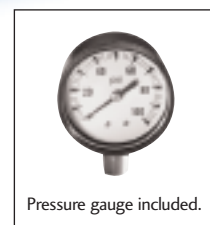


HNAS series – horizontal

The HNAS Series Convertible Jet Pumps offer best in class priming due to the exclusive built-in regulator and proven performance from a complete line of shallow well, 4" double-pipe, 2" and 3" single-pipe ejectors. The pump case and seal plate are constructed of heavy-duty cast iron, with Noryl® internals, utilizing the industry preferred A.O. Smith motors and Square-D pressure switches. Available in 1/2, 3/4 and 1 HP models.



Pressure gauge included.

application

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

specifications

Body and Seal Plate – Close-grained cast iron

Impeller – High-strength Noryl®

Diffuser – Reinforced polypropylene with brass wear ring

Shaft – One-piece threaded 416 stainless steel

Base – Steel, 10 gauge

Max. Liquid Temperature – 140°F

Max. Inlet Pressure – 50 PSI

Pressure Switch Pre-Set – 30-50 PSI

Suction Ports – “Suction-over-Drive”

Pressure Gauge – 0-100 PSI

certification



This product is Listed to UL Standards for Safety by Underwriters Laboratories Inc. (UL). Indoor/outdoor use.

- Quality Construction** – Close-grained cast iron pump body, is rugged one-piece unit, specially treated to resist corrosion. Drain port provided for easy winterizing
- Noryl® Impeller** – Precision-molded for perfect balance... ultra-smooth for highest performance and efficiency
- Precision Molded Diffuser** – Pump primes faster, handles more air, with multi-port, precision-molded, reinforced polypropylene diffuser
- Pressure Switch** – High quality, cut-in and differential pressure setting are adjustable
- Mechanical Shaft Seal** – Precision lapped and highly polished carbon-ceramic, stainless steel construction. Internal design guarantees continuous water lubrication for maximum protection
- Motor Windings** – Superior insulation materials protect against excessive moisture and contaminants... assures prolonged motor life
- Balanced Rotor** – Die cast under high pressures for uniform performance and greater efficiency... dynamically balanced
- Heavy-duty Ball Bearings** – Shielded, permanently lubricated bearings, extensively tested to ensure extended life and smooth, quiet operation
- Pump and Motor Shaft** – 416 stainless steel for maximum corrosion resistance; one-piece threaded shaft for positive impeller drive and alignment

ordering information

Catalog Number	HP	Description	Pipe Tapping Sizes			Motor Voltage	Approx. Wt. Lbs.
			Suct.	Drive	Disch.		
HNAS-50	1/2	Base Mounted Pump	1-1/4"	1"	1"	115/230	42
HNAS-75	3/4	Base Mounted Pump	1-1/4"	1"	1"	115/230	60
HNAS-100	1	Base Mounted Pump	1-1/4"	1"	1"	115/230	65

A Jet Package should be ordered with every HNAS Series Pump.

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 flow of pump at relief pressure.

Noryl® is a registered trademark of General Electric Co. PRO-Source™ is a trademark of WICOR Industries.

HNAS series – horizontal

pump performance – shallow well

Pumping capacities in gallons per minute at indicated discharge pressures in pounds per square inch.

