

# Domestic Pumps



Self Priming Monoblock Pumps  
Open Well & Submersible Pumps



## Features:

### Operating Conditions

- Operating water temperature: upto 65°C
- Max working pressure: 5.5 Kg/cm<sup>2</sup>
- High suction with self-priming: upto 8 metre
- Low power consumption
- Wide voltage operating range (180-240V)
- Direction of rotation: Anti-Clockwise when viewed from driving end

### Motor

- Motor body: High quality aluminum pressure die casted
- Motor Stator: Low watt loss silicon steel laminations
- Rotor: Dynamically balanced
- TEFC motor (2Pole / 4Pole) suitable for 180-240V, 50 Hz single phase AC power supply
- In-built thermal overload protector (T.O.P.)
- Provided with 1 meter / 5 meter long power supply cable
- Motor Insulation Class F / Class B
- Motor protection IP-55 / IP-54 / IP-44

### Applications

- Used in gardening, farm houses & building construction
- For lifting water to overhead storage tanks
- Pressure booster systems
- Hotels, hospitals and fountains
- Water circulation in Industries

### Pump Construction

- Pump Casing: Cast iron
- Impeller: Forged brass\* for longer life
- Brass insert on pump housing for rust free operation in V Series Pumps
- Shaft: Stainless steel
- Mechanical seal\*: Silicon carbide-graphite
- Copper winding

## Benefits of Havells Pump

#### Motor Insulation Class-F:

Motor design is compact and motor temperature withstand capacity increases upto 155 deg. Celsius. It protects motor from winding burning due to voltage fluctuations.

#### IP-55 Protection:

Pump can be used in outdoor application. Pump is protected from dust & water splashes.

#### Motor Windings:

Dual coated H Class copper winding wires gives high motor efficiency and high temperature withstanding capacity.

#### Thermal Overload Protector (TOP):

Havells Pumps are provided with TOP to safe guard motor from burning.

#### Power Chord#:

1 Metre long power cable eases use of pumpset. trouble free service at customer door step.

#### Pump Shaft:

Stainless Steel Shaft (SS-410) is anti-rusting in hard water and has longer life.

#### Pump Casting:

High Grade Pump Castings (FG-200 grade)\* ensures minimum rusting of pump and enhanced pump life.

#### Pump Seal:

High quality mechanical seal has long life with lesser wear and tear.

#### Impeller:

Forged Brass# Impeller is wear & tear resistant.

**Pump Guarantee\*:** Pumps with upto 2 Year Guarantee stands for high quality assurance.

**Home Service:** Home service of the pumps assures trouble free service at customer door step.

\*Pump Guarantee stands for manufacturing defects, during this period pump will be rectified/repared/replaced free of cost.

Note : Above features may vary according to Pump Models.

# Why Purchase Havells Pump ?

**100%**  
Cost recovery in just **30** months\*

**1.5 Times more water\***  
**3 Times more energy efficient\***

SAVINGS WITH HAVELLS PUMP	HAVELLS 0.5 HP Pump (Hi-Flow S2)	Other Make 1 HP Pump
Height of Water Tank (3 Storey House)	30 Metre	30 Metre
Water Tank Capacity	500 Litre	500 Litre
Water Tank Refills per Day (Morning+Evening)	2	2
Total Water Requirement per Day	1000 Litre	1000 Litre
Energy (Power) Requirement of the Pump	0.37 kW	0.75 kW
Pump discharge in Litres per Hour	900 Litre per Hour	600 Litre per Hour
Total Operation time per day (in hrs)*	1 Hour 07 Minute	1 Hour 40 Minute
Electricity Consumed per Day (in Units ie KWH)*	0.41 Units	1.25 Units
Unit cost of Electricity (in Rs.)	Rs. 5	Rs. 5
Running Cost of Pump Per Day (in Rs.)	Rs. 2.06	Rs. 6.25
Electricity Bill Saving Per Day*	Rs. 4.19	0.00
Electric Bill Saving in 1st Year*	Rs. 1529	0.00
Guarranty Period	2 Years	1 Year
Electricity Bill Saving in 2 yrs*	Rs. 3058	0
Price of Pump	Rs.4000	Rs. 3200
"Effective Cost of Pump after 2 Year guarantee Period * Under Standard Field Conditions"	"Rs. 942 (Pump Cost Rs.4000 - Saving in electricity bill Rs.3058)"	"Rs. 6258 (Rs.3200 pump cost + Rs. 3058 electricity cost paid extra)"

