

NDP-50Series

Port size 2" (50mm) maximum discharge volume of 600L/min
This is currently the largest pump available in the yamada range
It is a high performance process pump and is popular in many industries for transferring high volume fluids. It has many features and is available in a large range of materials.

Specifications

Nominal port size		2" (50A)	Air supply pressure range	0.2 ~ 0.7MPa	Weight	NDP-50BA□ : 37kg NDP-50BS□ : 60kg NDP-50BF□ : 65kg NDP-50BP□ : 35kg
Connection to liquid	Inlet	Flange JIS 10K 50A or equivalent *	Maximum discharge pressure	0.7MPa		
	Outlet	Flange JIS 10K 50A or equivalent *	Discharge volume/cycle	Rubber diaphragm type: 4.3L		
Air connection	Inlet	Rc 3/4 (with an air cock)		Fluorocarbon resin diaphragm type: 2.1L		
	Exhaust	Rc 1 (Equipped with a muffler)	Limit of slurry	8mm or less		

* Cast iron (FC250) NDP-50BF□ series products are connected to material lines with screw flanges the port size is Rc 2".



NDP-50BA□



NDP-50BS□



NDP-50BF□



NDP-50BP□

Material of the main body (wetted part)	Material of a diaphragm						
	C : Neoprene (CR)	N: Nitrile(BUNA)Rubber(NBR)	E : Nordel(EPDM)	V : Viton(FKM)	T : Teflon(PTFE)	H : Hytrel(TPEE)	S : Santoprene(TPO)
A : Aluminum alloy (ADC12/AC4C-T6)	NDP-50BAC § (852661)	NDP-50BAN § (852329)	NDP-50BAE (852662)	NDP-50BAV (852313)	NDP-50BAT § (852331)	NDP-50BAH § (852330)	NDP-50BAS (852713)
S : Stainless steel (SCS14)	NDP-50BSC § (852663)	NDP-50BSN § (852332)	NDP-50BSE (852664)	NDP-50BSV (852314)	NDP-50BST § (852334)	NDP-50BSH § (852333)	NDP-50BSS (852714)
F : Cast iron (FC250)	NDP-50BFC (852834)	NDP-50BFN (852830)	NDP-50BFE (852835)	NDP-50BFV (852833)	NDP-50BFT (852832)	NDP-50BFH (852831)	NDP-50BFS (852836)
P : Polypropylene (PPG)	NDP-50BPC § (852665)	NDP-50BPN (852335)	NDP-50BPE § (852666)	NDP-50BPV (852315)	NDP-50BPT § (852337)	NDP-50BPH (852336)	NDP-50BPS (852715)

§ : Standard stock model

Material of main parts

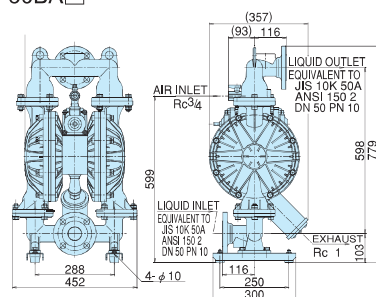
Model name	NDP-50BA□	NDP-50BS□	NDP-50BF□	NDP-50BP□
Ball valve	NDP-50B□H□…NBR NDP-50B□S□…EPDM Other …Same material as that of a diaphragm			
Valve seat	NDP-50BAT□…A5056 Other …Same material as that of a diaphragm	NDP-50BST□…SUS316 Other …Same material as that of a diaphragm	NDP-50BFT□…SUS316 Other …Same material as that of a diaphragm	PP
Valve guide	All models: All-in-one type whose material is the same as that of the main body			
Center disk	A5056	SUS316	PPG(SCS13)	

* SCS13 is insert material:

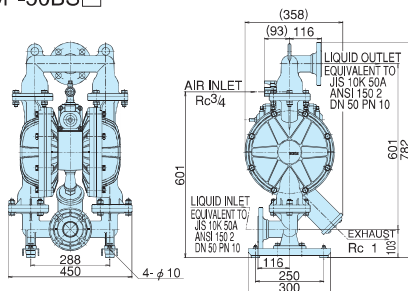
★ Initial self-suction lift is:

