STA-RITE® HMS Series

Cast iron horizontal multi-stage jet pumps



HMS Series Multi-Stage Jet Pumps are the highest performing pumps available in its category. The HMS Series Convertible Jets utilize the built-in regulator, offering easier priming and better range of performance from a complete line of Shallow Well, 4" Double Pipe, 2" and 3" Single Pipe Jet Packages. Pump may also be operated as a self-priming centrifugal (to 25 ft.) to provide a wide range of high pressure applications.

APPLICATIONS

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

SPECIFICATIONS

Body: One-piece rugged cast iron

Pump and Motor Shaft:

416 stainless steel

Impeller: Polycarbonate

Diffuser: Corrosion-resistant cast iron Pressure Switch Pre-Set: 30-50 PSI Suction Ports: Drive-over-Suction

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ORDERING INFORMATION													
CATALOG NUMBER	НР	DESCRIPTION	PIPE TAI		SIZES	STAGES	MOTOR	APPROX.					
	'''	DESCRIPTION	SUCT.	DRIVE	DISCH.	SIAULS	VOLTAGE	WT. LBS.					
HMSD	3/4	Deep Well Jet	1-1/4"	1"	1"	2	115/230	50					
HMSE	1	Deep Well Jet	1-1/4"	1"	1"	2	115/230	80					
HMSF	1-1/2	Deep Well Jet	1-1/4"	1"	1"	2	115/230	85					

AUTOMATIC PRESSURE REGULATOR - DEEP WELL											
CATALOG NUMBER	DESCRIPTION	APPLICATION	APPROX. WT. LBS.								
PKG 107	Regulator, tubing, pipe plug and compression fitting	Required for ALL deep well installations	4								

FEATURES

Automatic Pressure Regulator: Fasteracting and guieter, design eliminates "hunting" for correct drive pressure. New improved stem and quide are precisely molded to assure efficient, trouble-free performance on all deep wells. See ordering information (deep well only).

Quality Construction: Close-grained cast iron pump body is rugged, one-piece unit, specially treated to resist corrosion. Drain port provided for easy winterizing.

Precision-Machined Diffusers:

Assure faster priming.

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

Polycarbonate Impellers: Precisionmolded for perfect balance, and ultrasmooth for highest performance and efficiency.

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

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: Diecast under high pressures for uniform performance and greater efficiency...dynamically balanced.

Heavy-Duty Ball Bearings: Shielded, permanently lubricated 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 and pressure regulator, if required, from ordering information tables above. A Jet Package and the Automatic Pressure Regulator, described above, are required on all deep well installations.

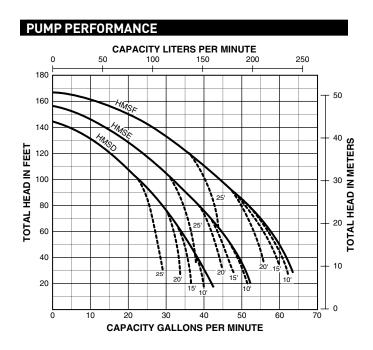


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PUMP PERFORMANCE: SHALLOW WELL													
CATALOG	НР	JET*	USES	USES	DISCH.	TOTAL SUCTION LIFT FT.							
NUMBER	НР	NUMBER	VENTURI	NOZZLE	PRESS. PSI	5'	10'	15'	20'	25'			
					20	9.6	8.2	7.0	5.8	3.9			
					30	9.1	7.9	6.5	5.6	3.9			
					40	8.8	7.7	6.3	5.6	3.9			
HMSD	3/4	PKG 1 - 29SD	NOOD //D	12/D /1	50	8.5	7.6	6.2	5.6	3.9			
нмэр	3/4	PNG 1 - 295D	N32P-66B	J34P-41	60	7.7	7.3	6.2	5.6	3.9			
					70	5.5	5.1	4.7	4.2	3.6			
					80	3.5	3.1	2.8	2.3	1.9			
					Shut-off	102	96	96	96	90			
		PKG 1 - 10SD	N32P-67B	J34P-44	20	13.0	11.2	9.8	7.8	5.8			
					30	12.5	11.0	9.5	7.6	5.7			
					40	12.2	10.9	9.4	7.6	5.7			
HMCE	1				50	12.1	10.8	9.2	7.6	5.7			
HMSE	1				60	12.0	10.8	9.2	7.6	5.7			
					70	10.2	9.6	8.6	7.4	5.7			
					80	7.4	6.8	6.2	5.5	4.8			
					Shut-off	108	108	108	102	102			
					20	15.9	13.3	12.2	9.6	7.0			
					30	15.6	13.2	12.2	9.5	7.0			
					40	15.3	13.1	12.1	9.4	6.9			
					50	14.9	13.0	11.9	9.3	6.8			
					60	14.4	12.9	11.7	9.2	6.7			
HMSF	1-1/2	PKG 1 - 10SD	N32P-67B	J34P-44	70	13.7	12.7	11.5	9.0	6.6			
					80	12.6	12.1	10.8	8.7	6.4			
					90	9.5	8.5	7.8	7.2	5.7			
					100	5.9	5.0	4.4	3.8	3.2			
					Shut-off	120	120	114	114	108			



* Order Jet Package separately.

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.

