



Accumulator Accessories

For Piston, Bladder and Diaphragm
Accumulators, and Gas Bottles



ENGINEERING YOUR SUCCESS.



Charging and Gauging Assembly consists of 10' charging hose with standard right-hand thread nitrogen fittings (CGA580), adapter incorporating gas valve, bleeder valve pressure gauge, gas valve extension and gas chuck. Assemblies are packed in a plastic storage case.

Find out more and where to buy at
www.parker.com/cylinder-accumulator

Assemblies Packed in Carrying Case

Gauges

Gauges are 2½" dial type pressure gauges with 100 PSI graduation. Include blowout safety case and orifice surge damper.

Part Number	Pressure Range
0870403000	0 - 3000 PSI
0870406000	0 - 6000 PSI

3000 PSI Charging & Gauging Assemblies (with 3000 PSI Gauge)			
Part Number	Piston Style	Bladder Style	Diaphragm Style
CG-3000A	All	All	with Cored valve
CG-M28 x 1.5	—	—	with M28 valve
6000 PSI Charging & Gauging Assembly			
CG-6000*	All	All	—

* CG-6000 is equipped with left hand thread nitrogen fitting (CGA-677)

In line with our policy of continuing product improvement, specifications and information contained in this catalog are subject to change.

Copyright ©2025 by Parker Hannifin Corporation. All rights reserved.

PRINTED IN THE U.S.A.

WARNING

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.

This document and other information from the Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having expertise. It is important that you analyze all aspects of your application, including consequences of any failure and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

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.

Offer of Sale

The items described in this document are hereby offered for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by provisions stated on a separate page of the document entitled 'Offer of Sale'.



PROP 65 WARNING **WARNING:** This product can expose you to chemicals including Lead and Lead Compounds which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

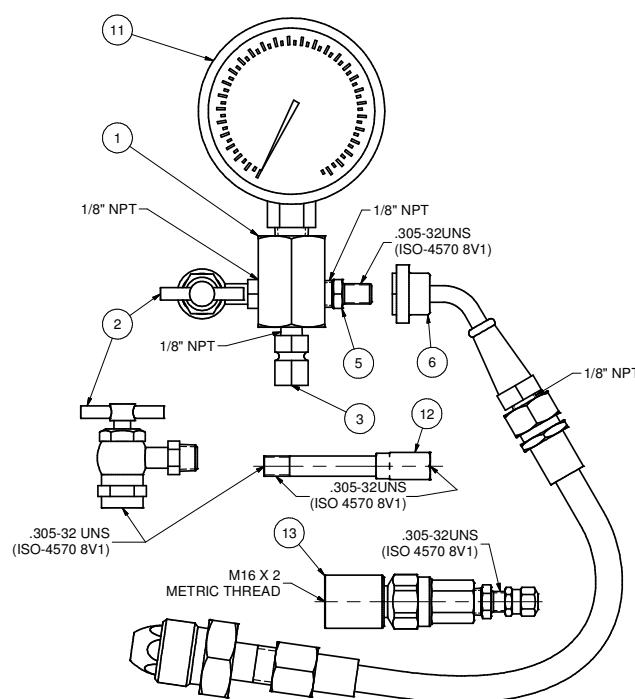


3000 PSI Piston and Bladder Accumulators, Diaphragms with Cored Valve

The following assemblies and parts are recommended for use on all 3000 PSI Piston Accumulators and 3000 PSI Bottom Repairable Bladder Accumulators. Can be used with 3000 PSI Top Repairable Accumulators, but require a Gas Valve Extension.

NOTES: Can be used on all accumulators with a gas precharge less than 3000 PSI. Consult factory for further information.

These assemblies are not recommended for continuous monitoring of gas precharge. For continuous monitoring, see Gauging Adapters.



Item	Part Number	Description
1-13	CG-3000A	Standard Assembly RH Connection with 3000 PSI Gauge
1-5	0851220000	Gauging Assembly, No Hose or Gauge
6-10	1457810000	Hose Assembly with RH Connection
1	5420910000	Adapter Cross
2	5420920000	Gas Valve with 1/8" NPT
3	0832140000	Bleeder Valve
5*	8708150000	Gas Chuck
6**	5420860000	Hose Coupling with Female Thread Connection
7	0870520000	Charging Hose
9	6661250000	Nitrogen Bottle Nut with RH Connection (CGA 580)
10	6661240000	Nitrogen Bottle Nipple
11	0870403000	2.5" Pressure Gauge 1/4" NPT
12	T-CG-3015	Valve extension
13	8743680000	EMA-3 Adapter, Schrader to EMA-3
	1333290000	Case with Insert for Complete Charging and Gauging Assembly
*	5824390000	Gasket for 8708150000 (5)
**	8702770000	Gasket for 5420860000 (6)



