



dharani[®] PUMPS

BARRO - Sewage, Sludge & Submersible Dewatering Pumps



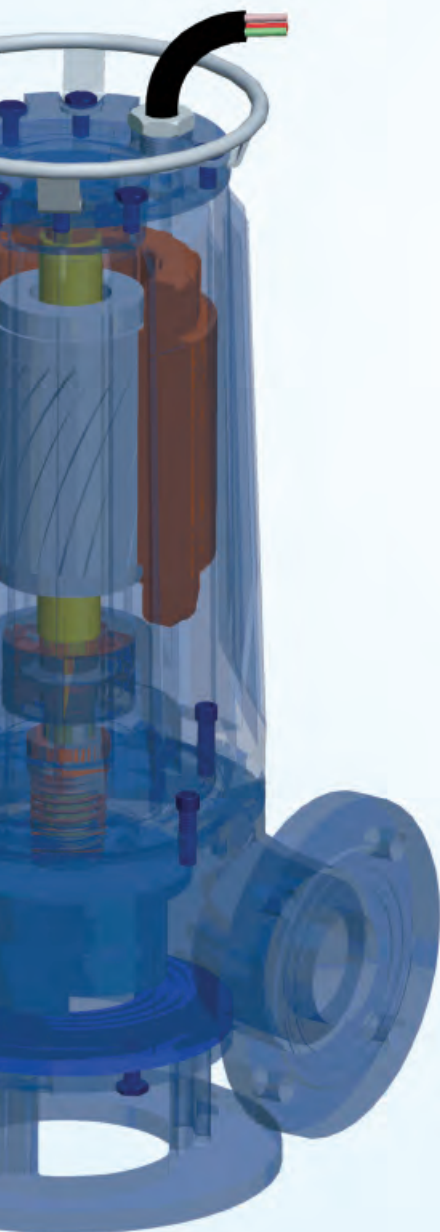
PERFECT ENGINEERS
THE PERFECT PUMP

Technology redefined

BARRO range of Submersible Sewage and Sludge Pumps are designed to perform impeccably in the worst of conditions.

Keeping in mind the causes of blockage and in-field behaviour, we have developed our products with the combination of improved reliability, greater energy saving and the highest level of blockage resistance. The future proof design of Barro range was created to suit various applications in the waste water industry by delivering the best in reliability.

"When it comes to waste water, we look at the complete picture in order to offer the best to our customers"



Global Approach



Reduced wastage



Controlled CO₂ emission

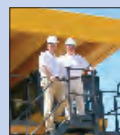


Climate Change



Urban Development

Business Vision



Reduced cost of operation



Lesser energy costs

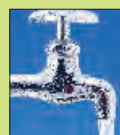


Superior Service Levels

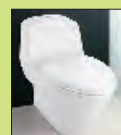


Overall Structure

Social Responsibility



Water Consumption



Hygiene



Environmental protection



Sustainability

Hydraulic Efficiency

BARRO range was designed to work phenomenally by giving high hydraulic efficiency, maximum blockage resistance and free passage of solids. We simply offer the best hydraulic efficiencies in the market without compromising on solid handling and performance. Using state-of-the-art designing systems and knowledge, our engineers have created a range of pumps which is spoken highly by major industry legends.

Impeller Design

The optimum functionality and uninterrupted operation of the pump depends on an innovative Impeller design. The concept of creating the right impeller for a pump has been one of our key hydraulic strengths. Be it our Double Channel Impeller or Open Cutter Impeller or Vortex Impeller, they are designed to perform effectively without any blockage and thus offering superior hydraulic efficiency.



Vortex



Double Channel



Single Channel Cutter



Grinder

Future Proof Design

When it comes to performance of the product, our engineers have put together years of experience in designing pumps by considering the ever changing needs of the industry. The cooling of the motor plays a major role in the performance and long term operation of the pump. Our future proof design ensures optimum functionality.