HP	Pump Model	Disch. Press.	Pumping Depth to Water in Feet																								
			5 ft. lift				10 ft. lift				15 ft. lift				20 ft. lift				25 ft. lift								
1/2	HNAS-50	Jet Package	11SD	10SD	29SD	CK5	11SD	10SD	29SD	CK5	11SD	10SD	29SD	CK5	11SD	10SD	29SD	CK5	11SD	10SD	29SD	CK5					
		Venturi N32P_	-68B	-67B	-66B	-66B	-68B	-67B	-66B	-66B	-68B	-67B	-66B	-66B	-68B	-67B	-66B	-66B	-68B	-67B	-66B	-66B					
		Nozzle J43P_	-44	-44	-41	-45	-44	-44	-41	-45	-44	-44	-41	-45	-44	-44	-41	-45	-44	-44	-41	-45					
		20 PSI	20.6	14.4	10.1	6.6	19.0	13.2	9.3	6.1	16.5	11.5	8.1	5.3	13.3	9.5	6.9	4.5	9.8	6.9	5.3	3.4					
		30 PSI	19.6	14.3	9.9	6.5	18.1	13.1	9.1	6.0	15.7	11.4	7.9	5.2	13.3	9.5	6.7	4.4	9.8	6.9	5.1	3.4					
		40 PSI	10.3	12.1	9.8	6.4	9.4	11.2	9.0	5.9	8.2	9.7	7.8	5.1	6.4	8.3	6.6	4.3	3.1	6.3	5.1	3.3					
		50 PSI	-	4.6	7.3	6.3	-	4.3	6.7	5.8	-	3.7	5.8	5.0	-	2.6	4.9	4.3	-	1.0	3.8	3.3					
		60 PSI	-	-	3.5	5.8	-	-	3.2	5.3	-	-	2.8	4.6	-	-	2.4	3.9	-	-	-	3.0					
		Shut Off-PSI	55	59	70	72	53	57	66	67	50	55	64	65	48	53	61	63	46	51	59	61					
3/4	HNAS-75	Jet Package	12SD	11SD	CK1	CK5	CK1	12SD	11SD	CK1	CK5	CK1	12SD	11SD	CK1	CK5	CK1	12SD	11SD	CK1	CK5	CK1	12SD	11SD	CK1	CK5	CK1
		Venturi N32P_	-65	-68B	-72E	-67B	-72	-65	-68B	-72E	-67B	-72	-65	-68B	-72E	-67B	-72	-65	-68B	-72E	-67B	-72	-65	-68B	-72E	-67B	-72
		Nozzle J34P_	-44	-44	-43	-45	-43	-44	-44	-43	-45	-43	-44	-44	-43	45	-43	-44	-44	-43	-45	-43	-44	-44	-43	-45	-43
		20 PSI	24.2	20.3	14.5	12.6	8.6	23.2	19.4	13.9	12.1	8.3	20.2	16.9	12.1	10.5	7.2	17.7	13.6	10.3	8.2	6.1	12.5	10.4	7.9	6.2	4.7
		30 PSI	24.0	20.3	14.4	12.4	8.5	23.0	19.4	13.8	11.8	8.2	20.0	16.9	12.0	10.3	7.1	17.7	13.6	10.2	8.0	6.0	12.5	10.4	7.8	6.0	4.6
		40 PSI	16.7	16.4	13.7	12.2	8.3	16.0	15.8	13.1	11.7	7.9	13.9	13.7	11.4	10.2	6.9	16.0	11.5	9.7	7.8	5.9	10.3	8.3	7.4	5.8	4.5
		50 PSI	-	-	12.6	12.0	8.2	-	-	12.1	11.5	7.8	-	-	10.5	10.0	6.8	-	-	8.9	7.7	5.8	-	-	6.8	5.7	4.4
		60 PSI	-	-	6.0	8.2	6.1	-	-	5.8	7.8	5.9	-	-	5.0	6.8	5.1	-	-	4.3	5.8	4.3	-	-	3.3	4.8	3.3
		70 PSI	-	-	-	4.2	2.9	-	-	-	4.0	2.8	-	-	-	3.5	2.4	-	-	-	2.8	2.0	-	-	-	2.0	1.6
Shut Off-PSI	61	62	71	80	82	59	60	69	78	79	57	58	67	76	77	54	55	65	74	75	52	53	63	72	73		
1	HNAS-100	Jet Package	12SD	CK2	60SD	12SD	CK2	60SD	12SD	CK2	60SD	12SD	CK2	60SD	12SD	CK2	60SD										
		Venturi N32P_	-65	-64	-64	-65	-64	-64	-65	-64	-64	-65	-64	-64	-65	-64	-64										
		Nozzle J34P_	-44	-44	-45	-44	-44	-45	-44	-44	-45	-44	-44	-45	-44	-44	-45										
		20 PSI	26.8	21.6	18.4	24.6	19.9	16.9	21.4	17.3	14.7	18.2	14.7	12.5	13.9	11.2	9.6										
		30 PSI	26.5	21.5	18.1	24.4	19.8	16.7	21.2	17.2	14.5	18.0	14.6	12.3	13.8	11.2	9.4										
		40 PSI	22.9	21.3	17.5	21.0	19.6	16.1	18.3	17.0	14.0	15.6	14.5	11.9	11.9	11.1	9.1										
		50 PSI	15.1	16.8	17.3	13.9	15.4	15.9	12.1	13.4	13.8	10.3	11.4	11.7	7.9	8.7	9.0										
		60 PSI	-	4.0	15.6	-	3.7	14.4	-	3.2	12.5	-	2.7	10.6	-	2.1	8.1										
		70 PSI	-	-	4.1	-	-	3.8	-	-	3.3	-	-	2.8	-	-	-										
Shut Off-PSI	61	71	77	59	69	75	57	67	73	55	65	71	53	63	68												

NOTE: Pumps are supplied with 30 - 50 pressure switch setting. Cut-in /Cut-out pressure settings are adjustable.

convertible jet pumps

HNAS series – horizontal

pump performance – deepwell – 40 psi – 4" double pipe

Pumping capacities in gallons per minute at vertical depth to pumping level.

