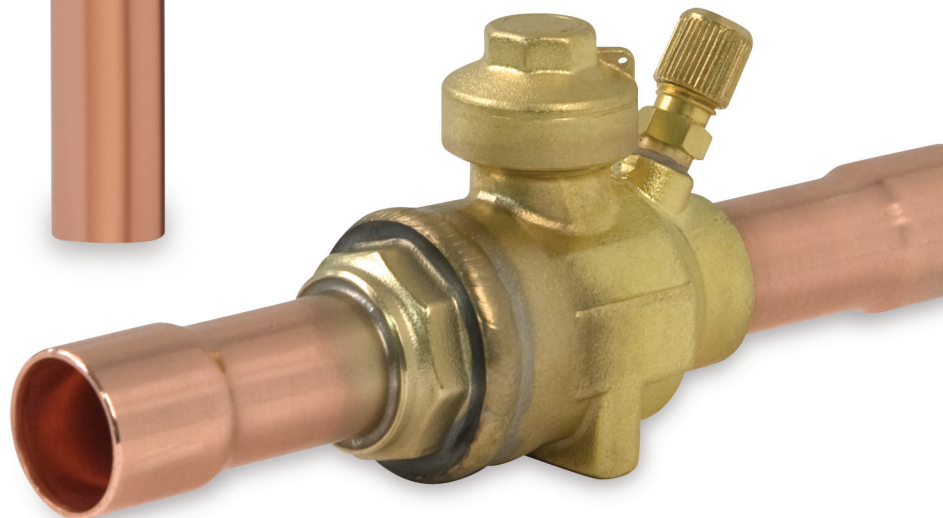
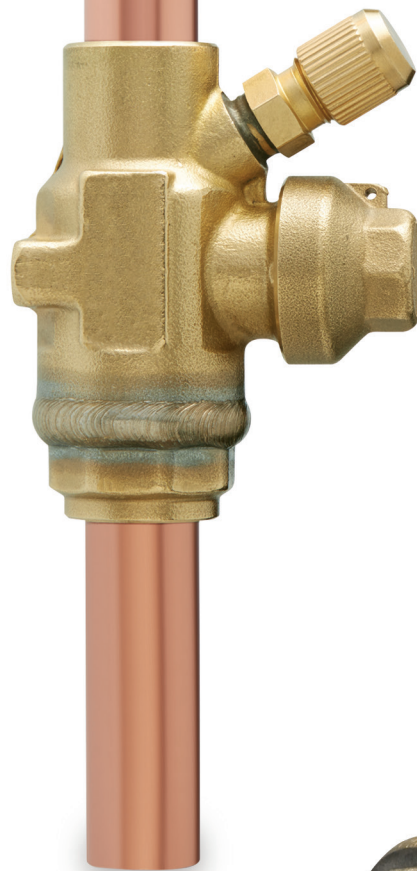




aerospace  
 climate control  
 electromechanical  
 filtration  
 fluid & gas handling  
 hydraulics  
 pneumatics  
 process control  
 sealing & shielding



# EBVP and EBVP-PZK Ball Valve Series

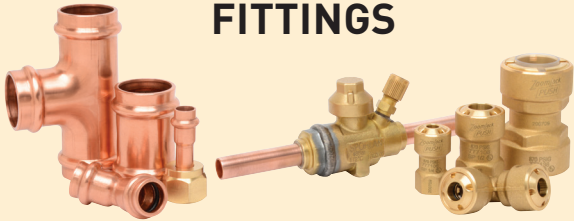
Catalog H-1, September 2021



ENGINEERING YOUR SUCCESS.

