



# PRICE PUMP®

## AIR OPERATED DIAPHRAGM AOD® PUMPS



**THINK QUALITY**  
**THINK DELIVERY**  
**THINK PRICE**

## TABLE OF CONTENTS

|                                     |       |
|-------------------------------------|-------|
| <b>WHY CHOOSE PRICE PUMP®</b> ..... | 2     |
| <b>FAMILY CURVE</b> .....           | 3     |
| <b>ANATOMY OF AN AOD®</b> .....     | 4     |
| <b>METALLIC AOD®</b> .....          | 5-6   |
| <b>TECHNICAL INFORMATION</b> .....  | 7-8   |
| <b>NONMETALLIC AOD®</b> .....       | 9-10  |
| <b>ACCESSORIES</b> .....            | 11-12 |
| <b>ABOUT PRICE PUMP®</b> .....      | 13    |





## WHY CHOOSE PRICE PUMP®

AOD® PUMPS OPERATE SUBSTANTIALLY DIFFERENT FROM CONVENTIONAL ELECTRICALLY DRIVEN CENTRIFUGAL OR POSITIVE DISPLACEMENT PUMPS. THESE DIFFERENCES CAN MAKE THE AOD® THE MOST COST EFFECTIVE SOLUTION TO YOUR MOST DIFFICULT PUMPING PROBLEMS.

### FEATURES

- WIDE RANGE OF FLUID CAPABILITIES • VARIABLE FLOWS UP TO 230 GPM • DRY RUN CAPABLE • FULLY SUBMERSIBLE •
- OPERABLE WITH A CLOSED DISCHARGE • GREAT FOR BATCHING APPLICATIONS • SELF PRIMING • INHERENTLY EXPLOSION PROOF •
- HANDLES SENSITIVE AND FRAGILE LIQUIDS LIKE PAINT, INK, AND CLAY SLIPS •

### ADVANTAGES

#### ENGINEERED EXCELLENCE

OUR ENGINEERS HAVE ACHIEVED STALL-FREE, OIL-LESS OPERATION WHILE USING THE FEWEST AIR VALVE COMPONENTS OF ANY MAJOR DIAPHRAGM PUMP MANUFACTURER. WITH THE USE OF SELF LUBRICATING PHENOLIC PISTON RINGS, O-RINGS ARE NO LONGER NECESSARY!

WHILE OTHER DIAPHRAGM PUMP MANUFACTURERS MAY OFFER BOLTED OR CLAMPED DESIGNS, OUR ENGINEERS HAVE DESIGNED BOTH CLAMPED AND BOLTED OPTIONS FOR ALMOST EVERY PUMP!