Comparison of Havells 0.5 HP monoblock pump with other makes of 1.0 HP pump. With Havells 0.5 HP pump we can save with less power consumption and better water flow then the 1.0 HP pump consuming more power.

\*Conditions Apply

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# Self Priming Monoblock Pump

## Hi-Flow V-Series



Model	Power		Pipe Size	Total Head in Metre														
				6	9	12	15	18	21	24	27	30	33	34	40	45	50	56
	KW	HP	mm	Discharge in Litre Per Hour														
V2	0.37	0.5	25 x 25	2700	2630	2430	2230	1950	1650	1440	1160	980	690	650				
V1	0.75	1.0	25 x 25	4250	4090	3950	3690	3440	3210	2970	2690	2510	2250	2190	1820	1450	1180	730

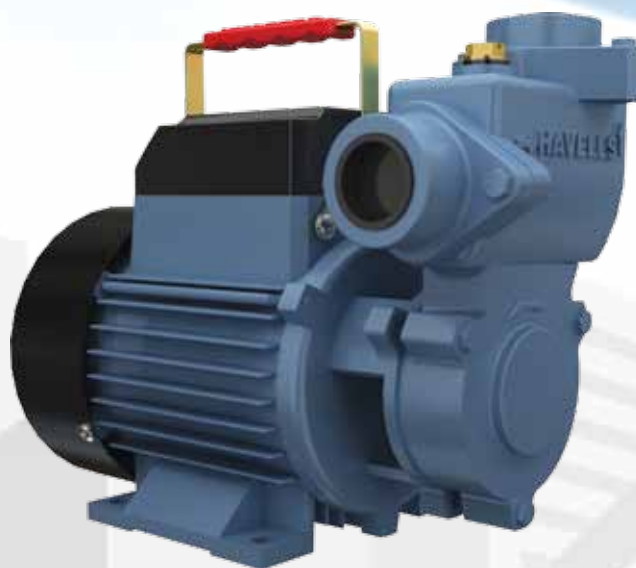
## Hi-Flow S-Series



Model	Power		Pipe Size	Total Head in Metre														
				6	9	12	15	18	21	24	27	30	33	34	40	45	50	56
	KW	HP	mm	Discharge in Litre Per Hour														
S2	0.37	0.5	25 x 25	2700	2550	2350	2150	1870	1570	1360	1080	900	610	490				
S1	0.75	1.0	25 x 25	4200	4000	3860	3600	3440	3120	2880	2600	2420	2160	2100	1730	1360	1090	640

# Self Priming Monoblock Pump

## Hi-Flow M-Series



Model	Power		Pipe Size mm	Total Head in Metre													
	KW	HP		6	9	12	15	18	21	24	27	30	33	34	40	45	50
M2	0.37	0.5	25 x 25	2450	2170	1910	1640	1370	1110	850	580	380					
M1	0.75	1.0	25 x 25	3400	3200	3000	2800	2600	2400	2200	2000	1800	1600	1550	1200	850	580

