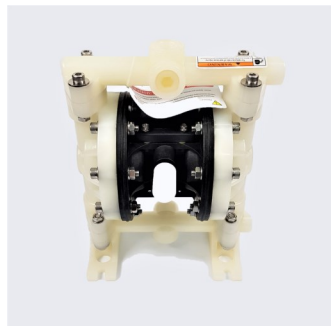


# **FLOTECH** Diaphragm Pump

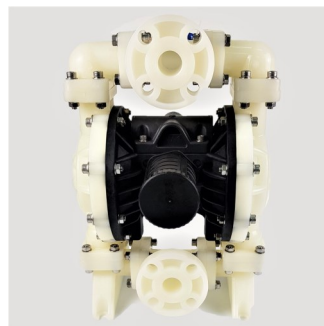
Air-operated double diaphragm pumps are ideal for unloading above or below ground tanks of any size. They are available in a wide range of materials of construction in sizes including: 1/2 in (12.7mm), 1 in (25.4mm), 1-1/2 in (38.1mm) and 2 in (50.8 mm). Fewer moving parts means increased durability and less repair time. Three-way pilot valve for true non-sticking operation and externally serviceable for quick, inexpensive repairs.



**DD15PP-PP/TF/TF/PP**



**DD25AL-AL/HY/HY/HY**



**DD40PP-PP/TF/TF/PP**



**DD50PP-PP/TF/TF/PP**

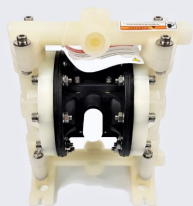
|                                | FLUID IN/<br>OUTLET | MAXIMUM<br>DELIVERY | MAX.AIR/<br>INLET | MATERIAL      | SEATS         | BALLS  | DIA-<br>PHRAGM | FLUID KIT          | AIR KIT |
|--------------------------------|---------------------|---------------------|-------------------|---------------|---------------|--------|----------------|--------------------|---------|
| <b>DD15PP-PP/<br/>TF/TF/PP</b> | 1/2" BSPT           | 57 lpm              | 8.4 bar /<br>3/8" | Polypropylene | Polypropylene | Teflon | Teflon         | DDK-15TF/<br>TF/PP | DDK-15A |

|   |           |         |                   |                        |                        |        |        |                    |        |
|---|-----------|---------|-------------------|------------------------|------------------------|--------|--------|--------------------|--------|
| <b>DD25AL-AL/<br/>HY/HY/HY</b>              | 1" BSPT   | 157 lpm | 8.4 bar /<br>1/2" | Aluminum               | Hytrel                 | Hytrel | Hytrel | DDK-25HY/<br>HY/HY | DDK-MA |
| <b>DD25PP-PP/<br/>TF/TF/PP-N</b>            | 1" Flange | 157 lpm | 8.4 bar /<br>1/2" | Polypropylene          | Polypropylene          | Teflon | Teflon | DDK-25TF/<br>TF/PP | DDK-MA |
| <b>DD25PP-SS/<br/>TF/TF/SS<br/>(SS 304)</b> | 1" BSPT   | 157 lpm | 8.4 bar /<br>1/2" | Stainless Steel<br>304 | Stainless Steel<br>304 | Teflon | Teflon | DDK-25TF/<br>TF/SS | DDK-MA |
| <b>DD25PP-LL/<br/>TF/TF/LL<br/>(SS 316)</b> | 1" BSPT   | 157 lpm | 8.4 bar /<br>1/2" | Stainless Steel<br>316 | Stainless Steel<br>316 | Teflon | Teflon | DDK-25TF/<br>TF/LL | DDK-MA |

|   |               |         |                   |                        |                        |        |        |                    |        |
|---|---------------|---------|-------------------|------------------------|------------------------|--------|--------|--------------------|--------|
| <b>DD40AL-AL/<br/>HY/HY/HY</b>              | 1-1/2" BSPT   | 358 lpm | 8.4 bar /<br>1/2" | Aluminum               | Hytrel                 | Hytrel | Hytrel | DDK-40HY/<br>HY/HY | DDK-MA |
| <b>DD40PP-PP/<br/>TF/TF/PP</b>              | 1-1/2" Flange | 358 lpm | 8.4 bar /<br>1/2" | Polypropylene          | Polypropylene          | Teflon | Teflon | DDK-40TF/<br>TF/PP | DDK-MA |
| <b>DD40PP-SS/<br/>TF/TF/SS<br/>(SS 304)</b> | 1-1/2" BSPT   | 358 lpm | 8.4 bar /<br>1/2" | Stainless Steel<br>304 | Stainless Steel<br>304 | Teflon | Teflon | DDK-40TF/<br>TF/SS | DDK-MA |
| <b>DD40PP-LL/<br/>TF/TF/LL<br/>(SS 316)</b> | 1-1/2" BSPT   | 358 lpm | 8.4 bar /<br>1/2" | Stainless Steel<br>316 | Stainless Steel<br>316 | Teflon | Teflon | DDK-40TF/<br>TF/LL | DDK-MA |

|   |           |         |                   |                        |                        |        |        |                    |        |
|---|-----------|---------|-------------------|------------------------|------------------------|--------|--------|--------------------|--------|
| <b>DD50AL-AL/<br/>HY/HY/HY</b>              | 2" BSPT   | 587 lpm | 8.4 bar /<br>1/2" | Aluminum               | Hytrel                 | Hytrel | Hytrel | DDK-50HY/<br>HY/HY | DDK-MA |
| <b>DD50PP-PP/<br/>TF/TF/PP</b>              | 2" Flange | 587 lpm | 8.4 bar /<br>1/2" | Polypropylene          | Polypropylene          | Teflon | Teflon | DDK-50TF/<br>TF/PP | DDK-MA |
| <b>DD50PP-SS/<br/>TF/TF/SS<br/>(SS 304)</b> | 2" BSPT   | 587 lpm | 8.4 bar /<br>1/2" | Stainless Steel<br>304 | Stainless Steel<br>304 | Teflon | Teflon | DDK-50TF/<br>TF/SS | DDK-MA |

