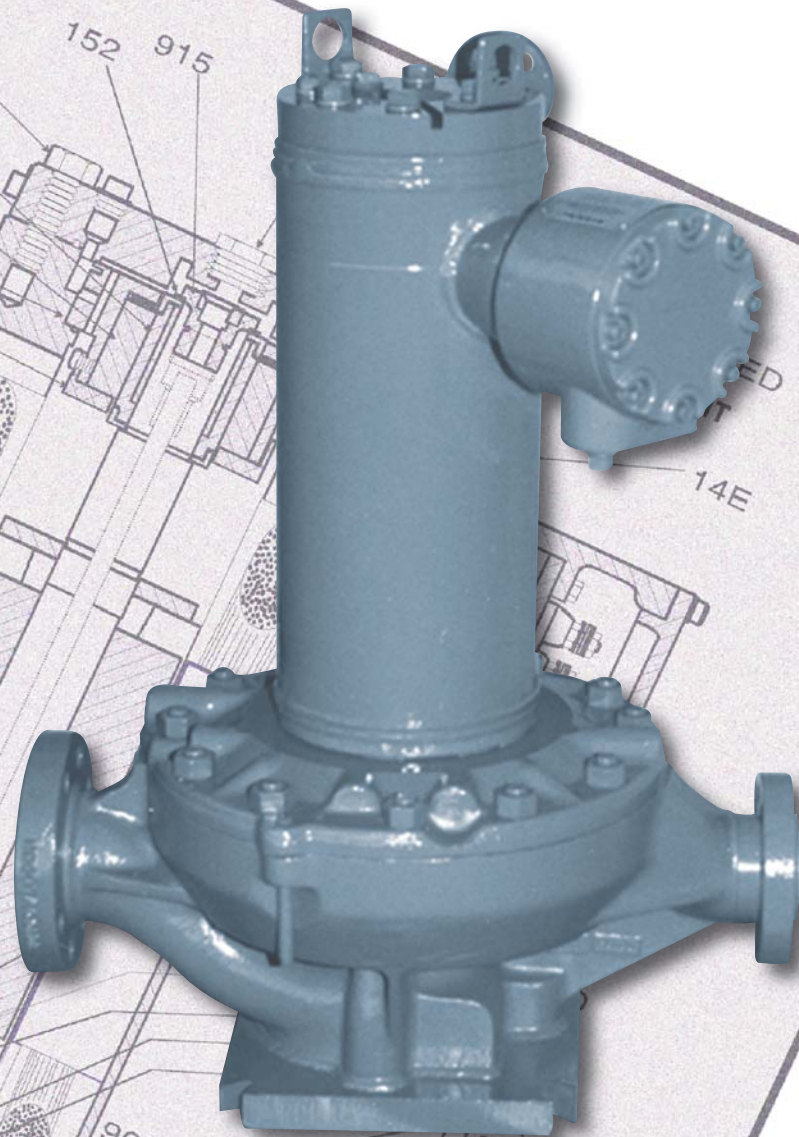




Model VIP-801/806 API Canned Motor Pump



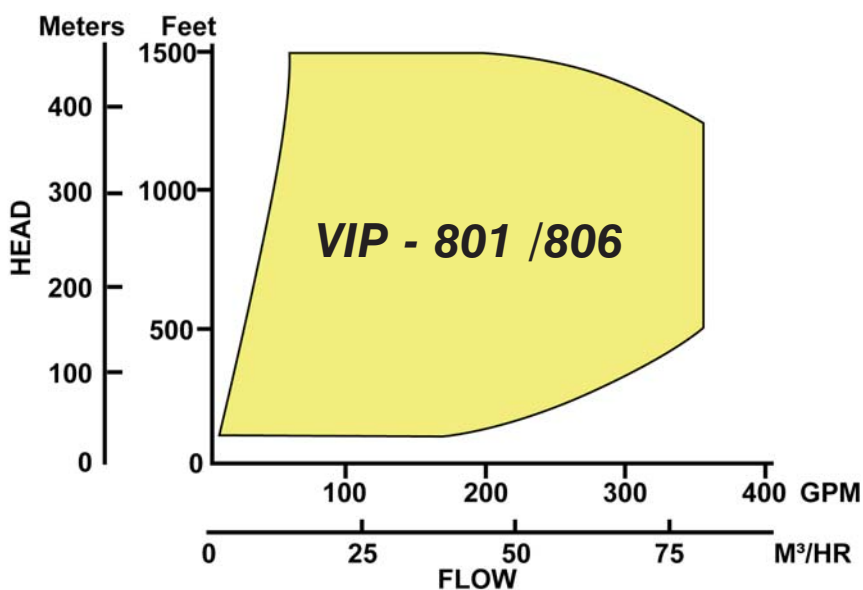
NIKKISO Pumps America, Inc.

FEATURES

The **NIKKISO Pumps America** model VIP-801/806 (Vertically Integrated Pump) has been specifically designed to meet API-685/610 standards. The result is a robust design that meets today's strict demands for maximum reliability, reduced maintenance costs, increased personnel safety and reduced environmental emissions. The canned motor pump design accomplishes true dual containment using a "can-within-a-can" concept which makes this heavy-duty Sealless pump ideal for hydrocarbon processing and petrochemical industry applications.

- **Lower Total Cost** -- Proven maintenance cost savings when compared to conventional mechanically sealed pumps.
- **Maximum Safety and Value** -- True secondary containment design for volatile, hazardous, or expensive liquids (ASME, Section VIII, Division 1).
- **Reliability** -- Minimum number of required components. No mechanical seals.
- **Extended Bearing Life** -- Sintered 100% Alpha Grade, Silicon Carbide bearing material for superior corrosion resistance. Self-aligning features prevent point contact between the rotating and stationary components.
- **Low Installed Cost** -- Simple, in-line mounting requires no special foundation or bedplate.
- **Flexibility** -- Custom engineered hydraulic sizing for your application.
- **Low Noise** -- Totally Enclosed Liquid Cooled (TELC) motor with no fans or bearing noise.
- **Suction Pressures** -- to 2,400 psig. Higher pressures available for custom designs.

