut</td>
<td>Straights, SAE-ORB / Flareless</td>
<td>Straights, NPTF / Flareless</td>
<td>Straights, NPTF / Flareless</td>
</tr>
<tr>
<td>EBU</td>
<td>C5BU</td>
<td>JBU</td>
<td>RBU</td>
</tr>
<tr>
<td>90° Elbows, Union Elbow</td>
<td>90° Elbows, SAE-ORB / Flareless</td>
<td>Tees, Union Tee</td>
<td>Tees, NPTF Run Tee</td>
</tr>
</tbody>
</table>
**EO and EO-2 Metric Bite-Type Fittings**

The EO progressive ring fitting produces a low to high-pressure, leak-free connection of tubes and components in fluid systems. The basic function of the EO progressive ring is the controlled progressive bite of the ring into the tube due to a unique internal geometry.

<table>
<thead>
<tr>
<th>M</th>
<th>DPR</th>
<th>D</th>
<th>G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nut</td>
<td>Progressive Ring</td>
<td>Cutting Ring</td>
<td>Straights, Union</td>
</tr>
<tr>
<td>GR</td>
<td>SV</td>
<td>GE-UNI/UN</td>
<td>GE-NPT</td>
</tr>
<tr>
<td>Straights, Reducer Union</td>
<td>Straights, Bulkhead Union</td>
<td>Straights, SAE-ORB / Flareless</td>
<td>Straights, NPT / Flareless</td>
</tr>
<tr>
<td>GEO</td>
<td>GZ</td>
<td>W</td>
<td>T</td>
</tr>
<tr>
<td>Straights, BSPP-ED / Flareless</td>
<td>Straights, Swivel Union</td>
<td>90° Elbows, Union Elbow</td>
<td>Tees, Union Tee</td>
</tr>
</tbody>
</table>

Before you spec it, STAMP it.

**When you order hose and fittings from Parker, remember the word “STAMP.” That way you won’t forget important information.**

Shop online at [www.airlinehyd.com](http://www.airlinehyd.com)
FF Series Non-Spill Hydraulic Quick Couplings

FF series couplings eliminate spillage and air inclusion when connecting and disconnecting. The sleeve-locking mechanism prevents accidental disconnection. 3/8" body size complies with Hydraulic Tool Manufacturers Association standards. FC nipples provide a connect-under-pressure option for trapped pressures up to 3000 psi on the nipple side.

Features

- Flush, non-spill valving
- Hardened steel sleeves and nipple bodies
- Locking sleeve
- Blow-out resistant seal
- Connect-under-pressure FC nipple option
- Protective zinc plating with clear trivalent chromate finish

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Body Size</th>
<th>Port End</th>
<th>Length</th>
<th>Exposed Length</th>
<th>Largest Diameter</th>
<th>Wrench Flats</th>
</tr>
</thead>
<tbody>
<tr>
<td>FF-251-4FP</td>
<td>AHC1679556</td>
<td>Parker</td>
<td>Coupler</td>
<td>1/4</td>
<td>1/4-18 NPSF</td>
<td>1.79 in.</td>
<td>N/A</td>
<td>1.06 in.</td>
<td>1</td>
</tr>
<tr>
<td>FF-252-4FP</td>
<td>AHC1679557</td>
<td>Parker</td>
<td>Nipple</td>
<td>1/4</td>
<td>1/4-18 NPSF</td>
<td>1.86 in.</td>
<td>1.15 in.</td>
<td>1.06 in.</td>
<td>1</td>
</tr>
<tr>
<td>FF-371-6FP</td>
<td>AHC1679559</td>
<td>Parker</td>
<td>Coupler</td>
<td>3/8</td>
<td>3/8-18 NPSF</td>
<td>2.39 in.</td>
<td>N/A</td>
<td>1.2 in.</td>
<td>1.06</td>
</tr>
<tr>
<td>FF-372-6FP</td>
<td>AHC1679562</td>
<td>Parker</td>
<td>Nipple</td>
<td>3/8</td>
<td>3/8-18 NPSF</td>
<td>2.31 in.</td>
<td>1.71 in.</td>
<td>1.08 in.</td>
<td>0.94</td>
</tr>
<tr>
<td>FF-371-8FP</td>
<td>AHC1679561</td>
<td>Parker</td>
<td>Coupler</td>
<td>3/8</td>
<td>1/2-14 NPSF</td>
<td>2.8 in.</td>
<td>N/A</td>
<td>1.2 in.</td>
<td>1.06</td>
</tr>
<tr>
<td>FF-372-8FP</td>
<td>AHC1679564</td>
<td>Parker</td>
<td>Nipple</td>
<td>3/8</td>
<td>1/2-14 NPSF</td>
<td>2.64 in.</td>
<td>2.04 in.</td>
<td>1.19 in.</td>
<td>1.06</td>
</tr>
<tr>
<td>FF-501-8FP</td>
<td>AHC1679566</td>
<td>Parker</td>
<td>Coupler</td>
<td>1/2</td>
<td>1/2-14 NPSF</td>
<td>3 in.</td>
<td>N/A</td>
<td>1.54 in.</td>
<td>1.25</td>
</tr>
<tr>
<td>FF-502-8FP</td>
<td>AHC1679568</td>
<td>Parker</td>
<td>Nipple</td>
<td>1/2</td>
<td>1/2-14 NPSF</td>
<td>2.75 in.</td>
<td>2.11 in.</td>
<td>1.38 in.</td>
<td>1.25</td>
</tr>
<tr>
<td>FF-751-12FP</td>
<td>AHC1679570</td>
<td>Parker</td>
<td>Coupler</td>
<td>3/4</td>
<td>3/4-14 NPSF</td>
<td>3.5 in.</td>
<td>N/A</td>
<td>1.94 in.</td>
<td>1.75</td>
</tr>
<tr>
<td>FF-752-12FP</td>
<td>AHC1679571</td>
<td>Parker</td>
<td>Nipple</td>
<td>3/4</td>
<td>3/4-14 NPSF</td>
<td>3.38 in.</td>
<td>2.47 in.</td>
<td>1.73 in.</td>
<td>1.5</td>
</tr>
<tr>
<td>FF-1001-16FP</td>
<td>AHC1679554</td>
<td>Parker</td>
<td>Coupler</td>
<td>1</td>
<td>1-11 1/2OFSF</td>
<td>4.14 in.</td>
<td>N/A</td>
<td>2.25 in.</td>
<td>1.87</td>
</tr>
<tr>
<td>FF-1002-16FP</td>
<td>AHC1679555</td>
<td>Parker</td>
<td>Nipple</td>
<td>1</td>
<td>1-11 1/2OFSF</td>
<td>3.85 in.</td>
<td>2.6 in.</td>
<td>2.17 in.</td>
<td>1.87</td>
</tr>
</tbody>
</table>