#### INDUSTRY LEADING CUSTOMER SERVICE AND LEAD TIMES

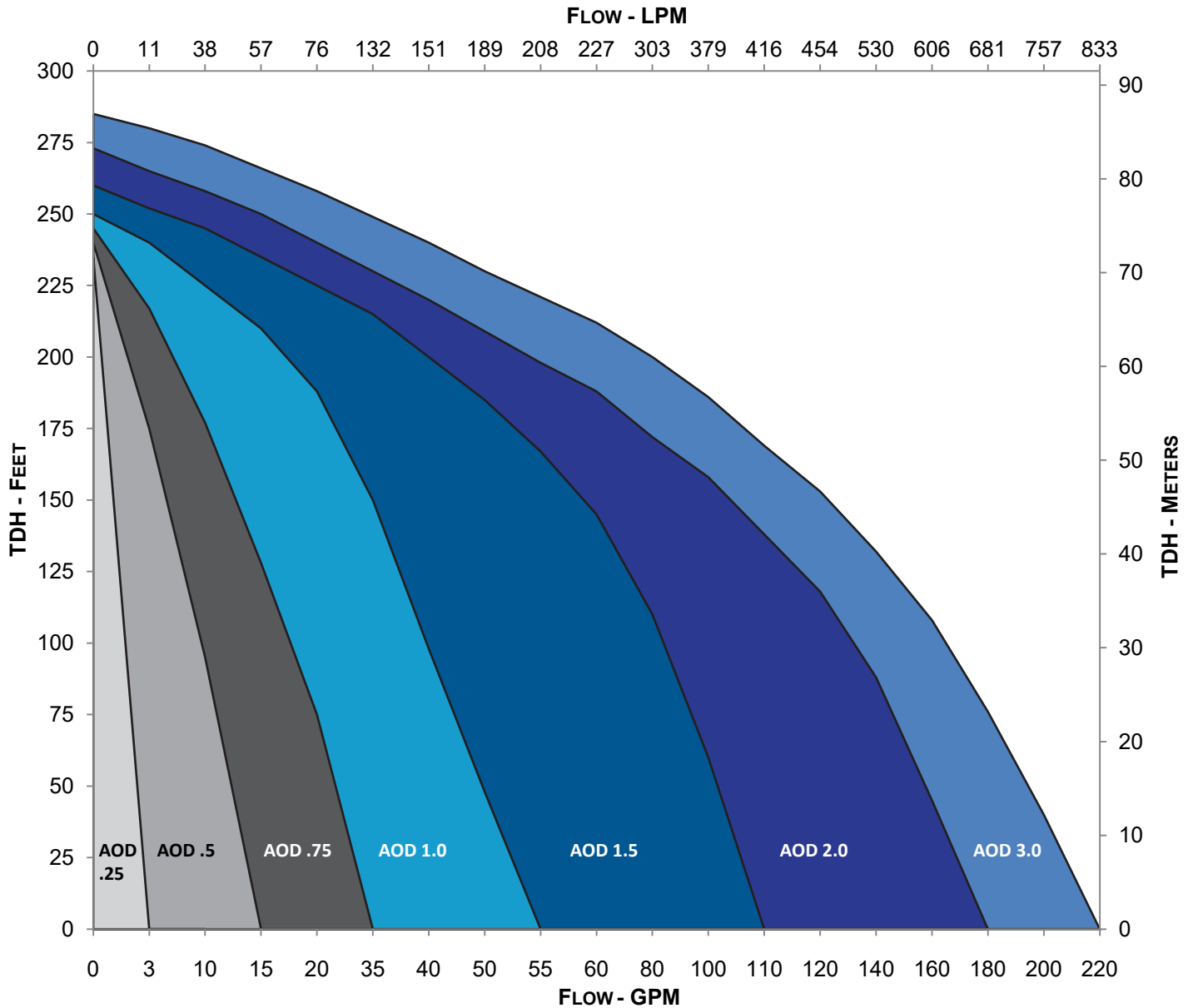
AT PRICE PUMP® WE PRIDE OURSELVES IN OUR WORLD CLASS CUSTOMER SERVICE, AND OUR DEDICATION TO CUSTOMER SATISFACTION. TO AID IN THIS, WE OFFER THE INDUSTRY'S BEST 7-10 DAY LEAD TIME ON OUR PUMPS. WE STOCK ALL MATERIAL OPTIONS ON OUR PUMPS, SO NO MATTER THE CONFIGURATION, YOUR PARTS AND PUMPS WILL BE IN STOCK AND READY TO SHIP WHEN YOU NEED THEM.

#### EXPEDITING OPTIONS

WE ARE ALSO PLEASED TO OFFER EXPEDITING OPTIONS ON OUR STANDARD PUMPS WITH VIP (VERY IMPORTANT PUMP) SHIPPING OPTIONS AVAILABLE! PARTS ORDERS SHIP NEXT DAY STANDARD BUT WITH OUR PONY (PARTS ORDER NEEDED YESTERDAY) PROGRAM YOUR PARTS CAN SHIP THE SAME DAY THAT YOU PLACED YOUR PURCHASE ORDER. WHEN YOU NEED A SOLUTION AND NEED IT FAST, THINK QUALITY...THINK DELIVERY... THINK PRICE®.