PROP 65 WARNING

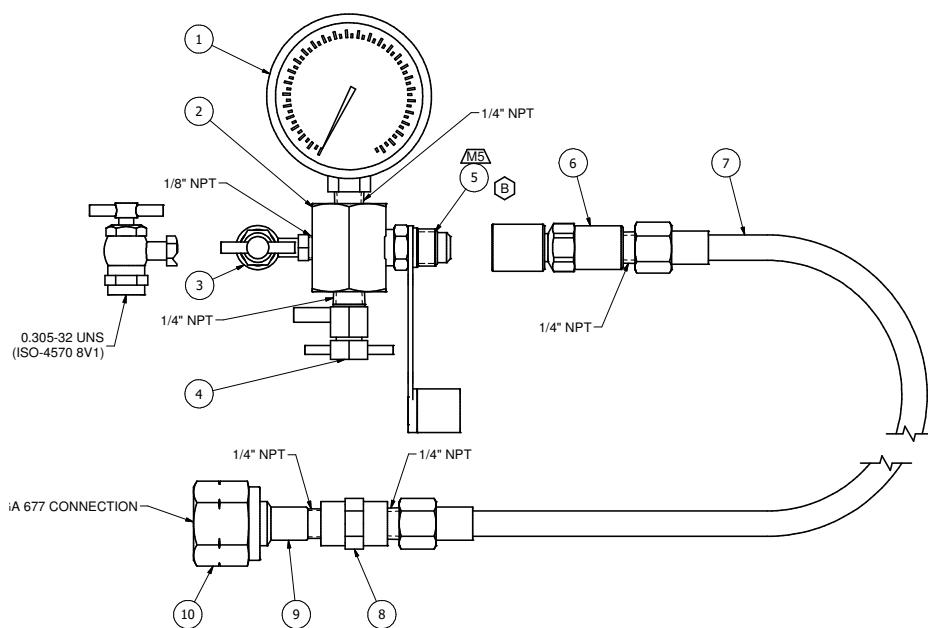
WARNING: This product can expose you to chemicals including Lead and Lead Compounds which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

6000 PSI Piston and Bladder Accumulators

The following assemblies and parts are recommended for use on all 5000 PSI Piston Accumulators and all 5000 PSI Bladder Accumulators.

NOTES: Can be used on all accumulators with a gas precharge less than 5000 PSI. Consult factory for further information.

These assemblies are not recommended for continuous monitoring of gas precharge. For continuous monitoring, see Gauging Adapters.



Item	Part Number	Description
1-10	CG-6000	Standard assembly with left hand (LH) connection
6-10	N/A	Hose Assembly With CGA 677 (LH) Connection
1	870406000	Gauge 6000 PSI
2	8739280000	C&G Manifold Body
3	8708150000	Gas Chuck
4	8720740000	Bleed Valve
5	8738800000	EMA-3 Test Point
6	MAVMD1/4NPT-MA3	EMA-3 Adapter
7	8742180010	C&G Hose
8	1/4 GG-S	Adaptor Coupling
9	0854250000	Gas Tank Nipple
10	0854220000	Gas Tank Nut, CGA 677 (LH) Connection



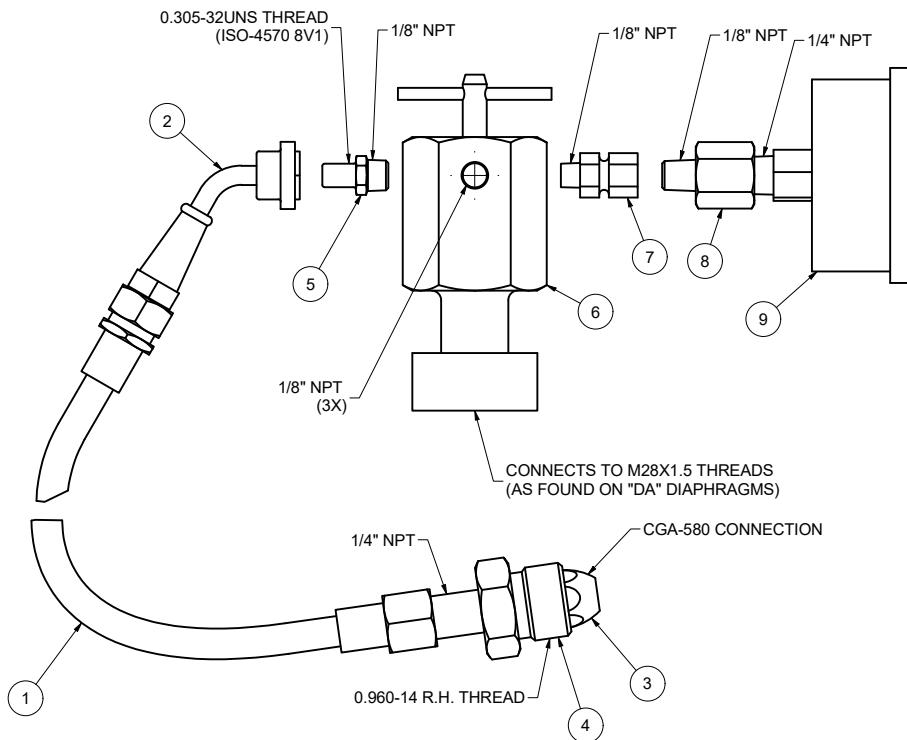
PROP 65 WARNING **WARNING:** This product can expose you to chemicals including Lead and Lead Compounds which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Diaphragm with M28 Gas Valve

The following assemblies and parts are recommended for use on all Diaphragm Accumulators with M28 Gas Valve.

NOTES: Can be used on all diaphragm accumulators with a gas precharge less than 3000 PSI. Consult factory for further information.

These assemblies are not recommended for continuous monitoring of gas precharge. For continuous monitoring, see Gauging Adapters.



