

## INDO-FORCE PUMP

# SELF-PRIMING NON-CLOG

# **DEWATERING PUMP**



**DEWATERING COUPLED PUMP** 



**DEWATERING MONOBLOCK PUMP** 



**DEWATERING BARE SAFT PUMP** 



### SELF PRIMING NON CLOG DEWATERING PUMPS



### **Features**

- · Self priming pump-priming required during installation only
- Self priming upto 8.0 meters at means sea level for ifd series & upto 6.0 meters.
- · Construction: Bare Pump/Monoset/Monocoupled
- · Shaft sealing gland packing mechanical seal
- · Totally enclosed fn cooled motor suitable for wide volatage
- Non-clog type impeller suitable to handle liquid with solid particle & mixtures
- · Easy maintanance with interchangable parts

### **Applications**

### Industrial

- · Effluent Treatment Plants
- Transfer of Petroleum products, Chemicals, Treated / Raw water
- · Ash water in Thermal Power Plants
- · Waste liquid in Tiles & Marble factories

### Domestic

- · Civil construction sites
- · Swimming pool filtration
- · Dewatering of basement water & trenches

#### Marine

· Pumping water from docks, ports, vessels

### Agriculture

Dewatering

### **Standard Specifications**

· Motor Class of Insulation

Power Range : 0.37 to 7.5 KW (1.0 to 10 HP)
 Supply : 225 Volts, 1 phase, 50 Hz AC supply

: 'B' class

: 415Volts, 3 phase, 50 Hz AC supply

Suc. X Del. Size
 g 25 x 25 mm to g100 x 100 mm
 Speed
 1500 / 3000 RPM

Total Head
Capacity
Solid Handling Capacity
Up to 2000 LPM
Operating Temperature
Up to 20 mm
Up to 65 C
Motor- Degree of Protection
IP 54

### Material of Construction for Dewatering Pumps IFD Series

S. No.	PART	MATERIAL
1	Impeller (Semi open type)	Graded Cast Iron
2	Delivery Casing	Graded Cast Iron
3	Wear Plate	Graded Cast Iron
4	Shaft	Carbon Steel
5	Shaft Sleeve	SS 410

### Material of Construction for Self Priming Monoset Pumps IFD Series

S. No.	PART	MATERIAL
1	Impeller (Non-Clog type)	Bronze
2	Casing	Graded Cast Iron
3	Wear plate	Stainless Steel
4	Delivery Bend	Graded Cast Iron
5	Shaft	Carbon Steel
6	Shaft Sealing	Mechanical seal fitted
7	Integrated Non Return Valve	Nitrile Rubber with M.S. plate
8	Bracket	Graded Cast Iron
9	Base Frame	M.S. Fabricated

### SELF PRIMING NON CLOG DEWATERING PUMPS



### WATER RATING CHART

PER	FO	RM.	ANCE (	CHART	- DEW	ATF	RIN	IG I	MON	IOF	SLO	CK	& N	ОТ	OR	CO	JPI	FD	PU	MP!	S
				SOLID		TOTAL HEAD IN MTR															
MODEL KW HP	RPM	HANDLING SIZE (mm)	PUMP	3	6	9	12	13	15	16	18	19	20	23	25	26	28	30	33		
				SIZE (IIIIII)	6.20 KM	DISCHARGE LTR. PER MINUTE															
IFD 1/2	0.37	0.5	2800	5.5	25X25	115	90	78													
IFD 1.0	0.75	1.0	2800	7.0	40X40			264	235	205	150										
IFD 2.0	1.5	2.0	2800	8.5	50X50		380		360	324		290	175		110			_			
	0.0	0.0	0000	44.0	507/20																
IFD 3.0	2.2	3.0	2800	11.0	50X50			500		480	465	450	405		390		360				c
IFD 5.0	3.7	5.0	2800	8.0	80X80								575	510	485	450	420	375	330	290	255
11 12 3.0	0.1	0.0	2000	0.0	00/100								010	010	700	400	420	010	000	200	200
IFD 7.5	5.5	7.5	2800	15.0	80X80								900	850	835	810		720	705	635	450
1.57.5	0.0	7.0	2000	10.0	007100							-	300	500	000	0.10		, 20	100	500	100
IFD 5.0	3.7	5.0	1440	16.5	80X80		1110		1035		900		810		750						
IFD 10.0	7.5	10.0	1440	19.0	100X100							1960		1770		1610		1460		1250	