# FAMILY CURVE



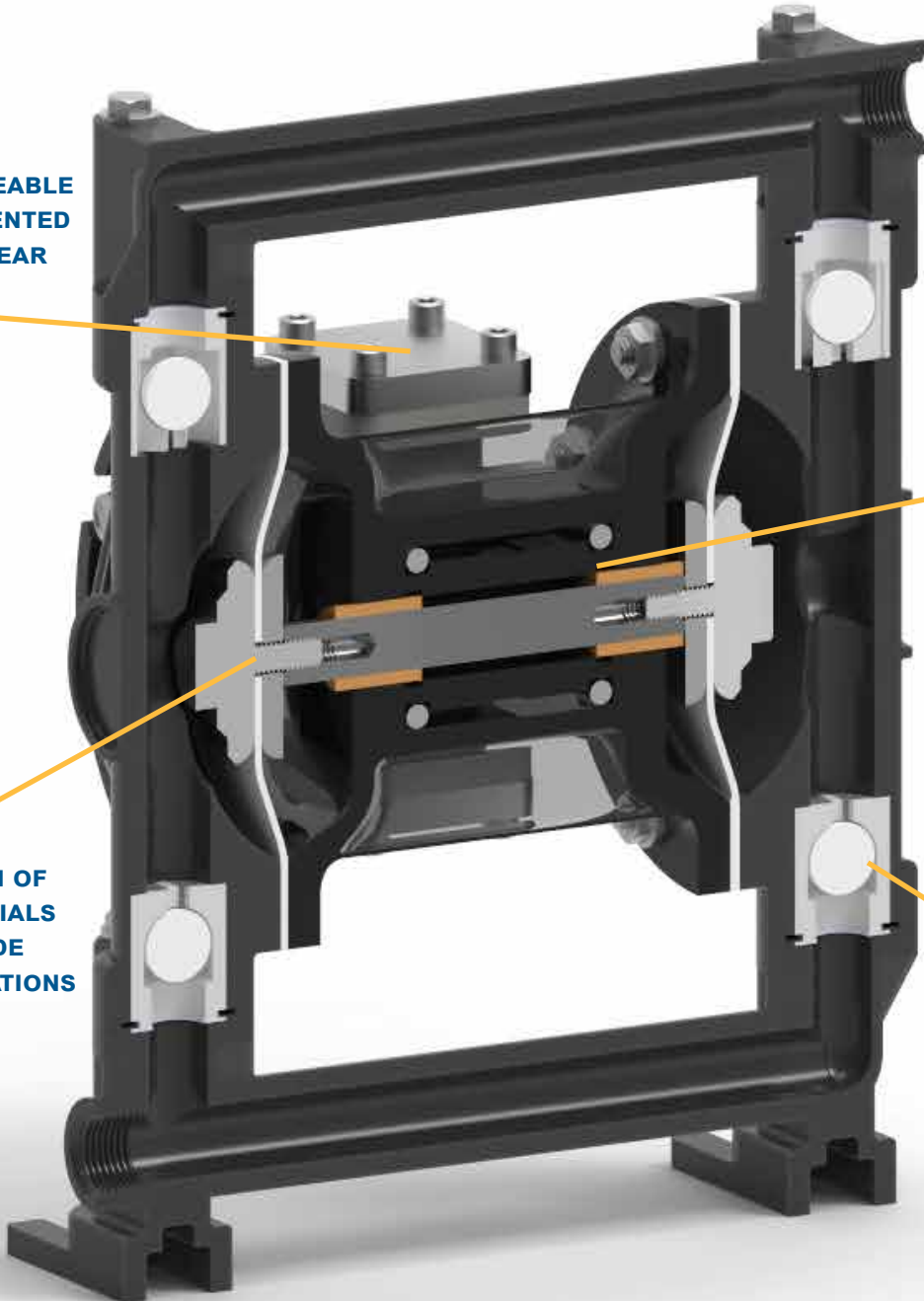
## ANATOMY OF AN AOD®

**EXTERNALLY SERVICEABLE  
AIR VALVE COMPLIMENTED  
BY A STANDARD 5 YEAR  
WARRANTY**

**LOW MAINTENANCE  
O-RING FREE AIR VALVE  
DESIGN FOR OILLESS AND  
STALL FREE OPERATION**

**LARGE SELECTION OF  
DIAPHRAGM MATERIALS  
TO HANDLE A WIDE  
VARIETY OF APPLICATIONS**

**MULTIPLE BALL/SEAT  
CHECK VALVE MATERIALS  
AVAILABLE TO ALLOW  
PASSAGE OF SOLIDS AND  
VISCIOUS FLUIDS**



## METALLIC AOD®



### CONFIGURATIONS

- WIDE RANGE OF SIZES AVAILABLE:  
1/4", 1/2", 3/4", 1", 1 1/2", 2", AND 3"
- FLOWS RANGING FROM 3.4 TO 230 GPM
- BOLTED AND CLAMPED OPTIONS AVAILABLE

### SPECIFICATIONS

- MAX AIR INLET PRESSURE: 100 - 125 PSI
- MAXIMUM TEMPERATURES: 212°F TO 248 °F
- AIR INLET OPTIONS: 1/4" AND 3/8" FNPT
- AIR OUTLET OPTIONS: 3/8", 1/2", AND 3/4" FNPT
- MAX SOLID SIZE: .004" TO .438"

RANGE OF SPECIFICATIONS MAY NOT BE AVAILABLE FOR ALL MODELS

### MATERIAL OPTIONS

- BUNA
- EPR
- SANTOPRENE®
- NEOPRENE
- TEFLON®
- VITON®
- CAST IRON
- ALUMINUM
- STAINLESS STEEL



## APPLICATIONS

- PAINT
- AEROSPACE
- AUTOMOTIVE
- BEVERAGE INDUSTRY
- CHEMICAL AND PETROLEUM
- GLASS AND FIBERGLASS
- MARINE
- MINE AND CONSTRUCTION
- PAPER AND WOOD
- MANY OTHERS



WE HAVE A PUMP TO FIT YOUR MOST COMPLICATED APPLICATIONS!

| MATERIALS  |                 | CHEMICAL COMPATIBILITY |          |                          |                             |           |                      |          | COSTS  |
|------------|-----------------|------------------------|----------|--------------------------|-----------------------------|-----------|----------------------|----------|--------|
|            |                 | KETONES                | ACETATES | AROMATIC<br>HYDROCARBONS | CHLORINATED<br>HYDROCARBONS | OIL & GAS | WATER/<br>WASTEWATER | ALCOHOLS | (\$)   |
