



Vertical Multi-Stage Deep Well Jet Pumps



The MS Series Vertical Jet Pumps are the industry standard deep well jet pumps for over-the-well "bolt-on" installations.

The MS Series Jet Pumps include the pre-plumbed BERKELEY® external automatic regulator, pressure gauge, pressure switch, and a complete line of casing adapters to drive the 4" double pipe or 2" and 3" single pipe jet packages.

APPLICATIONS

■ Water systems and sprinkling... for homes, farms and cottages.

SPECIFICATIONS

Body – Rugged cast iron **Pump and Motor Shaft** – 416

stainless steel

Impellers - Noryl®

Diffuser – Close-grained cast iron

ORD	ORDERING INFORMATION														
Cat.			Max. Press.	Pipe T	apping	Sizes	Motor	Approx.							
No.	HP	Description	Reg. Setting	Suct.	Drive	Disch.	Voltage	Wt. Lbs.							
10MS	1	Base Mounted Pump	60 PSI	1-1/4"	1-1/4"	1"	115/230	73							
15MS	1-1/2	Base Mounted Pump	85 PSI	1-1/4"	1-1/4"	1"	230	120							
20MS	2	Base Mounted Pump	95 PSI	1-1/4"	1-1/4"	1"	230	125							

ADAPTER FLANGE

Catalog Number	Description	Used With
J216-26	1-1/4" x 1"	Offset single pipe, 4" double pipe through 3/4 HP
J216-27	1-1/4" x 1-1/4"	4" double pipe 1. 1-1/2 and 2 HP

Order pump from ordering information table above. A Jet Package should be ordered with every Series MS Pump. All installations require an appropriate size adapter flange or casing adapter if bolt-on feature is desired.

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In order to provide the best products possible, specifications are subject to change.

FEATURES

Automatic Pressure Regulator – Faster-acting and quieter, design eliminates "hunting" for correct drive pressure. New improved stem and guide are precisely molded to assure efficient, trouble-free performance on all deep wells.

Quality Construction – Precision-machined, close-grained cast iron pump body and base are specially treated to resist corrosion.

Noryl® Impellers – Precision molded for perfect balance, and ultra-smooth for highest performance and efficiency.

Pressure Switch – High quality. Differential and cut-in/cut-out pressure settings are adjustable.

Motor Windings – Superior insulation materials protect against excessive moisture and contaminants to ensure prolonged motor life.

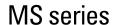
Mechanical Shaft Seal – Precision lapped and highly polished carbon-ceramic, stainless steel construction. Internal design guarantees continuous water lubrication for maximum protection.

Dustproof Cover – All electrical components are protected from dirt, dust and insects by a dustproof canopy. Ventilating air cannot contaminate vital switching components. This eliminates the most common cause of motor failure.

Balanced Rotor – Rotor is die cast under high pressures for uniform performance and greater efficiency; dynamically balanced.

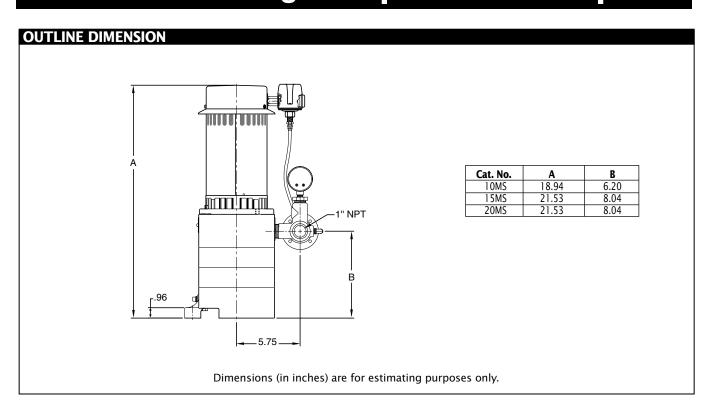
Heavy-duty Ball Bearings – Permanently lubricated sealed bearings are extensively tested to ensure extended life and smooth, quiet operation.

Pump and Motor Shaft – One piece threaded shaft for positive impeller drive and alignment. Shaft is stainless steel for maximum corrosion resistance.





