DEEP WELL JET PUMPS

AERMOTOR[®]

VNA2 series

The VNA2 Series Vertical Jet Pumps are the industry standard deep well jet pumps for over-the-well "bolt-on" installations.

The VNA2 Series Jet Pumps include the pre-plumbed Aermotor 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.

application

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

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

- 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 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.



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7-1/2

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VNA2 series

ordering information

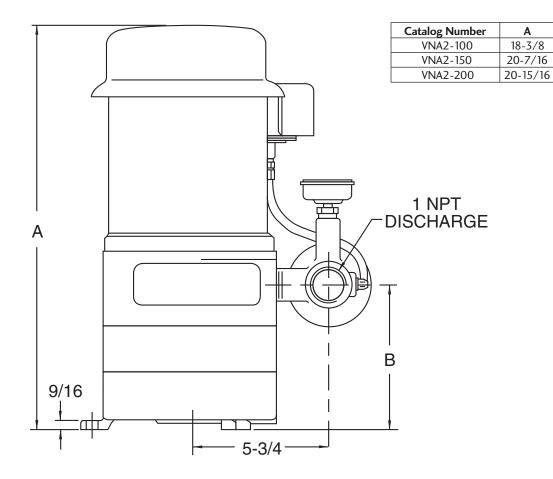
Catalog			Max. Press.	Р	ipe Tapping Siz	Motor	Approx.	
Number	HP	Description	Reg. Setting	Suct.	Drive	Disch.	Voltage	Wt. Lbs.
VNA2-100	1	Base Mounted Pump	60 PSI	1-1/4″	1-1/4″	1″	115/230	73
VNA2-150	1-1/2	Base Mounted Pump	85 PSI	1-1/4″	1-1/4″	1″	230	120
VNA2-200	2	Base Mounted Pump	95 PSI	1-1/4″	1-1/4″	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

NOTE: Order pump from ordering information table above. A Jet Package should be ordered with every VNA2 Series Pump. All installations require an appropriate size adapter flange or casing adapter if bolt-on feature is desired.

outline dimensions



Dimensions (in inches) are for estimating purposes only.

AFRMOTOR[®]

VNA2 series

pump performance - deep well (40 PSI) 4" double pipe

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

	Pump	Jet	Uses	Uses								F	Pumpi	ng Dej	oth in	Feet									Shu	Pump it Off (PSI) Jet at Max.
HP	Model		Venturi	Nozzle	30′	40′	50′	60′	70′	80′	90′	100′	110′	120′	130′	140′	180′	200′	220′	240′	260'	280′	300′	320′		Depth
1	VNA2-	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
1	100	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
1-1/2	VNA2-	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
1-1/2	150	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
2	VNA2-	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
Z	200	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

pump performance - deep well (40 PSI) 2" single pipe

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

	Dumm	lat		Una							Р	umping	g Dept	h in Fe	et							Press. Jet at	t Off (PSI) Jet at
HP	Pump Model	Jet No.	Uses Venturi	Uses Nozzle	30′	40′	50′	60′	70′	80′	90′	100′	110′	120′	130′	140′	180′	200′	220′	240′	260′	Min. Depth	Max. Depth
1	VNA2-	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
I	100	8AP	J32P-18	J34P-18	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
1-1/2	VNA2-	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
1-1/2	150	8AP	J32P-18	J34P-18	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
2	VNA2-	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
2	200	8AP	J32P-18	J34P-18	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

pump performance – deep well (40 PSI) 3" single pipe

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

																									Shu Press	Pump t Off . (PSI)
	Pump	Jet	Uses	Uses		Pumping Depth in Feet															Jet at Min.	Jet at Max.				
HP	Model	No.	Venturi	Nozzle	30′	40′	50′	60′	70′	80′	90′	100′	110′	120′	130′	140′	180′	200'	220′	240′	260'	280′	300′	320′	Depth	
	VNA2-	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
	100	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
1-1/2	VNA2- 150	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
	150	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
2	VNA2- 200	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
	200	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.

NOTE: Pumps installed with a PRO-SourceTM 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.