


# Fuel Tanker Loading and Unloading

## API Valves

|                      |  |
|----------------------|--|
| Application:         | Used for bottom loading and unloading of petroleum tankers, API valves are typically mounted to the piping below each tank compartment, using the built in 4" TTMA flange connection.<br>Two styles are available:<br>1) Load only (without handle) which permits terminal loading only. Tanker unloading would be achieved through another tank connection.<br>2) Load/unload (with a handle) which permits both terminal loading, and fuel unloading through the valve.  |
| Standards:           | Manufactured to American Petroleum Institute standard API RP-1004, which allows for positive connection to drop adapters and rack couplers such as the Dixon Bayco 5300/5400 series rack coupler.  |
| Materials:           | Aluminum body, and handle *. Anodized Hard Coat Aluminum nose ring. Stainless steel hardware. Baylast™*, FKM* and PTFE Seals *. Nylon sight glass *. Acrylic full body sight glass.  |
| Features & Benefits: | <ul style="list-style-type: none"> <li>• Unique fluid flow sight level *</li> <li>• Ergonomically curved handle operates on a short 62° degree stroke (handle is removable on some models *)</li> <li>• Any required maintenance is simplified, Dixon Bayco API Valves can be completely rebuilt without the need to remove the valve from the tanker *</li> <li>• Nose ring is anodized hard coat aluminum, which in most applications will provide years of trouble free service. Nose ring can be rotated to provide a fresh connection surface.</li> <li>• Biofuel Compatible, up to E100 (100% Ethanol) * and B100 (100% Bio Diesel). </li> </ul> <p>For detailed fuel compatibility, please refer to the chart shown on page 4.</p> |

\* Dependent upon part #, see part number list below for more details

## Load/Unload Valves



5204



5204SFI

| Part #         | Description  | Overall Length | Fuel Compatibility  |
|----------------|--|----------------|---|
| <b>5204NG</b>  | Fixed handle with Baylast™ seals (no sight glass)                        | 7"             | Gasoline and diesel, up to E100 and B100 biofuels           |
| <b>5204NGC</b> | Canadian API with Baylast™ seals (no sight glass)                        | 7"             | Gasoline and diesel, up to E100 and B100 biofuels           |
| <b>5204</b>    | Fixed handle, Baylast™ seals and sight glass                             | 7"             | Gasoline and diesel, up to E20 and B100 biofuels            |
| <b>5204C</b>   | Canadian API with Baylast™ seals and sight glass                         | 7"             | Gasoline and diesel, up to E20 and B100 biofuels            |
| <b>5204SNG</b> | Fixed handle, Baylast™ seals and stainless steel spring (no sight glass) | 7"             | Crude oil, gasoline and diesel, up to E20 and B100 biofuels |
| <b>5204TNG</b> | Fixed handle with PTFE seals (no sight glass)                            | 7"             | B100 bio diesel   |
| <b>5204NGV</b> | Fixed handle with FKM seals (no sight glass)                             | 7"             | Gasoline and diesel, up to B100 bio diesel                  |
| <b>5204SFI</b> | Fixed handle, Baylast™ seals and inline full body sight glass            | 8.81" *        | Gasoline and diesel, up to E100 and B100 biofuels           |

\* Overall length of 5204SFI is the same as a 5204 API valve, gasket and 1¼" sight flow indicator combined

## Load Only Valves



5204L

**NEW**

| Part #          | Description   | Overall Length | Fuel Compatibility  |
|-----------------|---|----------------|---|
| <b>5204LNG</b>  | Baylast™ seals (no sight glass)                       | 7"             | Gasoline and diesel, up to E100 and B100 biofuels           |
| <b>5204LSNG</b> | Baylast™ seals (no sight glass) with stainless spring | 7"             | Crude oil, gasoline and diesel, up to E20 and B100 biofuels |
| <b>5204L</b>    | Baylast™ seals and sight glass                        | 7"             | Gasoline and diesel, up to E20 and B100 biofuels            |

See page 10 for TTMA flange gaskets.



Biofuel Compatible, see fuel compatibility chart on page 4 for more information.

# Fuel Tanker Loading and Unloading

## API Dust Caps



5205



5000-24



5000-25



5000-24L

| Part #              | Description   |
|---------------------|---|
| <b>5205</b>         | Aluminum API cap with flat buna gasket, with nylon quick release lever        |
| <b>5000-24 *</b>    | Aluminum API cap with O-ring Baylast™ seal *, with brass cam arms             |
| <b>5000-25</b>      | Nylon API cap with flat buna seal, with plated steel padlockable roller lever |
| <b>NEW 5000-24L</b> | Aluminum API cap with O-ring Baylast™ seal *, with brass locking cam arms     |

\* FKM seal available

## API Drop Adapters



4540



4540SG



4502



4540F



4504ASSM

| Part #              | Description   | Fuel Compatibility                                |
|---------------------|---|---|
| <b>4530</b>         | API to 3" drop adapter, Baylast™ O-ring seal                                | Gasoline and diesel, up to E100 and B100 biofuels |
| <b>4530SG</b>       | API to 3" drop adapter, Baylast™ flat gasket, in line sight glass           | Gasoline and diesel, up to E100 and B100 biofuels |
| <b>4540</b>         | API to 4" drop adapter, Baylast™ O-ring seal                                | Gasoline and diesel, up to E100 and B100 biofuels |
| <b>4540V</b>        | API to 4" drop adapter, FKM O-ring seal                                     | Gasoline and diesel, up to B100 bio diesel        |
| <b>4540SG</b>       | API to 4" drop adapter, Baylast™ flat gasket, one piece, inline sight glass | Gasoline and diesel, up to E100 and B100 biofuels |
| <b>4502</b>         | API to 4" drop adapter, Buna-N seals, two piece design with sight glass     | Gasoline and diesel, up to E100 and B100 biofuels |
| <b>4540SGV</b>      | API to 4" drop adapter, FKM flat gasket, inline sight glass                 | Gasoline and diesel, up to B100 bio diesel        |
| <b>4540F</b>        | API to 4" drop coupler, Buna-N gasket                                       | Gasoline and diesel, up to E100 and B100 biofuels |
| <b>NEW 4502ASSM</b> | API to 4" drop adapter, Baylast™ O-ring w/ sight glass, two piece design    | Gasoline and diesel, up to E100 and B100 biofuels |
| <b>NEW 4504ASSM</b> | API to 4" drop coupler, Buna-N gasket w/ sight glass, two piece design      | Gasoline and diesel, up to E100 and B100 biofuels |

## Gravity Drop Adapters



31440-225AL



41440-225AL

**NEW 2014**

| Part #             | Description                                       | Fuel Compatibility                                |
|--------------------|---|---|
| <b>31440-225AL</b> | 4" API to 3" drop adapter with Buna-N flat gasket | Gasoline and diesel, up to E100 and B100 biofuels |
| <b>41440-225AL</b> | 4" API to 4" drop adapter with Buna-N flat gasket | Gasoline and diesel, up to E100 and B100 biofuels |