# 5500-Series API Coupler



### **Application**

 Combined with API adapters, these couplers are suitable for rail car and tank truck loading or unloading

### **Features**

- Locking five-cam design provides easy alignment and tight connection
- Modular design allows various face seal combinations to be compatible with different alternative fuels, performance levels, and applications
- Replaceable nose seal can be changed without removing coupler from loading arm
- Fully interlocked collar prevents fitting from opening when disconnected and from being disconnected while opened
- · 4" TTMA inlet mounting flange connection
- · Ball-end handle for easy and comfortable operation
- · No special tools needed for maintenance

### **Materials**

- · Body: 356 T6 aluminum anodized hard-coat
- · Cam: stainless steel
- Poppet: 356T6 aluminum anodized hard-coat
- · Seals: FKM-GFLT standard; Baylast, EPDM, Fluoroelastomer, FKM-B
- · Link, shaft, pin, crank: hardened 17-4PH stainless steel
- · Handle: aluminum, stainless steel

### **Specifications**

- · Seal operating temperature:
  - Baylast™: -35°F to 212°F (-37°C to 100°C)
  - EPDM: -60°F to 250°F (-50°C to 121°C)
  - FKM-B: -15°F to 400°F (-26°C to 204°C)
  - FKM-GFLT: -35°F to 400°F (-37°C to 204°C)
  - Fluorosilicone: -50°F to 350°F (-45°C to 176°C)
- Flow rate: 600 GPM at 3 PSI pressure drop; max flow rate: 1,000 GPM
- Fully compliant with API RP1004:2003 specifications
- Maximum allowable working pressure: 150 PSI
- · Surge pressure: 350 PSI

Description	Part #
5500 API rack coupler FKM-GFLT aluminum handle	5500G
5500 API load coupler FKM-B seals with aluminum handle	5500B
5500 API rack coupler Baylast aluminum handle	5500BL
5500 API rack coupler EPDM aluminum handle	5500E
5500 API rack coupler Fluorosilicone aluminum handle	5500F

<sup>\*</sup>Normal wear and tear items (including seals) not covered.



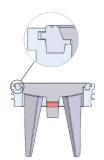
# **Design Features**

# Seal Design

# 5500-Series

The Right Connection®

# 5500



# Coiled Inconel® Springs

# Improvement

**Benefits** 

 10 Inconel coiled springs have been added. Coiled springs put more pressure on the nose seal-to-truck API adapter to help prevent leaks.

The burst pressure of the new nose seal is **450 PSI**, which is greater than that of the bonded nose seal at

Removable seal design is keyed in place and tested to

450 PSI without seal ejection.

### Benefit

This will solve the occasional rusting and breaking issues.



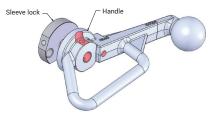
### **Two-Piece Handle**

### **Improvement**

 Two-piece handle is attached to the coupler with two separate cross pins.

### **Benefit**

 Should the handle cross pins be sheared away, the interlock will remain operational, preventing the coupler from opening.



# **Accessories**

## Part #: 5501

API coupler drain valve

### **Benefits**

- Allows the operator to drain a loading arm easily and safely.
- Fits all API bottom loading couplers

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### Part #: 5204H

Hanger for API rack coupler parking brake

### Benefit

Neatly store and secure loading arms while not in use





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