Item	Part Number	Description
1-10	CG-M28x1.5	Standard assembly RH connection with 3000 PSI gauge
5-8	8702780000	Gauging assembly (no hose or gauge)
1-5	1457810000	Hose assembly with right hand connection
1	0870520000	Charging hose
2*	5420860000	Swivel connector with female thread connection
3	6661240000	Nitrogen bottle nipple
4	6661250000	Nitrogen bottle nut with (CGA 580) RH connection
5	5420920000	Gas valve with 1/8" NPT
6	1480240000	C&G manifold diaphragm
7	0832140000	Bleeder valve
8	0873930000	Reducer -1/4x1/8
9	0871073000	Gauge, 3000, CBM, 1/4" NPT, diaphragm
	1353290000	Case with insert for complete charging and gauging assembly
*	8702770000	Gasket for 5420860000



PRO 65 WARNING **WARNING:** This product can expose you to chemicals including Lead and Lead Compounds which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Gauging Assemblies

Gauging Assembly consists of adapter incorporating gas valve, bleeder valve and gas chuck (less gauge).

3000 PSI			
Part Number (Assembly only)	Piston Styles	Bladder Styles	Diaphragm Styles
0851220000	All	All	w/Cored valve



0851220000

Gauging Adapters (Fixed Mount)

For continuous monitoring of gas recharge. Order gauge separately.

Part Number	Description
0850570000	For 1 Gal. and bottom repairable bladder and all piston accumulators (3000 - 5000 PSI)



0850570000

Repair Tools & Adapters**Accumulator Repair Tools****1. Bladder Pull Rods** — (Bladder Type Accumulator)

Pull rods are available in different lengths for different size accumulators. The pull rods attach to the gas valve of the bladder for ease of assembly into shell during reassembly.

2. Core Tools — The core tool is used to remove and reinstall the valve core. It is also used to ream valve seat and repair threads. The core installation tool is only used to install & remove the core.

3. Spanner Wrench — Fits all standard size bladder accumulators. Used to remove hydraulic poppet assembly from accumulator shell.



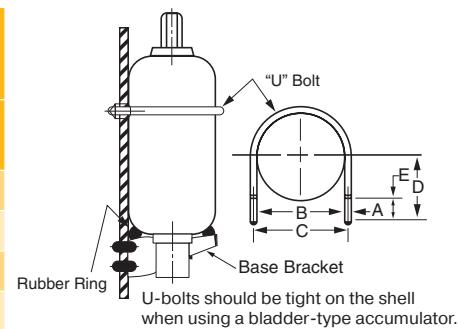
Description	Part No
Pull Rod (1 Qt.- 2 1/2 Gal.)	0851090250
Pull Rod (5 Gal.)	0851090500
Pull Rod (10-11 Gal.)	0851091000
Pull Rod (15 Gal.)	0851091500
Core Repair Tool	5824410000
Core Installation Tool	300987
Spanner Wrench	0851100000

"U" Bolts for Piston & Bladder-Type Accumulators**Bladder-Type Accumulator**

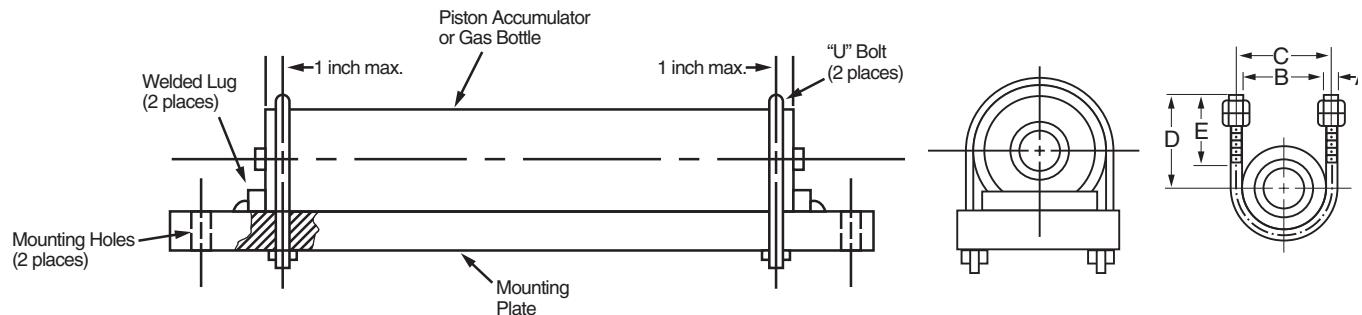
Bladder-type accumulators should be mounted vertically with the hydraulic port down.

Accumulator Models (2000 / 3000 PSI)		Part No. and Dimensions							
Piston Bore	Bladder Size	"U" Bolt Part No.	A in.	B in.	C in.	D in.	E in.	Thd.	Wt. Lbs.
A2	—	0854370000	0.250	2.438	2.688	2.688	1.750	1/4-20	0.20
A3	1 Pint	0862090000	0.500	3.688	4.063	3.625	2.000	3/8-16	0.90
—	1 Quart	0854380000	0.500	4.625	5.125	4.500	3.000	1/2-13	1.20
A4	—	0864960000	0.500	5.000	5.500	4.500	3.000	1/2-13	1.30
—	1 Gallon	0854390000	0.625	6.750	7.375	6.125	3.750	5/8-11	2.40
A6	—	0864970000	0.625	7.125	7.750	6.125	3.750	5/8-11	2.50
A7	—	0854400000	0.625	8.250	8.875	7.000	3.750	5/8-11	3.00
—	2.5 to 15 (3K)	0853360000	0.625	9.000	9.625	7.125	3.750	5/8-11	3.00
A9	—	0854410000	0.750	11.250	12.000	9.500	4.500	3/4-10	6.00
A12 (2K)	—	0854420000	0.875	14.125	15.000	10.250	4.250	7/8-9	8.20
—	2.5 to 15 (5K)	0865020000	0.625	9.750	10.375	7.250	3.750	5/8-11	3.50
A12 (3K)	—	0865610000	0.875	14.500	15.375	10.625	4.250	7/8-9	8.30

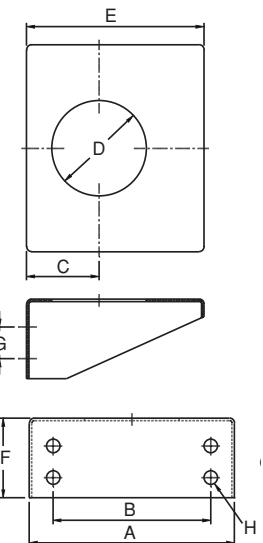
Hex nuts (4 each) included with all U-bolts



CAUTION: Bladder-type accumulators should never be mounted more than 25° angle from the vertical with hydraulic port on the bottom.

