



Series 190 pumps are designed for handling a variety of fluids while directly connected to nominal speed motors. The pumps are ideally suited for continuous or intermittent duty for such applications as filtering, circulating, transferring, or booster service. They are designed and engineered for fuel oil supply for boilers and heaters and are commonly found in marine, petroleum and general industrial uses.

Capacities: to 189 l/min (50 USGPM)
Differential Pressures: to 1725 kPa (250 PSI)
Temperatures: to 177°C (350°F)
Viscosities: to 2100 cSt (10,000 SSU)

Construction Features:

- **Radial and Thrust Bearings** – Heavy duty, deep grooved ball type, grease lubricated, oversized to withstand excessive thrust and radial loads. Ball bearing shaft suspension maintains perfect alignment. Bearings not exposed to liquid pumped.
- **Direct Connected** – VICAN Series 190 pumps are designed to operate at nominal motor speeds. Pump and motor mounted on a common base. Other drive arrangements available on request.
- **Rotor Adjustment** – Easy adjustment for exact rotor positioning, assures peak pump performance. No need to dismantle pumps.
- **Self Lubricating Idler Bushing** – Supplied as standard, requires no external lubrication. The bearing is made of self lubricating Carbon Graphite, assures trouble free operation.
- **Relief Valve** – An integral relief valve is standard to protect against excessive pressures, permitting bypassing of liquid from discharge to suction side of pump. Return-to-tank valves are also available when required.
- **Mechanical Shaft Seal** – Supplied as standard. Time proven design eliminates leakage, providing positive sealing for complete operating range.
- **O-Ring Gaskets** – Standard between casing and head, providing a positive seal, eliminating the possibility of leakage.

Standard Construction

Casing	Head	Rotor ⁽²⁾	Idler	Shaft	Idler Pin	Bushing	Shaft Seal ⁽³⁾	Relief Valve ⁽⁴⁾
Iron	Iron	Iron	Iron	Steel	Steel	Carbon	Mechanical Seal	Iron

Specifications

Model No.	Port Size (Inch)	Nominal Pump Rating At 345 kPa (50 PSI) 21 cSt (100 SSU)			Motor Power Required Based on Rated Speed 21 cSt (100 SSU)				Maximum Hydro-Static Pressure		Max. Rec. Discharge Pressure Over 21 cSt (100 SSU)		Maximum Recommended Temperature (1) Mech. Seal		Approx. Shipping Weight	
					345 kPa (50 PSI)		690 kPa (100 PSI)									
		GPM	l/min	RPM	HP	kW	HP	kW	PSI	kPA	PSI	kPA	°F	°C	LB	KG
GG-190	1 NPT	6	23	950	1/2	0.37	3/4	0.55	400	2758	250	1724	225	107	16	7
		7	26	1150	1/2	0.37	3/4	0.55								
		9	34	1450	3/4	0.55	1 1/2	1.10								
		10	38	1750	3/4	0.55	1 1/2	1.10								
HJ-190	1 1/2 NPT	11	42	950	3/4	0.55	1 1/2	1.10	400	2758	250	1724	225	107	40	18
		13	49	1150	1	0.75	1 1/2	1.10								
		18	68	1450	1 1/2	1.10	2	1.50								
HL-190	1 1/2 NPT	15	57	950	1	0.75	2	1.50	400	2758	250	1724	225	107	40	18
		20	76	1150	1 1/2	1.10	2	1.50								
		25	95	1450	1 1/2	1.10	3	2.20								
AS-190	2 1/2 NPT	30	114	950	1 1/2	1.10	3	2.20	400	2758	250	1724	225	107	75	34
		35	132	1150	2	1.50	3	2.20								
AK-190	2 1/2 NPT	44	166	950	2	1.50	5	4.00	400	2758	250	1724	225	107	75	34
		50	189	1150	3	2.20	5	4.00								

(1) For higher temperatures consult factory recommendations.

(2) Standard Rotor for "HL", "AS", and "AK" is Ductalloy

(3) Buna N supplied as standard. Viton or Teflon seals optional

(4) Standard Relief Valve is iron housed, bronze fitted. All iron RV available upon request.