### CAPACITY DATA SUBJECT TO 10% VARIATION

### Note:

Performance figure provided above are approximate for water at ambient temperature, may very with liquid & site conditions. Pipe sizes mentioned in mm are nearest conversion of inches but actual pipe threadings are provided as per 'BSP' Standards.



**DEWATERING MONOBLOCK PUMP** 



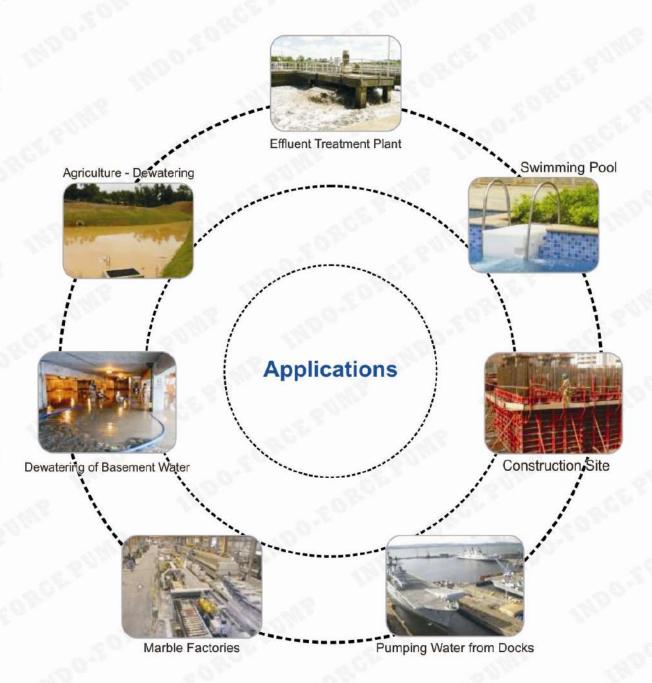
**DEWATERING COUPLED PUMP** 



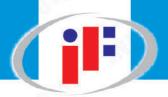
**DEWATERING BARE SAFT PUMP** 

### **SELF PRIMING NON CLOG DEWATERING PUMPS**





# Mfg. By: Real Industries Ahmedabad (Guj.)



# INDO-FORCE PUMP





### SUBMERSIBLE DEWATERING PUMPS

### Features

- · The Pumps are portable and self priming.
- · Fitted with Electric Motors in Monoblock Design.
- · Sealed with double mechanical seal.
- Ideal for pumping contaminated liquids with fine solids, sands or such other liquids.
- · Non clogging designs.
- · Heavy duty bearing. Built in in overload protection.
- . Supplied with 5 mtr. (+ 1 Mtr.) cable as standard.

### Applications

- Drainage of sewage from the building basements, hotel, industry, waste water from factories.
- · Drainage of sewage from industrial process factories.
- Emptying for septic tanks, cesspits and sewage pump stations.
- Pumping surface and drainage water from garages and sprinkler systems.
- · Swimining Pool Filtration.

### Standard Specifications : Motor

Power Range : 1.0 HP to 5.0 HP

Supply
 225 Volts, 1 phase, 50 Hz AC supply

: 415Volts, 3 phase, 50 Hz AC supply

Speed : 2800 RPM
Insulation : "B" Class
Motor Degree of Protection : Ip-54

Operating Conditions : - Liquid Temperature up to 40°

- Ambient temperature up to 50°

- Max. Starts per Hour 30 at

Regular Intervals

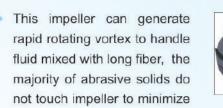
- Continuous Duty.

- Max Depth 18.5 M



### Types of Impeller

 Semi -open impeller Cutting foreign particles and preventing clog by solid media







### Float Switch

impeller wear.