# ZoomLock®

## FLAME-FREE REFRIGERANT FITTINGS



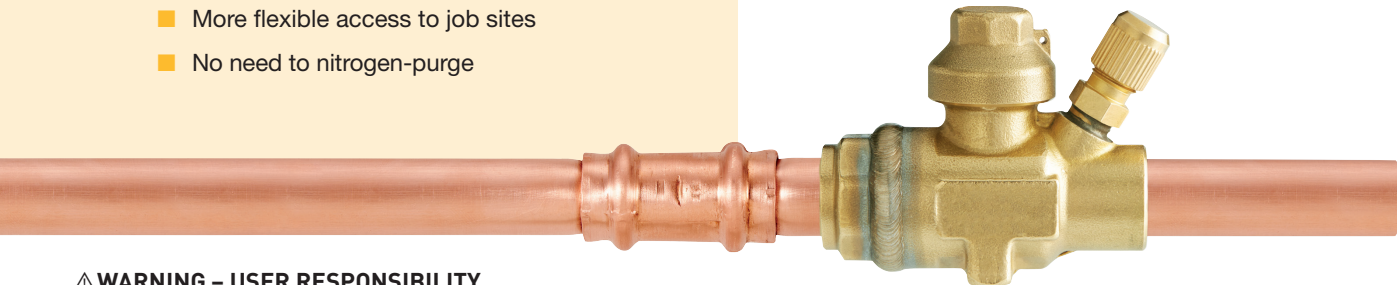
**ZoomLock® compatible EBVP-PZK ball valves and flame-free fittings** make your job of joining copper tubes simpler and faster. The one-piece fittings, specially designed to work without brazing, are reliably secure, leak-proof and more repeatable than brazed connections — so there's no compromise on quality or performance. Professionals who have tried ZoomLock flame-free couplings report that their time and labor costs on tube connections are typically reduced 40 – 60% on average by eliminating the need for brazing. The biggest benefit of that improved efficiency is more productivity and increased profit potential, but there are also many other exciting advantages to braze-free tube connecting:

- Less equipment and no gas needed
- Safer conditions, no fire hazards
- No hot work permits required
- More environment-friendly
- No solder-related quality issues
- More flexible access to job sites
- No need to nitrogen-purge

## EBVP and EBVP-PZK Series

(with Access Fitting)

- Welded body joint. Factory tested to ensure positive, leak-free performance. Forged brass body construction with extended ODF X ODF or ODM X ODM copper fittings and an access fitting.
- EBVP-PZK with ODM X ODM connections are compatible with ZoomLock flame-free fittings. See Catalog K-2 and K-3 for more information on ZoomLock.
- Full size ports for unrestricted flow on most sizes – EBVP Series – 1/4" through 4-1/8" EBVP-PZK Series – 1/4" through 1-3/8" Reduced port designs are available for 2-5/8", 3-1/8", 3-5/8", 4-1/8".
- Dual Teflon seals surround the polished, brass ball to prevent leakage. Stem seal and stem washer provide the primary stem seal. Bottom load stem for safety.
- Stainless steel stop plate ensures fully open to fully closed with a 1/4 turn.
- Ball internal relief port design ensures positive shut-off in either flow direction, even during system evacuation.
- All EBVP and EBVP-PZK ball valves are bi-directional and may be installed in any position.
- Continuous temperature range: -40 deg F to 248 deg F (-40 deg C to 120 deg C)
- Installation temperature (15 minutes max.) limit: 300 deg F (149 deg C)
- Design working pressure: 700 psig (48 barg).
- U.L. Listed File No. SA5460
- EBVP ball valves are suitable for use with R-22, R-123, R-125, R-134a, R-236fa, R-404A, R-407A, R-407C, R-407F, R-410A, R-422D, R-448A, R-449A, R-450A, R-452A, R-454B, R-507, and R-513A
- **EBVP-PZK ball valves used in combination with ZoomLock press-to-connect fittings and ZoomLock push-to-connect R-410A optimized fittings are not approved for use with R-22.**
- Date code stamped into valve body YYMMDD
- CE and RoHS Compliant



### ⚠ WARNING – USER RESPONSIBILITY

**Failure or improper selection or improper use of the products described herein or related items can cause death, personal injury and property damage.**

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.

The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.

To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

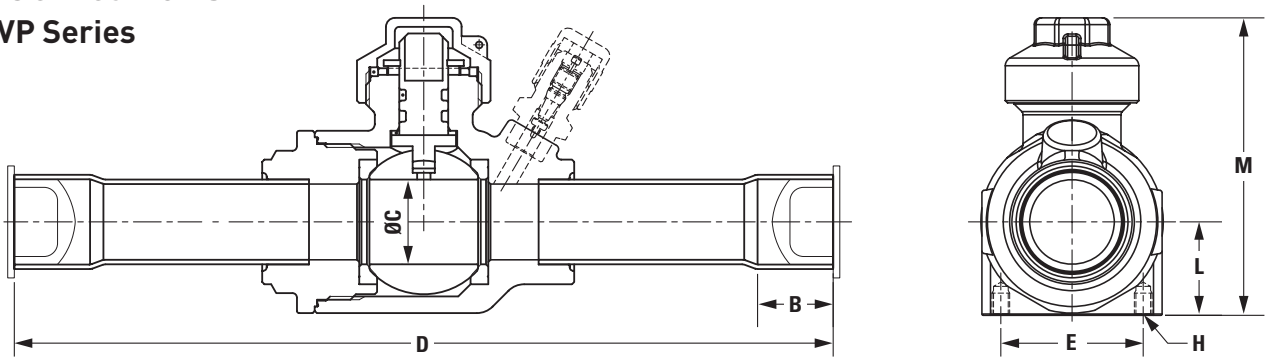
### OFFER OF SALE

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 the provisions stated in the detailed "Offer of Sale" elsewhere in this document or available at [www.parker.com](http://www.parker.com).

