STA-RITE® MS Series

Cast Iron



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 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

ORDERI	NG IN	IFORMATION						
CATALOG	j	DECODIDEION	MAX. PRESS.	PIPE T	APPING	MOTOR	APPROX.	
NUMBER	HP	DESCRIPTION	REG. SETTING	SUCT.	DRIVE	DISCH.	VOLTAGE	WT. LBS.
MSD	3/4	Deep Well Jet	40 PSI	1-1/4"	1"	1"	115/230	67
MSE	1	Deep Well Jet	60 PSI	1-1/4"	1-1/4"	1"	115/230	73
MSF	1-1/2	Deep Well Jet	85 PSI	1-1/4"	1-1/4"	1"	230	120
MSG	2	Deep Well Jet	95 PSI	1-1/4"	1-1/4"	1"	230	125

ADAPTE	R 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

FEATURES

Automatic Pressure Regulator: Fasteracting 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: Precisionmachined, 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 diecast 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: Stainless steel for maximum corrosion resistance; one-piece threaded shaft for positive impeller drive and alignment.

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

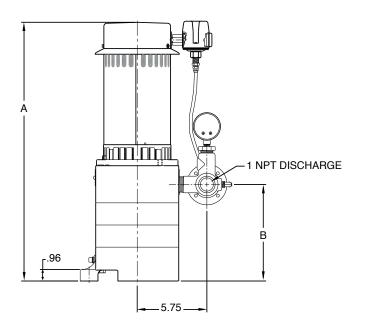
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OUTLINE DIMENSION



CAT. NO.	Α	В
MSD	17-5/16	5-5/8
MSE	18-3/8	5-5/8
MSF	20-7/16	7-1/2
MSG	20-15/16	7-1/2

Dimensions (in inches) are for estimating purposes only.

				NCE (Cap. I) 4" DOL				s per	min	ute)																
						PUMPING DEPTH IN FEET															MAX. PUMP SHUT-OFF PRESS. PSI					
CAT. NO.	НР	JET NO.	USES VENTURI	USES NOZZLE	30,	40'	50'	60'	70'	80.	90'	100°	110 [.]	120'	130'	140 [.]	180'	200'	220'	240'	260'	280'	300.	320'	MIN.	JET AT MAX. DEPTH
MSD	3/4	23SD	J32P-24	J34P-42	10.2	8.4	6.8	5.8	4.5	3.1	2.1	1.1													80	46
עכוייו	3/4	15SD	J32P-18	J34P-42	5.5	5.4	5.3	5.2	4.7	4.3	4.1	3.7	3.1	2.7	2.3	1.9									137	75
MSE	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
MSE	ļ	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
ИСЕ	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
MSF	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
MSG	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
MSG	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	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.

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S4513WS

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			FORMAN L (40 PSI)				ns pe	er min	ute)																	
						PUMPING DEPTH IN FEET																MAX. PUMP SHUT-OFF PRESS. PSI				
CAT. NO.	НР	JET NO.	USES VENTURI	USES NOZZLE	30.	40'	50'	60'	70'	80,	90'	100'	110 [,]	120'	130'	140'	180'	200'	220'	240'	260'	JET AT MIN. DEPTH	JET AT MAX. DEPTH			
MSD	3/4	12AP	J32P-24	J34P-42	10.0	8.3	6.1	4.7	3.8	2.0	1.4											79	50			
עכוייו	3/4	8AP	J32P-18	J34P-42	5.5	5.4	5.2	5.0	4.4	4.3	4.1	3.7	3.1	2.4	2.1	1.4						135	73			
MSE	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			
MSE		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			
МСЕ	1 1/0	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			
MSF	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			
ИСС	0	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			
MSG	2	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			

			FORMAN L (40 PSI					s per	min	ute)																			
												PUM	IPIN	G DE	РТН	IN F	EET								MAX. PUMP SHUT-OFF PRESS. PSI				
CAT. NO.	НР	JET NO.	USES VENTURI	USES NOZZLE	30,	40'	50'	60'	70'	80,	90'	100'	110'	120'	130'	140 [.]	180'	200 [.]	220'	240 [.]	260'	280'	300.	320'	JET AT MIN. DEPTH	JET AT MAX. DEPTH			
		23CP	J32P-24	J34P-42	10.2	8.4	6.8	5.8	4.5	3.1	2.1	1.1													80	46			
MSD	3/4	17CP	J32P-29	J34P-44	12.0	10.4	8.5	6.6	4.3	2.1															77	50			
		16CP	J32P-18	J34P-42	5.5	5.4	5.3	5.2	4.7	4.3	4.1	3.7	3.1	2.7	2.3	1.9									137	75			
MSE	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			
MISE	'	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			
MSF	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			
		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			
MSG	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			

Tested and rated in accordance with Water Systems Council Standards.

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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.

