

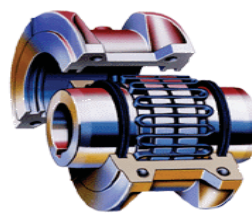
## FALK SHAFT COUPLINGS



### Falk Lifalign Gear Couplings

#### Superior Features:

- 4-Point seal improves lubrication retention during misalignment; high-temperature seals are available
- AGMA bolt pattern makes Lifalign easily interchangeable with any standard coupling on your existing applications
- AGMA 20° full-depth tooth triple crowning eliminates tip loading, and reduces backlash and radial clearances
- High-strength Grade 8 Bolts provide added protection against failure
- Lube holes located near the tooth mesh to ensure an adequate grease reservoir during initial startup
- Massive Flex Hub provides the industry's largest bore capacity for the most economical selection possible
- Non-turning prevailing torque locknut provides a reliable hold with fewer parts



### Falk Steelflex Grid Couplings

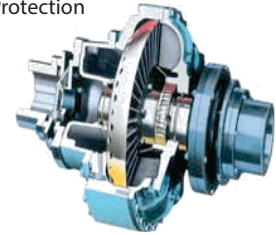
#### Features:

- Quick, Easy Installation
- Replace-In-Place Design
- Equipment Protection Against Shaft Misalignment
- Equipment Protection Against Shock/Vibratory Loads
- A Tempered And Shot Peened Alloy Steel Grids
- Leading To Lowest Lifetime Operating Cost and
- Longer Life
- 5 years warranty when used with Falk Long Term Grease

### Falk True Fluid Couplings

#### Benefits:

- Soft Cushioned Starts
- Increased Starting Torque
- Overload Protection



### Falk Wrapflex Elastomeric Couplings

#### A Simple Way to Increase Productivity

- 9 sizes
- Torque range: 133,000 lb-in (15,028 Nm)
- Bore capacity: 7 1/4" (186 mm)
- "Replace in place"
- Non-lubricated/low maintenance
- Easy Installation



## LINK-BELT - OILFIELD ROLLER CHAINS APPROVED PERFORMANCE BY API.



#### Pioneering corrosion protection

- 8 - 10 times better corrosion protection than the best competitor
- 100 % better than the competitors in the
- Stiffness Test in aggressive surroundings



#### Improved wear protection

- 8 - 12 % against the wear compared to previous version
- RexPro lubricant offers more than 150 % better protection against the cold welding



#### High dynamic loading resistance

- Ball drifting of the plate holes
- All chain parts are shot peened to improve fatigue resistance
- Link-Belt roller chains are pre-run-in under high load
- Rollers are high fatigue strength for resisting running-in impacts



## OTHER SHAFTS COUPLINGS

### A Comprehensive Range Of Shaft Couplings

#### Available On Request:

- Jaw Couplings
- Tyre Couplings
- Chain Couplings
- Pin And Bush Couplings
- Disc And Spacer Disc Couplings etc



## ROTAR UNIVERSAL JOINTS MAKE-IN-ITALY

- AL Series with high benefit-cost ratio. Perfect for medium-low speed and limited transmitted torque.
- With a long term reliability, it is the perfect choice for general purpose applications
- Material: Steel and SS304



## EATON VICKERS HYDRAULIC COMPONENTS

### AxisPro™ KBH\*-8 10 Series



Built on the proven KB Servo Proportional Valve technology, Eaton's next generation proportional valve provides two levels of performance in a two stage modular design. These four-way solenoid operated proportional valves offer high dynamic performance which enables them to be used in closed loop applications previously only possible using conventional servo valves. KBH

### Eaton DuraForce® Pumps, Motors and Valve



- DuraForce pumps, motors and valves are the heart of your hydraulic system. Engineered for precision and power.
- Consistent, accurate power delivery helps operators get the job done faster.
- Efficient performance at peak pressures of 500 bar can meet the high-pressure needs of virtually any application.

### External Gear Pump GD5 Series



GD5 Gear pump is a floating bushing, pressure balanced design with a high strength extruded Aluminum Body, Aluminium or Cast Iron End Cover & Cast Iron Mounting Flange.