**Base Bracket Assembly for Bladder Accumulators**

Accumulator Models		Part Number and Dimensions									
Bladder Size	Base Bracket Assembly Part No. (included rubber rings)	A in.	B in.	C in.	D in.	E in.	F in.	G in.	H in.	Wt. Lbs.	
1 Gal. (3K)	144910000	10.255	7.875	3.940	4.755	8.750	3.890	1.495	0.690 x .877 (4x SLOTTED)	5.000	
2 1/2 - 15 Gal. (3K)	1448720000	10.255	7.875	4.832	6.695	8.875	3.930	1.575	0.670 (4x)	5.000	
2 1/2 - 15 Gal. (5K)	1481410000	10.255	7.875	5.350	6.695	9.000	3.930	1.575	0.750 (4x)	5.000	



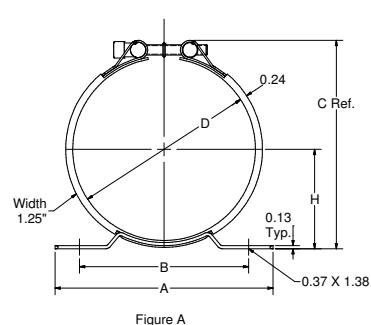
Clamp Brackets for Bladder-Type Accumulators

Figure A

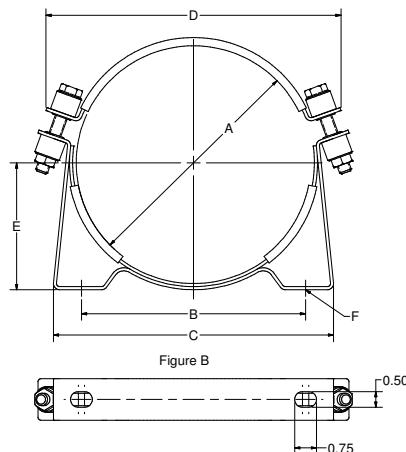
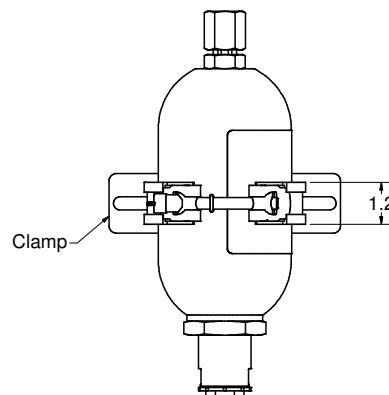


Figure B



Bladder Size	Clamp Part No.	Dimensions					
		A in.	B in.	C in.	D in.	H in.	Wt. Lbs.
1 Qt., 150 C.I. (Figure A)	202.510-03648	4.65	4.49	6.10	7.95	3.25	0.77
1 Gal. (Figure A)	202.513-03648	6.73	6.42	8.27	7.91	3.70	1.21
2 1/2 - 15 Gal. (3K) (Figure B)	202.515-03648	8.68	8.50	10.63	9.57	4.75	3.09
2 1/2 - 15 Gal. (5K) (Figure B)	1349200000	10.40	8.50	13.00	9.63	5.25	4.50

Clamp Brackets for Series 4000 & Series 5000 Piston Accumulators

Piston Bore Size	Series 4000 Part Number	Series 5000 Part Number
2"	8741840238	8741840252
3"	202.508-03648	202-059-03648
4"	202.511-03648	202.511-03648
6"	—	—
7"	N/A	—
9"	N/A	—

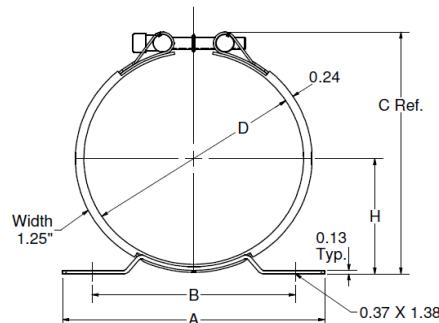
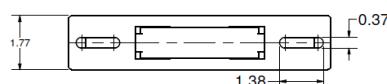
Clamp Brackets for Diaphragm and Small Piston and Bladder Accumulators