PERFORMANCE



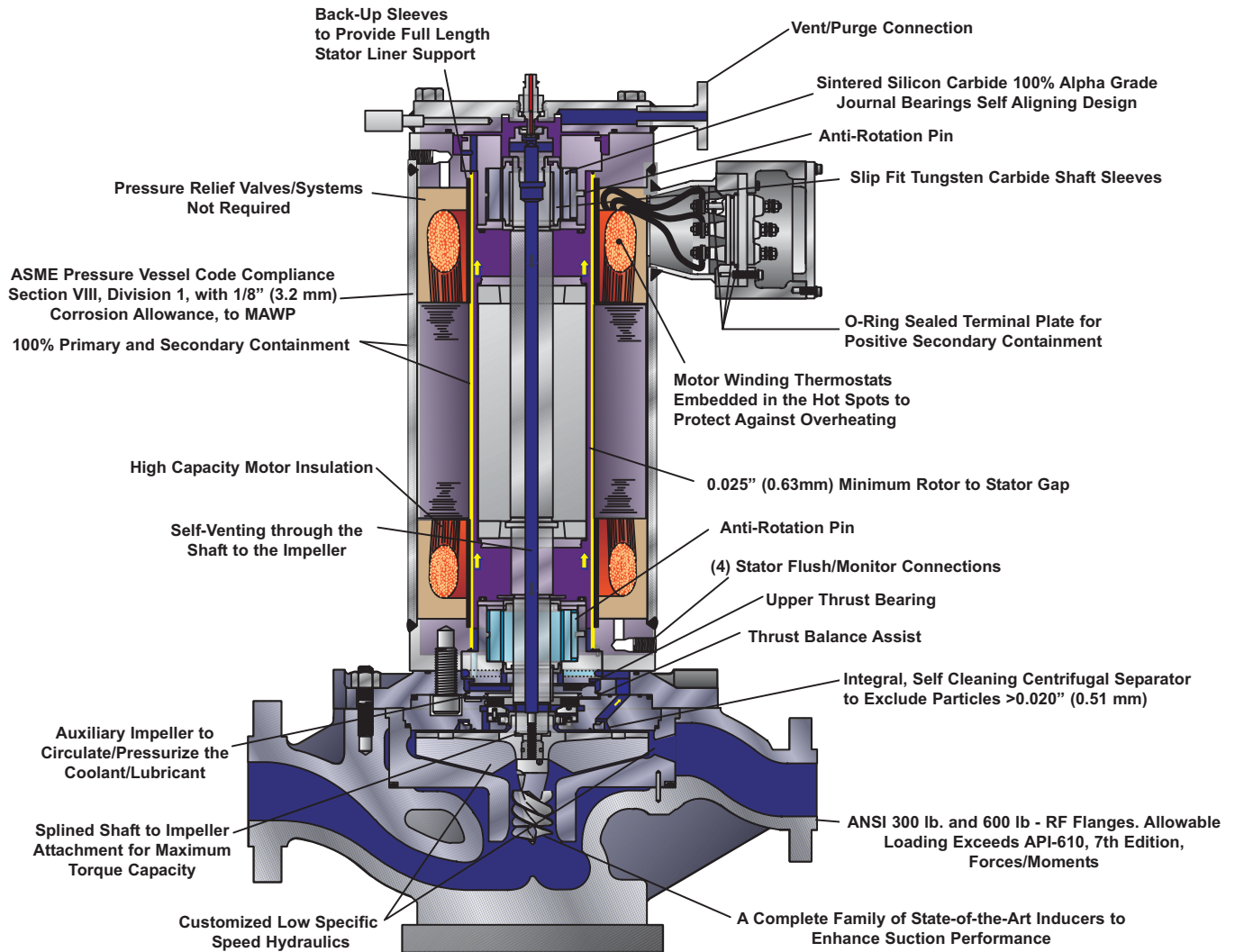
*Performance with the use of an Adjustable Frequency Drive

Applications

- Aromatics (benzene, xylene, toluene)
- Hydrofluoric acid (HF acid)
- Hydrogen fluoride, anhydrous
- Hydrocarbons
- Naphtha
- Sulfuric acid
- Butane
- Isobutane
- Methanol
- Alkylate
- Methyl Mercaptan
- Sour Water
- Olefins
- Caustic
- Propane
- Dimethyl Sulfide

VIP-801/806

Various configurations available: • Pressurized Circulation • High Temperature • Slurry Configuration



* Replaceable diffuser - 801

SPECIFICATIONS

SHAFT SPEEDS		MAXIMUM HEAD	MAXIMUM FLOW	FLUID TEMP. RANGE	MAXIMUM POWER RATING*	SHAFT DIA. @ IMPELLER (S/T FRAMES)	MAXIMUM WORKING PRESSURE	MAXIMUM PUMP CASE THICKNESS	CORROSION ALLOWANCE	HYDROSTATIC TEST PRESSURE	MINIMUM ROTOR/STATOR GAP
TO 7200 RPM	English	1200 ft.	350 gpm	-140° to 650° F	80 hp	1.25/1.5 in.	720 psig to 3000 psig	0.626 in.	0.125 in.	1080 psig to 4500 psig	0.025 in.
	Metric	365 m	80 m ³ /hr	-95°C to 343° C	59 kW	32/38 mm	51 kg/cm ² to 211 kg/cm ²	15.9 mm	3.2 mm	76 kg/cm ² to 317 kg/cm ²	0.64 mm

