



AIR OPERATED DOUBLE DIAPHRAGM PUMP



KORAX-KDP



PLASTIC PUMP



METAL PUMP



KORAX MÉXICO

SINCE 1995 OUR KORAX HAD BEEN ONE OF THE MOST EXCELLENT SUPPLIER OF AIR-OPERATED DOUBLE-DIAPHRAGM PUMPS FOR DOMESTIC & ABROAD CLIENTS.

WE ARE DEEPLY COMMITTED TO THE PURSUIT OF EXCELLENCE, CUSTOMER SATISFACTION, RESEARCH & DEVELOPMENT AND MARKET KNOWLEDGE.

AS A PREMIERE ORGANIZATION, WE HAVE THE INFRASTRUCTURE, KNOWLEDGE BASE, AND INTELLECTUAL CAPITAL TO EXCEED CUSTOMER'S EXPECTATIONS WORLDWIDE.

OUR INTENSE EFFORTS TO DEVELOP NEW TECHNOLOGY AND LISTEN TO EVER CHANGING MARKET DYNAMICS GIVES US THE ABILITY TO SOLVE YOUR TOUGH PUMPING APPLICATIONS TODAY. OUR KNOWLEDGE BASE COMBINED WITH NEW TECHNOLOGY WILL GIVE YOU THE CONFIDENCE WHEN SELECTING A TRUSTWORTHY SOLUTION FOR YOUR PROCESS.





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EXCELLENT AIR VALVE OF KORAX

THE KORAX SERIES PNEUMATIC DIAPHRAGM PUMP IS PROVIDED WITH THE SIMPLE AND HIGHLY RELIABLE AIR REVERSING VALVE THAT MAKES THE FULL SERIES OF DIAPHRAGM PUMPS REALIZE THE MAXIMUM RELIABILITY UNDER VARIOUS SERVICE CONDITIONS.

THE REVERSING VALVE IS THE THREE-WAY PILOT VALVE THAT CAN ENSURE NO STICKY IN A REAL SENSE. ALL PARTS CAN BE REPLACED WITHOUT THE NEED OF OPENING THE LIQUID CAVITY. THE ALUMINUM PARTS HAVE BEEN SUBJECTED TO ANODIC OXIDATION TREATMENT AND COATED WITH EPOXY COATINGS TO RESIST CORROSION CAUSED BY DIRTY AIR.

- IT CAN BE USED IN CASE OF BAD AIR SUPPLY. THE SLIDE MADE OF DERLIN IN THE REVERSING VALVE IS SOLID AND DURABLE, AND NOT EASY TO BE DAMAGED.
- SMOOTH AIR CHANNEL. THE AIR CHANNELS OF PUMPS OF $\frac{1}{2}''$ -3 HAVE NO OBSTRUCTION AND IT IS ENSURED THAT THE REVERSING IS FLEXIBLE.
- IT IS THE REVERSING VALVE THAT CAN BE TOTALLY SUBJECTED TO EXTEMAL MAINTENANCE.
- COMPARED WITH OTHER DIAPHRAGM PUMPS, THE MOVING PARTS ARE VERY FEW.
- THE REVERSING VALVE DOES NOT NEED LUBRICATION.
- THE PILOT REVERSING VALVE HAS VERY HIGH MECHANICAL LIFE. THE DAY-AFTER-DAY OPERATION CAN BE ENSURED.
- ONE KIND OF REVERSING VALVE CAN BE SUITABLE FOR PUMPS OF VARIOUS SPECIFICATIONS.



KORAX PUMP ADVANTAGES

A Easy Maintenance

- Low internal volume reduces waste and makes clean-up easy
- Stainless steel bolts resist corrosion and provide positive positioning for easy reassembly

B Unique, Patented Air Valves

- Three-way Pilot Valve for non-sticking operation.
- All parts are replaceable without opening wet body parts.
- Aluminum parts are anodized or epoxy-coated to resist corrosion usually caused by dirty air
- NO air-line lubrication required.

C Precision-Fitide Parts

- Long-wearing End-Bearings assure positive rod alignment and are easily replaced.

D Protective Exhaust Port

- Common port for all exhaust prevents vapors in room from attacking air motor seals.
- Easily submerges for sump or disposal operations.

E Rugged Exterior Construction

- Construction resists corrosion, prevents leakage and ensures clean fluid changes.
- Anodizing on aluminum wetted parts and e-coat epoxy air section resists tough environments.

F Fluid Compatiblity

- Housings available in aluminum, stainless steel, polypropylene, groundable acetal or Kynar.

G Positive Seal Design

- Diaphragm firmly locked in place.
- Formed bead acts as positive fluid seal.



H Heavy-Duty Washers

- Positive grip washers virtually eliminate leakage and pull-out, preventing costly down time.

I Long-Lasting Rod Design

- KORAX series stainless steel rod designed for long life and corrosion resistance—even in wet air

J Easy Alignment

- Bolted, self-aligning air and fluid sections,

K Fluid Control Choice

- Wide range of seat and ball options ensure fluid compatibility and positive seal for maximum efficiency, long life and better suction lift.

PUMP DESIGNATION

Suction & Discharge	Size	Check Valve	Wetted Part	Diaphragm	Ball	Seat
1/4" x 1/4", NPT	KDP-02	Ball = B		Teflon PTFE = T	Teflon PTFE = T	Teflon PTFE = T
3/8" x 3/8", NPT	KDP-03	Flap = F	Polipropilene = P	NA	NA	Polipropilene = P
1/2" x 1/2", NPT	KDP-05		PVDF = K	NA	NA	PVDF = K
1" x 1", NPT	KDP-10		Alumininum = A	NA	NA	NA
1-1/2" x 1-1/2", NPT or ANSI	KDP-15		Stainless Steel 316=S	NA	Stainless Steel 316=S	Stainless Steel 316=S
2" x 2", ANSI	KDP-20			Neoprene = N	Neoprene = N	Neoprene = N
3" x 3", ANSI	KDP-30			Buna = B	Buna = B	Buna = B
				Santoprene = F	Santoprene = F	Santoprene = F
				Viton = V	Viton = V	Viton = V
				Hytrel = H	Hytrel = H	Hytrel = H

MODEL EXAMPLE

MODEL	Size	Check Valve Kind	Housing Materials, Wetted Part	Diaphragm	Ball	Seat
KDP-10BPTTT	KDP-10	B	P	T	T	T

MATERIAL TEMPERATURE LIMITATION

Viton	-40°F (-40°C) — 350°F (176.6°C)
PTFE□Teflon	40°F (4.4°C) — 350°F (176.6°C)
Santoprene	-20°F (-28.9°C) — 220°F (104.4°C)
Hytrel	-20°F (-28.9°C) — 220°F (104.4°C)
Polethylene	0°F (-17.7°C) — 140°F (60°C)
Leather	0°F (-17.7°C) — 200°F (93.3°C)
Neoprene	0°F (-17.7°C) — 212°F (100°C)
Buna—N	-40°F (40°C) — 250°F (121.6°C)
Polyumthane	-40°F (-40°C) — 200°F (93.3°C)
Fluid--cavity□	
Acetal & PP	40°F (4.4°C) □ 150°F (65.5°C)