## Hi-Flow D-Series

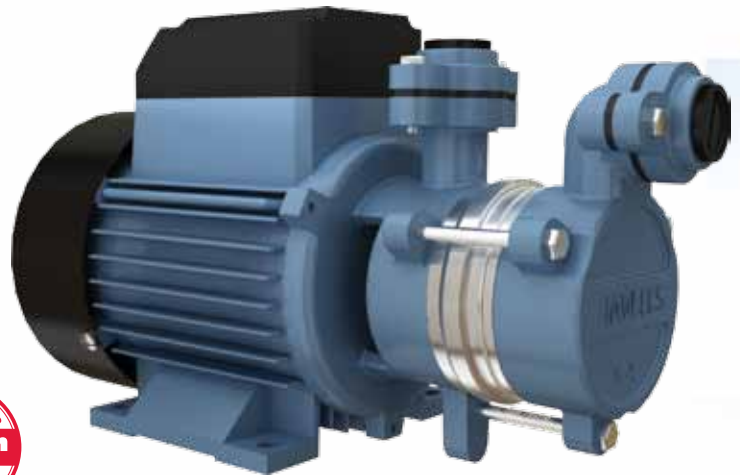


Model	Power		Pipe Size mm	Total Head in Metre													
	KW	HP		6	9	12	15	18	21	24	27	30	33	36	45	48	
D2	0.37	0.5	25 x 25	3300	3030	2730	2400	2080	1750	1340	900	400					
D1	0.75	1.0	25 x 25	4200	3950	3750	3450	3250	3000	2880	2520	2250	2020	1850	1450	900	

\*D-Series motor have 1450 RPM (4 Pole)

## Self Priming Monoblock Pump

### Hi-Flow A-Series



Model	Power		Pipe Size	Total Head in Metre												
				3	6	9	12	15	18	21	24	27	30	32	36	39
	KW	HP	mm	Discharge in Litre Per Hour												
AL2	0.37	0.5	13 x 13	1600	1500	1385	1235	1110	950	800	675	480	270			
A2	0.37	0.5	13 x 13		1600	1485	1375	1250	1130	1000	850	700	500	320		
A3	0.55	0.75	25 x 25		2000	1900	1750	1600	1425	1250	1050	820	620			
A1	0.75	1.0	25 x 25		2450	2330	2200	2080	1970	1840	1725	1550	1340	1120	825	535

## Shallow Well Jet Pump

### Hi-Flow JM-Series



Model	Power		Pipe Size	Total Head in Metre											
				12	15	18	21	24	27	30	33	36	40		
	KW	HP	mm	Discharge in Litre Per Hour											
JM2	0.37	0.5	25x25	4200	4000	3650	2940	2280	1740	1200	540				
JM1	0.75	1.0	25x25		4250	4000	3620	3020	2420	1820	1420	960	540		

## Shallow Well Jet Pump

### Hi-Flow JS-Series



#### Motor:

- TEFC motor with class 'B' insulation suitable for
- Extruded Aluminium Motor body.
- Fitted with Non-return valve (NRV).
- Provided with handle for ease of mobility
- In-built thermal overload protector (T.O.P)
- Motor designed for low power consumption
- Dynamically balanced rotor for trouble free operation
- Sealed Anti-friction bearing both sides, for longer life

#### Pump:

- Self-priming up to 8.5 Metre
- Casting parts: FG200
- Fitted with high quality CI impeller for longer life

Model	Power		Pipe Size	Total Head in Metre										
	KW	HP		12	15	18	21	24	27	30	33	36	40	
JS2	0.37	0.5	25x25	3000	2940	2820	2280	1680	1140	660				
JS1	0.75	1.0	25x25			3000	2940	2700	2160	1740	1440	900	630	