Long Term Dependability

Our commitment to customers is to offer pumps with greater performance and minimal maintenance. Every angle has been considered whilst creating the product range to suit various applications. When a product is selected properly based on the right application and operating conditions, it is literally null of any failure.

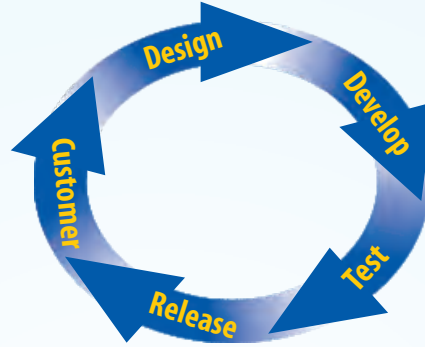
Energy Saving

It is not long before energy saving was prominent among every industry. Today energy saving means responsibility and our commitment towards reduced energy costs and lesser CO₂ footprint. Barro range of submersible sewage and sludge pumps offer maximum energy saving and comply to most EU and US efficiency standards. All our products are designed to achieve total efficiency of the pump.



Product Lifecycle

BARRO range is considered as premium efficiency pumps in the market. The features include long term reliability and lower maintenance and yet operates trouble free for a longer period of time. After all it is our responsibility to offer the best to our customers.



Municipal waste water



Sewage tanks



Flooded basements



Mines



Construction sites



Sewage Treatment Plants



Industrial waste



Sedimentation tanks

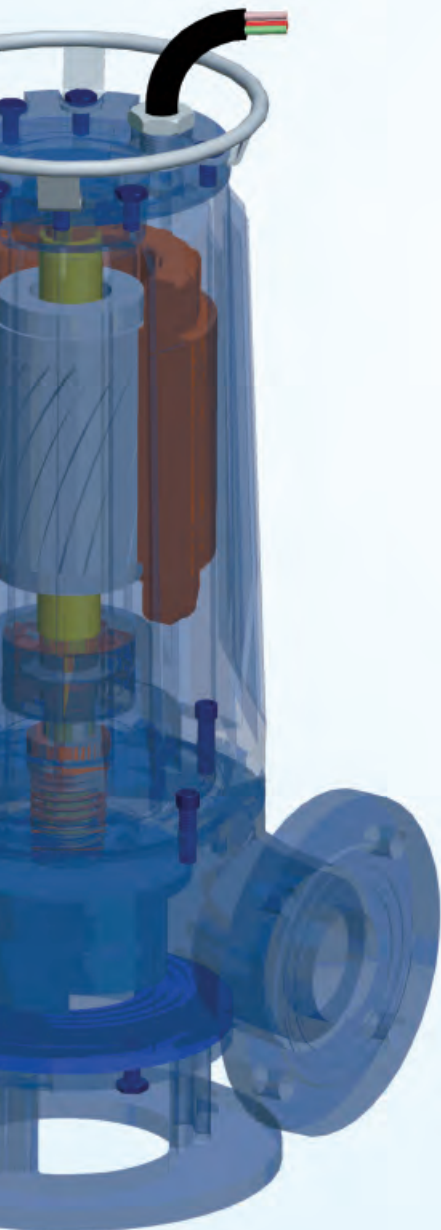


The Perfect Choice

BARRO range of Submersible Sewage, Sludge & De-watering Pumps offers you the complete solution for your pumping needs. Every single pump is manufactured as per the quality plan under stringent control to ensure optimum quality of the end product. CNC machining of the components contribute to the performance accuracy and ease of assembly. Our commitment is to achieve the highest sustainability in both manufacturing and operation.

Ideal Balance

We understand the needs of the market and have created a wide range of pumps to suit a variety of applications. The synergy of our product is to perform in the field with ideal balance and we look at this with utmost care and vision.



BARRO - Range

- ABS Plastic Sewage and Drainage Pumps
- Drainage Pit Pumps
- Full Stainless Steel Sewage and Grinder Pumps
- Cast Iron Sewage & Sludge and Grinder Pumps

BARRO range has many built-in features which make them the best submersible sewage pumps.