HP	Pump Model	Jet No.	Uses Venturi	Uses Nozzle	Pumping Depth in Feet												Max. Shut Off Pressure (PSI)
					20'	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	Jet at Max. Depth	
1/2	HNAS-50	CK3	J32P-26	J34P-41	9.4	8.0	6.6										68
		54SD	J32P-22	J34P-44	8.0	6.9	5.7	4.8	3.8	3.2							70
		CK5	N32P-66B	J34P-45	7.3	6.2	5.0	4.0									69
		55SD	J32P-18	J34P-43	5.0	4.3	3.7	3.2	2.6	2.2	1.8	1.5					63
3/4	HNAS-75	CK1	N32P-72	J34P-43	13.2	10.8	8.4	6.3	4.2								56
		CK2	J32P-24	J34P-44	13.0	11.5	9.9	8.7	7.5	6.6	5.4						80
		54SD	J32P-22	J34P-44	8.5	7.7	6.7	6.3	5.8	5.4	4.8	4.0	3.7	3.4	2.7		73
1	HNAS-100	54SD	J32P-22	J34P-44	9.5	8.5	7.4	6.9	6.5	6.0	5.4	4.8	4.2	3.6	2.9		76

NOTE: Tank body on HNAS-100 pump tapped 1-1/4" x 1". Drop pipe should be increased to 1-1/2" x 1-1/4" to ensure adequate capacity from pump.

pump performance – deepwell – 40 psi

Pumping capacities in gallons per minute at vertical depth to pumping level.

HP	Pump Model	Jet No.	Uses Venturi	Uses Nozzle	Pumping Depth in Feet												Max. Shut Off Pressure (PSI)
					20'	30'	40'	50'	60'	70'	80'	90'	100'	110'	120'	Jet at Max. Depth	
2" SINGLE PIPE																	
1/2	HNAS-50	54AP	J32P-22	J34P-44	7.4	6.3	5.2	3.9	2.5	2.0							54
3/4	HNAS-75	10AP	J32P-24	J34P-44	10.5	10.0	8.1	6.2									79
		54AP	J32P-22	J34P-44	6.0	5.3	4.8	4.2	4.1	3.7	3.5	2.8	2.1	1.6			53
1	HNAS-100	9AP	J32P-29	J34P-44	11.7	11.1	9.8	6.8									57
		8AP	J32P-18	J34P-42	6.7	5.8	5.3	4.7	4.5	4.1	3.8	3.1	2.6	2.0	1.6		72
3" SINGLE PIPE																	
1/2	HNAS-50	9CP	J32P-26	J34P-41	9.4	8.0	6.6										68
		54CP	J32P-22	J34P-44	8.0	6.9	5.7	4.8	3.8	3.2							70
3/4	HNAS-75	18CP	J32P-24	J34P-44	13.0	11.5	9.9	8.7	7.5	6.6	5.4						80
		54CP	J32P-22	J34P-44	8.5	7.7	6.7	6.3	5.8	5.4	4.8	4.0	3.7	3.4	2.7		73
		57CP	J32P-33	P122-10B	18.0	15.4	12.8	10.8									68
		54CP	J32P-22	J34P-44	9.5	8.5	7.4	6.9	6.5	6.0	5.4	4.8	4.2	3.6	2.9		76

Tank body on HNAS-100 pump tapped 1-1/4" x 1". Drop pipe should be increased to 1-1/2" x 1-1/4" to ensure adequate capacity from pump. Tested and rated in accordance with Water Systems Council Standards.