### PVM Variable Displacement Piston Pumps



Eaton M Series pumps are open circuit, axial piston designs. A variety of control options allows the pumps to perform most efficiently in a specific application. Efficiency of the pump controls allows down-sizing of system cooling needs, saving up front cost in the machine. Alternatively, cooling capacity could be kept the same and the flow capability of the system increased, thus improving performance and customer satisfaction.

## DONGHUA ROLLER CHAINS LARGEST CHAIN MANUFACTURER IN CHINA

#### Products Range:

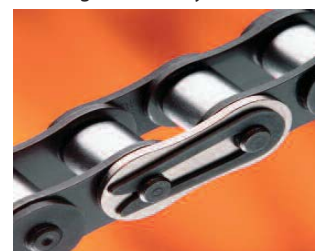
- ANSI A Series Roller Chains
- Din/ISO B Series Roller Chain
- Heavy Duty H Series Roller Chain
- Conveyor Chains
- Stainless Steel Chains
- Leaf Chains
- Drive Chains



## RENOLD ROLLER CHAINS UNIQUE QUALITY AND PERFORMANCE

#### Synergy

- Offering unbeatable wear resistance and fatigue performance capabilities,
- Renold Synergy is designed to maximise productivity and minimise downtime
- Superior wear and fatigue resistance
- Up to six times longer working life than any other standard chain
- Virtually dry-to-the-touch for easier handling and installation
- Distinctive platinum coloured connecting link for easy identification



## HYDRAULIC SEAMLESS TUBES STEEL AND STAINLESS STEEL

#### Sanko-Japan

- Grade: ST37.4, SS316/316L
- Standard: ASTM A312, ASTM A213, ASTM A269
- Imperial and MM Sizes
- Bright Annealed & Pickled
- SS316/316L With Mo Content >2.5 Available



# LEE SENG

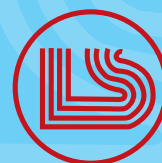
HARDWARE MACHINERY PTE. LTD.



www.leeseng.com.sg

Fluid Conveyance and Power Transmission Products

With more than 50 years of experience, substantial investment in stock and equipments, together with market leaders such as **Eaton Aeroquip, Walterscheid, Vickers, Weatherhead, Uniflex, Falk, Link-Belt, Renold, Donghua, Rotar, Sanko, and Dolphinflex** behind us, we will continue to provide the consistent, reliable and best quality products and services at the most competitive price to serve our valuable customers



Absolute Products Performance

LEE SENG HARDWARE MACHINERY PTE. LTD.

No.83, Tagore Lane, Singapore 787525.

Tel: 65-6298 8700 (4 lines), 6281 4661, 6280 7403, 6280 4394

Fax: 65-6296 8172


Email: leesenghardware@singnet.com.sg

Website: www.leeseng.com.sg





### EATON AEROQUIP TRIPLE CROWN HOSE



**Triple Crown**

- Pressure
- Temperature
- Abrasion Resistance

**Increase Pressure**

Our improved designs have enabled us to increase pressures on select Aeroquip hose styles by an average of 24% over the competition.


**Increase Temperature**

Improvements in higher hose operating temperatures are the direct result of Eaton's advancements in rubber technology. Eaton Aeroquip now has the highest temperature ratings compared to similar competitive products designed to meet EN specifications. Aeroquip braided and spiral hose part numbers now meet -40°C to +127°C (-40°F to +260°F).

**Increase Abrasion Resistance**


Aeroquip Dura-Tuff™ cover for better abrasion. More resistant than the traditional rubber covers.