ABS Plastic Sewage & Drainage Pumps **BARRO**

Characteristics

- Tough ABS construction
- Wear-resistant shaft and impeller
- Excellent cooling of the motor enables the pump to operate even when it is partially submerged
- Automatic operation with start/stop float switch and manual operation
- Supplied with power plug and self-seal fitting
- Protection IP 68



Material of Construction

Part Name	Material
Motor Housing	ABS Plastic
Pump Adaptor	ABS Plastic
Impeller	Double Channel / Vortex
Shaft	SS410
Mechanical Seal	Silicon Carbide Vs. Carbide Alloy

Performance

Single Phase, 3000RPM (Syn.), 50 Hz, 220-240V, Capacitor start and run motor

S.No.	Model	Pipe Size (inches)	Power		Total Head in Meters						Max. soft soluble solid passage size (mm)
			kW	HP	5	6	7	8	9	10	
					Discharge (m³/h)						
1	DSP 30 - 0.50	1½"	0.37	0.50	9	8	7	5	3		30
2	DSP 38 - 1.00	1½"	0.75	1.00		11	10	8	6	4	38

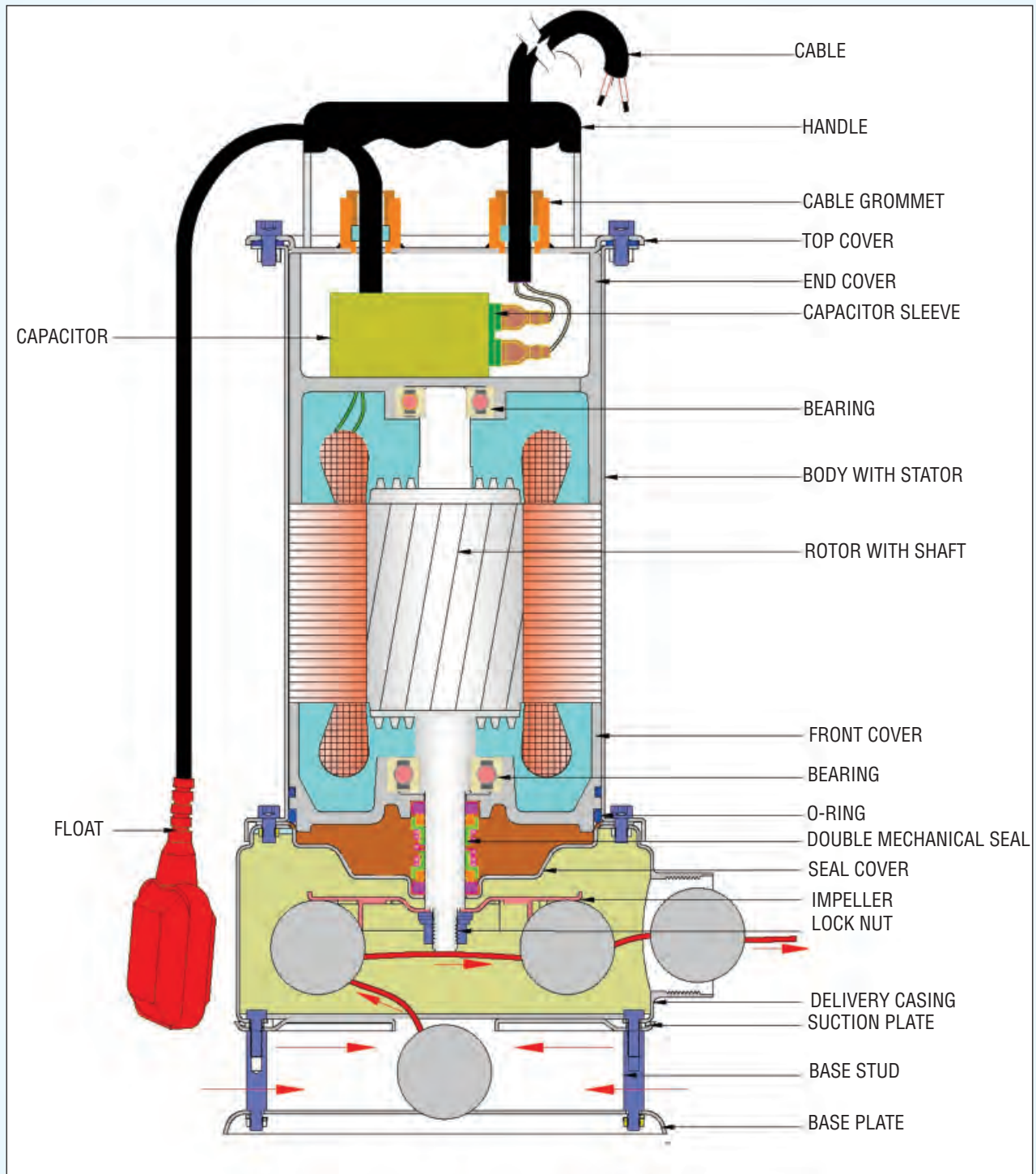
Areas of Usage

- Households (Small homes, Cottages, Large houses)
- Hotels, Restaurants & Commercial Buildings etc.
- Sump & Drainage

Applications

- Light Sewage Systems
- De-watering & Effluent
- Dirty Water Transfer
- Light Industrial

DSPS - Stainless Steel Sewage Pumps



DSPS & DDWS Series Stainless Steel Sewage & Dewatering Pumps

BARRO

Characteristics

- 100% Stainless Steel construction
- Wear-resistant shaft and impeller
- Excellent cooling of the motor enables the pump to operate even when it is partially submerged
- Automatic operation with start/stop float switch and manual operation
- Double mechanical seal
- Protection IP 68

Material of Construction

Part Name	Material