Parker offers a variety of hose crimpers to suit your requirements.

Karrykrimp 2

The Karrykrimp 2 is a portable, compact and ruggedly built crimper that is an economic alternative for the self-assembly of Parker’s hose and fittings. Parker’s Karrykrimp 2 models can crimp Parkrimp-style straight or bent-stem stainless and stainless steel fittings up to 1 ¼” in diameter including 25, 26, 43, 70, 71, 73, 77, 78, 81 and HY series.

The Karrykrimp 2 is now available in a modular design or bench mounted with all the familiar Parkrimp System advantages.

Your Airline representative can help you select the best crimper for your needs.

Call Airline toll free: 800-999-7378
60 Series Steel General-Purpose Hydraulic Quick Couplings

60 series double shut-off couplings are versatile for use across a spectrum of hydraulic applications where fluid lines require connection and disconnection. Couplers and nipples are available in a wide range of sizes and materials.

**Features**
- Accepts ISO 7241-1, Series B compliant nipples
- Poppet valves along with a metal-to-metal valve stop maintains valve alignment and prevents flow checking
- Steel coupler sleeve and steel nipple body are hardened to be wear resistant

<table>
<thead>
<tr>
<th>Mfr. Part No.</th>
<th>AHC Part No.</th>
<th>Mfr.</th>
<th>Description</th>
<th>Thread Size</th>
<th>Overall Length</th>
<th>Exposed Length</th>
<th>Wrench Flats</th>
<th>Largest Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>H2-62</td>
<td>AHC1679708</td>
<td>Parker</td>
<td>Coupler - Female Thread</td>
<td>1/4-18 NPTF</td>
<td>2.26 in.</td>
<td>N/A</td>
<td>0.81</td>
<td>1.14 in.</td>
</tr>
<tr>
<td>H2-62-T6</td>
<td>AHC1679709</td>
<td>Parker</td>
<td>Coupler - Female Thread</td>
<td>9/16-18 ORB</td>
<td>2.41 in.</td>
<td>N/A</td>
<td>0.81</td>
<td>1.14 in.</td>
</tr>
<tr>
<td>H2-63</td>
<td>AHC1679710</td>
<td>Parker</td>
<td>Nipple - Female Thread</td>
<td>1/4-18 NPTF</td>
<td>1.54 in.</td>
<td>0.55 in.</td>
<td>0.75</td>
<td>0.87 in.</td>
</tr>
<tr>
<td>H2-63-T6</td>
<td>AHC1679711</td>
<td>Parker</td>
<td>Nipple - Female Thread</td>
<td>8/16-18 ORB</td>
<td>1.69 in.</td>
<td>0.7 in.</td>
<td>0.88</td>
<td>1.01 in.</td>
</tr>
<tr>
<td>H2-65</td>
<td>AHC1679704</td>
<td>Parker</td>
<td>Coupler Dust Plug Aluminum</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H2-65M</td>
<td>AHC1679705</td>
<td>Parker</td>
<td>Coupler Dust Plug Rubber</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H2-66</td>
<td>AHC1679707</td>
<td>Parker</td>
<td>Nipple Dust Cap Aluminum</td>
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<tr>
<td>H2-66M</td>
<td>AHC1679708</td>
<td>Parker</td>
<td>Nipple Dust Cap Rubber</td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>H3-62</td>
<td>AHC1678605</td>
<td>Parker</td>
<td>Coupler - Female Thread</td>
<td>3/8-18 NPTF</td>
<td>2.49 in.</td>
<td>N/A</td>
<td>0.88</td>
<td>1.4 in.</td>
</tr>
<tr>
<td>H3-62-T8</td>
<td>AHC1678606</td>
<td>Parker</td>
<td>Coupler - Female Thread</td>
<td>3/4-16 ORB</td>
<td>2.75 in.</td>
<td>N/A</td>
<td>1</td>
<td>1.4 in.</td>
</tr>
<tr>
<td>H3-63</td>
<td>AHC1678609</td>
<td>Parker</td>
<td>Nipple - Female Thread</td>
<td>3/8-18 NPTF</td>
<td>1.68 in.</td>
<td>0.54 in.</td>
<td>0.88</td>
<td>1.01 in.</td>
</tr>
<tr>
<td>H3-63-T8</td>
<td>AHC1678610</td>
<td>Parker</td>
<td>Nipple - Female Thread</td>
<td>3/4-16 ORB</td>
<td>1.94 in.</td>
<td>0.8 in.</td>
<td>1</td>
<td>1.5 in.</td>
</tr>
<tr>
<td>H3-65</td>
<td>AHC1685088</td>
<td>Parker</td>