# **FLOTECH** Diaphragm Pump



**1/2" Diaphragm Pump**

**P/N: DD15PP-PP/TF/TF/PP**



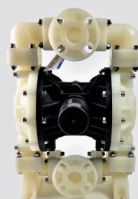
**1-1/2" Diaphragm Pump**

**P/N: DD40AL-AL/HY/HY/HY**



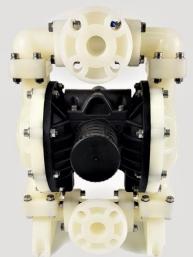
**1" Diaphragm Pump**

**P/N: DD25AL-AL/HY/HY/HY**



**1-1/2" Diaphragm Pump**

**P/N: DD40PP-PP/TF/TF/PP**



**1" Diaphragm Pump**

**P/N: DD25PP-PP/TF/TF/PP-N**



**2" Diaphragm Pump**

**P/N: DD50PP-PP/TF/TF/PP**

## Operating Temperature Limitation

| Material  | Maximum         | Minimum         |
|---|-----------------|-----------------|
| <b>Viton:</b> excellent corrosion resistance, resistance to various acids (including the median concentration of oxidizing acid, alkali, salt, petroleum products, hydrocarbons, etc.   | 350°F / 176.6°C | -40°F / -40°C   |
| <b>PTFE (Teflon):</b> excellent corrosion resistance, almost resistance to all chemical media (including concentrated nitric acid and aqua regia). Except melting of lithium, potassium, sodium, chloride trifluoride, high temperature oxygen trifluoride, sulfur-speed liquid fluorine. | 350°F / 176.6°C | 40°F / 4.4°C    |
| <b>Santoprene:</b> good abrasion resistance, chemical resistance and heat resistance, suitable for general acid and alkali, not suitable solvent. Can replace the EPDM/EPR material.  | 220°F / 104.4°C | -20°F / -28.9°C |
| <b>Hytrel:</b> good abrasive resistance, used in most of the neutral fluid. Can replace Buna-N materials.   | 220°F / 104.4°C | -20°F / -28.9°C |
| <b>EPDM:</b> abrasion resistance, aging resistance, ozone resistance, suitable for general acid and alkali.   | 250°F / 121.6°C | -40°F / 40°C    |
| <b>Buna-N:</b> widely used in gasoline and other oil products. Suitable for use at room temperature.  | 212°F / 100.0°C | -40°F / 40°C    |
| <b>GE:</b> better abrasion resistance than Hytrel. Same chemical resistance as Buna-N.  | 220°F / 104.4°C | -20°F / -28.9°C |
| <b>PP:</b> Medium abrasion resistance, good chemical resistance, good versatility especially for common acid-base.  | 150°F / 65.5°C  | 40°F / 4.4°C    |
| <b>POM:</b> good solvent resistance, abrasion resistance. Low friction, low moisture absorption.  | 150°F / 65.5°C  | 40°F / 4.4°C    |
| <b>PVDF:</b> strong chemical resistance, crush resistance, abrasion resistance, good corrosion resistance for acid, alkali and variety of organic solvents.   | 200°F / 93.3°C  | 40°F / 4.4°C    |

Note: The maximum and minimum temperature is the limited operating temperature of these materials. Temperature and pressure will affect the diaphragm life. Operating under the maximum temperature, cannot achieve maximum life.

**FLOTECH**

# Pump Model and Material

## Pump model = DD 40 PP - PP / TF / TF / PP

Double Diaphragm

Pump size:

15 = 1/2"    20 = 3/4"  
25 = 1"    40 = 1.5"  
50 = 2"    80 = 3"  
100 = 4"

Center block material:

AL = Aluminum  
PP = Polypropylene  
SS = Stainless Steel 304

Wetted body material:

AL = Aluminum  
PP = Polypropylene  
PM = POM  
KV = PVDF  
TF = Teflon  
SS = Stainless Steel 304  
LL = Stainless Steel 316  
CS = Cast Steel

Valve seat material:

TF = Teflon  
ST = Santoprene  
HY = Hytrel  
EP = EPDM  
BN = Buna-N  
GE = Geolast  
VT = Viton  
PC = PVC  
SS = Stainless Steel 304  
LL = Stainless Steel 316  
PP = Polypropylene

Valve ball material:

TF = Teflon  
ST = Santoprene  
HY = Hytrel  
EP = EPDM  
BN = Buna-N  
GE = Geolast  
VT = Viton  
PC = PVC  
SS = Stainless Steel 304  
LL = Stainless Steel 316  
CM = Ceramic

Diaphragm material:

TF = Teflon  
ST = Santoprene  
HY = Hytrel  
EP = EPDM  
BN = Buna-N  
GE = Geolast  
VT = Viton  
PU = Polyurethane