Motor Housing	SS 304
Pump Casing	SS 304
Impeller	SS 304 - Vortex
Shaft	SS 304
Mechanical Seal	Carbon Vs. Ceramic Silicon Carbide Vs. Silicon Carbide



Performance

Single Phase, 3000 RPM (Syn.), 50 Hz, 220-240 V, Capacitor start and run motor, 0.5 HP to 2.0 HP

Three Phase, 3000 RPM (Syn.), 50 Hz, 415 V, 2.0 HP to 3.0 HP

S.No.	Model	Pipe Size (inches)	Power		Total Head in Meters										Max. soft soluble solid passage size (mm)
			kW	HP	2	3	4	5	6	7	8	10	12	14	
					Discharge (m³/h)										
1	DSPS 40 - 0.5	1½"	0.37	0.5	18	15	12	9	6	3					40
2	DSPS 40 - 1.0	1½"	0.75	1.0	20	17.5	15	12	10	9	8	7			40
3	DSPS 40 -1.5	1½"	1.10	1.5			25	23	21	19	16	10	3		40
4	DSPS 50 - 2.0	2"	1.50	2.0	38	35	32	29	26	23	20	14	4		50
5	DSPS 50 - 3.0	3"	2.20	3.0	62	58	54	50	46	42	37	28	19	6	50

Areas of Usage

- Households (Small homes, Cottages, large homes)
- Hotels, Restaurants & Commercial buildings etc.
- Sump & Drainage

Applications

- Light / Medium Duty Sewage Systems
- De-watering & Effluent
- Dirty water transfer
- Light industrial

THE PERFECT PUMP

DSPSG Series Stainless Steel Grinder Pumps

BARRO

Characteristics

- 100% Stainless Steel construction
- Wear-resistant shaft and impeller
- Capable of grinding soft particles and long fibers
- Automatic operation with start/stop float switch and manual operation
- Double mechanical seal
- Protection IP 68

Material of Construction

Part Name	Material
O-Ring	Buna-N
Motor Housing	SS 304
Pump Casing	SS 304
Impeller	SS 304 - Vortex
Shredding Ring	Cast Steel
Grinding Ring	Cast Steel
Shaft	SS 304
Mechanical Seal	Carbon Vs. Silicon Carbide Silicon Carbide Vs. Silicon Carbide