## Self Priming Monoblock Pump

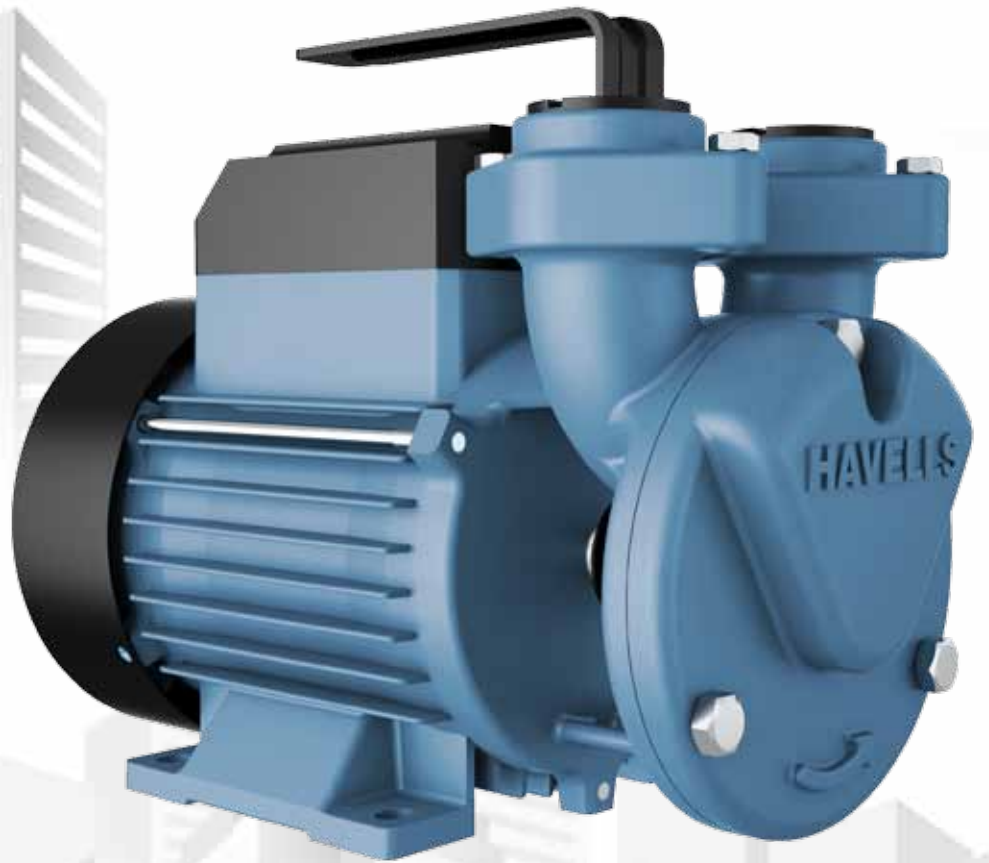


- TEFC motor, IP 55 protection with class 'B' insulation (MX Series pumps with 'F' Class insulation)
- Suitable for ambient temperature upto 50°C
- Die-cast Aluminium Motor body.
- In-built thermal overload protector (T.O.P.)
- Motor designed for low power consumption
- Dynamically balanced rotor for trouble free operation
- Sealed Anti-friction bearing both sides, for longer life

Model	Power		Pipe Size	Total Head in Metre											
	KW	HP		6	9	12	15	18	21	24	27	30	33	36	38
MX2	0.37	0.5	25 x 25	2050	1790	1550	1350	1150	930	725	470				
MX1	0.75	1.00	25 x 25	3200	2970	2700	2500	2250	2025	1750	1500	1275	950	660	420
ML2	0.37	0.5	25 x 25	2050	1790	1550	1350	1150	930	725	470				
ML1	0.75	1.0	25 x 25	3200	2970	2700	2500	2250	2025	1750	1500	1275	950	660	420

# Self Priming Monoblock Pump

## Hi-Flow HS-Series



Model	Power		Pipe Size	Total Head in Metre								
				6	9	12	15	18	21	24	27	30
	KW	HP	mm	Discharge in Litre Per Hour								
HS2	0.37	0.5	25 x 25	3200	2875	2540	2240	1900	1580	1210	870	550

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## Open Well Submersible Pump