ELECTRICAL

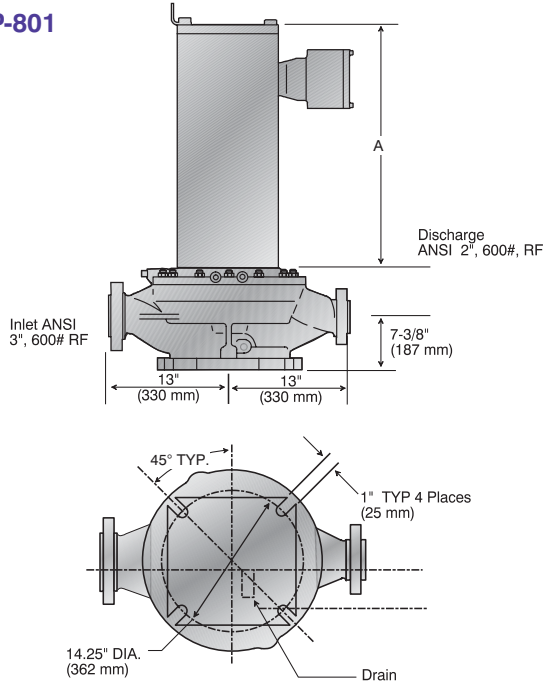
Class 1, Group C & D, Division II Rating. Class N Insulation; Thermostat Setting @ 392°F (200° C).
 *3 Phase, 60-120 HZ, 460 V to 80 HP/59 kW
 *3 Phase, 50-120 HZ, 380 V to 66 HP/50 kW

STANDARD MATERIALS

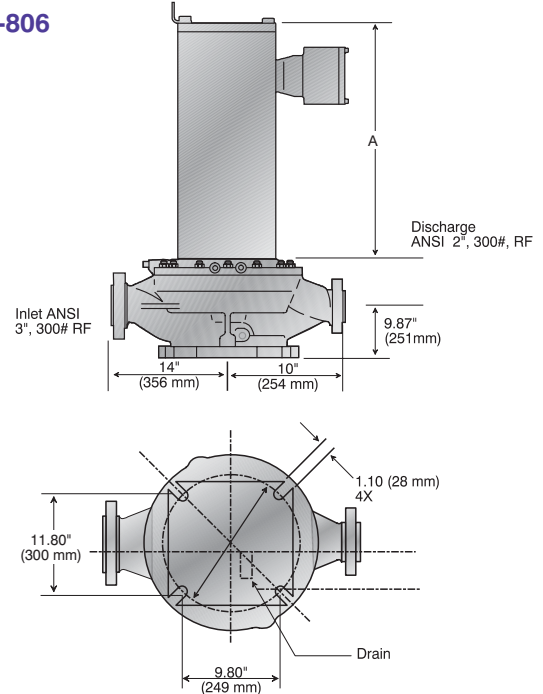
Pump Case, Diffuser, Diffuser Cover	Carbon Steel, 316 SS, Monel, Hastelloy
Shaft	316 SS, Hastelloy, Monel
Impeller, Inducer	316 SS, Monel, Hastelloy
Shaft Sleeves, Runners	Tungsten Carbide
Bearings	Sintered Silicon Carbide
Rotor/Stator Liners	Hastelloy, Monel
Outer Stator Band	Carbon Steel

OUTLINE DRAWINGS

VIP-801



VIP-806



MOTOR FRAME	NOMINAL POWER		"A"		VIP-801 / 806	
	HP/60 hz	kW/50 hz	in.	mm	lb.	kg
S-2	10	6	17.82	453	740	336
S-4	20	12	20.82	529	740	340
S-5	27	16	20.82	529	760	345
T-1	35	21	23.08	586	1090	494
T-2	45	27	25.08	637	1140	517
T-3	60	36	26.08	662	1190	540
T-4	80	50	29.08	739	1240	562
O-4	92	59	29.08	739	1240	562

NOTE: Dimensions are for reference only.

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