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C101TM/ C102TM Series G101TM/ G102TM Series

Combination Pump/Valves





The Parker Hannifin Gear Pump Division Assures:

- Consistent quality
- Technical innovation
- Premier customer service

Worldwide Sales and Service

Parker operates sales and service centers in major industrial areas worldwide. Call 1-800-C-PARKER for more information, or for a synopsis of the Gear Pump Division, contact a Parker representative.

The Gear Pump Division's ability to engineer specialty products for unique applications has kept us at the forefront of technology, and ensured our position as the industry leader. Our success has come from providing a quality product with excellent sales and service support.

We manufacture hydraulic components for a wide range of industries including:

Material Handling



- Turf Care
- Forestry
- Agriculture
- Industrial





FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

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The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

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Pump/Valve Products

C101/C102

- 39 & 48 gpm @ 1800 rpm
- Pressures to 2500 psi
- Speeds to 2400 rpm
- 2- or 3-line installations
- Choice of mountings
- Air remote operators available
- Relief valve protects pump & cylinder

G101/G102

- 9.5, 21 & 29 gpm @ 1800 rpm
- Pressures to 2500 psi
- Speeds to 2400 rpm
- 2- or 3-line installations
- Choice of mountings
- Air remote operators available
- Relief valve protects pump & cylinder

The Broadest Choice

We sell more pump/valve combinations for dump trucks and trailers than any other manufacturer for two reasons: our pump/valve family offer the broadest choice of flow ratings; these units provide the most reliable, trouble-free control for dump trucks.

Underbody Hoist to Big Trailers - We Have Your Pump

Our dump body pump/valve products deliver the right flow range for most applications at 1800 rpm/2000 psi. Models with two shafts (C101/G101) can be mounted to remote PTO's operating in either direction of rotation. Single shaft units (C102/G102) mount directly to the vehicle drive train. All can be connected in two- or three-line circuits to control single-acting cylinders.

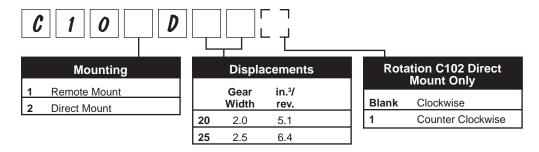
All units are supplied with factory-set 2000 psi relief valves.



Combination Pump Valves

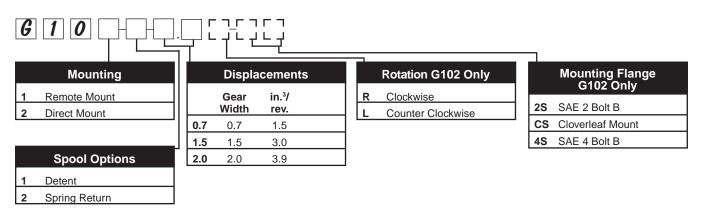
Coding: C101/C102 Series

Example:



Coding: G101/G102 Series

Example:





•	Mounting Bracket Part Numbers								
	C101	Mounting Bracket	314-0100-005						
	C102	Support Bracket	391-1832-323						

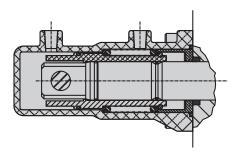
Air Shift Kits

Air Shift Kits

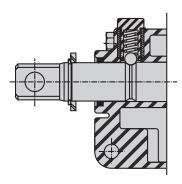
All dump units can be shifted from the cab by cable or by air with our Air Shift kit.

The kit consists of an air cylinder that mounts on the valve unit, a pneumatic control valve that mounts in the cab, 30' of air hose and all necessary connections. A minimum of 80 psi air pressure is required, which can be taken off the brake system or on-board compressor. The shifter can be retro-fit easily to existing pump/valve units by following the simple instructions with each kit.