Performance

Single Phase, 3000 RPM (Syn.), 50 Hz, 220-240 V, Capacitor start and run motor, 0.5 to 2.0 HP

Three Phase, 3000 RPM (Syn.), 50 Hz, 415 V, 3.0 HP

S.No.	Model	Pipe Size (inches) BSP	Power		Total Head in Meters								
			kW	HP	3	6	9	12	15	18	21	24	27
					Discharge (m³/h)								
1	DSPSG 1.0	1½"	0.75	1	7	6	5	3	2				
2	DSPSG 1.5	1½"	1.10	1.5	9	8	6	5	4	2			
3	DSPSG 2.0	2"	1.5	2	11	10	9	7	6	5	4		
4	DSPSG 3.0	3"	2.2	3	12	11	10	9	8	7	6	5	4

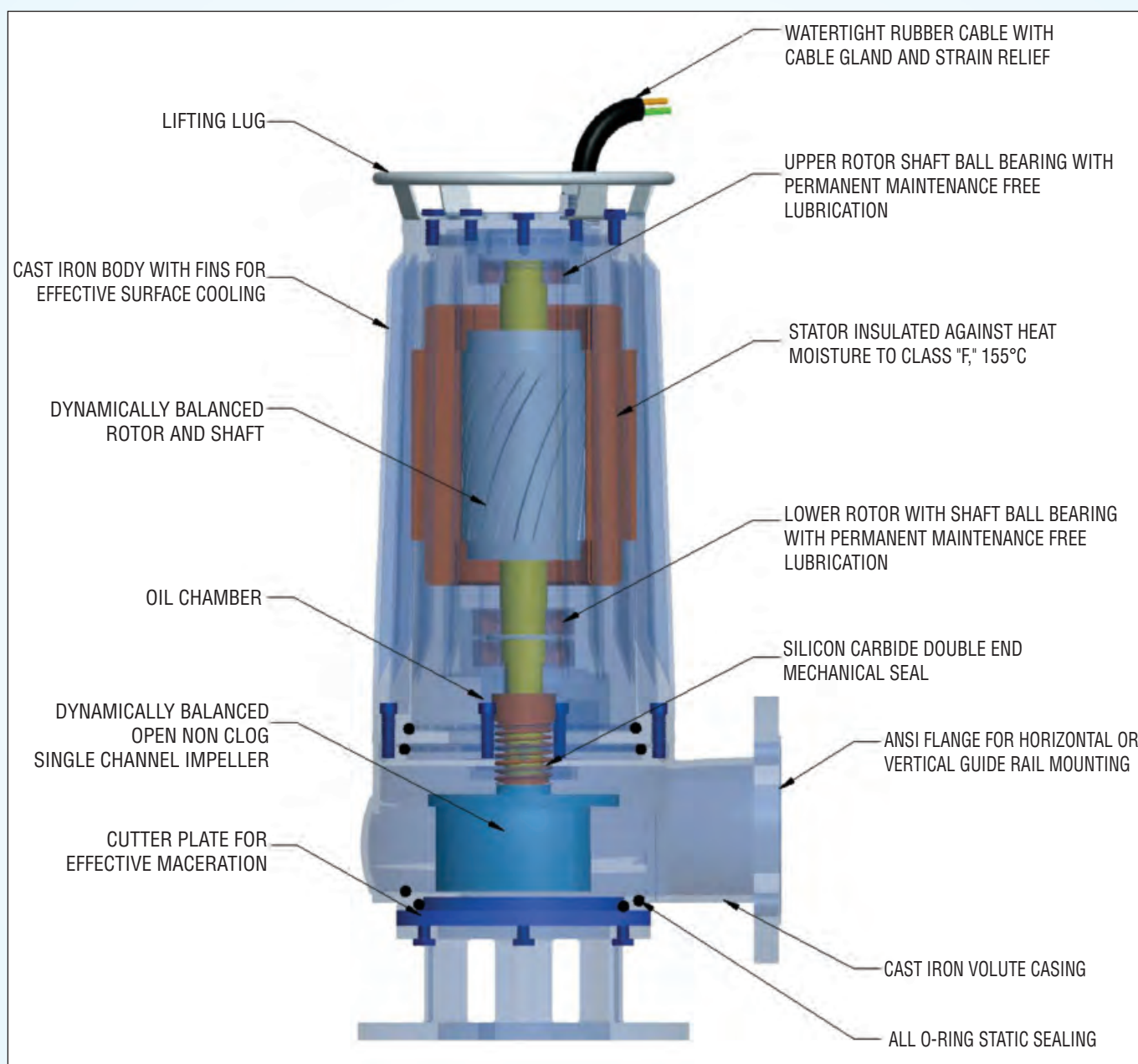
Areas of Usage

- Hotels & Restaurants
- Hostels & Hospitals
- Industries

Applications

- Light / Medium Duty Sewage Systems
- Medical Waste disposal
- Industrial Waste disposal

DSP, DSPC - Sewage & Sludge Pumps



DSP & DSPC Series Cast Iron Sewage & Sludge Pumps

BARRO

Characteristics

- Anti corrosive and rust proof material
- Wear-resistant shaft and impeller
- Excellent cooling of the motor enables the pump to operate even when it is partially submerged
- Double mechanical seal
- Protection IP 68

Material of Construction

Part Name	Material
Motor Housing	Cast Iron
Pump Casing	Cast Iron
Impeller	Double Channel, Single Channel Cutter
Shaft	SS 410
Mechanical Seal	Carbon Vs. Ceramic Silicon Carbide Vs. Carbide Alloy