Figure A

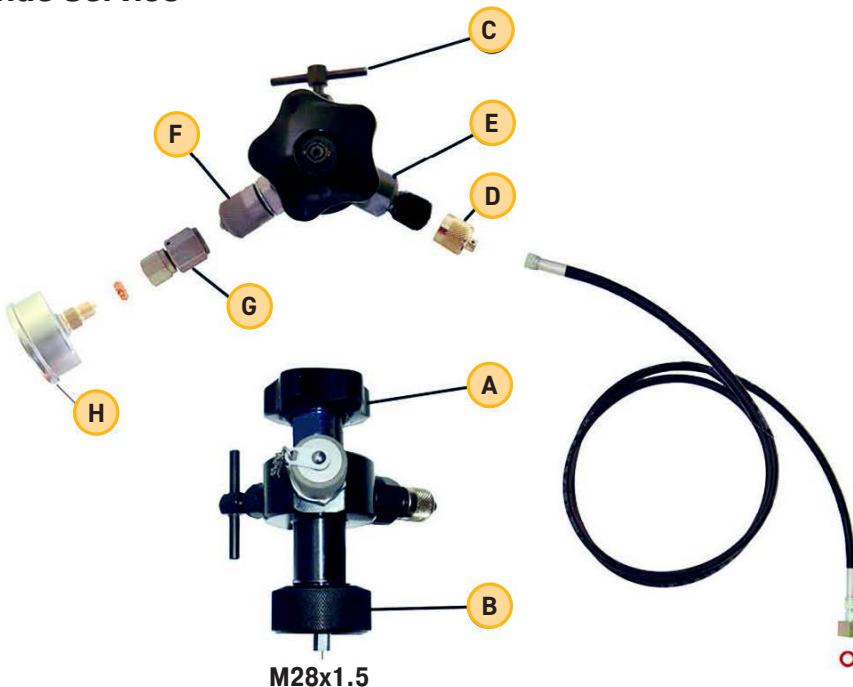


Part Number	Dimensions					Accumulator Style/Size			
	A in.	B in.	C in.	D in.	H in.	Diaphragm liters/cu in	Piston Bore & Series / Pressure	Bladder liters/cu in	
8741840238	4.72	3.66	3.34	2.24 / 2.44	1.51	—	2" / 3K	ACP05 / 4K	0.16 / 10
8741840252	6.14	4.65	3.46	2.44 / 2.64	1.55	AD007 / 5	2" / 4 & 5K	ACP05 / 5K	—
8741840291	6.14	4.65	3.96	2.87 / 3.11	1.77	AD016 / 10	—	—	—
202.508-03648	6.10	4.49	7.95	3.43 / 3.81	2.52	AD036 / 20	3" / 3 & 4K	ACP08 / 4K	0.50 / 30
202.509-03648	6.10	4.49	7.95	4.41 / 4.88	2.78	AD050 / 30	3" / 5K	—	—
202.510-03648	6.10	4.49	7.95	5.00 / 5.39	2.97	AD075 / 45	4" / 3K	ACP10 / 4K	1.0 & 3.0 / 60-150
8741840500	6.14	4.65	6.17	5.04 / 5.43	2.90	AD075 / 45	4" / 4K	—	—
202.511-03648	6.14	4.49	7.95	5.75 / 6.18	3.25	AD100 / 60	4" / 5K	—	—
201.512-03648	8.27	6.42	7.28	6.10 / 6.50	3.30	AD140 / 85 AD200 / 120	—	—	—
202.590-03648	8.27	6.42	7.69	6.10 / 6.50	3.52	—	—	—	—
202.513-03648	8.27	6.42	7.91	6.54 / 6.93	3.50	AD280 / 170	—	—	3.79 / 231

Adaptors Available for Worldwide Service



CG -Universal



M28x1.5

MEMBRANE ACCUMULATOR
BLASENSPEICHER
ACCUMULATOR A MEMBRANE
ACCUMULATORE A MEMBRANA5/8" -18UNF
2021300223

2

7/8" -14UNF (Long)
2021270223

1

7/8" -14UNF
20213500223

5

1/4" BSP
20221100220

8

5/8" -18UNF
2021300223

2

8V1
2021400200

3

STEAM VALVE DESIGN
VENTILKORPER
CORPS DE VAVLE
CORPO DELLA VALVOLA
VALVE TYPE
VENTILMODELL
MODELE DE VALVE
MODELLO DI VALVOLA

Offer of Sale

The items described in this document and other documents and descriptions provided by Parker Hannifin Corporation, its subsidiaries and its authorized distributors ("Seller") are hereby offered for sale at prices to be established by Seller. This offer and its acceptance by any customer ("Buyer") shall be governed by all of the following Terms and Conditions. Buyer's order for any item described in its document, when communicated to Seller verbally, or in writing, shall constitute acceptance of this offer. All goods, services or work described will be referred to as "Products".

1. Terms. All sales of Products by Seller will be governed by, and are expressly conditioned upon Buyer's assent to, these Terms. These Terms are incorporated into any Quote provided by Seller to Buyer. Buyer's order for any Products whether communicated to Seller verbally, in writing, by electronic data interface or other electronic commerce, shall constitute acceptance of these Terms. Seller objects to any contrary or additional terms or conditions of Buyer. Reference in Seller's order acknowledgement to Buyer's purchase order or purchase order number shall in no way constitute an acceptance of any of Buyer's terms or conditions of purchase. Any Quote made by Seller to Buyer shall be considered a firm and definite offer and shall not be deemed to be otherwise despite any language on the face of the Quote. Seller reserves all rights to accept or reject any purported acceptance by Buyer to Seller's Quote if such purported acceptance attempts to vary the terms of the Quote. If Seller ships Products after Buyer issues an acceptance to the Quote, any additional or different terms proposed by Buyer will not become part of the parties' business relationship unless agreed to in a writing that is signed by an authorized representative of Seller, excluding email correspondence. If the transaction proceeds without such agreement on the part of Seller, the business relationship will be governed solely by these Terms and the specific terms in Seller's Quote.

