

CO₂ Transfer Pumps

Low to Low Pressure CO₂ Transfer Pumps



MC-3-SS with motor on baseframe

ASCO CO₂ Transfer Pumps have cast steel casings and long life shaft seals. The pumps have hardened steel gears and thrust washers to give long service life. The mechanical seal fitted provides leak free operation.

These economical pumps need no lubrication and no day-to-day maintenance. A unique design allows parts to adjust automatically for wear. Highest efficiency is maintained for a very long time.

Installation is simple as no chain or belt drives or gear reduction motors are required. Pumps can be directly connected to standard speed low-cost electric motors. By simply changing the shaft rotation, pumps can be used to pump in or out through the same piping.

Specifications

Pump Capacities (approx.)

| Pump Model | Differential bar | Pressure lb/in ² (kg/m ²) | Electrical Consumption in kW | Pump Capacity at 1'450 R.P.M. kg/h (50 Hz)* | Pump Capacity at 1'740 R.P.M. kg/h (60 Hz)* |
|------------|------------------|--------------------------------------------------|------------------------------|---------------------------------------------|---------------------------------------------|
| MC-3-SS | 0 | 0 | 4.0 | 17'000 (37'479 lb/h) | 20'000 (44'092 lb/h) |
| | 1.4 (20 psi) | 20 (0.006) | 4.0 | 16'000 (35'274 lb/h) | 19'000 (41'888 lb/h) |
| | 3.5 (51 psi) | 50 (0.01) | 5.5 | 14'000 (30'865 lb/h) | 16'000 (35'274 lb/h) |

* under ideal conditions

Pumps on Baseframes with Motors

| Pump Model | Motor Size | R.P.M. | | Voltage | Net Weight | Weight packed |
|-----------------|------------|--------|-------|--------------------------------------------------------|-----------------|-----------------|
| | | 50 Hz | 60 Hz | | | |
| MC-3-SS | 5.5 kW | 1'450 | 1'740 | 400/440 V, 50/60 Hz, 3 ph other voltages on request | 108 kg (238 lb) | 130 kg (287 lb) |
| MC-3-SS movable | 5.5 kW | 1'450 | 1'740 | 400/440 V, 50/60 Hz, 3 ph other voltages on request | 205 kg (452 lb) | 248 kg (547 lb) |

Low to Low Pressure CO₂ Transfer Pumps:

Pos. 001

CO₂ Transfer Pump MC-3-SS on baseframe

incl. motor and stainless steel baseframe.

Complete heavy-duty type low to low pressure CO₂ transfer pump with a transfer capacity up to 17'000 kg/h (37'478.58 lb/h) at 1'450 rpm (50 Hz) or 20'000 kg/h (44'092 lb/h) at 1'740 rpm (60 Hz) and differential pressure of 0 barg with a 5.5 kW motor. The pump is designed for 2 ½ inch (63.5 mm) NPT inlet and outlet ports in sides of pump. Rotation is reversible.

part no. 900092



Pos. 002

CO₂ Transfer Pump MC-3-SS without motor

Complete heavy-duty type low to low pressure CO₂ transfer pump with a transfer capacity up to 17'000 kg/h (37'478.58 lb/h) at 1'450 rpm (50 Hz) or 20'000 kg/h (44'092.45 lb/h) at 1'740 rpm (60 Hz) and differential pressure of 0 bar with a 5.5 kW motor. The pump is designed for 2 ½ inch (63.5 mm) NPT inlet and outlet ports in sides of pump. Rotation is reversible.

part no. 4043949



Pos. 003

CO₂ Transfer Pump MC-3-SS movable, flange connection

incl. motor and stainless steel baseframe on wheels.

Complete heavy-duty type low to low pressure CO₂ transfer pump with a transfer capacity up to 17'000 kg/h (37'478.58 lb/h) at 1'450 rpm (50 Hz) or 20'000 kg/h (44'092.45 lb/h) at 1'740 rpm (60 Hz) and differential pressure of 0 barg with a 5.5 kW motor. The pump is designed for DN40 flange. Rotation is reversible.

Including:

- control box
- 10 m (393.70 in) cable
- handrail made in stainless steel
- flanged safety device with discharge valve
- flange connection DN40 according DIN 2635

part no. 900096



Options for Low to Low CO₂ Transfer Pumps:

Pos. 001

Filling hose SS, DN25, 1.5" - 1.5", 5.90 m (19.4 ft)

Stainless steel hose DN25 with total length of 5.90m. (19.4 ft)
With protection wire over total length.
Both ends flat sealed with union nut G1 1/2" in brass.

part no. 4043732



Pos. 002

Filling hose SS, DN40, flange DN40/PN40, 5.90 m (19.4 ft)

Stainless steel hose DN40 with total length of 5.90 m. (19.4 ft)
With protection wire over total length.
Both ends flange DN40/PN40 according DIN 2635

part no. 4043736