Catalog H-1, September 2021 supersedes Catalog H-1, April 2021 and all prior publications.

# Specifications

## EBVP Series



### Standard (ODF x ODF) Inches

EBVP Series			Overall Length D	Socket Depth B	L	Overall Height M	Port Size C	Mounting Holes E	Mounting Hole Size H	Cv	Weight (lbs.)
Description	Part Number	Connection (ODF)									
EBVP-1020**	502053	1/4	6.50	0.31	0.63	2.14	0.50	0.79	#8-36 UNF	2.1	0.725
EBVP-1030	502054	3/8	6.50	0.31	0.63	2.14	0.50	0.79	#8-36 UNF	4.3	0.725
EBVP-1040	502055	1/2	6.50	0.38	0.63	2.14	0.50	0.79	#8-36 UNF	7.0	0.725
EBVP-1050	502056	5/8	6.50	0.50	0.63	2.14	0.50	0.79	#8-36 UNF	13.9	0.725
EBVP-1060	502057	3/4	7.25	0.63	0.83	2.63	0.75	1.26	#8-36 UNF	21.0	1.375
EBVP-1070	502058	7/8	7.25	0.75	0.83	2.63	0.75	1.27	#8-36 UNF	30.3	1.405
EBVP-1090	502059	1-1/8	8.50	0.91	1.00	2.98	1.00	1.57	#10-32 UNF	61.3	2.10
EBVP-1110	502060	1-3/8	9.25	0.97	1.22	3.70	1.25	1.89	#10-32 UNF	85.2	3.36
EBVP-1130	502061	1-5/8	10.00	1.09	1.53	4.29	1.50	2.36	1/4-28 UNF	212	5.39
EBVP-1170	502062	2-1/8	11.38	1.34	1.87	5.18	2.00	2.95	1/4-28 UNF	285	10.09
EBVP-1210	502064	2-5/8	14.37	1.47	2.36	6.06	2.50	2.95	1/4-28 UNF	301	19.25
EBVP-1250	502066	3-1/8	16.54	1.66	2.81	7.01	3.15	4.10	5/16-24 UNF	420	40.13
EBVP-2210*	502063	2-5/8	12.88	1.44	1.87	5.18	2.00	2.95	1/4-28 UNF	238	11.11
EBVP-2250*	502065	3-1/8	14.37	1.66	2.36	6.06	2.50	2.95	1/4-28 UNF	324	19.25
EBVP-2290*	502167	3-5/8	16.54	1.69	2.83	7.02	3.12	4.10	5/16-24 UNF	511	33
EBVP-2330*	502168	4-1/8	16.54	2.20	2.83	7.02	3.12	4.10	5/16-24 UNF	520	33.7

\* Reduced port and not a stock item. Minimum order quantity may be required.

\*\* EBVP-1020 is not a stock item. Minimum order quantity is required.

### ZoomLock Compatible (ODM x ODM)

#### Inches

ZoomLock EBVP-PZK Series			Overall Length D	Socket Depth B	L	Overall Height M	Port Size C	Mounting Holes E	Mounting Hole Size H	Cv	Weight (lbs.)
Description	Part Number	Connection (ODM)									
EBVP-1023-PZK	502159	1/4	6.50	0.31	0.63	2.14	0.50	0.79	#8-36 UNF	2.1	0.725
EBVP-1033-PZK	502160	3/8	6.50	0.31	0.63	2.14	0.50	0.79	#8-36 UNF	4.3	0.725
EBVP-1043-PZK	502161	1/2	6.50	0.38	0.63	2.14	0.50	0.79	#8-36 UNF	7.0	0.725
EBVP-1053-PZK	502162	5/8	6.50	0.50	0.63	2.14	0.50	0.79	#8-36 UNF	13.9	0.725
EBVP-1063-PZK	502163	3/4	7.25	0.63	0.83	2.63	0.75	1.26	#8-36 UNF	21.0	1.375
EBVP-1073-PZK	502164	7/8	7.25	0.75	0.83	2.63	0.75	1.27	#8-36 UNF	30.3	1.405
EBVP-1093-PZK	502165	1-1/8	8.50	0.91	1.00	2.98	1.00	1.57	#10-32 UNF	61.3	2.10
EBVP-1113-PZK	502166	1-3/8	9.25	0.97	1.22	3.70	1.25	1.89	#10-32 UNF	85.2	3.36