 ${\tt NOTE: Dotted\ lines\ indicate\ performance\ reduction\ at\ high\ suction\ lift.}$

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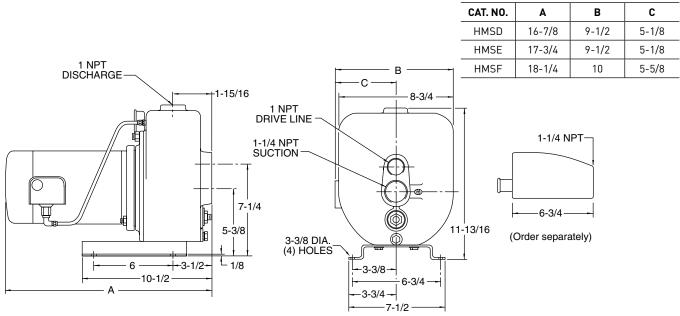
Cast iron horizontal multi-stage jet pumps

PUMP PERFORMANCE (CAPACITY IN GALLONS PER MINUTE) CENTRIFUGAL APPLICATION												
CATALOG NUMBER	НР	TOTAL SUCTION		SHUT-OFF PRESSURE								
	ПР	LIFT FT.	20'	30,	40'	50'	60'	PSI				
		5	37	30	24	15	-	60				
		10	35	29	21	13	-	60				
HMSD	3/4	15	33	27	19	9	-	60				
		20	32	26	17	6	-	60				
		25	31	24	15	-	-	60				
		5	47	40	33	24	10	65				
		10	46	38	31	21	7	65				
HMSE	1	15	44	36	28	18	-	65				
		20	42	35	26	15	-	65				
		25	41	33	24	12	-	65				
		5	60	53	46	36	23	68				
HMSF		10	58	52	43	33	21	68				
	1-1/2	15	56	49	41	30	16	68				
		20	55	47	39	27	12	68				
		25	54	41	36	25	-	68				

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OUTLINE DIMENSIONS



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Dimensions (in inches) are for estimating purposes only.

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			ICE (CAPACITY BLE PIPE:		PER MIN	UTE)													
		JET NO.	IICEC	USES															
CAT. NO.	HP		VENTURI	NOZZLE	20'	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	130'	140'	150'	160'
		13AP	J32P-26	J34P-44	12.0	10.8	9.6	8.1	6.9	5.5									
HMSD	3/4	22AP	J32P-22	J34P-43					7.9	6.7	5.5	4.7	3.9	3.0					
		8AP	J32P-18	J34P-42									4.0	3.6	3.1	2.7	2.2		
		5AP	J32P-29	J34P-41	16.3	15.6	14.1	12.0	9.9	8.2	6.0								
HMSE	1	4AP	J32P-24	J34P-41					8.9	7.9	7.0	5.8	4.7	3.6	2.5				
		19AP	J32P-20	J34P-43											4.0	3.2	2.3	1.8	1.3
		15AP	J32P-33	J34P-41	20.0	18.5	17.0	13.6	10.4	7.6	5.0								
HMSF	1-1/2	9CP	J32P-26	J34P-41					10.6	9.2	8.0	6.0	4.5	3.7	3.0	2.2			
		23AP	J32P-20	J34P-44											4.3	3.5	2.7	2.4	2.0
DEEP \	WELL:	3" SING	ELE PIPE:	40 PSI															
		17CP	J32P-29	J34P-44	12.8	11.5	10.2	8.9	7.6	6.1									
HMSD	3/4	18CP	J32P-24	J34P-44					7.8	6.9	6.0	5.3	4.5	3.6					
111135	0,4	16CP	Factory Installed										5.0	4.4	3.9	3.4	3.0	2.5	2.0
HMSE	1	7CP	J32P-32	J34P-41	17.8	16.2	14.6	13.0	11.4	9.6	7.7								
ПМЭЕ	l	9CP	J32P-26	J34P-41					10.7	9.8	9.0	7.9	6.7	5.8	5.0	4.1			
		10CP	J32P-38	J34P-45	21.7	19.7	17.9	15.9	14.0	11.0	8.0								
HMSF	1-1/2	9CP	J32P-26	J34P-41					11.1	10.8	10.6	9.7	8.9	7.5	6.5	5.5			
	·	19CP	Factory Installed	J34P-41											6.9	6.1	5.3	4.6	4.1
DEEP \	WELL	4" DOU	BLE PIPE	: 40 PSI															
		CK2	J32P-29	J34P-44	12.8	11.5	10.2	8.9	7.6	6.1									
HMSD	3/4	CK2	J32P-24	J34P-44					7.8	6.9	6.0	5.3	4.5	3.6					
111135	0,4	15SD	Factory Installed										5.0	4.4	3.9	3.4	3.0	2.5	2.0
		CK3	J32P-32	J34P-41	17.8	16.2	14.6	13.0	11.4	9.6	7.7								
HMSE	1	CK3	J32P-26	J34P-41					10.7	9.8	9.0	7.9	6.7	5.8	5.0	4.1			
		CK1	J32P-20	J34P-43											5.0	4.5	3.9	3.5	3.0
		CK4	J32P-38	J34P-45	21.7	19.7	17.9	15.9	14.0	11.0	8.0								
LIMOT	1 1/0	CK3	J32P-26	J34P-41					11.1	10.8	10.6	9.7	8.9	7.5	6.5	5.5			
HMSF	1-1/2	4SD	Factory Installed												6.9	6.1	5.3	4.6	4.1

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