NDP-50B□ T: 3 m Other NDP-50B□□ pumps: 5 m

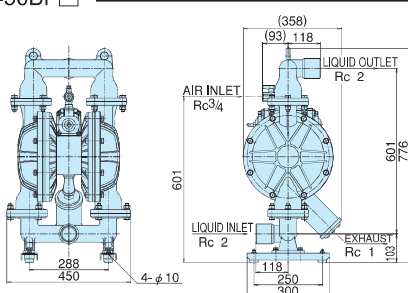
NDP-50BA□



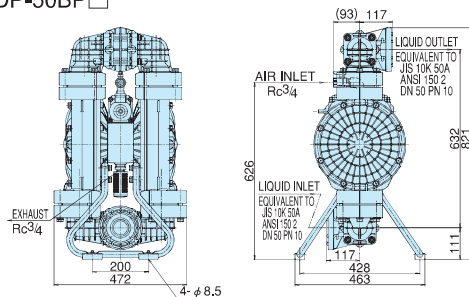
NDP-50BS□



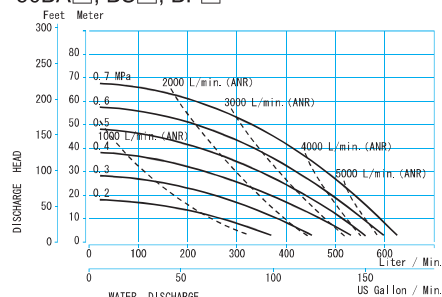
NDP-50BF□



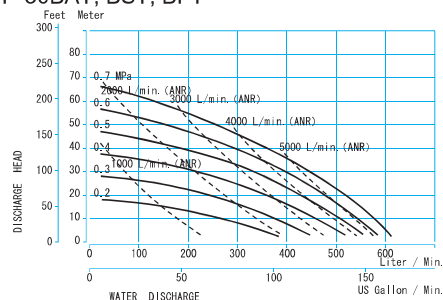
NDP-50BP□



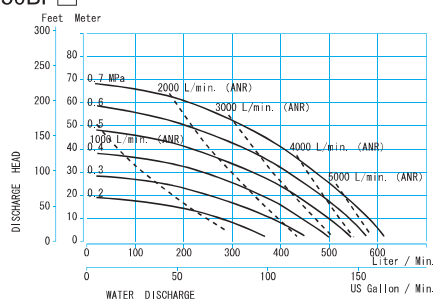
NDP-50BA□, BS□, BF□



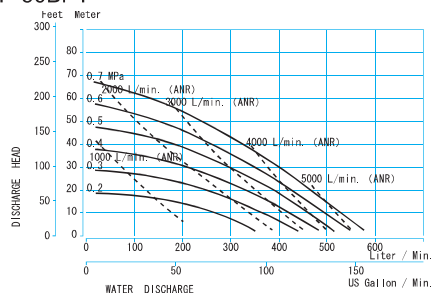
NDP-50BAT, BST, BFT



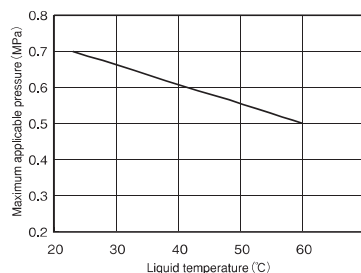
NDP-50BP□



NDP-50BPT



Liquid temperature-pressure correlation chart



The maximum applicable pressure for the body wetting part of a resin type (BP□) depends on the liquid temperature. Be sure to check the chart showing the relation between the liquid temperature and maximum applicable pressure.



The performance curve was measured using the method and conditions shown on page 6. Also when the pumps performance was measured, a suction pipe wasn't connected to the inlet port. If a 1.5-meter long pipe, with a diameter the same as the inlet port were to be used, the flow rate would be reduced by approximately 50%.