### Nomenclature - Example: EBVP-1030

#### Inches

EBV	P	-	1	03	0	PZK
Valve Type	Access Fitting		Series: 1 = Full Port 2 = Reduced port	Fitting Size: (Eighths of an inch) ie: 03 = 3/8"	Fitting Configuration: 0 = ODF x ODF 3 = ODM x ODM	ZoomLock Compatible

### Replacement Stem Caps

Connection	Part Number
1/4 - 5/8	183390
3/4 - 1-1/8	183391
1-3/8 - 1-5/8	183392
2-1/8 - Larger	183393

# Installation

## ZoomLock Instructions

The EBVP-PZK Ball Valve Series with ODM X ODM connections are compatible with ZoomLock PUSH push-to-connect fittings and ZoomLock MAX press-to-connect fittings.

**NOTE:** Type PZK ODM X ODM models can also be brazed into the ODF solder connections of other components or tubing. See Brazing Instructions, page 5, for the proper brazing method.

### ZoomLock PUSH

Consult Catalog K-2 for more detailed installation instructions on ZoomLock PUSH fittings.

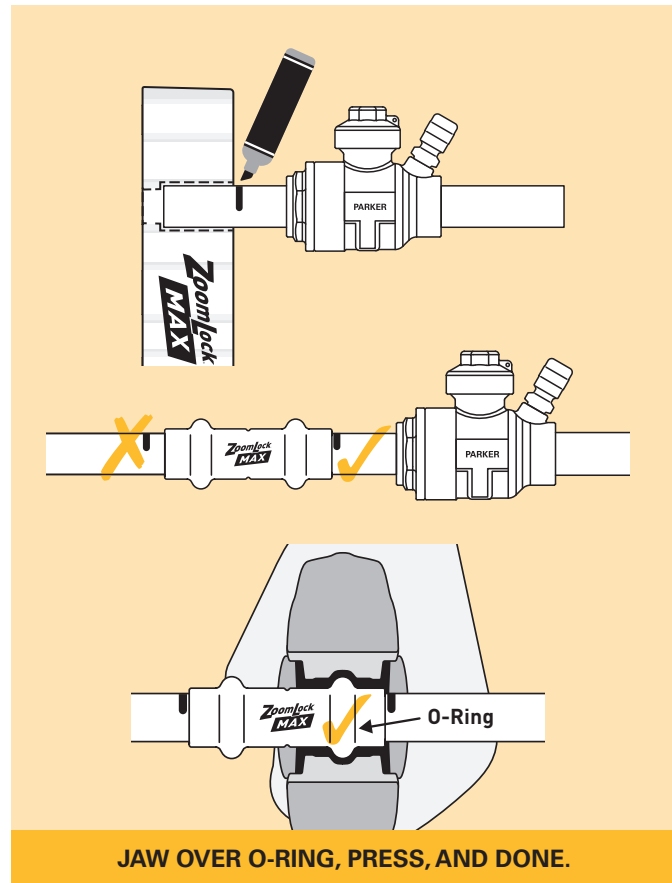
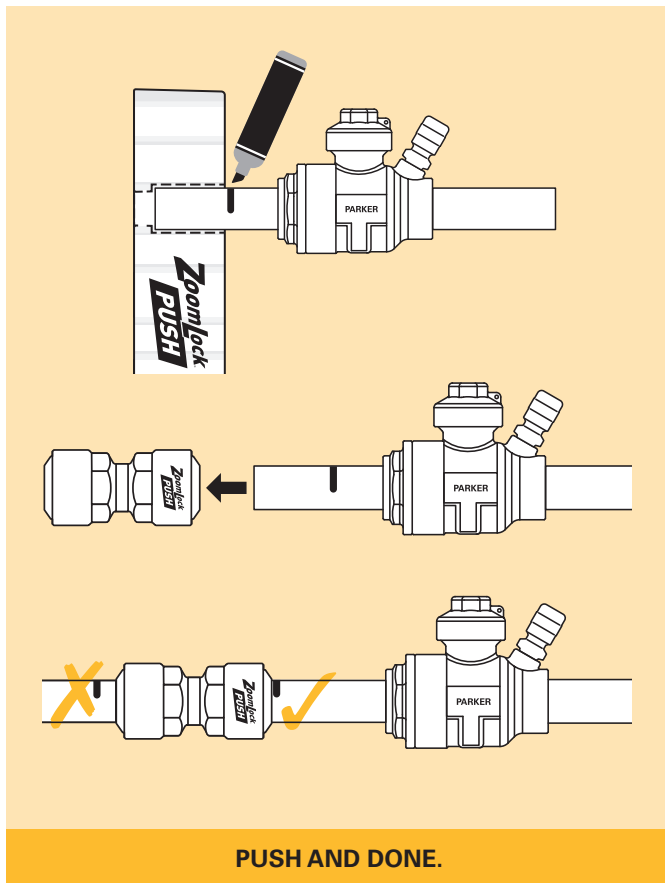
**CAUTION:** Do not insert fingers in the grip ring inside the fitting. Immediate emergency medical attention may be required for removal.