| METALS     | STAINLESS STEEL | ✓                      | ✓        | ✓                        | ✓                           | ✓         | ✓                    | ✓        | \$\$   |
|            | ALUMINUM        | ✓                      |          | ✓                        |                             | ✓         |                      |          | \$     |
|            | CAST IRON       |                        |          | ✓                        | ✓                           | ✓         |                      |          | \$     |
| ELASTOMERS | BUNA            |                        |          |                          |                             | ✓         |                      |          | \$     |
|            | EPR             | ✓                      | ✓        |                          |                             |           | ✓                    | ✓        | \$     |
|            | SANTOPRENE®     | ✓                      | ✓        |                          |                             |           | ✓                    | ✓        | \$     |
|            | NEOPRENE        |                        |          |                          |                             |           | ✓                    |          | \$     |
|            | TEFLON®         | ✓                      | ✓        | ✓                        | ✓                           | ✓         | ✓                    | ✓        | \$\$\$ |
|            | VITON®          |                        |          | ✓                        | ✓                           | ✓         | ✓                    | ✓        | \$\$   |

THIS INFORMATION PROVIDED IS COMPILED FROM VARIOUS RESOURCES AND IS TO BE USED AS A REFERENCE ONLY. PLEASE SEE SPECIFIC FLUID PROPERTIES ON A CORROSION RESISTANCE GUIDE FOR COMPATIBILITY.