### Hi-Flow W-Series



- SS Vs Teflon/Carbon thrust bearing set, LTB bush on both side
- Specially designed SS impeller
- Casting parts : Special grade CI (SGI) for rust free operation
- Provided with control panel for pump operation
- Motor pre-filled with treated water, prevents rotor corrosion
- Provided with 5 Meter long cable

Model	Power		Pipe Size	Total Head in Metre											
	KW	HP		8	10	12	14	16	18	20	22	24	26	28	30
W2	0.37	0.5	25 x 25	155	140	130	115	100	70	50					
W1	0.75	1.0	25 x 25		225	195	185	180	160	150	135	110	85	40	20

## Open Well Submersible Pump

### Hi-Flow WL-Series



- SS Vs Teflon/Carbon thrust bearing set, LTB bush on both side.
- SS motor body
- Provided with control panel for pump operation
- Pump shaft SS410
- Motor designed for optimum efficiency and low power consumption
- Dynamically balanced rotor for longer life
- Provided with 5 Meter long cable

Model	Power		Pipe Size	Total Head in Metre											
	KW	HP		8	10	12	14	16	18	20	22	24	26	28	30
WL2	0.37	0.5	25 x 25	140	125	105	95	70							
WL1	0.75	1.0	25 x 25			170	157	143	132	120	105	90	60	40	

## Hi-Flow C-Series



- TEFC motor with class 'B' insulation & IP 54 protection
- High pressure Die-cast CI Motor body.
- In-built thermal overload protector (T.O.P)
- Motor designed for optimum efficiency, low power consumption
- Dynamically balanced rotor for trouble free operation
- Sealed Anti-friction bearing both sides, for longer life



Model	Power		Pipe Size mm	Total Head in Metre															
	KW	HP		6	8	10	12	14	15	16	17	18	19	20	22	24	25	26	28
	Discharge in Litre Per Hour																		
CM05	0.37	0.5	25x25					7000		6680		5670		3970	1830				
CM05H	0.37	0.5	25x25							6000		5860		5740	5170	3100	2000		
CP05	0.37	0.5	40x40	14100	13420	12800	11150	4050											
CP05E	0.37	0.5	40x40	14100	13420	12800	11150	4050											
CM10	0.75	1.0	25x25					6560		6430		6360		6240	6110	5600	4880	4100	2520
CN10	0.75	1.0	32x25							8100		7800		7440	6720	5100	3900	2400	
CQ10	0.75	1.0	50x50		24000	19800	14820	9000											
CQ10E	0.75	1.0	50x50		24000	19800	14820	9000											
CV10	0.75	1.0	80x80	45000	42000	19500													
CV10E	0.75	1.0	80x80	45000	42000	19500													
CQ15	1.1	1.5	50 x 50		24600	21000	18600	15900	14100	12000	8400								
CR15	1.1	1.5	65 x 50		28200	24000	19800	12600											
CQ20	1.5	2.0	50 x 50		28200	27000	25200	23400	21600	19800	19500	19200	17400	15900					
CR20	1.5	2.0	65 x 50		30000	27600	24600	21600	19800	18000	16500	15000	9000						
CR20D	1.5	2.0	65 x 50		30000	28200	25800	23400	21600	19800	17400	15000							
CS20	1.5	2.0	80 x 65			46200	34800	19800											
CS20D	1.5	2.0	80 x 65			43800	34200	19200											
CV20	1.5	2.0	80 x 80		49500	45000	35400	25800	19200										
CV20D	1.5	2.0	80 x 80			46800	35400	22200											

# 100 mm Submersible Pumps

## Hi-Flow Series

### Operating condition:

- Pumpset designed for clear cold water lifting application.
- Suitable for Single phase AC power supply and voltage range 170V - 220V.
- Direction of rotation : Anti-clock wise when viewed from delivery end

### Motor:

- Performance of Havells Pumpsets conforms to IS 8034.
- Pump – Motor coupling as per NEMA standard.
- High grade CRNO stampings for optimum efficiency & low power consumption.
- Water filled motors fitted with High quality Segmental Bearing and Carbon plate.
- Oil filled motors fitted with Anti-friction Bearings for axial/radial loads ensure longer life.