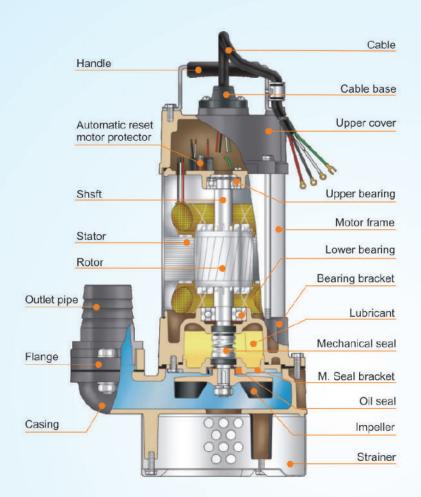
 Excellent quality flot switch provides with epoxy resin sealed connector.



# Material of Construction

S. No.	PART	MATERIAL
1	Impeller (Semi open type)	Grey Iron / Stainless Steel
2	Mech. Seal	Double Mech. Seal
		Motor Side - Carbon v/s Ceramic
		Pump Side - Silicon Carbide v/s Silicon Carbide
3	Delivery Casting	Grey Iron
4	Shaft	Carbon Stel
5	Upper Cover	Grey Iron
6	Bearing	Ball Type Bearing



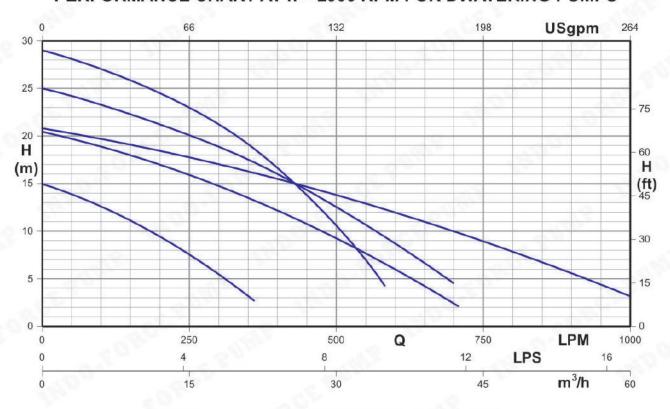


	<b>3</b>				PERF	ORM	ANCE	DAT	A AT ı	n = 29	00 RF	M				
Model	Del. Size	Size of Solid		W 2			Motor	Weight	Dimension							
IFSD	mm	mm	4.0	7.5	10.0	12.5	15.0	17.5	20.0	22.5	25.0	30.0	40.0	HP/kW	Kgs. (Approx)	W x H in mm
1.0	50	8	300	220	150	70								1/0.75	16	210x470
2.0	65	8	550	400	375	300	135							2/1.5	32	260x600
3.0	80	8	875	700	600	500	300							3/2.2	48	260x600
5.0	80	12	1300	1100	1000	850	650	450	225					5/3.7	50	450x680

Capacity Date Subject to 10% Variation



### PERFORMANCE CHART AT n = 2900 RPM FOR DWATERING PUMPS



### **Our Other Product**



DEWATERING MONOBLOCK PUMP



**DEWATERING COUPLED PUMP** 

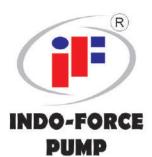


**DEWATERING BARE SAFT PUMP** 





MFG. BY: REAL INDUSTRIES
AHMEDABAD (Guj.)



Series: IFG

# **Perfect Solution**

for Transfer of Oil, Viscous & Semi Viscous Liquid



ROTALY GEAL PUMISS

REAL INDUSTRIES
AHMEDABAD



" Quality...Service...Satisfaction...



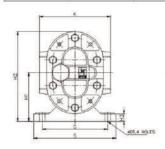


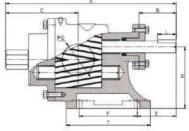


Real Industries offers most efficient and economic range of Positive Displacement Rotary Gear Pumps under the brand name "INDOFORCE" having special features like simple & compact design, low noise, high efficiency, easy to maintain, reliable and low cost. "INDOFORCE" Rotary Gear Pumps are ideal for Chemical, Petrochemical, Foor, Oil, Steel Refining, Paints, Dairy Sugar & Pharmaceutical Industries etc. The Pump are useful for handling viscous liquids i.e. all kinds of oils, viscous chemicals & food applications etc.