2. Price; Payment. The Products set forth in the Quote are offered for sale at the prices indicated in the Quote. Unless otherwise specifically stated in the Quote, prices are valid for thirty (30) days and do not include any sales, use, or other taxes or duties. Seller reserves the right to modify prices for any reason and at any time by giving ten (10) days prior written notice. Unless otherwise specified by Seller, all prices are F.C.A. Seller's facility (INCOTERMS 2020). All sales are contingent upon credit approval and full payment for all purchases is due thirty (30) days from the date of invoice (or such date as may be specified in the Quote). Under any circumstances, Buyer may not withhold or suspend payment of any amounts due and payable as a deduction, set-off or recoupment of any amount, claim or dispute with Seller. Unpaid invoices beyond the specified payment date incur interest at the rate of 1.5% per month or the maximum allowable rate under applicable law. Seller reserves the right to require advance payment or provision of securities for first and subsequent deliveries if there is any doubt, in Seller's sole determination, regarding the Buyer's creditworthiness or for other business reasons. If the requested advance payment or securities are not provided to Seller's satisfaction, Seller reserves the right to suspend performance or reject the purchase order, in whole or in part, without prejudice to Seller's other rights or remedies, including the right to full compensation. Seller may revoke or shorten any payment periods previously granted in Seller's sole determination. The rights and remedies herein reserved to Seller are cumulative and in addition to any other or further rights and remedies available at law or in equity. No waiver by Seller of any breach by Buyer of any provision of these terms will constitute a waiver by Seller of any other breach of such provision.

3. Shipment; Delivery; Title and Risk of Loss. All delivery dates are approximate, and Seller is not responsible for damages or additional costs resulting from any delay. All deliveries are subject to our ability to procure materials from our suppliers. Regardless of the manner of shipment, delivery occurs and title and risk of loss or damage pass to Buyer, upon placement of the Products with the carrier at Seller's facility. Unless otherwise agreed prior to shipment and for domestic delivery locations only, Seller will select and arrange, at Buyer's sole expense, the carrier and means of delivery. When Seller selects and arranges the carrier and means of delivery, freight and insurance costs for shipment to the designated delivery location will be prepaid by Seller and added as a separate line item to the invoice. Buyer shall be responsible for any additional shipping charges incurred by Seller due to Buyer's acts or omissions. Buyer shall not return or repackage any Products without the prior written authorization from Seller, and any return shall be at the sole cost and expense of Buyer.

4. Warranty. The warranty for the Products is as follows: (i) Goods are warranted against defects in material or workmanship for a period of eighteen (18) months from the date of delivery or 2,000 hours of use, whichever occurs first; (ii) Services shall be performed in accordance with generally accepted practices and using the degree of care and skill that is ordinarily exercised and customary in the field to which the Services pertain and are warranted for a period of six (6) months from the date of completion of the Services; and (iii) Software is only warranted to perform in accordance with applicable specifications provided by Seller to Buyer for ninety (90) days from the date of delivery or, when downloaded by a Buyer or end-user, from the date of the initial download. All prices are based upon the exclusive limited warranty stated above, and upon the following disclaimer: **EXEMPTION CLAUSE; DISCLAIMER OF WARRANTY, CONDITIONS, REPRESENTATIONS, PERTAINING TO PRODUCTS. SELLER DISCLAIMS ALL OTHER WARRANTIES, CONDITIONS, AND REPRESENTATIONS, WHETHER STATUTORY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THOSE RELATING TO DESIGN, NONINFRINGEMENT, MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE. SELLER DOES NOT WARRANT THAT THE SOFTWARE IS ERROR-FREE OR FAULT-TOLERANT, OR THAT BUYER'S USE THEREOF WILL BE SECURE OR UNINTERRUPTED, UNLESS OTHERWISE AUTHORIZED IN WRITING BY SELLER, THE SOFTWARE SHALL NOT BE USED IN CONNECTION WITH HAZARDOUS OR HIGH-RISK ACTIVITIES OR ENVIRONMENTS. EXCEPT AS EXPRESSLY STATED HEREIN, ALL PRODUCTS ARE PROVIDED "AS IS".**

5. Claims; Commencement of Actions. Buyer shall promptly inspect all Products upon receipt. No claims for shortages will be allowed unless reported to Seller within ten (10) days of delivery. Buyer shall notify Seller of any alleged breach of warranty within thirty (30) days after the date the non-conformance is or should have been discovered by Buyer. Any claim or action against Seller based upon breach of contract or any other theory, including tort, negligence, or otherwise must be commenced within twelve (12) months from the date of the alleged breach or other alleged event, without regard to the date of discovery.

6. Limitation of Liability. In the Event of a Breach of Warranty, Seller Will, at its Option, Repair or Replace the Non-Conforming Products, Re-Perform the Services, or Refund the Purchase Price Paid Within a Reasonable Period of Time. In No Event is Seller Liable for Any Special, Indirect, Incidental or Consequential Damages Including Any Loss of Revenue or Profits, Whether Based in Contract, Tort or Other Legal Theory. In No Event Shall Seller's Liability Under Any Claim Made by Buyer Exceed the Purchase Price Paid for the Products.

7. Confidential Information. Buyer acknowledges and agrees that Confidential Information has been and will be received in confidence and will remain the property of Seller. Buyer further agrees that it will not use Seller's Confidential Information for any purpose other than for the benefit of Seller and shall return all such Confidential Information to Seller within thirty (30) days upon request.

8. Loss to Buyer's Property. Buyer's Property will be considered obsolete and may be destroyed by Seller after two (2) consecutive years have elapsed without Buyer ordering the Products manufactured using Buyer's Property. Also, Seller shall not be responsible for any loss or damage to Buyer's Property while it is in Seller's possession or control.