- Dynamically balanced rotor on CNC balancing machine for trouble free operation.
- Motor provided with Pressure diaphragm to compensate excess pressure due to heating of Oil or Water.

### Pump:

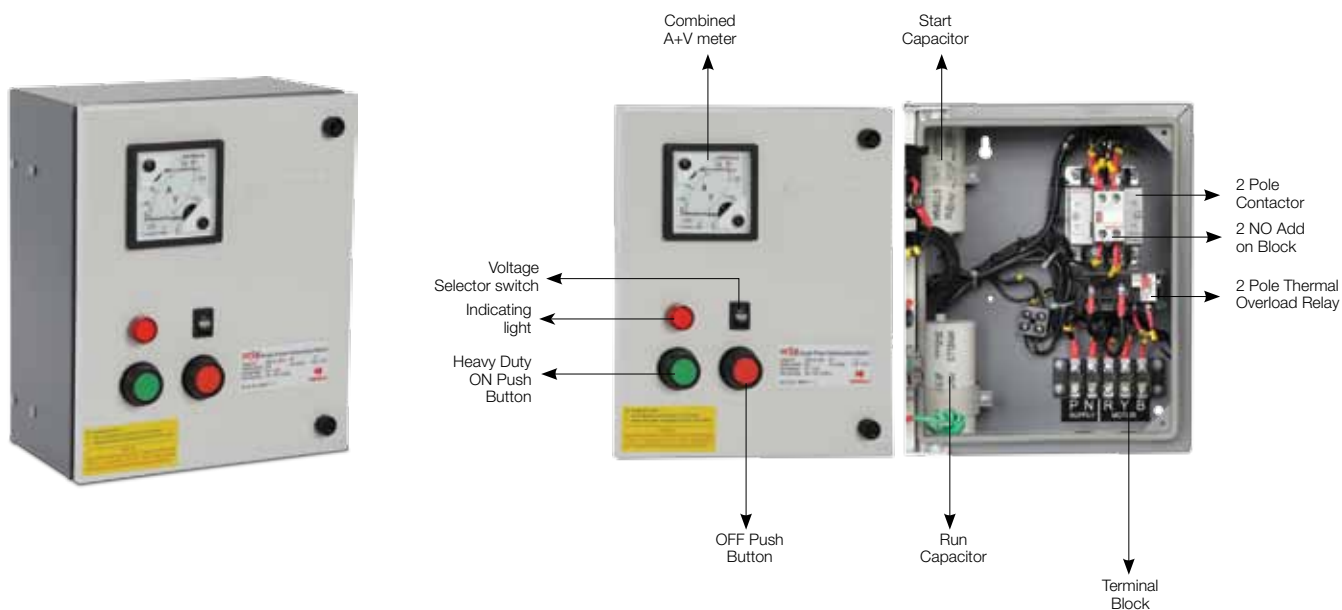
- High-grade Noryl Impeller-Diffuser set with neck-ring prevents wear and tear.
- SS-410 grade stainless steel shaft for corrosion free use.
- All pumps are provided with 5 metre long power supply cable.
- Fitted with LTB (Leaded Tin Bronze) bush for high wear resistance.
- Stainless Steel tube for Motor and pump, for rust free operation.
- Modular construction and easy interchangeability of components.