## TECHNICAL INFORMATION



### METALLIC AOD® - TECHNICAL INFORMATION AND SPECIFICATIONS

| MODEL NUMBER/<br>SPECIFICATION | MAX<br>FLOW<br>GPM<br>(LPM) | DISPLACEMENT<br>GAL<br>(LITERS) |       | MAX INLET<br>PSI<br>(BAR) | MAX SOLID<br>SIZE<br>INCHES<br>(MM) | HIGH TEMP LIMIT<br>°F<br>(°C) |     |      | LOW TEMP LIMIT<br>°F<br>(°C) |      |      | SHIPPING WEIGHT<br>LBS<br>(KG) |       |      |
|--------------------------------|-----------------------------|---------------------------------|-------|---------------------------|-------------------------------------|-------------------------------|-----|------|------------------------------|------|------|--------------------------------|-------|------|
|                                |                             | ELAS                            | TEF   |                           |                                     | AL                            | SS  | CI   | AL                           | SS   | CI   | AL                             | SS    | CI   |
| .25 AOD                        | 3.4                         | .009                            | .0085 | 100                       | .004                                | 212                           | 212 | ---- | ----                         | ---- | ---- | 4.3                            | 6.9   | ---- |
|                                | 12.9                        | .03                             | .032  | 6.9                       | .1                                  | 100                           | 100 | ---- | ----                         | ---- | ---- | 1.95                           | 3.13  | ---- |
| .5 AOD                         | 12.4                        | .03                             | .031  | 100                       | 1/32                                | 248                           | 248 | ---- | ----                         | ---- | ---- | 12                             | 16.6  | ---- |
|                                | 46.9                        | .11                             | .117  | 6.9                       | 1.0                                 | 120                           | 120 | ---- | ----                         | ---- | ---- | 5.44                           | 7.53  | ---- |
| .75 AOD                        | 27.3                        | .14                             | .10   | 100                       | 1/16                                | 248                           | 248 | ---- | ----                         | ---- | ---- | 24.8                           | 35.8  | ---- |
|                                | 103                         | .53                             | .38   | 6.9                       | 1.6                                 | 120                           | 120 | ---- | ----                         | ---- | ---- | 11.25                          | 16.23 | ---- |
| 1 AOD                          | 35                          | .18                             | .12   | 125                       | 1/8                                 | 248                           | 248 | 248  | 32                           | 32   | 32   | 34                             | 45    | 53   |
|                                | 132                         | .68                             | .45   | 8.8                       | 3.2                                 | 120                           | 120 | 120  | 0                            | 0    | 0    | 15.4                           | 20.4  | 24.0 |
| 1.5 AOD                        | 75                          | .35                             | .20   | 125                       | 3/16                                | 248                           | 248 | 248  | 32                           | 32   | 32   | 48                             | 85    | 88   |
|                                | 284                         | 1.3                             | .75   | 8.8                       | 4.7                                 | 120                           | 120 | 120  | 0                            | 0    | 0    | 21.8                           | 36.6  | 39.9 |
| 2 AOD                          | 170                         | .85                             | .80   | 125                       | 3/8                                 | 248                           | 248 | 248  | 32                           | 32   | 32   | 96                             | 165   | 161  |
|                                | 643                         | 3.2                             | 3.0   | 8.8                       | 9.5                                 | 120                           | 120 | 120  | 0                            | 0    | 0    | 43.5                           | 74.8  | 73   |
| 3 AOD                          | 230                         | .87                             | .82   | 125                       | 7/16                                | 248                           | 248 | 248  | 32                           | 32   | 32   | 124                            | 230   | 223  |
|                                | 871                         | 3.3                             | 3.1   | 8.8                       | 11                                  | 120                           | 120 | 120  | 0                            | 0    | 0    | 56.2                           | 104   | 101  |