9. Special Tooling. Seller may impose a tooling charge for any Special Tooling. Special Tooling shall be and remain Seller's property. In no event will Buyer acquire any interest in the Special Tooling, even if such Special Tooling has been specially converted or adapted for manufacture of Goods for Buyer and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller has the right to alter, discard or otherwise dispose of any Special Tooling or other property owned by Seller in its sole determination at any time.

10. Security Interest. To secure payment of all sums due from Buyer, Seller retains a security interest in all Products delivered to Buyer and, Buyer's acceptance of these Terms is deemed to be a Security Agreement under the Uniform Commercial Code. Buyer authorizes Seller as its attorney to execute and file on Buyer's behalf all documents Seller deems necessary to perfect Seller's security interest.

11. User Responsibility. Buyer, through its own analysis and testing, is solely responsible for making the final selection of the Products and assuring that all performance, endurance, maintenance, safety and warning requirements of the application of the Products are met. Buyer must analyze all aspects of the application and follow applicable industry standards, specifications, and any technical information provided with the Quote or the Products, such as Seller's instructions, guides and specifications. If Seller provides options of or for Products based upon data or specifications provided by Buyer, Buyer is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the Products. In the event Buyer is not the end-user of the Products, Buyer will ensure such end-user complies with this paragraph.

12. Use of Products, Indemnity by Buyer. Buyer shall comply with all instructions, guides and specifications provided by Seller with the Quote or the Products. If Buyer uses or resells the Products in any way prohibited by Seller's instructions, guides or specifications, or Buyer otherwise fails to comply with Seller's instructions, guides and specifications, Buyer acknowledges that any such use, resale, or non-compliance is at Buyer's sole risk. Further, Buyer shall indemnify, defend, and hold Seller harmless from any losses, claims, liabilities, damages, lawsuits, judgments and costs (including attorney fees and defense costs), whether for personal injury, property damage, intellectual property infringement or any other claim, arising out of or in connection with: (a) improper selection, design, specification, application, or misuse of Products; (b) any act or omission, negligent or otherwise, of Buyer; (c) Seller's use of Buyer's Property; (d)

Bladder Accumulators Piston, Bladder, Diaphragm Accumulators

damage to the Products from an external cause, repair or attempted repair by anyone other than Seller, failure to follow instructions, guides and specifications provided by Seller, use with goods not provided by Seller, or opening, modifying, deconstructing, tampering with or repackaging the Products; or (e) Buyer's failure to comply with these Terms, including any legal or administrative proceedings, collection efforts, or other actions arising from or relating to such failure to comply. Seller shall not indemnify Buyer under any circumstance except as otherwise provided in these Terms.

13. Cancellations and Changes. Buyer may not cancel or modify, including but not limited to movement of delivery dates for the Products, any order for any reason except with Seller's written consent and upon terms that will indemnify, defend and hold Seller harmless against all direct, incidental and consequential loss or damage and any additional expense. Seller, at any time, may change features, specifications, designs and availability of Products.

14. Assignment. Buyer may not assign its rights or obligations without the prior written consent of Seller.

15. Force Majeure. Seller is not liable for delay or failure to perform any of its obligations by reason of any events or circumstances beyond its reasonable control. Such circumstances include without limitation: accidents, labor disputes or stoppages, government acts or orders, acts of nature, pandemics, epidemics, other widespread illness, or public health emergency, cyber related disruptions, cyber-attacks, ransomware sabotage, delays or failures in delivery from carriers or suppliers, shortages of materials, sudden increases in the price of raw material or components, shutdowns or slowdowns affecting the supply of raw materials or components, or the transportation thereof, oil shortages or oil price increases, energy crisis, energy or fuel interruption, war (whether declared or not) or the serious threat of same, riots, rebellions, acts of terrorism, embargoes, fire or any reason whether similar to the foregoing or otherwise. Seller will resume performance as soon as practicable after the event of force majeure has been removed. All delivery dates affected by an event of force majeure shall be tolled for the duration of such event of force majeure and rescheduled for mutually agreed dates as soon as practicable after the event of force majeure ceases to exist. The right to allocate capacity is in the Seller's sole discretion. An event of force majeure shall not include financial distress, insolvency, bankruptcy, or other similar conditions affecting one of the parties, affiliates and/or sub-contractors. An event of force majeure in the meaning of these Terms means any circumstances beyond Seller's control that permanently or temporarily hinders performance, even where that circumstance was already foreseen. Buyer shall not be entitled to cancel any orders following its claim of an event of force majeure.

16. Waiver and Severability. Failure to enforce any provision of these Terms will not invalidate that provision; nor will any such failure prejudice either party's right to enforce that provision in the future. Invalidation of any provision of these Terms shall not invalidate any other provision herein and, the remaining provisions will remain in full force and effect.

17. Duration. Unless otherwise stated in the Quote, any agreement governed by or arising from these Terms shall: (a) be for an initial duration of one (1) year; and (b) shall automatically renew for successive one-year terms unless terminated by Buyer with at least 180-days written notice to Seller or if Seller terminates the agreement pursuant to Section 19 of these Terms.

18. Termination. Seller may, without liability to Buyer, terminate any agreement governed by or arising from these Terms for any reason and at any time by giving Buyer thirty (30) days prior written notice. Seller may immediately terminate, in writing, if Buyer: (a) breaches any provision of these Terms, (b) becomes or is deemed insolvent, (c) appoints or has appointed a trustee, receiver or custodian for all or any part of Buyer's property; (d) files a petition for relief in bankruptcy on its own behalf, or one is filed against Buyer by a third party, (e) makes an assignment for the benefit of creditors; or (f) dissolves its business or liquidates all or a majority of its assets.