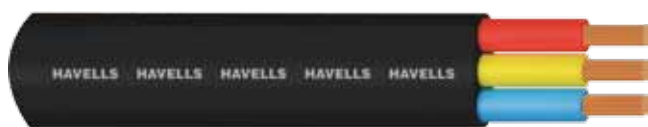
MODEL		PERFORMANCE CHART (75 / 80 / 100 mm)																										
Water Filled	Oil Filled	kW	HP	Stage	Pipe Size mm	Litre / Minute	0	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	100	120	130	145
H3W12B10SL-75mm		0.75	1.0	12	32		Head in Meter	40	37		35	33	31	30	28	25	21	18	14.8	12								
H3W16B10SL-75mm		0.75	1.0	16	32	52		47		44	41	39	37	35	32	25	21	17	13									
H3W36B12S-75mm		0.93	1.25	36	32	108		92		73	47	35	19															
H3W12B10S-80mm		0.75	1.0	12	32	55		51		48	46	44	42	40	35	29	26	23	19	16								
H3W16B10S-80mm		0.75	1.0	16	32	72		64		60	56	53	50	48	43	35	31	26	20	15								
H3W20B10S-80mm		0.75	1.0	20	32	80		70		64	58	54	51	48	41	33	29	25	20									
H4W6B05S	H4O6B05S	0.37	0.5	6	32	45		39			33	27	24	21	18	13												
H4W7B10S	H4O7B10S	0.75	1.0	7	32	58					51	49	47	45	42	39	36	33	30	26	22	16						
H4W10B10S	H4O10B10S	0.75	1.0	10	32	80					72	69	66	63	59	56	53	49	44	39	34	30	25					
H4W8C10S		0.75	1	8	40	64					59		55		51		45		39		32		24	18				
H4W13B10S	H4O13B10S	0.75	1.0	13	32	96		90		80	69	60	52	44	35	25												
H4W16B10S	H4O16B10S	0.75	1.0	16	32	120		110		99	85	75	65	53	40	31	17											
H4W12C15S	H4O12C15S	1.10	1.5	12	40	99					86	84	81	77	74	70	66	61	55	49	43	35	33					
H4W15B15S	H4O15B15S	1.10	1.5	15	32	119					104	100	95	90	85	80	75	69	63	56	49	41						
H4W18B15S	H4O18B15S	1.10	1.5	18	32	133	120		106	90	84	70	60	45	35													
H4W20B15S	H4O20B15S	1.10	1.5	20	32	137	128		115	96	87	75	63	50	38													
H4W10D20S	H4O10D20S	1.50	2.0	10	50	68								59		57		55		53		51	48	42	36	30		
H4W16C20S	H4O16C20S	1.50	2.0	16	40	130			120	114		110		100		90		77		65		50	39					
H4W20B20S	H4O20B20S	1.50	2.0	20	32	140	130		117	101	90	78	67	54	40													
H4W27B20S	H4O27B20S	1.50	2.0	27	32	200	185		163	141	122	105	87	70	52													

## Accessories Available for Submersible Pumps:

### Urja single phase submersible pump controller



### Flat three core submersible cables



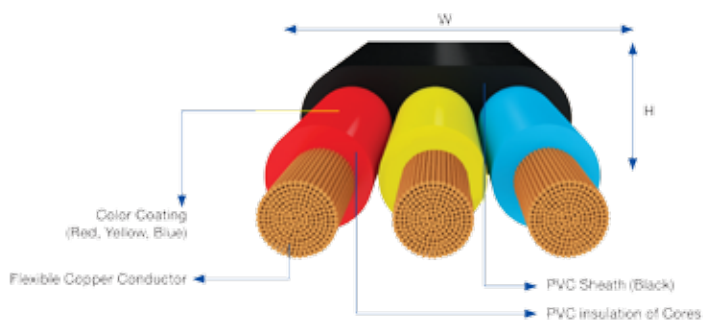
#### Application

Used for critical space requirements, protection against impact of corrosive liquids and abrasion while being indefinitely immersed in water.

Type FR PVC Insulated, flat sheathed, 3C - 1.5 sq. mm. to 35 sq. mm.

#### Features

- Protection against rain water.
- Protection against ingress of small solid foreign bodies.
- Available in 100 mtr pack.



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