C101/C102 AIR SHIFT KITS	10 Digit Part No.
ASK-6 without Toggle with Air Hose, Fittings	314-9414-013
G101/G102 AIR SHIFT KITS	10 Digit Part No.
ASK-16 without Toggle with Air Hose, Fittings	



C101 Air-Shift Installation



Standard C101



Model Features

Model	Maximum	gpm@1800 rpm			pm	Maximum	Available
Number	psi	3/4 "	11/2"	2"	21/2"	Speed	Features
G101	2500	9.5	21	29		2400 rpm	A,B,D*,E
G102	2500	9.5	21	29		2400 rpm	A,B,C*,F
C101	2500			39	48	2400 rpm	A,B,D*,E
C102	2500			39	48	2400 rpm	A,B,C*,F

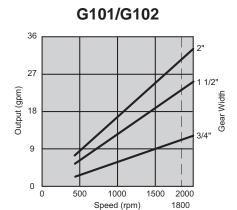
All C102/G102 units can be ordered for either direction of rotation from the factory; all C101/G101 units can be field set for either direction of rotation.

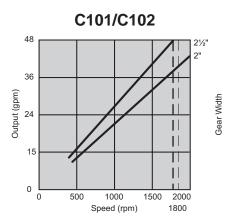
- A: Two- or Three-line Hookup
- **B:** Remote Valve Actuation
- C: Factory Set Rotation
- D: Either Shaft Rotation
- E: 1.00" diameter Keyed Shaft
- F: SAE "B" Splined Shaft (13 teeth, 16/32 pitch)

Performance Curves

Average Pump Output @ 2000 psi

Performance data shown are average results based on a series of production units and are not representative of any one unit. Tests were run with the oil reservoir temperature at 120°F, viscosity of 150 SUS at 100°F. Requests for more specific data should be directed to our Product Support Department through your sales representative.





Warning

These warnings apply to all pump/valve units.

- A device to lock the control lever in the neutral position must be installed. Pump/valve units without a lockable control lever may allow the dump bed to rise unintentionally while in transit. Failure to provide such a lock may lead to loss of vehicle control, accidental injury and/ or property damage.
- Failure to disengage the PTO from driving the pump/valve when in transit may allow the dump bed to rise unintentionally. This may lead to loss of vehicle control, accidental injury and/or property damage.
- The pump/valves are equipped with a neutral stop device for those applications using a pull-out cable. This device allows the pull-out cable to move the valve spool from the raise to the neutral position only. Since shock loading in the cable is possible, it is essential that a spring (Part no. 391-3581-854 or equal) be incorporated in the pull-out cable hookup. Failure to do so could result in breakage of the neutral stop device and could lead to injury. We recommend that the cable be fully enclosed and directly in line with the spool.
- Never work under a raised dump bed without first securely blocking the bed to prevent its accidental lowering.
- Three-line installations are recommended whenever possible. Three-line circuits consist of a pump inlet line, a line to the cylinder and a return line to tank. A sleeve must be installed in the pump's inlet to allow oil to circulate through the unit and return to tank when running in neutral. Lower operating temperatures and the ability to install a return-line filter are two advantages of a three-line circuit. Be sure the return line is always below the oil level in the reservoir. Two-line installations are for intermittent operation only.

If you do not understand these warnings or have any questions about any of them, contact your distributor or the Product Support Group at: Phone (330) 746-8011 or Fax (330) 740-8344.

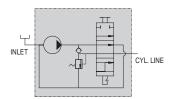


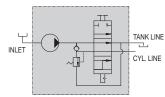
Typical Flow Paths in C101/C102 Pump/Valve Units

Explanation of single-acting valve.

C101/C102: 2-line Installation For intermittent operation.

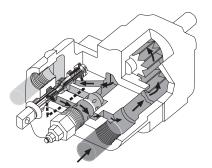
C101/C102: 3-line Installation For continuous or intermittent operation.



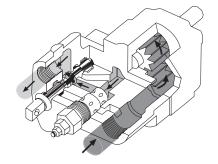


2-line Installation

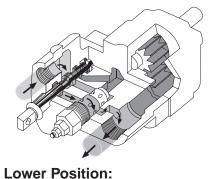
One line to the cylinder, one line to the reservoir. For intermittent operation only.



Spool in Neutral:Oil recirculates internally.



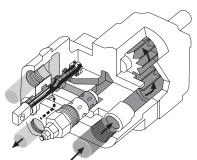
Raise Position:
Oil is routed through work port to raise the cylinder.



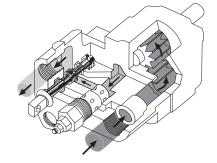
Oil flows from the cylinder through the relief valve to return to tank.