1. Deburr and clean copper to ensure tube ends are free and clear of any residual burrs, oxidation, dirt or debris. Use the ZoomLock PUSH depth gauge to determine the proper insertion depth. Mark the tubing with a permanent marker to indicate proper insertion depth on every tube.
2. Push the ZoomLock PUSH fitting onto the tube. Use the mark to assure insertion depth and secure fit.

### ZoomLock MAX

Consult Catalog K-3 for more detailed installation instructions on ZoomLock MAX fittings.

1. Deburr and clean copper to ensure tube ends are free and clear of any residual burrs, oxidation, dirt or debris. Use the ZoomLock MAX depth gauge to determine the proper insertion depth. Mark the tubing with a permanent marker to indicate proper insertion depth on every tube.
2. Push the ZoomLock MAX fitting onto the tube. Use the mark to assure insertion depth and secure fit.
3. Use the grooves in the jaw as a guide to properly place the crimping jaw onto the fitting. (See illustration below for proper crimping alignment.) Press and **continue to hold** the trigger on the ZoomLock MAX Crimping Tool until the tool completes its cycle. Once the tool has completed a full cycle, the crimp is complete.



[Catalog K-2 - ZoomLock PUSH Push-to-Connect Fittings](#)

To download, scan this QR code with a camera phone.



[Catalog K-3 - ZoomLock MAX Press-to-Connect Fittings](#)

To download, scan this QR code with a camera phone.

## Installation

### Brazing Instructions

1. DO NOT DISASSEMBLE.
2. WRAP THE BODY OF THE VALVE WITH A WET RAG (to dissipate heat-overheating causes damage).
3. Bleed dry nitrogen or CO<sub>2</sub> through the valve while brazing.
4. Use flux with silver brazing alloys.
5. Flux not required with phoscopper alloys, on copper to copper joints, but flux is recommended for deeper penetration and more uniform results with all alloys.
6. Use large enough torch to rapidly heat joint to brazing temperature. Direct flame away from existing copper to brass joints.
7. Quench to reduce heat spread after brazing.