## Non-METALLIC AOD® - TECHNICAL INFORMATION AND SPECIFICATIONS

| MODEL NUMBER/<br>SPECIFICATION | MAX<br>FLOW<br>GPM<br>(LPM) | DISPLACEMENT<br>GAL<br>(LITERS) |               | MAX<br>INLET<br>PSI<br>(BAR) | MAX<br>SOLID<br>SIZE<br>INCHES<br>(MM) | HIGH TEMP LIMIT<br>°F<br>(°C) |            | LOW TEMP LIMIT<br>°F<br>(°C) |         | SHIPPING WEIGHT<br>LBS<br>(KG) |              |
|--------------------------------|-----------------------------|---------------------------------|---------------|------------------------------|----------------------------------------|-------------------------------|------------|------------------------------|---------|--------------------------------|--------------|
|                                |                             | ELAS                            | TEF           |                              |                                        | POLYPRO                       | PVDF       | POLYPRO                      | PVDF    | POLYPRO                        | PVDF         |
| <b>.25 AOD</b>                 | 3.4<br>12.9                 | .009<br>.03                     | .0085<br>.035 | 100<br>6.9                   | .004<br>.1                             | 180<br>82                     | 212<br>100 | 32<br>0                      | 32<br>0 | 4.0<br>1.8                     | 4.7<br>2.1   |
| <b>.5 AOD</b>                  | 15<br>57                    | .04<br>.015                     | .014<br>.05   | 125<br>8.8                   | 1/8<br>3.2                             | 180<br>82                     | 248<br>180 | 32<br>0                      | 32<br>0 | 11<br>5.0                      | 13.5<br>6.1  |
| <b>.75 AOD</b>                 | 27.3<br>103                 | .14<br>.53                      | .10<br>.38    | 100<br>6.9                   | 1/16<br>1.6                            | 180<br>82                     | N/A        | 32<br>0                      | N/A     | 22.6<br>10.25                  | N/A          |
| <b>1 AOD</b>                   | 35<br>132                   | .12<br>.45                      | .10<br>.38    | 125<br>8.8                   | 3/16<br>4.7                            | 180<br>82                     | 248<br>120 | 32<br>0                      | 32<br>0 | 39<br>17.7                     | 44.5<br>20.2 |
| <b>1.5 AOD</b>                 | 115<br>435                  | .74<br>2.8                      | .37<br>1.4    | 100<br>6.9                   | 9/32<br>7.0                            | 180<br>82                     | 248<br>120 | 32<br>0                      | 32<br>0 | 78<br>35.4                     | 78<br>35.4   |
| <b>2 AOD</b>                   | 170<br>643                  | .85<br>3.2                      | .80<br>3.0    | 125<br>8.8                   | 3/8<br>9.5                             | 180<br>82                     | 248<br>120 | 32<br>0                      | 32<br>0 | 82<br>37                       | 105<br>47    |
| <b>3 AOD</b>                   | 213<br>806                  | 2.25<br>8.5                     | 1.0<br>3.8    | 100<br>6.9                   | 13/32<br>10.0                          | 180<br>82                     | N/A        | 32<br>0                      | N/A     | 178<br>81                      | N/A          |



## Non-METALLIC AOD®



### CONFIGURATIONS

- WIDE RANGE OF SIZES AVAILABLE: 1/4", 1/2", 3/4", 1", 1 1/2", 2", AND 3"
- FLOWS RANGING FROM 3.4 TO 213 GPM
- FLANGED AND THREADED OPTIONS AVAILABLE

### SPECIFICATIONS

- MAX AIR INLET PRESSURE: 100 - 125 PSI
- MAXIMUM TEMPERATURES: 180°F TO 248°F
- AIR INLET OPTIONS: 1/4", 3/8", AND 3/4" FNPT
- AIR OUTLET OPTIONS: 3/8", 1/2", 3/4", AND 1" FNPT
- MAX SOLID SIZE: .004" TO .406"

