

# E2304 | Bottom Hose Loading Arm



**Introducing the Emco Wheaton range of Standard Loading Arms. Each of these arms is available as configured by ordering the specific part number as listed. The Standard Loading Arms process is created to bypass specific Engineering approval through the use of standard drawings and specifications. The modularized loading arm design allows for rapid assembly and improved lead times. Customers do not need to “sign-off” on an approval drawing and orders using these part numbers will proceed directly to production.**

Each range of arms is also available as a configured option. Optional customized units are available where alternate materials of construction or specific added features are required.

The E2304 Bottom Hose Loading Arm is designed specifically for bottom filling of multiple compartment tank trucks. Another added benefit of the E2304 bottom hose loader is cross-over can be achieved for loading multiple compartments simultaneously. E2304 is often the loading arm of choice when terminals require a retro-fit from top to bottom loading.

## MATERIALS AND STANDARD EQUIPMENT

- The standard unit features a combination of carbon steel schedule 40 material & stainless steel single braided hose (See accompanied part numbers for varying dimensions)
  - Standard in nominal pipe diameters 4 inches
  - Base swivel assembly features the incomparable Emco Wheaton D2000 series swivel joints with hardened ball bearing raceways, H-block sealing system supplied with standard grease
  - Mobil Lux Ep-2i isolating raceway from liquid contact – and easy infrequent service requirements that will reduce the lifecycle cost of your loading system
  - Style 40, D2000 series swivel joint provided at the apex portion of the loading arm
  - Balanced using the Emco Wheaton “easy-to-adjust” spring cylinder system – which enhances operator safety and reduces the space required to operate the arm
  - 4” Diameter stainless steel single braided hose with TTMA flanged connections (varying lengths available)
  - Emco Wheaton Standard paint system Amerlock 400 Resin Standard Gray
  - ASME Section 9 welding program in place and per Emco Wheaton welding specification ES 8
  - Standard air test 5-80 PSI conforming to Emco Wheaton procedure
  - Standard range of motion is 50 degrees. 20 degrees (park position) to -30 degrees (load position)
  - Standard arm lengths are as noted
  - Pressure drop and flow rate calculations available upon request
  - Maximum flow rate 800GPM and Maximum pressure rating 150 PSI at 70°F
  - Depending on your rack design and piping configurations, Emco Wheaton Standard E2304 loading arms can be supplied with the following based swivel joint options:
    - Up feed configuration
    - A right-hand or left-hand design (see accompanying images)
  - Standard Emco Wheaton/Gardner Denver Commercial terms and Conditions and Warranties apply to all orders (Complete text available upon request)
- ## SPECIFICATIONS
- As an option, the E2304 standard is available complete with J0451 API Coupler and aluminum spool piece & Style 30, D1086 aluminum bottom loading swivel joint provided at the outboard portion of the loading arm
  - Standard available seal materials are Nitrile (Buna) or Viton
  - EW USA is an ISO 9001:2008 registered company