Performance

Three Phase, 3000 RPM (Syn.), 50Hz, 415V

S.No.	Model	Pipe Size (inches)	Power		Total Head in Meters																Max. soft soluble solid passage size (mm)
			kW	HP	3	6	9	12	15	18	21	24	27	30	33	36	39	42			
					Discharge (m³/h)																
1	DSP 40-1.5	2"	1.1	1.5		21	18	14	10	2									40		
2	DSP 40-2.0	2½"	1.5	2.0			30	24	18	4									40		
3	DSP 40-3.0	2½"	2.2	3.0		30	27	24	21	17	12	6							40		
4	DSP 50-5.0	3"	3.7	5.0		40	37	34	30	27	20	14	3						50		
5	DSP 50-7.5	3"	5.5	7.5		42	40	39	37	36	35	33	30	24	18	12			50		
6	DSP 50-10.0	4"	7.5	10.0		127	116	105	94	80	63	38	10						50		
7	DSP 35 - 15.0	4"	11.0	15.0	214	200	188	155	123	137	115	85	47						35		
8	DSP 50 - 15.0	8"	11.0	15.0	390	320	250	95											50		
9	DSP 35 - 20.0	4"	15.0	20.0	220	215	204	195	185	170	155	145	125	95	50	15			35		
10	DSP 50 - 20.0	8"	15.0	20.0	390	360	300	225	110										50		
11	DSP 35 - 25.0	4"	18.5	25.0		287	269	251	236	219	200	180	160	130	95	50			35		
12	DSP 50 - 25.0	8"	18.5	25.0	430	400	350	300	230	120	50								50		
13	DSP 35 - 30.0	4"	22.0	30.0		390	370	340	315	285	260	230	210	185	160	135	110	70	35		
14	DSP 50 - 30.0	8"	22.0	30.0	470	460	445	410	350	300	200	80	25						50		

