

**AIR OPERATED DIAPHRAGM PUMP**  
A COMPLETE RANGE OF DIAPHRAGM PUMP



**DIAPHRAGM PUMP**



# Ordering Information

## Flow rate

First, Make Sure the pump size according to the flow rate request

## Wet side material

Second, select appropriate wet side component according to material chemical characteristic.



## PUMP DATA



| Pump size                    | BP06    | BP15    | BA25    | BA40    | BA50    | BA80    |
|------------------------------|---------|---------|---------|---------|---------|---------|
| Working air pressure (bar)   | 0.9-6.0 | 1.5-6.9 | 1.0-8.3 | 1.0-8.4 | 1.0-8.5 | 1.0-8.6 |
| Port size                    | 1/4"    | 1/2"    | 1"      | 1.5"    | 2"      | 3"      |
| Maximum flow rate (L/min)    | 26.1    | 43.5    | 192     | 378.5   | 667     | 903     |
| Displacement per cycle (L)   | 0.06    | 0.14    | 0.87    | 2.83    | 3.78    | 7.67    |
| Maximum head of delivery (m) | 60      | 70      | 60      | 80      | 80      | 80      |
| Maximum dry suction (m)      | 4.2     | 4.1     | 6.7     | 6.7     | 6.2     | 5.3     |
| Maximum particle size        | 1       | 2.5     | 3       | 6       | 7       | 9       |

## Diaphragm Selection

+ =Excellent ✓=Good ! =Fair x =Poor

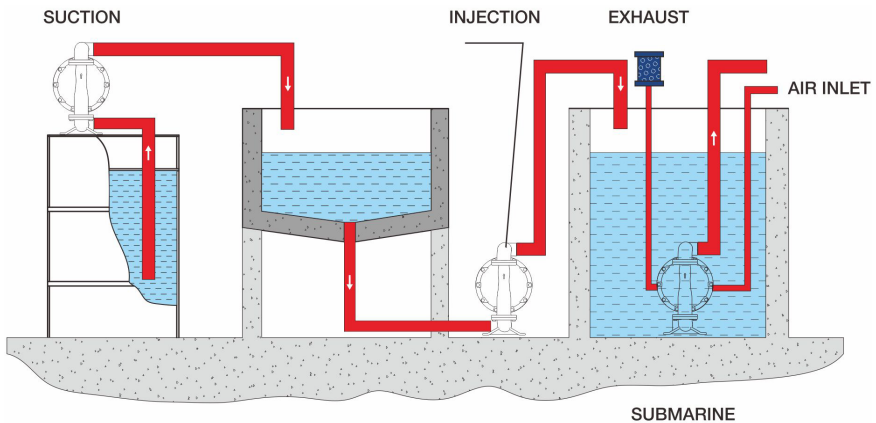
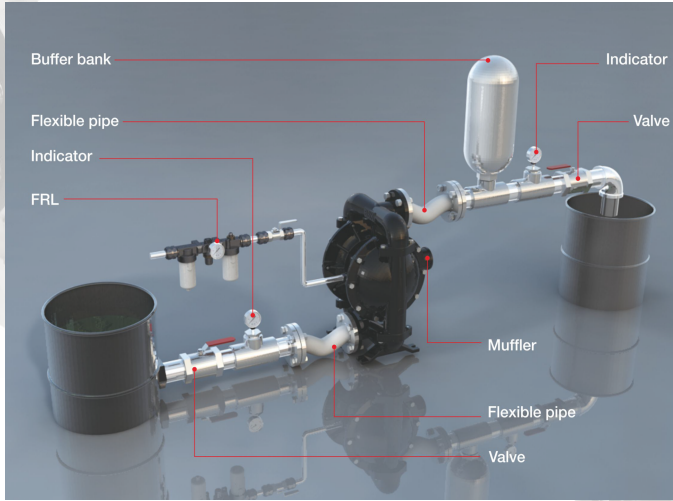
| Diaphragm material | Lifespan | Wear Resistant | Chemical Compatibility | Thermal Endurance | Temperatur (minimum) | Temperatur (maximum) |
|--------------------|----------|----------------|------------------------|-------------------|----------------------|----------------------|
| PTFE               | +        | +              |                        | +                 | 40°F/4.4°C           | 220°F/104°C          |
| Santoprene®        | +        | +              | ✓                      | ✓                 | -40°F/-40°C          | 225°F/107.2°C        |
| Hytrel®            | +        | +              | ✓                      | ✓                 | 32°F/0°C             | 175°F/79.4°C         |
| FKM                | x        | !              | +                      | +                 | -40°F/-40°C          | 350°F/176.6°C        |
| NBR                | x        | ✓              | !                      | !                 | 10°F/-40°C           | 180°F/82°C           |