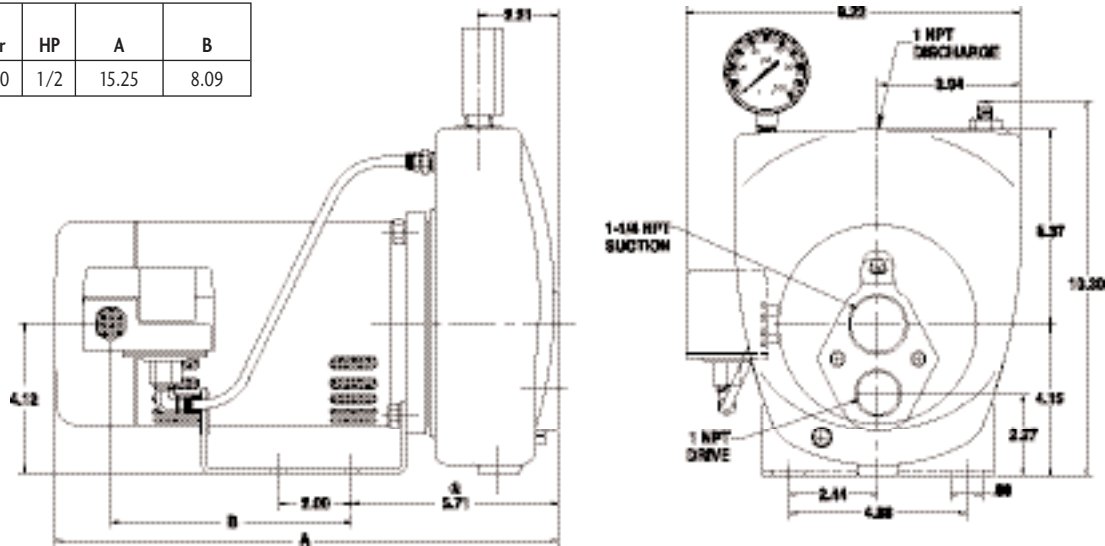
NOTE: Pumps installed with a PRO-Source™ tank require a 100 PSI relief valve. Pumps installed with a conventional tank require a 75 PSI relief valve. Relief valve must be capable of relieving entire flow of pump at relief pressure.

HNAS series – horizontal

outline dimensions

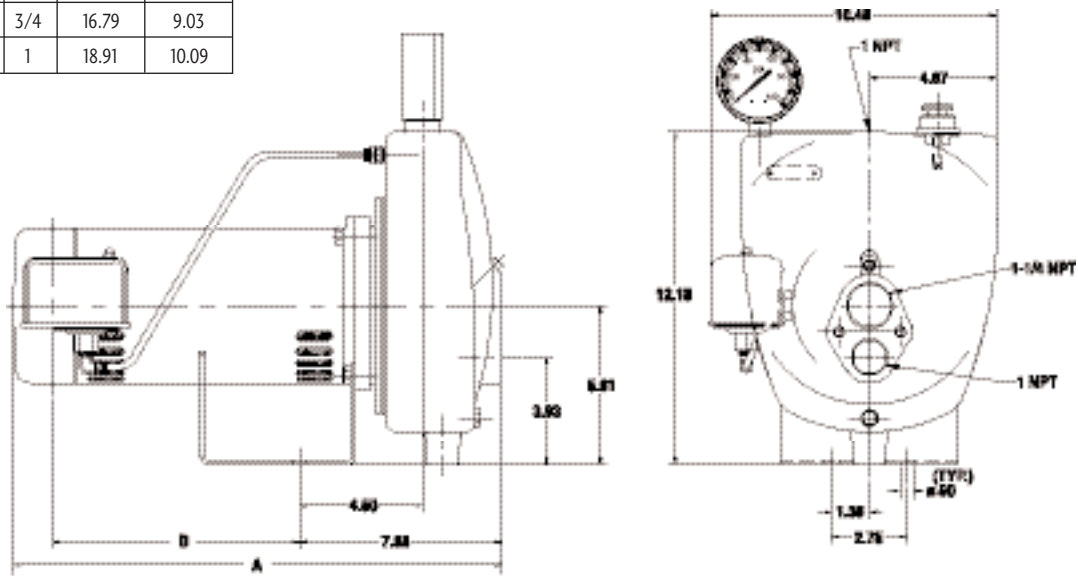
HNAS-50

Model Number	HP	A	B
HNAS-50	1/2	15.25	8.09



HNAS-75, HNAS-100

Model Number	HP	A	B
HNAS-75	3/4	16.79	9.03
HNAS-100	1	18.91	10.09



Dimensions (in inches) are for estimating purposes only.

NOTE: 1/4 NPT, 0-100 PSI pressure gauge supplied uninstalled to prevent shipping damage.