RANGE OF SPECIFICATIONS MAY NOT BE AVAILABLE FOR ALL MODELS

### MATERIAL OPTIONS

- BUNA
- EPR
- SANTOPRENE®
- NEOPRENE
- TEFLON®
- VITON®
- KYNAR
- POLYPROPYLENE



## APPLICATIONS

- PAINT
- AEROSPACE
- AUTOMOTIVE
- BEVERAGE
- CHEMICAL AND PETROLEUM
- GLASS AND FIBERGLASS
- MARINE
- MINE AND CONSTRUCTION
- PAPER AND WOOD
- MANY OTHERS



WE HAVE A PUMP TO FIT YOUR MOST COMPLICATED APPLICATIONS!

| MATERIALS  |               | CHEMICAL COMPATIBILITY |          |                       |                          |           |                   |          | COSTS  |
|------------|---------------|------------------------|----------|-----------------------|--------------------------|-----------|-------------------|----------|--------|
|            |               | KETONES                | ACETATES | AROMATIC HYDROCARBONS | CHLORINATED HYDROCARBONS | OIL & GAS | WATER/ WASTEWATER | ALCOHOLS | (\$)   |
| POLYMER    | KNYAR         | ✓                      | ✓        | ✓                     | ✓                        | ✓         | ✓                 | ✓        | \$\$   |
|            | POLYPROPYLENE |                        |          |                       |                          |           | ✓                 | ✓        | \$     |
| ELASTOMERS | BUNA          |                        |          |                       |                          | ✓         |                   |          | \$     |
|            | EPR           | ✓                      | ✓        |                       |                          |           | ✓                 | ✓        | \$     |
|            | SANTOPRENE®   | ✓                      | ✓        |                       |                          |           | ✓                 | ✓        | \$     |
|            | NEOPRENE      |                        |          |                       |                          |           | ✓                 |          | \$     |
|            | TEFLON®       | ✓                      | ✓        | ✓                     | ✓                        | ✓         | ✓                 | ✓        | \$\$\$ |
|            | VITON®        |                        |          | ✓                     | ✓                        | ✓         | ✓                 | ✓        | \$\$   |

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## ACCESSORIES



### CYCLE TIMER

THE BATCH CONTROLLER PROVIDES BATCH CONTROL CYCLES OF A PRODUCT AT REPEATED INTERVALS. ONCE THE SPECIFIC PREDETERMINED AMOUNT HAS BEEN REACHED, THE CONTROLLER SIGNALS THE PUMP TO SHUT OFF. THE SYSTEM OFFERS 3 SEPARATE BATCH CYCLES AND IS PROGRAMMED USING A 7-BUTTON KEYPAD.

### DIAPHRAGM MONITORING

THE DIAPHRAGM MONITORING SYSTEM IS DESIGNED TO PROTECT YOUR PUMP AGAINST DAMAGE FROM CORROSIVE, AGGRESSIVE, OR OTHER HARMFUL PUMPED FLUIDS. POWERED BY STANDARD LINE CURRENT, THE SYSTEM AUTOMATICALLY INTERRUPTS AIR SUPPLY TO THE PUMP AND/OR ACTIVATES AN INDICATOR THE MOMENT A DIAPHRAGM LEAK IS DETECTED.





# PRICE PUMP®

## **FILTER/REGULATOR**

ONE OF THE MOST COMMON ADDITIONS TO ANY AOD® PUMP IS A FILTER/REGULATOR. THESE FIT EASILY IN NEARLY ALL APPLICATIONS AND FILTER PLANT AIR TO 5 MICRONS WHILE ALLOWING PRECISE CONTROL OF AOD® PUMPS.