## Wet Component Selection

+ =Excellent ✓=Good ! =Fair x =Poor

| Wet side part | Material    | Chemical corrosion resistant |        |        |         | Abrasion resistance |         | Thermal endurance | Adhere resistant |
|---------------|-------------|------------------------------|--------|--------|---------|---------------------|---------|-------------------|------------------|
|               |             | Non                          | Slight | Middle | Serious | Slight              | Serious |                   |                  |
| HOUSING       | AL          | +                            | x      | x      | x       | ✓                   | x       | +                 |                  |
|               | SS          | +                            | +      | ✓      | ✓       | +                   | +       | +                 |                  |
|               | CI          | +                            | x      | x      | x       | +                   | +       | +                 |                  |
|               | PP          | +                            | +      | ✓      | ✓       | ✓                   | x       | ✓                 |                  |
|               | PVDF        | +                            | +      | +      | +       | +                   | ✓       | ✓                 |                  |
| SEAT          | AL          | +                            | x      | x      | x       | ✓                   | x       | +                 |                  |
|               | SS          | +                            | +      | ✓      | ✓       | +                   | +       | +                 |                  |
|               | CI          | +                            | x      | x      | x       | +                   | +       | +                 |                  |
|               | PP          | +                            | +      | ✓      | ✓       | ✓                   | x       | ✓                 |                  |
|               | PVDF        | +                            | +      | +      | +       | +                   | ✓       | ✓                 |                  |
| BALL          | Santoprene® | +                            | ✓      | !      | !       | +                   | +       | ✓                 | !                |
|               | Hytrel      | +                            | +      | ✓      | !       | +                   | ✓       | ✓                 |                  |
|               | SS          | +                            | +      | +      | ✓       | ✓                   | +       | +                 | +                |
|               | Santoprene® | +                            | ✓      | !      | !       | +                   | +       | ✓                 | !                |
|               | Hytrel      | +                            | +      | ✓      | !       | +                   | ✓       | ✓                 | !                |
| VALVE SEALING | PTFE        | +                            | +      | +      | +       | +                   | ✓       | ✓                 | +                |
|               | NBR         | +                            | ✓      | !      | x       | ✓                   | ✓       | ✓                 | +                |
|               | NBR         | +                            | ✓      | !      | x       | ✓                   | ✓       | ✓                 | +                |
|               | PTFE        | +                            | +      | +      | +       | +                   | ✓       | ✓                 | +                |
|               | PTFE        | +                            | +      | +      | +       | +                   | ✓       | ✓                 | +                |

# Connection & Installation



# Ordering Information



| PART NUMBER        | DESCRIPTION                                  | REMARK     |
|--------------------|--|------------|
| BP15AL-PTH1-A      | AIR DIAPHRAGM PUMP 1/2" (AL/HYTREL,PTFE)     | COOLANT    |
| 6395-BA15-P1       | AIR SET REPAIR KIT 1/2"                      |            |
| 6396-BA15AL-PTH1-A | FLUID SET REPAIR KIT 1/2" (AL/HYTREL,PTFE)   |            |
| BA25AL-0HH1-A      | AIR DIAPHRAGM PUMP 1" (AL/HYTREL/HYTREL)     | OIL & FUEL |
| 6395-BA25-P1       | AIR SET REPAIR KIT 1"                        |            |
| 6396-BA25AL-0TH1-A | FLUID SET REPAIR KIT 1" (AL/HYTREL/PTFE)     |            |
| BA40AL-0TH1-A      | AIR DIAPHRAGM PUMP 1.1/2" (AL/HYTREL/PTFE)   |            |
| 6395-BA40-P1       | AIR SET REPAIR KIT 1.1/2"                    |            |
| 6396-BA40AL-0TH1-A | FLUID SET REPAIR KIT 1.1/2" (AL/HYTREL/PTFE) |            |
| BA50AL-0TH1-A      | AIR DIAPHRAGM PUMP 2" (AL/HYTREL/PTFE)       |            |
| 6395-BA50-P1       | AIR SET REPAIR KIT 2"                        |            |
| 6396-BA50AL-0TH1-A | FLUID SET REPAIR KIT 2" (AL/HYTREL/PTFE)     |            |
| BA80AL-0TH1-A      | AIR DIAPHRAGM PUMP 3" (AL/HYTREL/PTFE)       |            |
| 6395-BA80-P1       | AIR SET REPAIR KIT 3"                        |            |
| 6396-BA80AL-0TH1-A | FLUID SET REPAIR KIT 3" (AL/HYTREL/PTFE)     |            |
| BP15AL-P991-B      | AIR DIAPHRAGM PUMP 1/2" (AL/SANTOPRENE)      | WATER      |
| 6395-BA15-P1       | AIR SET REPAIR KIT 1/2"                      |            |
| 6396-BA15AL-P991-B | FLUID SET REPAIR KIT 1/2" (AL/SANTOPRENE)    |            |
| BA25AL-P991-A      | AIR DIAPHRAGM PUMP 1" (AL/SANTOPRENE)        |            |
| 6395-BA25-P1       | AIR SET REPAIR KIT 1"                        |            |
| 6396-BA25AL-P991-A | FLUID SET REPAIR KIT 1" (AL/SANTOPRENE)      |            |
| BA40AL-P991-A      | AIR DIAPHRAGM PUMP 1-1/2" (AL/SANTOPRENE)    |            |
| 6395-BA40-P1       | AIR SET REPAIR KIT 1.1/2"                    |            |
| 6396-BA40AL-P991-A | FLUID SET REPAIR KIT 1.1/2" (AL/SANTOPRENE)  |            |
| BA50AL-9990-A      | AIR DIAPHRAGM PUMP 2" (AL/SANTOPRENE)        |            |
| 6395-BA50-P1       | AIR SET REPAIR KIT 2"                        |            |
| 6396-BA50AL-P991-A | FLUID SET REPAIR KIT 2" (AL/SANTOPRENE)      |            |
| BA80AL-9990-A      | AIR DIAPHRAGM PUMP 3" (AL/SANTOPRENE)        |            |
| 6395-BA80-P1       | AIR SET REPAIR KIT 3"                        |            |
| 6396-BA80AL-P991-A | FLUID SET REPAIR KIT 3" (AL/SANTOPRENE)      |            |





Distributor :

## HARTEX GLOBAL INDUSTRIAL

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