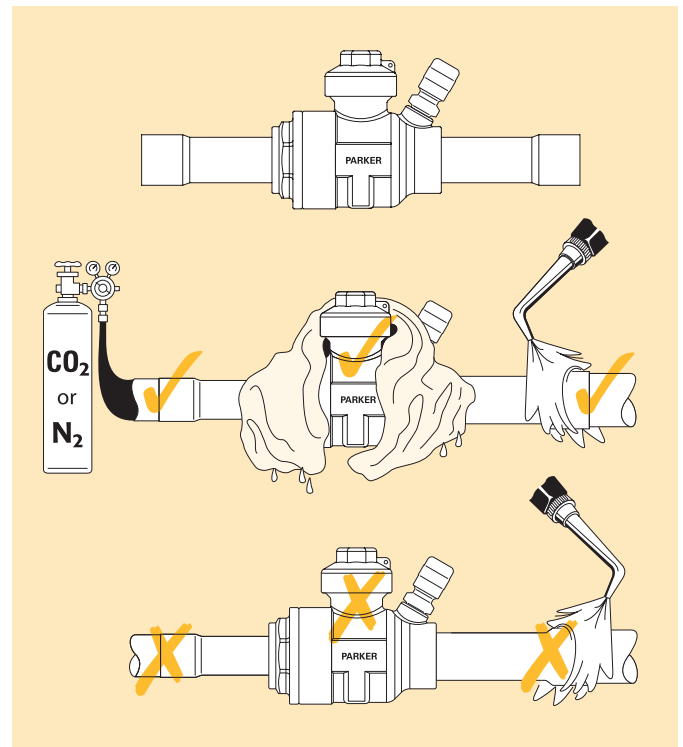
### Operation Notes

1. Remove seal cap. **CAUTION:** Pressure may be under seal cap, remove slowly.
2. Rotate stem using adjustable wrench. Turn 90° against the mechanical stops. Align open arrow with refrigerant line for non-directional flow. Turn clock-wise to close; counter-clockwise to open.
3. This valve contains mechanical stops. **DO NOT USE EXCESSIVE FORCE AGAINST STOPS OR PERMANENT DAMAGE MAY OCCUR.**
4. Install seal cap.
5. Valves are designed for use with R-22, R-123, R-125, R-134a, R-236fa, R-404A, R-407A, R-407C, R-407F, R-410A, R-422D, R-448A, R-449A, R-450A, R-452A, R-454B, R-507 and R-513A.

For use with CFC, HFC, and HCFC refrigerants listed in CAN/CSA B52 and ANSI/ASHRAE 15 Sec. 9.2 where the saturation vapor pressure at 125°F (52°C) (high side) and 80°F (27°C) (low side) is less than the maximum design working pressure. After charging, mark unit with refrigerant type and oil type.

**NOTICE: DO NOT DISASSEMBLE VALVE FOR ANY REASON.**

**NOTE: WARRANTY IS VOID IF THESE INSTRUCTIONS ARE NOT FOLLOWED.**



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**1. Definitions.** As used herein, the following terms have the meanings indicated.

**Buyer:** means any customer receiving a Quote for Products.

**Goods:** means any tangible part, system or component to be supplied by Seller.

**Products:** means the Goods, Services and/or Software as described in a Quote.

**Quote:** means the offer or proposal made by Seller to Buyer for the supply of Products.

**Seller:** means Parker-Hannifin Corporation, including all divisions and businesses thereof.

**Services:** means any services to be provided by Seller.

**Software:** means any software related to the Goods, whether embedded or separately downloaded.

**Terms:** means the terms and conditions of this Offer of Sale.

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**5. Warranty.** The warranty for the Products is as follows: (i) Goods are warranted against defects in material or workmanship for a period of twelve (12) months from the date of delivery or 2,000 hours of use, whichever occurs first; ZoomLock PUSH fittings are warranted against defects in material or workmanship for a period of ten (10) years (R410A Optimized) and five (5) years (Removable) from the date of delivery; ZoomLock MAX fittings are warranted against defects in material or workmanship for a period of ten (10) years from the date of delivery; (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, AND REPRESENTATION, 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, NON-INFRINGEMENT, 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**

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**6. 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.

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**9. Loss to Buyer's Property.** Any tools, patterns, materials, equipment or information furnished by Buyer or which are or become 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. Furthermore, Seller shall not be responsible for any loss or damage to Buyer's Property while it is in Seller's possession or control.

**10. Special Tooling.** "Special Tooling" includes but is not limited to tools, jigs, fixtures and associated manufacturing equipment acquired or necessary to manufacture Goods. Seller may impose a tooling charge for any Special Tooling. 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 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 discretion at any time.

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**12. 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.

**13. Use of Products, Indemnity by Buyer.** Buyer shall comply with all instructions, guides and specifications provided by Seller with the Quote or the Products. **Unauthorized Uses.** 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

## PARKER-HANNIFIN CORPORATION OFFER OF SALE

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**20. Indemnity for Infringement of Intellectual Property Rights.** Seller is not liable for infringement of any patents, trademarks, copyrights, trade dress, trade secrets or similar rights ("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 sold hereunder 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 sold hereunder 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 so as 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; or (ii) directed to any Products provided hereunder 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 provided hereunder. 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 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 main body of any 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 main body of a Quote and these Terms, the terms set forth in the main body of the Quote shall prevail. All prior or contemporaneous written or oral agreements or negotiations with respect to the subject matter shall have no effect. These Terms may not be modified unless in writing and signed by an authorized representative of Seller.

**23. 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 acknowledges 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 Laws.



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