

RANNIE 160Q / GAULIN 160Q

HOMOGENIZER



The APV® Rannie 160Q / Gaulin 160Q homogenizer is a robust, positive displacement five plunger, reciprocating plunger pump, equipped with an application-specific, single-stage homogenizing valve assembly with hydraulic actuation for precise control and performance.

The compact powerful machine is designed for a wide range of applications in the dairy, food and beverage, pharmaceutical, chemical and industrial industries.

Benefits

- Versatility and flexibility: The new models are designed for a wide range of applications.
- Long service life with minimal maintenance: Durable, slow-speed power end that minimizes vibration and noise. The transmission also includes an internal gear transmission and enhanced oil treatment and cooling system.
- Wide array of configurations: The updated models include options such as pharmaceutical-grade specifications and explosion-proof designs, providing a larger range of uses and more specialized applications.
- User-friendly operator and service interface
- Choice of liquid ends: Select a Gaulin Monoblock or Rannie three-piece valve housing

Standard Features

- Gaulin Monoblock or Rannie three-piece liquid end
- Ball or poppet pump valves
- Pressure gauges
- Pressure relief valve
- Weld-stub product connections
- 3-A sanitary design in stainless steel or duplex materials
- Hard metal coated long life plungers
- Hydraulic valve actuator for smooth and stable control
- Single or two stage homogenizing valve, to meet your application requirements
- Internal gear transmission
- Sanitary all welded frame
- Oil cooling system with external plate heat exchanger and temperature transmitter
- Oil filter including alarm
- Emergency stop
- Set of tools
- Set of packings

Standard Options

- Homogenizer or pump
- Manual or automatic hydraulic control system
- Pulsation dampener(s) on inlet and outlet, suitable for CIP
- Aseptic cylinder design, SIP compatible
- Alternative product connections e.g., tri-clamp, high-pressure outlet, dual inlet
- Inlet pressure gauge
- Outlet pressure gauge or transmitter
- Water saving serial plunger lubrication
- Plunger lubrication control package
- Energy saving Micro-Gap homogenizing valve
- Various homogenizing valve configurations
- Ceramic plungers
- Choice of materials for cylinder bloc, pump valve, homogenizing valves, packings, etc.
- Control cabinet with PLC or relay operation
- Low-noise cladding extension
- Main motor external cooling fan
- Start/stop buttons
- Enhanced spare parts kit

Other Options on Request

- Various liquid end block designs for special applications
- Actuated pressure relief valve
- Vibration sensors
- Explosion-proof design
- Electro-polished wetted parts
- Surface finish report
- UFO – Oil Filtration system
- Documentation packages for material traceability, certification and cGMP support

RANNIE/THREE-PIECE VALVE HOUSING
POPETT AND BALL TYPE VALVES

TYPE	CAPACITY		PRESSURE	
	gal/hr	l/h	psi	bar
85.595	7,670	29,000	2,500	170
80.595	6,880	26,000	2,750	190
75.595	5,960	22,500	3,200	220
70.595	5,290	20,000	3,625	250
65.595	4,490	17,000	4,350	300
60.595	3,690	14,000	5,075	350
54.595 *	3,040	11,500	6,100	420
50.595 *	2,510	9,500	7,250	500
45.595 *	1,980	7,500	8,700	600

*Ball Valve only

GAULIN/MONO-BLOCK DESIGN
POPETT AND BALL TYPE VALVES

TYPE	CAPACITY		PRESSURE	
	gal/hr	l/h	psi	bar
2.5	6,880	26,000	2,500	170
2.8	6,080	23,000	2,750	190
3.2	5,300	20,000	3,200	220
3.6	4,630	17,500	3,625	250
4.3	3,970	15,000	4,350	300
5.0	3,310	12,500	5,075	350

TECHNICAL SUMMARY	
Gross Weight	13,890 lb / 6,300 kg
Net Weight	13,230 lb / 6,000 kg
No. of Plungers	5
Lubrication Water Flow Rate	39.6 gal/hr / 150 l/h 13.2 gal/hr / 50 l/h**
Cooling Water Flow Rate	39.6 gal/hr / 150 l/h
Oil Volume	26.4 gal / 100 L

** with Serial Lubrication Option

DIMENSIONS (L x W x H)	
Standard Machine	118 x 82 x 67 in / 3,000 x 2,090 x 1,700 mm
Packed on Pallet	138 x 93 x 83 in / 3,510 x 2,350 x 2,100 mm
Packed in Crate	138 x 93 x 85 in / 3,510 x 2,350 x 2,150 mm
Packed Volume	563 ft³ / 17.1 m³

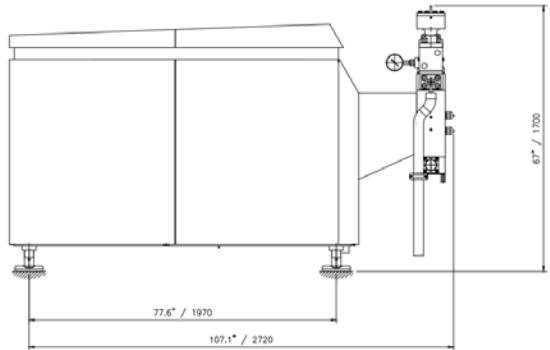
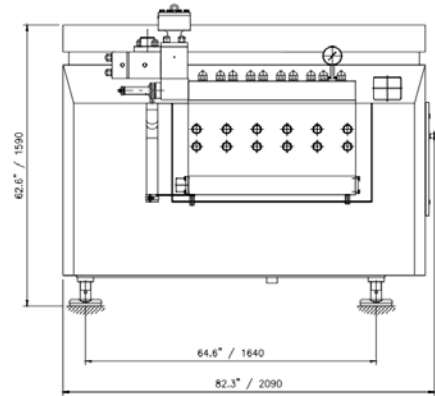
Note: Actual dimensions and weight depend on configuration.

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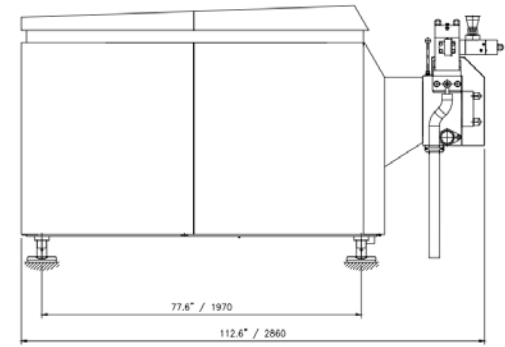
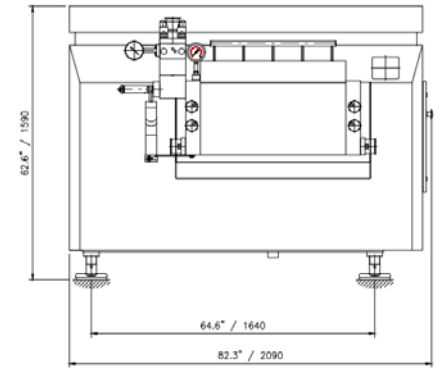
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RANNIE 160Q



GAULIN 160Q