Cutter Series

S.No.	Model	Pipe Size (inches)	Power		Total Head in Meters																Max. soft soluble solid passage size (mm)
			kW	HP	2	4	8	12	16	20	24	28	30	33	36	39	42				
					Discharge (m³/h)																
1	DSPC 40-1.0	2"	0.75	1.0	26	24	13											40			
2	DSPC 40-1.5	2"	1.1	1.5	30	26	18	9										40			
3	DSPC 40-2.0	2½"	1.5	2.0	40	36	26	17										40			
4	DSPC 40-3.0	2½"	2.2	3.0	54	49	38	26	10									40			
5	DSPC 50-5.0	3"	3.7	5.0	91	83	72	55	38	22								50			
6	DSPC 50-7.5	4"	5.5	7.5	108	101	87	72	58	38	17							50			
7	DSPC 35-10.0	2½"	7.5	10.0							60	57	51	43	33	24	15	35			
8	DSPC 50-10.0	4"	7.5	10.0	137	130	116	101	86	70	50	26	16					50			



DSPG Series

Cast Iron Grinder Pumps

BARRO

Characteristics

- 100% Cast Iron
- Wear-resistant shaft and impeller
- Capable of grinding soft particles and long fibers
- Automatic operation with start/stop float switch and manual operation
- Double mechanical seal
- Protection IP 68

Material of Construction

Part Name	Material
O-Ring	Buna-N
Motor Housing	Cast Iron
Pump Casing	Cast Iron
Impeller	Cast Iron - Vortex
Shredding Ring	Cast Steel
Grinding Ring	Cast Steel
Shaft	SS 304
Mechanical Seal	Carbon Vs. Silicon Carbide Silicon Carbide Vs. Silicon Carbide



Performance

Three Phase, 3000 RPM (Syn.), 50 Hz, 415 V

S.No.	Model	Pipe Size (inches) BSP	Power		Total Head in Meters					
			kW	HP	4	8	12	16	20	22
					Discharge (m³/h)					
1	DSPG 1.00	2"	0.75	1.00	20	17	11			
2	DSPG 1.50	2"	1.10	1.50	22	20	17	12	4	
3	DSPG 2.00	2"	1.50	2.00	24	22	19	14	6	2



Areas of Usage

- Hotels & Restaurants
- Hostels & Hospitals
- Industries

Applications

- Light / Medium Duty Sewage Systems
- Medical Waste disposal
- Industrial Waste disposal

Submersible De-watering Pumps

Characteristics

- Anti corrosive and rust proof material
- Wear-resistant shaft and impeller
- Excellent cooling of the motor enables the pump to operate even when it is partially submerged
- Double mechanical seal
- Protection IP 68

Material of Construction

Part Name	Material
Motor Housing	SS 304
Pump Adaptor	Cast Iron
Impeller	Vortex
Shaft	SS 410
Mechanical Seal	Carbon Vs. Ceramic Silicon Carbide Vs. Carbide Alloy



Areas of Usage

- Civil & Construction Sites
- Ponds & Water Storage Areas
- Sump & Drainage

Applications

- Light / Heavy Duty De-watering Systems
- Mines, Quarries, Coal Ore & Slurries
- Sewage Treatment Plants
- Industrial waste water pumping

Performance

Single Phase, 3000 - RPM (Syn.), 50Hz, 220 - 240 V; 1.0 - 1.5 HP

Three Phase, 3000 - RPM (Syn.), 50Hz, 415 V; 1.0 - 10 HP

S.No.	Product Name	Pipe Size (inches)	Power		Total Head in Meters										Impeller Passage (mm)
			kW	HP	6	9	12	15	18	21	24	27	30		
					Discharge in m ³ / hr										
1	DDWP 20 - 1.0	2"	0.75	1.0	20	12	2							20	
2	DDWP 20 - 1.5	2"	1.1	1.5	25	18	10							20	
3	DDWP 25 - 2.0	3"	1.5	2.0	42	36	27	16						25	
4	DDWP 25 - 3.0	3"	2.2	3.0	45	39	33	23	7					25	
5	DDWP 30 - 5.0	4"	3.7	5.0	60	57	48	36	23	6				30	
6	DDWP 30 - 7.5	4"	5.5	7.5	62	61	59	58	51	42	33	17		30	
7	DDWP 30 - 10.0	4"	7.5	10.0	65	64	63	62	61	57	50	41	23	30	

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