3-line Installation

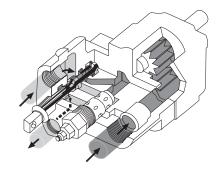
One line to the cylinder, two lines to the reservoir. For continuous or intermittent operation.



Spool in Neutral:Oil circulates through the pump and returns to tank.



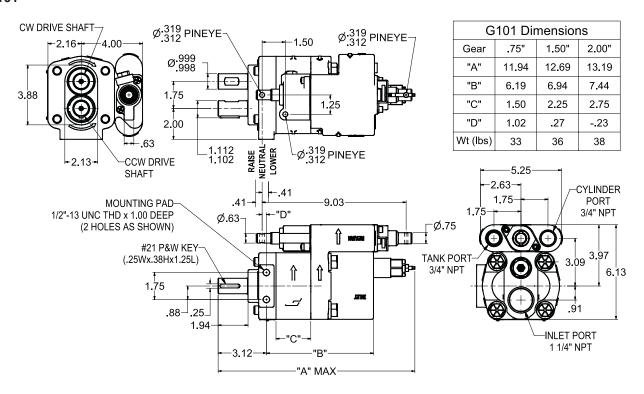
Raise Position:
Oil is routed through work port to raise the cylinder.



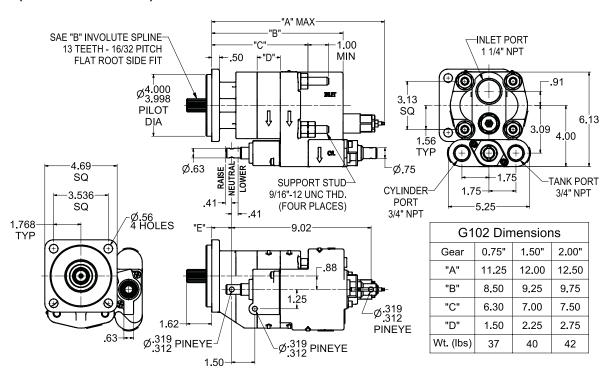
Lower Position:

Oil flows from the cylinder, through the bottom port and returns to tank.

G101

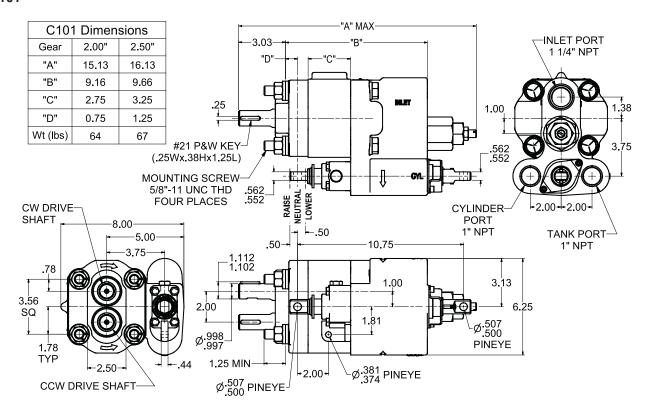


G102 (CW Rotation Shown)

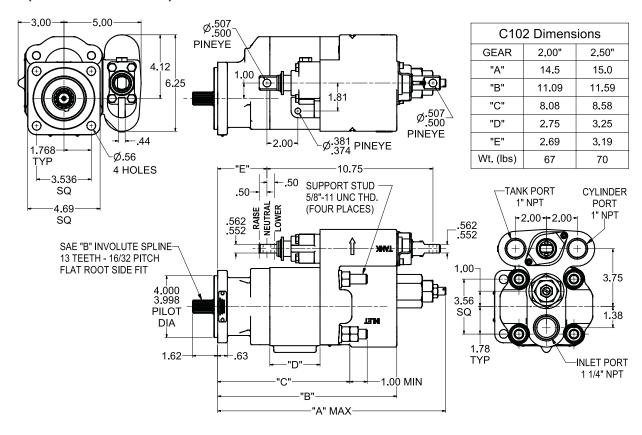




C101



C102 (CCW Rotation Shown)





Offer of Sale

acceptance of this offer.

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- 7. Special Tooling: A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture items sold pursuant to this contract. Such special tooling shall be and remain Seller's property notwithstanding payment of any charges by Buyer. In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time.