<td>Coupler Dust Plug Aluminum</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H3-65M</td>
<td>AHC1685089</td>
<td>Parker</td>
<td>Coupler Dust Plug Rubber</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H3-66</td>
<td>AHC1685090</td>
<td>Parker</td>
<td>Nipple Dust Cap Aluminum</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H3-66M</td>
<td>AHC1685091</td>
<td>Parker</td>
<td>Nipple Dust Cap Rubber</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H4-62</td>
<td>AHC1678617</td>
<td>Parker</td>
<td>Coupler - Female Thread</td>
<td>1/2-14 NPTF</td>
<td>2.87 in.</td>
<td>N/A</td>
<td>1.12</td>
<td>1.77 in.</td>
</tr>
<tr>
<td>H4-62-T10</td>
<td>AHC1678618</td>
<td>Parker</td>
<td>Coupler - Female Thread</td>
<td>7/8-14 ORB</td>
<td>3.05 in.</td>
<td>N/A</td>
<td>1.12</td>
<td>1.77 in.</td>
</tr>
<tr>
<td>H4-63</td>
<td>AHC1678619</td>
<td>Parker</td>
<td>Nipple - Female Thread</td>
<td>1/2-14 NPTF</td>
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Brass Pipe Fittings

Parker’s Brass Pipe Fittings meet all functional requirements of SAE J530 and SAE J531. All threads are made to dryseal standards. Common configurations are shown below. Inquire about specific configurations and sizes.

Features
- All brass construction
- Up to 1000 psi
- -65° to +250°F

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2018 Hydraulic Preferred Products Catalog

Hose & Fittings

Code 61 Flat Socket Weld Pipe

Features
- Carbon steel
- Code 61, 4-bolt o-ring flange pattern
- Socket-weld style for welded pipe, ½" through 3"
Code 61 NPTF Thread 4-Bolt Flanges

Features
- Carbon steel
- Code 61, 4-bolt o-ring flange pattern
- Female NPTF, ½” through 3”

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Code 61/62 SAE Thread 4-Bolt Flanges

Features
- Carbon steel
- Code 61 and 62, 4-bolt o-ring flange pattern
- Female SAE, ½” through 2”
- Gauge port available

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PP Series Power Packs

PP Standard Power Packs utilize external gear pumps with standard industrial keyed shaft. Motors can be run at 60Hz/1750RPM/208-230/460V or 50Hz/1425RPM/190-208/380-416V. Motors are NEMA frame with female shaft.

Features

- Powder-coated steel reservoir
- System relief valve & gauge
- One-station D03 aluminum bar manifold
- PPS = 10µ absolute. PP10, 20 = 16µ absolute – in-tank return filter/filler/breather
- Check valve in pressure line
- Spare in-tank return down-line

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The next generation performance of HPUs: Rexroth’s GoPak Hydraulic Power Unit

Rexroth GoPak™ hydraulic power units (HPUs) bridge the gap between standard market products and engineered-to-order power units. You now get, high performance robust HPUs where small footprint requirements are a prerequisite. GoPak is ideal for such applications as machine tool, plastics, automotive, material handling, presses, marine, steel, and a variety of other hydraulic applications.

To learn more how Rexroth’s GoPak can help your application, call your local Airline sales engineer or our toll-free number below.
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Below is a comprehensive list of the product lines Airline carries, including additional lines which may not be listed on the previous pages. We have decades of experience helping our customers source the right products to fit their specific application needs. *Please note that certain product lines may not be available in all areas.*

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