### **MODEL & PERFORMANCE CHART**

PUMP MODEL	SUCTION &		APACIT 1440RI		RECOMMENDED MOTOR BHP AT DIFFERENTIAL PRESSURE (KG/CM2) WITH 1500 SSU VISCOSITY											
	DELIVERY	LPM	US GPM	M3/hr	Kg/m2	1	2	3	4	5	6	7	8	9	10	BARE PUMP IN KG.
IFG - 0.5	1/2" 1/2"	25	5.3	1.2	KW HP	0.30	0.35 0.5	0.42	0.45	0.50	0.55 75	0.60	0.65	0.70	0.75	2.2
IFG - 1.0	1" 1"	50	13.2	3.0	KW HP	0.4	0.50 1.0	0.60	0.70	0.89   1.04   1.		1.17	1.30	1.46 2.0	1.59	5.0
IFG - 1.5	1 <sup>1/2</sup> 1 <sup>1/2</sup>	110	29.0	6.6	KW HP	1.0	1.45 2.0	1.95	2.10	2.40	2.65	2.95	3.25	3.60 5.0	3.75	9.5
IFG - 2.0	2" 2"	225	59.4	13.5	KW HP	2.0	2.0 3.0	3.2	3.75	4.3	4.55 i.0	5.6	4.3	6.9 7.5	7.11	17.2
IFG - 2.5	2''' 2 1/2"	350	92.5	21.0	KW HP	4.15	5.0 5.0	6.1	7.3	8.2	9.1 0.0	10.3	11.2	12.1 12.5	12.25	28.5
IFG - 3.0	3" 3"	500	132.0	30.0	KW HP	4.5	6.6 10	8.4	9.9	11.1	12.1 5	13.0	13.9	14.9 20	15.9	50.0







### MATERIAL OF CONSTRUCTION STADARD PARTS

Body : IS.210 FG 220 C.I. Grade Back Cover : IS.210 FG 220 C.I. Grade Geras : EN - 8 EN - 24 H. Nitrided

Shaft : EN - 19 H.G. Bushes : Non Ferrous

Seal : Neoprene Oil seal / "Z" Pack Teflon

Pressure relief valve will be provided in all models.

### **DIMENSIONAL DRAWING DETAILS**

MODEL	Α	В	C	E	F	G	S	T	Н	H1	H2	H3	L	M	N	DQ	DQ	K	PQ
IFG - 0.5	172	46	78	51	40	70	90	70	63	50	90	6	22	4	13.5	12	8	70	1/2" B.SP
IFG - 1.0	236	64	105	64.5	50	93	125	95	90	73	128	8	27.5	5	19.5	17	10	86	1" B.SP.
IFG - 1.5	240	75	120	80	70	115	150	130	110	88	155	12	35	6	24.5	22	12	108	1 1/2" B.SF
IFG - 2.0	360	98	140	92	100	140	180	160	132	105	192	15	40	8	28	25	15	142	2" B.SP.
IFG - 2.5	420	110	175	110	120	155	200	185	145	114	215	18	45	8	31	28	15	160	21/2" B.SP
IFG - 3.0	457	100	195	105	155	175	220	225	165	130.5	241	20	50	10	35	30	15	190	3" B.SP.

\* All dimensions are in millimters. Unless otherwise stated, specificationare subject to change without prior notice as improvements are made from time to time.

CONVERSION FORMULA: 1 Imperial ga

1 Imperial gallon = 4.5 Litres 1 Kg./Cm2 = 14.2 psi 1 U.S. Gallon = 3.785 Litres 1 Metre = 3.281 Feet 1 p.s.i = 2.31 Feet 1 H.P. = 0.75 KW

### **REAL INDUSTRIES**

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