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- 9. Taxes: Unless otherwise indicated on the face hereof, all prices and charges are exclusive of excise, sales, use, property, occupational or like taxes which may be imposed by any taxing authority upon the manufacture, sale or delivery of the items sold hereunder. If any such taxes must be paid by Seller or if Seller is liable for the collection of such tax, the amount thereof shall be in addition to the amounts for the items sold. Buyer agrees to pay all such taxes or to reimburse Seller therefore upon receipt of its invoice. If Buyer claims exemption from any sales, use or other tax imposed by any taxing authority, Buyer shall save Seller harmless from and against any such tax, together with any interest or penalties thereon which may be assessed if the items are held to be taxable.
- 10. Indemnity For Infringement of Intellectual Property Rights: Seller shall have no liability for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights except as provided in this Part 10. Seller will defend and indemnify Buyer against allegations of infringement of U.S. Patents, U.S. Trademarks, copyrights, trade dress and trade secrets (hereinafter 'Intellectual Property Rights'). Seller will defend at its expense and will pay the cost of any settlement or damages awarded in an action brought against Buyer based on an allegation that an item sold pursuant to this contract infringes the Intellectual Property Rights of a third party. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of such allegations of infringement, and Seller having sole control over the defense of any allegations or actions including all negotiations for settlement or compromise. If an item sold hereunder is subject to a claim that it infringes the Intellectual Property Rights of a third party, Seller may, at its sole expense and option, procure for Buyer the right to continue using said item, replace or modify said item so as to make it noninfringing, or offer to accept return of said item and return the purchase price less a reasonable allowance for depreciation. Notwithstanding the foregoing, Seller shall have no liability for claims of infringement based on information provided by Buyer, or directed to items delivered hereunder for which the designs are specified in whole or part by Buyer, or infringements resulting from the modification, combination or use in a system of any item sold hereunder. The foregoing provisions of this Part 10 shall constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for infringement of Intellectual Property Rights. If a claim is based on information provided by Buyer or if the design for an item delivered hereunder is specified in whole or in part by Buyer, Buyer shall defend and indemnify Seller for all costs, expenses or judgments resulting from any claim that such item infringes any patent, trademark, copyright, trade dress, trade secret or any similar right.
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- 12. Entire Agreement/Governing Law: The terms and conditions set forth herein, together with any amendments, modifications and any different terms or conditions expressly accepted by Seller in writing, shall constitute the entire Agreement concerning the items sold, and there are no oral or other representations or agreements which pertain thereto. This Agreement shall be governed in all respects by the law of the State of Ohio. No actions arising out of the sale of the items sold hereunder or this Agreement may be brought by either party more than two (2) years after the cause of action accrues.





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Parker Hannifin is a leading global motion-control company dedicated to delivering premier customer service. A Fortune 500 corporation listed on the New York Stock Exchange (PH), our components and systems comprise over 1,400 product lines that control motion in some 1,000 industrial and aerospace markets. Parker is the only manufacturer to offer its customers a choice of hydraulic, pneumatic, and electromechanical motion-control solutions. Our Company has the largest distribution network in its field, with over 7,500 distributors serving more than 350,000 customers worldwide.

The Aerospace Group

is a leader in the development. design, manufacture and servicing of control systems and components for aerospace and related high-technology markets, while achieving growth through premier customer service.



The Fluid Connectors

Group designs, manufactures and markets rigid and flexible connectors, and associated products used in pneumatic and fluid systems.



The Hydraulics Group

designs, produces and markets a full spectrum of hydraulic compnents and systems to builders and users of industrial and mobile machinery and equipment.



The Automation Group

is a leading supplier of pneu-matic and electromechanical components and systems to automation customers worldwide.



Parker Hannifin Corporation

Parker's Charter

To be a leading worldwide manufacturer of components and systems for the builders and users of durable goods. More specifically, we will design, market and manufacture products controlling motion, flow and pressure. We will achieve profitable growth through premier customer service.

Product Information

North American customers seeking product information, the location of a nearby distributor, or repair services will receive prompt attention by calling the Parker Product Information Center at our toll-free number: 1-800-C-PARKER (1-800-272-7537). In the UK, a similar service is available by calling 0500-103-203.



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