

## Yamada Air Operated Double



### DIAPHRAGM PUMPS

These pumps are lightweight, compact and easy to use for pumping a wide range of liquids. As they are air operated they are ideal for pumping volatile or inflammable liquids in hazardous areas.

Self-priming from a dry start these pumps are ideal in situations where liquid has to be pulled from a container. The pumps can also run dry.

The robust construction reduces maintenance to a minimum.

### Model NDP-5 - 1/4" Maximum Capacity 10 L/min

#### SPECIFICATION

Pump Model		NDP-5-FPT	NDP-5-FVT	NDP-5-FAT	NDP-5-FST
Port Dimensions	Liquid Inlet	1/4" BSP	1/4" BSP	1/4" BSPT	1/4" BSPT
	Liquid Outlet	1/4" BSP	1/4" BSP	1/4" BSPT	1/4" BSPT
	Air Inlet	1/4" BSPT (with ball valve)			
	Air Exhaust	Rc 3/8"			
Discharge Volume per Cycle		20 cc			
Air Pressure Range		0.2 – 0.5 MPa		0.2 – 0.7 MPa	
Maximum Discharge Pressure		0.5 MPa		0.7 MPa	
Maximum Solid Size		Less than 0.2 mm			
Weight		1.4 Kgs	1.45 Kgs	1.5 Kgs	3.0 Kgs
Wetted Materials		Polypropylene (PPG)	Kynar® (PVDF)	Aluminium (AC4C-T6)	Stainless Steel (SCS-14)
Diaphragm Materials		PTFE	PTFE	PTFE	PTFE

### DIMENSIONS

#### Performance Curves

- Performance curves and test data are based on fresh water at ambient temperature. Discharge volume and head vary according to viscosity, specific gravity and other physical properties of the fluid/paste being pumped.
- To achieve the best diaphragm life and the most efficient air consumption, select a pump 1.5 times the required capacity.

## Model NDP-10 / DP-10 - 3/8" Maximum Capacity 20 L/min

### SPECIFICATION

		Plastic Pumps		Metal Pumps	
Port Dimensions	Liquid Inlet	3/8" BSP		3/8" BSPT	
	Liquid Outlet	3/8" BSP		3/8" BSPT	
	Air Inlet	1/4" BSPT (with ball valve)			
	Air Exhaust	Rc 3/8"			
Discharge Volume per Cycle		52 cc			
Air Pressure Range		0.2 – 0.5 MPa		0.2 – 0.7 MPa	
Maximum Discharge Pressure		0.5 MPa		0.7 MPa	
Maximum Solid Size		Less than 1.0 mm			
Weight		NDP-10-BP	3.6 Kgs	DP-10-BA	4.0 Kgs
		DP-10-BP	3.6 Kgs	DP-10-BS	6.4 Kgs
		DP-10-BTT	5.5 Kgs		

### MATERIALS OF CONSTRUCTION

Wetted Materials	Polypropylene (PPG)	Polypropylene (PPG)	Teflon (PTFE)	Aluminium (AC4C-T6)	Stainless Steel (SCS-14)
<b>Diaphragm Materials</b>					
<b>Neoprene Rubber (CR)</b>	DP-10-BPC	NDP-10-BPC	N/A	DP-10-BAC	DP-10-BSC
<b>Nitrile Rubber (NBR)</b>	DP-10-BPN	NDP-10-BPN	N/A	DP-10-BAN	DP-10-BSN
<b>Nordel® (EPDM)</b>	DP-10-BPE	NDP-10-BPE	N/A	DP-10-BAE	DP-10-BSE
<b>Santoprene® (TPO)</b>	DP-10-BPS	NDP-10-BPS	N/A	DP-10-BAS	DP-10-BSS
<b>Hytrel® (TPEE)</b>	DP-10-BPH	NDP-10-BPH	N/A	DP-10-BAH	DP-10-BSH
<b>PTFE</b>	DP-10-BPT	NDP-10-BPT	DP-10-BTT	DP-10-BAT	DP-10-BST

## Model NDP-15 - 1/2" Maximum Capacity 45 L/min

### SPECIFICATION

		Plastic Pumps		Metal Pumps	
Port Dimensions	Liquid Inlet	1/2" BSP		1/2" BSPT	
	Liquid Outlet	1/2" BSP		1/2" BSPT	
	Air Inlet	1/4" BSPT (with ball valve)			
	Air Exhaust	Rc 3/8"			
Discharge Volume per Cycle		70 cc			
Air Pressure Range		0.2 – 0.5 MPa		0.2 – 0.7 MPa	
Maximum Discharge Pressure		0.5 MPa		0.7 MPa	
Maximum Solid Size		Less than 1.0 mm			
Weight		NDP-15-FP	3.6 Kgs	NDP-15-BA	4.0 Kgs
		NDP-15-FV	3.8 Kgs	NDP-15-BS	6.5 Kgs

### MATERIALS OF CONSTRUCTION

Wetted Materials	Polypropylene (PPG)	Kynar® (PVDF)	Aluminium (AC4C-T6)	Stainless Steel (SCS-14)
<b>Diaphragm Materials</b>				
<b>Neoprene Rubber (CR)</b>	NDP-15-FPC	N/A	NDP-15-BAC	NDP-15-BSC
<b>Nitrile Rubber (NBR)</b>	NDP-15-FPN	N/A	NDP-15-BAN	NDP-15-BSN
<b>Nordel® (EPDM)</b>	NDP-15-FPE	N/A	N/A	N/A
<b>Santoprene® (TPO)</b>	NDP-15-FPS	N/A	NDP-15-BAS	NDP-15-BSS
<b>Hytrel® (TPEE)</b>	NDP-15-FPH	N/A	NDP-15-BAH	NDP-15-BSH
<b>PTFE</b>	NDP-15-FPT	NDP-15-FVT	NDP-15-BAT	NDP-15-BST

#### Notes:

Material of ball for Hytrel diaphragm pumps are Nitrile® rubber (NBR)

Material of ball for Santoprene Diaphragm pumps is Nordel® rubber (EPDM)

Every effort has been made during the preparation of this document to ensure the accuracy of statements and specifications. However, we do not accept liability for damage, injury, loss or expense caused by errors or omissions made. We reserve the right to withdraw or amend products or documentation without notice.

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