**GH663 MatchMate Global™**




1/2 SAE Bend Radius  
Meets and exceeds  
SAE 100R1AT Type S, EN853 1SN,  
ISO 1436-1 Type 1SN

**GH781 MatchMate Global™**



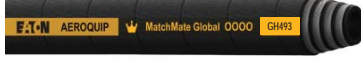
Meets and exceeds  
SAE 100R16 Type S, EN857 2SC,  
ISO 11237-1 Type 2SC

**GH793 MatchMate Global™**



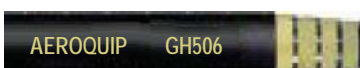
Meets and exceeds  
SAE 100R2AT Type S, EN853 2SN,  
ISO 1436-1 Type 2SN

**GH493 MatchMate Global™**



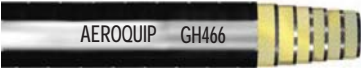
1/2 SAE Bend Radius  
Meets and exceeds  
SAE 100R12, EN856 Type R12,  
EN856 4SP Performance (-8 thru -16)

**GH506 High pressure hydraulic hose**




DIN EN856/4SH

**GH466**



EN 856/R15 6-Spiral-Hose  
Tested to 2-MILLION flex-impulse cycles!

### EATON AEROQUIP GLOBAL HYDRAULIC HOSE END FITTINGS




The Global OTC (On The Cover), TTC & TTC12 (Through The Cover) are crimped fittings design to match with the Global hoses.

The advantages of the MatchMate Global Hose and Fittings:

- Zero cool down leakage.
- 4:1 Safety Factor
- Short Hose Tail
- Dura-Kote Plating. Rated 1000 hours of corrosion resistance.
- Three time more protection compared to earlier generations of plating.

A wide range of threads system are available such as NPTF, JIC, ORS, SAE Code 61/62 Flange, BSP, Metric DKOL/DKOS etc. Materials available in **Steel** and **Stainless Steel**.

### EATON AEROQUIP CARBON STEEL ADAPTERS



Eaton's carbon steel adapters put the pressure on competition with it's 3 in 1 solution

**1 Pressure**

Higher working pressures when all Eaton fluid conveyance components used together.

**2 Performance**


Introducing Eaton's Dura-Kote™ plating which now provides up to 3x more corrosion protection.

**3 Industrial**

Eaton's Carbon SteelAdapters are manufactured in accordance with SAE(Society of Automotive Engineers) Standards

A wide range of threads system are available such as NPTF/NPTF, NPTF/JIC, NPTF/SAE O-RING, JIC/JIC, SAE O-RING/JIC, ORS/ORS, SAE SPLIT FLANGE/JIC etc. Materials available in **Steel** and **Stainless Steel**.

### EATON AEROQUIP SAE 100R5 HOSE AND REUSABLE FITTINGS



**1503 Textile Cover**



SAE 100R5

**FC300 AQP Textile Cover**



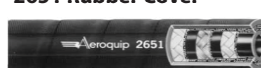
Exceed SAE 100R5

**FC234 AQP**



High Temperature Fuel and Oil

**2651 Rubber Cover**



SAE 100R5

**FC355 AQP Rubber Cover**



Engine & Airbrake



Male Pipe 412-44-412-      SAE 37° (JIC) swivel 411-44-411-      SAE 37° (JIC) swivel 4411-      SAE 45° swivel 401-      SAE 45° swivel 4401-      45° Elbow 190297 - Universal Swivel 190299 - SAE 45° Swivel 190265 - SAE 37° (JIC) Swivel      90° Elbow (Short) 190296- Universal Swivel, 190302- SAE 45° Swivel, 190261- SAE 37° (JIC) Swivel

A wide range of threads system are available for reusable fittings such as NPTF, JIC, ORS, SAE Code 61/62 Flange, BSP, Metric DKOL/DKOS etc. Materials available in Steel, Brass and Stainless Steel.