Vertical Multi-Stage Deep Well Jet Pumps



	PUMP PERFORMANCE (Capacity in Gallons Per Minute) DEEP WELL (40 PSI) 4" DOUBLE PIPE																									
																									Max. I Shut Pre (Ps	Off ss.
Cat.		let	Uses	Uses		Pumping Depth in Feet														Jet at Min.	Jet at Max					
No.	HP	No.	Venturi	Nozzle	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	180'	200'	220'	240'	260'	280'	300'	320'	Depth	
10MS	1	23SD	J32P-24	J34P-42	12.1	11.7	11.6	11.1	10.2	9.2	7.8	6.4	5.0	4.0	3.0										120	76
TONS	'	15SD	J32P-18	J34P-42	5.5	5.5	5.5	5.4	5.3	5.3	5.2	5.1	5.1	5.0	4.8	4.5	3.3	2.7	2.0	1.3	1.0				200	97
15MS	1 1 /2	23SD	J32P-24	J34P-42	12.2	12.2	12.2	12.2	11.7	11.3	10.7	9.9	9.0	8.3	7.0	4.0	1.3								164	95
I JIVIS	1-1/2	15SD	J32P-18	J34P-42	5.5	5.5	5.5	5.5	5.5	5.5	5.3	5.3	5.2	5.1	5.1	5.0	4.8	4.7	4.5	4.3	4.0	3.3	2.7		314	172
20MS	2	23SD	J32P-24	J34P-42	12.2	12.2	12.2	12.2	11.8	11.3	11.2	11.1	11.0	10.0	8.7	7.0	4.0	2.0							195	110
ZUNIS	۷	15SD	J32P-18	J34P-42	5.5	5.5	5.5	5.5	5.5	5.5	5.3	5.3	5.2	5.1	5.1	5.0	5.0	4.8	4.8	4.5	4.3	4.0	3.3	2.7	314	172

Tested and rated in accordance with Water Systems Council Standards.

NOTE: Pumps installed with a PRO-Source™ tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.





Vertical Multi-Stage Deep Well Jet Pumps

				NCE (Ca 2" SIN				ıs Per	Minu	ite)													
																						Max. I Shut Pre (P:	Off ess.
Cat.		Jet	Uses	Uses		Pumping Depth to Water in Feet													Jet at Min.	Jet at Max.			
No.	HP	No.	Venturi	Nozzle	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	180'	200'	220'	240'	260'	Depth	
10MS	1	12AP	J32P-24	J34P-42	12.1	11.3	11.2	10.0	8.8	7.6	6.5	5.6	3.3	1.8								118	80
TONS	1	8AP	J32P-18	J34P-42	5.5	5.5	5.3	5.3	5.2	5.1	5.0	5.0	5.0	5.0	4.5	4.2	2.0					198	126
15MS	1-1/2	12AP	J32P-24	J34P-42	12.2	12.0	12.0	12.0	11.5	11.2	9.7	8.3	6.8	5.5	4.2	3.3						162	110
1 JIVIJ	1 1/2	8AP	J32P-18	J34P-42	5.5	5.5	5.5	5.5	5.5	5.3	5.2	5.1	5.0	5.0	5.0	4.8	4.3	3.5	2.7	1.7		266	158
20MS	2	12AP	J32P-24	J34P-42	12.2	12.0	12.0	12.0	11.7	11.2	11.0	10.3	8.3	7.5	6.3	5.3						193	139
ZUNIS	_	8AP	J32P-18	J34P-42	5.5	5.5	5.5	5.5	5.5	5.3	5.2	5.2	5.1	5.1	5.0	4.8	4.7	4.3	3.7	3.2	2.5	312	192

			FORM (40 PS					allon	s Per	Min	ute)															
																									Max. I Shut Pre (PS	Off ss.
Cat.		let	Uses	Uses							Pu	mpir	ıg De	pth 1	to Wa	ater	in Fe	et							Jet at Min.	Jet at Max.
No.	HP	No.	Venturi	Nozzle	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	180'	200'	220'	240'	260'	280'	300'	320'	Depth	
10MS	1	23CP	J32P-24	J34P-42	12.1	11.7	11.6	11.1	10.2	9.2	7.8	6.4	5.0	4.0	3.0										120	76
TONS	ı	16CP	J32P-18	J34P-42	5.5	5.5	5.5	5.4	5.3	5.3	5.2	5.1	5.1	5.0	4.8	4.5	3.3	2.7	2.0	1.3	1.0				200	97
		23CP	J32P-24	J34P-42	12.2	12.2	12.2	12.2	11.7	11.3	10.7	9.9	9.0	8.3	7.0	4.0	1.3								164	95
15MS	1-1/2	22CP	J32P-20	J34P-42	7.7	7.7	7.7	7.5	7.5	7.4	7.3	7.3	7.2	7.2	7.0	7.0	4.3	4.0	3.2	2.2					210	110
		16CP	J32P-18	J34P-42	5.5	5.5	5.5	5.5	5.5	5.5	5.3	5.2	5.2	5.1	5.0	5.0	4.9	4.7	4.0	3.8	3.0	2.3	1.7		268	132
	Ţ	23CP	J32P-24	J34P-42	12.2	12.2	12.2	12.2	11.8	11.3	11.2	11.1	11.0	10.0	8.7	7.0	4.0	2.0						·	195	110
20MS	2	22CP	J32P-20	J34P-42	7.7	7.7	7.7	7.5	7.5	7.4	7.3	7.3	7.2	7.2	7.0	7.0	5.3	5.0	4.7	4.0	3.0	2.2			250	128
		16CP	J32P-18	J34P-42	5.5	5.5	5.5	5.5	5.5	5.5	5.3	5.3	5.2	5.1	5.1	5.0	5.0	4.8	4.7	4.5	4.3	4.0	3.3	2.7	314	172

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