19. Ownership of Rights. Buyer agrees that (a) Seller (and/or its affiliates) owns or is the valid licensee of Seller's IP and (b) the furnishing of information, related documents or other materials by Seller to Buyer does not grant or transfer any ownership interest or license in or to Seller's IP to Buyer, unless expressly agreed in writing. Without limiting the foregoing, Seller retains ownership of all Software supplied to Buyer. In no event shall Buyer obtain any greater right in and to the Software than a right in a license limited to the use thereof and subject to compliance with any other terms provided with the Software. Buyer further agrees that it will not, directly or through intermediaries, reverse engineer, decompile, or disassemble any Software (including firmware) comprising or contained within a Product, except and only to the extent that such activity may be expressly permitted, either by applicable law or, in the case of open source software, the applicable open source license.

20. Indemnity for Infringement of Intellectual Property Rights. Seller is not liable for infringement of any Intellectual Property Rights except as provided in this Section. 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 a third-party claim that one or more of the Products infringes the Intellectual Property Rights of a third party in the country of delivery of the Products by Seller to Buyer. Seller's obligation to defend and indemnify Buyer is contingent on Buyer notifying Seller within ten (10) days after Buyer becomes aware of any such claim, and Seller having sole control over the defense of the claim including all negotiations for settlement or compromise. If one or more Products is subject to such a claim, Seller may, at its sole expense and option, procure for Buyer the right to continue using the Products, replace or modify the Products to render them non-infringing, or offer to accept return of the Products and refund the purchase price less a reasonable allowance for depreciation. Seller has no obligation or liability for any claim of infringement: (i) arising from information provided by Buyer (including Seller's use of Buyer's Property); or (ii) directed to any Products for which the designs are specified in whole or part by Buyer; or (iii) resulting from the modification, combination or use in a system of any Products. The foregoing provisions of this Section constitute Seller's sole and exclusive liability and Buyer's sole and exclusive remedy for claims of infringement of Intellectual Property Rights.

21. Governing Law. These Terms, the terms of any Quote, and the sale and delivery of all Products are deemed to have taken place in, and shall be governed and construed in accordance with, the laws of the State of Ohio, as applicable to contracts executed and wholly performed therein and without regard to conflicts of laws principles. Buyer irrevocably agrees and consents to the exclusive jurisdiction and venue of the courts of Cuyahoga County, Ohio with respect to any dispute, controversy or claim arising out of or relating to the sale and delivery of the Products.

22. Entire Agreement. These Terms, along with the terms set forth in the Quote, forms the entire agreement between the Buyer and Seller and constitutes the final, complete and exclusive expression of the terms of sale and purchase. In the event of a conflict between any term set forth in the Quote and these Terms, the terms set forth in the Quote shall prevail. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter shall have no effect. No modification to these Terms will be binding on Seller unless agreed to in writing that is signed by an authorized representative of Seller, excluding email correspondence, 'clickwrap' or other purported electronic assent to different or additional terms. Sections 2-25 of these Terms shall survive termination or cancellation of any agreement governed by or arising from these Terms.

23. No 'Wrap' Agreements/No Authority to Bind. Seller's clicking any buttons or any similar action, such as clicking "I Agree" or "Confirm," to utilize Buyer's software or webpage for the placement of orders, is NOT an agreement to Buyer's Terms and Conditions. NO EMPLOYEE, AGENT OR REPRESENTATIVE OF SELLER HAS THE AUTHORITY TO BIND SELLER BY THE ACT OF CLICKING ANY BUTTON OR SIMILAR ACTION ON BUYER'S WEBSITE OR PORTAL.

24. Compliance with Laws. Buyer agrees to comply with all applicable laws, regulations, and industry and professional standards, including those of the United States of America, and the country or countries in which Buyer may operate, including without limitation the U.S. Foreign Corrupt Practices Act ("FCPA"), the U.S. Anti-Kickback Act ("Anti-Kickback Act"), U.S. and E.U. export control and sanctions laws ("Export Laws"), the U.S. Food Drug and Cosmetic Act ("FDCA"), and the rules and regulations promulgated by the U.S. Food and Drug Administration ("FDA"), each as currently amended. Buyer agrees to indemnify, defend, and hold harmless Seller from the consequences of any violation of such laws, regulations and standards by Buyer, its employees or agents. Buyer represents that it is familiar with all applicable provisions of the FCPA, the Anti-Kickback Act, Export Laws, the FDCA and the FDA and certifies that Buyer will adhere to the requirements thereof and not take any action that would make Seller violate such requirements. Buyer represents and agrees that Buyer will not make any payment or give anything of value, directly or indirectly, to any governmental official, foreign political party or official thereof, candidate for foreign political office, or commercial entity or person, for any improper purpose, including the purpose of influencing such person to purchase Products or otherwise benefit the business of Seller. Buyer further represents and agrees that it will not receive, use, service, transfer or ship any Products from Seller in a manner or for a purpose that violates Export Laws or would cause Seller to be in violation of Export Laws. Buyer agrees to promptly and reliably provide Seller all requested information or documents, including end-user statements and other written assurances, concerning Buyer's ongoing compliance with Export Law. 9/22



Parker Hannifin Corporation
Cylinder and Accumulator Division
500 South Wolf Road
Des Plaines, IL 60016
phone (847) 298-2400
fax (847) 294-2655
www.parker.com/cylinder-accumulator