### OTHER RANGE OF EATON AEROQUIP HOSE AND FITTINGS

**Socketless Hoses (Push-On)**



2556/2565      FC332 AQP

**SAE 100R4 Hoses (Suction)**



2661 AQP      FC619 Flexible 1/2 SAE Bend

**SAE 100R14A Hoses Stainless Steel Braided**



2807 PTFE      2808 PTFE

**Eaton Quick Disconnect Couplings**



**Eaton Flexmaster Joints**



Flexmaster joints are available in both standard and Self restrained styles suitable for pipe and tube. Features:

- Save time. Make pipe and tube connection easier
- Used on plain end tube or pipe
- Absorbs vibration
- Easy to install
- Even misaligned piping is no problem

**Eaton Winner Hose**



EC110 EN853 1SN  
EC210 EN853 2SN  
EC115 EN857 1SC  
EC215 EN857 2SC  
SAE 100R16 Performance

**Application:** Hydraulic, Pneumatic, Water, Chemical, Gas etc

**Model:** 5600 Series, 5100 Series, FF Series, FD86 Series, HK Series etc. To ISO 7241-1A Interchange, ISO 7241-1B Interchange, ISO 16028 Interchange, HTML Interchange etc

**Pressure Rating:** Up to 10,000 psi

**Material:** Brass, Steel, SS304, SS316, Plastic

**Eaton Swivel Joints**



**Features:**

- Balanced-pressure design
- Low-drop dimensions
- Contamination seals
- 360° rotation
- Standard O-ring design

**Eaton's Walterscheid™ Trilogy**

Tube connections for all hydraulic systems



WALFORM™



WALRING



WALPRO®

Exceptional advantages:

- Simple assembly with pre-fabricated tube ends
- Best-in-class performance
- Maximum system stability and safety
- Highest quality
- Guardian Seal corrosion protection
- Global availability
- Carbon steel and stainless steel options (1.4571)

**Silicon Hose**

Excel In Extreme Temperatures And High Vibration Situations.

Heater Hose  
Coolant Hose  
Turbo Hose  
Charge Air Cooler Hose  
Hump Hose

### ELASTOMER SEALS



**Products Range:**

- Hydraulic Seal
- Pneumatic Seal
- Back-Up Ring
- Vee Packing
- PTFE Seal
- Flexiseal
- V-Ring Seal
- O-Ring


**Materials:**

- NBR
- Viton
- EPDM
- Silicon
- PTFE

### HOSE ASSEMBLY EQUIPMENTS



**Aeroquip FT1380**  
Pro Crimp Machine  
User Friendly Operation  
Crimps Lightweight Hose  
Preset Crimp Settings  
Electronic Controls  
Upright Design For Easy Insertion  
Compact; Requires Little Space



**Uniflex EM 3 DC**  
This cutting machinewith its 3 kW drive is also available as an ecoline or DC variant. For hydraulic hoses up to 1 ¼”.



**Uniflex EM 3**



**Eaton ET1000**  
Portable, Light Duty, Positive Stop  
Crimp Machine



**Uniflex S6**  
Designed for crimping hydraulic hose assemblies up to 2” and industrial hose assemblies up to 3”.

Crimp Machines up to Hydraulic Hose SAE 100R15-2” and Industrial Hose 8”are available.

### EATON INDUSTRIAL HOSE



**Reliable Solutions**



CEMENT, PLASTER AND GROUT      GASEOUS      PETROLEUM      OIL AND GAS EXPLORATION      AIRCRAFT REFUELING      SPECIALTY

AIR AND MULTIPURPOSE      FOOD AND BEVERAGE      CHEMICAL      MATERIAL HANDLING      STEAM

Eaton Industrial Hose offers dependable parts and solutions to optimize **Performance**.

### DOLPHINFLEX COMPOSITE HOSE

Established since 1993, Dolphinflex composite hoses are used for a variety of fluid transfers such as oil, chemical, vapour recovery LPG, LNG etc. The high quality and performance nature of the composite hoses have enabled major companies to enhance safety standards and reduce hose turnover.

Manufactured and tested under quality control regulations systems by IMO/IBC, IGC regulations and EN 13765:2010, EN 13766:2010, EN 1474-2:2008 standards.

Type Approval: NK, Lloyd's Register, DNV, ABS, BV, KR

Hose size: 1” to 12”

Hose Material: PTFE, Polypropylene (PP), Polyamide

Inner and outer wires: SS316 or Galvanised

Fittings: Flanges, Camlocks, Chicago Couplings, Dry Break, Emergency Release Coupling etc.

**PTFE Red**



**P. P Green**



**LPG White**



**LNG STS**