## **PULSATION DAMPENERS**

OUR PULSATION DAMPENERS AND SURGE SUPPRESSORS CAN ECONOMICALLY ELIMINATE UP TO 98% OF LOW FREQUENCY, HIGH AMPLITUDE PULSATIONS PRODUCED BY DIAPHRAGM PUMPS. THE RIGHT SIZES AND MATERIALS OF CONSTRUCTION ARE AVAILABLE FOR EVERY APPLICATION.



## ABOUT PRICE PUMP®

**1932**

FOUNDED BY E.L. PRICE IN EMERYVILLE, CALIFORNIA.

**1962**

PRICE PUMP® IS ACQUIRED BY LEON J. PAUL AND THE NAME IS RETAINED DUE TO THE REPUTATION FOR QUALITY AND SERVICE.

**1980**

THE AGRICULTURE MARKET IS REPLACED BY CHEMICAL, LASER, AND SEMICONDUCTOR MARKETS.

**1989**

PRICE PUMP® RELOCATES TO THEIR 32,000 SQUARE FOOT SONOMA CALIFORNIA FACILITY.

**1992**

BOB PIAZZA JOINS AS PRESIDENT AND BRINGS A LIFETIME OF PUMP EXPERIENCE.



**1994**

PRICE PUMP® CONTINUES TO INNOVATE AND LAUNCHES A LINE OF MAGNETICALLY DRIVEN SEAL-LESS PUMPS.

**1999**

AIR OPERATED DIAPHRAGM (AOD®) PUMPS ARE ACQUIRED FROM ITT-MARLOW.



**2007**

PRICE PUMP® PARTNERS WITH MITSUBISHI ELECTRIC AUTOMATION AND INTRODUCES VARIABLE FREQUENCY DRIVES (VFD).

**2010**

THE XJ400 IS INTRODUCED PRODUCING FLOWS OVER 1000 GALLONS PER MINUTE.

**2012**

PRICE PUMP® IMPLEMENTS AN ISO 9001 CERTIFIED QUALITY MANAGEMENT SYSTEM AS A COMMITMENT TO QUALITY AND CONTINUOUS IMPROVEMENT.

**2012-2017**

THE PURCHASE OF A NEW 3D PRINTER AND ADDITIONAL INVESTMENT IN ENGINEERING DESIGN AND DEVELOPMENT LEAD TO RAPID PROTOTYPING. THIS LEADS TO SEVERAL NEW PUMP RELEASES.

**2019**

NEW CORPORATE HEADQUARTERS OPENED AT 2203 SMEED PARKWAY IN CALDWELL IDAHO. PRICE PUMP® MOVES ALL PRODUCTION TO THIS NEW FACILITY.



**2020**

PRICE PUMP® FINISHES COMPLIANCE TESTING IN THEIR NEWLY CONSTRUCTED STATE OF THE ART TEST FACILITY; VERIFICATION OF COMPLIANCE WITH DEPARTMENT OF ENERGY PUMP ENERGY INDEX STANDARDS IS COMPLETED.



## CHECK OUT OUR OTHER PRODUCT OFFERINGS



## HORIZONTAL CENTRIFUGAL PUMPS



## SEALLESS CENTRIFUGAL PUMPS



## VERTICAL CENTRIFUGAL PUMPS

**FOR MORE INFORMATION PLEASE VISIT [WWW.PRICEPUMP.COM](http://WWW.PRICEPUMP.COM)**

## NOTES

This image shows a single sheet of white paper with horizontal blue dotted lines. The lines are evenly spaced and run across the width of the page, providing a guide for handwriting practice. There are no margins, text, or other markings on the paper.



# PRICE PUMP®

**FOR ALL OF OUR CURRENT OFFERINGS AND LOCAL REPRESENTATIVES  
PLEASE VISIT [WWW.PRICEPUMP.COM](http://WWW.PRICEPUMP.COM)**

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1-800-345-PUMP (7867)



**HYDRAULIC  
INSTITUTE**  
PROUD MEMBER