

Part No. 51045050002

Overview

M-Series hydraulic power units have a single-phase AC motor and one tandem center D03 solenoid valve. It can deliver flow rates from 1 to 3 gallons per minute (GPM) and pressures of 1500 to 3000 psi.

Features

- 60Hz 1 Phase, AC Power
- 3600 Nominal RPM
- Vertical mounting orientation
- Manifold: Single station D03 circuit with #6 SAE, 9/16-18 pressure and return port thread size
- Spin-on type oil filter, 10 micron, with by-pass indicator
- Tandem center D03 valve with 120 VAC DIN coils

Bucher M-Series - Hydraulic Power Unit Specifications

Part No.	51045050002	51045050003	51045050004	51045050005	51045050006	51045050007	51045050008
Model Number	M4505201-02HK01	M4505251-03HM01	M4505301-02HK01	M4505301-04HN01	M4505351D03HM01	M4505351D04HN01	M4505351D21HR01
Price	\$1,713.00	\$1,816.00	\$1,836.00	\$1,892.00	\$2,118.00	\$2,146.00	\$2,359.00
Manual Link	PDF						
Drawing Link	PDF	PDF	PDF	PDF	PDF	PDF	PDF
Circuit Design	Single station D03 with tandem center directional control valve						
HP (horsepower)	1	1.5	2		3		
Motor Frame	56HC				56C		
Voltage	115 / 208-230 VAC				115 / 230 VAC		
Full Load Amps	9.6 / 5.3 - 4.8	13.4 / 7.4 - 6.7	18.2 / 10.0 - 9.1	18.2 / 10.0 - 9.1	24 / 12	24 / 12	24 / 12
Maximum Pressure (psi)	1500	1500	3000	1500	3000	2000	1500
Nominal Flow (GPM)	1	1.5	1	2	1.5	2	3
Reservoir Capacity / Usable (gallons)	4 / 3	6 / 5	4 / 3	8 / 6	6 / 5	8 / 6	11 / 9

BUCHER hydraulics

Hydraulic Power Units - Overview

Bucher Hydraulics is a respected manufacturer that has been producing hydraulic components for 100 years. The M-series and T-series power units in this catalog are produced in Canada. All units include a welded steel reservoir, TEFC motor and spin-on filter.

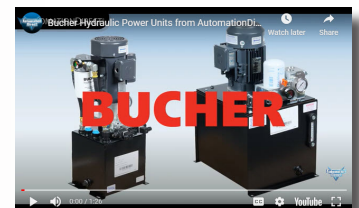
Features

- Totally enclosed fan cooled Premium Efficiency electric motor, rated for 60 Hz. 3-phase motors will also work at some 50 Hz voltages.
- Powder coated reservoir plumbed for vertical mounting
- Adjustable Safety Relief valve preset at factory
- Hydraulic connections:
 - T-Series: Aluminum adaptable base manifold with SAE 10, P & T ports
 - M-Series: Aluminum D03 manifold with SAE #6 A&B ports with included 4-Way/3-Position D03 Tandem Center valve
- Suction strainer at pump inlet
- Return line spin-on type filter with visual by-pass indicator
- Bayonet style filler / breather assembly with strainer basket (T-Series)
- Threaded style filler / breather assembly with dipstick (M-Series)
- Sight / level / temperature gauge (T-Series only)
- Liquid filled pressure gauge with isolator
- Two extra 1" NPT couplings through top of reservoir for electrical sensors should you need remote live data of level or temperature
- 3/4" NPT drain port on lower front / side of reservoir

Applications

- Industrial Presses and Processes
- CNC Machinery – Manufacturing
- Rollforming Equipment
- Material Lifts
- Automotive Lifts / Motorcycle Lifts
- Factory Automation
- Elevators
- Scissor Lifts & Platforms
- Material Handling Equipment
- Hydraulic Door Systems
- Positioning Equipment

Parts and Accessories



Click on the thumbnail or go to <https://www.automationdirect.com/VID-HY-0002> for a short video on Bucher Hydraulic Power Units.

BUCHER hydraulics

Hydraulic Power Unit Accessories

Overview

Bucher HPU Accessories include coils, replacement fluid filters, and unloader valve. The unloader valve [51020850999](#) is required to be installed in the manifold when using center closed or center float control valves. Refer to the manual for installation instructions.



Part No. [51020850999](#)



Part No. [51020191424](#)



Part No. [51020321165](#)

Bucher Hydraulic Power Unit Accessories					
Part No.	Description	Weight (lbs)	Drawing Link	Insert Link	Price
51020850999	Bucher unloader valve, 2-port (2-way), 2-position, normally open, single solenoid spring return.	0.35	PDF	N/A	\$128.00
51020191424	Bucher solenoid coil, replacement, 24 VDC, 22W, DIN 43650 connector. For use with Bucher solenoid valve 51020850999.	0.85	PDF	N/A	\$76.00
51020191422	Bucher solenoid coil, replacement, 120 VAC, 22W, DIN 43650 connector. For use with Bucher solenoid valve 51020850999.	0.80	PDF	N/A	\$83.00
51020321016	Bucher filter, hydraulic fluid, replacement, 10 micron, spin-on. For use with M-Series hydraulic power units.	1.35	N/A	N/A	\$44.50
500203226596	Bucher filter, hydraulic fluid, replacement, 7 micron, spin-on. For use with T5x and T6x series hydraulic power units.	1.40	N/A	N/A	\$60.00
51020321165	Bucher filter, hydraulic fluid, replacement, 10 micron, spin-on. For use with T9x series hydraulic power units.	2.50	N/A	N/A	\$80.00

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

For additional details see manufacturer's technical specifications, manuals and inserts (where applicable).

Note: Power A.C. Coils incorporate integrally molded full wave rectifiers.

A.C. Coils are rated 50/60 HZ.