



## Hand Operated Pumps

For All Types of Transfer and Dispensing Applications

Blackmer rotary hand pumps provide a safe, convenient method of dispensing or transferring non-corrosive liquids from drums, barrels, tanks or vats. They are designed for easy, efficient operation in handling a wide range of liquids in industrial, construction and agricultural applications.

Operating on the same principle as Blackmer power pumps, these positive displacement, self-priming, sliding vane pumps provide steady, non-pulsating flow at easy turning speeds. Cylinder and head are of cast iron construction for greater durability. The carbon sliding-vanes are tough, low-friction, chemically inert and long wearing. They self-compensate for wear to maintain high-suction lift, and are easily replaced at low cost after years of service.

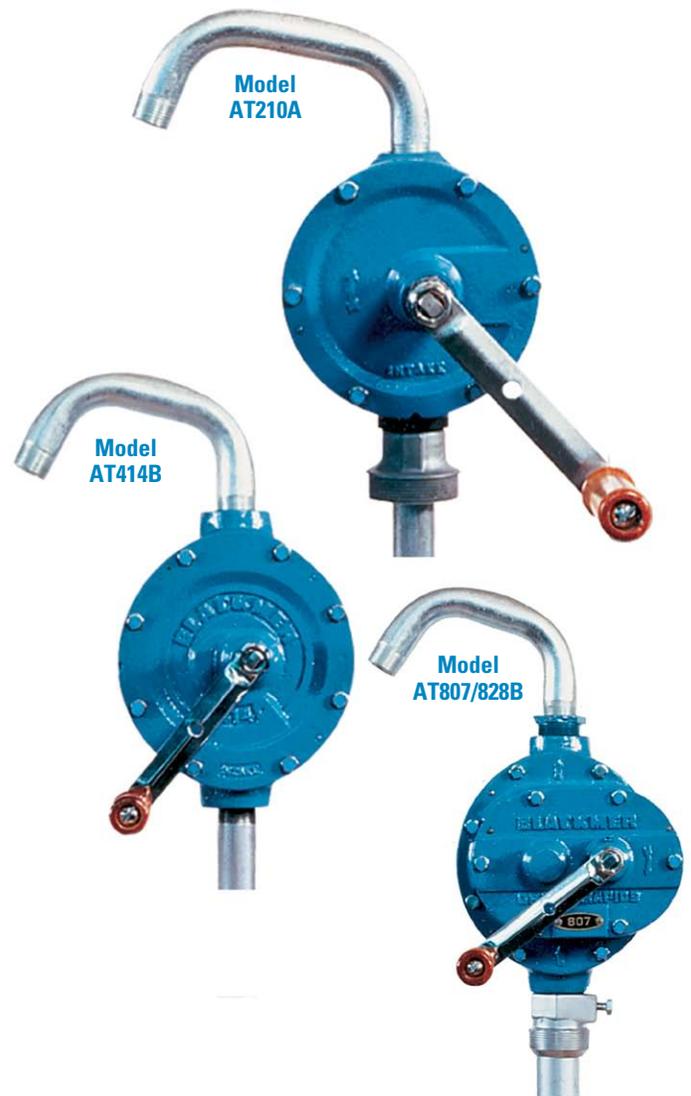
### World-class Quality - ISO 9001 Certified

Blackmer hand pumps are produced in conformance with ISO 9001 certification. Each pump is performance tested to ensure the highest quality standards.

Blackmer's worldwide reputation for superior product quality begins with computer aided design and integrated manufacturing capabilities. Blackmer operates its own modern foundry and metallurgical laboratory. Computerized machine tools and statistical process controls (SPC) are used throughout the manufacturing process.

### Field Proven Reliability

Blackmer was first established in 1903, and has been manufacturing rotary hand pumps in the U.S.A. since that time. Today, Blackmer is the world's leading manufacturer of rotary vane pumps. Blackmer hand pumps may cost a little more, however, their exceptionally rugged construction assures long service life and reliable performance, year after year.





# Rugged Construction / Superior Quality / Proven Reliability

## Mounting Styles



**PA:** Basic Pump for In-line Installation



**AT:** Standard Dispensing Pump with Discharge Spout & 40° Suction Pipe



**DPF:** FM-approved Dispensing Pump with Drip Pan, Discharge Spout & 40° Suction Pipe



**BR & BRF:** Standard and FM-approved Transfer Pump with Discharge Hose, Nozzle & 40° Suction Pipe

## Applications

**Liquid dispensing:** Pumping petroleum products, solvents, coolants or curing agents from barrels or drums into smaller containers for convenient handling, sales, or small quantity use.

**Liquid transfer:** Moving fuels, solvents, commercial and process liquids from drums to other large tanks with a hose and nozzle, as in refueling diesel or gasoline powered vehicles or equipment.

**In-line systems applications:** Transfer of fuels, solvents, and other liquids from one large container to another by means of a permanently piped, fixed system with the pump as an integral part of a transfer line. Often used to move liquids from central or nearby outside storage to in-plant drums or tanks.

**Flammable liquids handling:** FM Approved models meet OSHA safety guidelines and regulations for handling Class I and Class II flammable and combustible liquids like gasoline, naphtha, solvents and thinners.

**OEM applications:** With pumps mounted directly on agricultural or off-road equipment for standby fueling or pre-lubricating of bearing surfaces on large diesel engines before start-up.

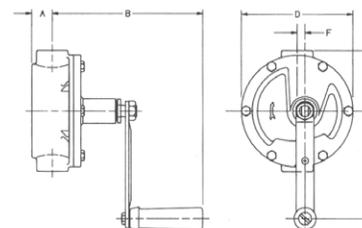
## Selection Data

Pump Model	Frame Size	Capacity Gal at 115 REV (Liters at 115 REV)	Port Size NPT	Maximum Viscosity SSU (cSt)	Maximum Pressure PSI (bar)	Maximum Temp. °F (°C)
210A	Small Frame	10 (38)	3/4"	2,000 (420)	10 (0.7)	300 (149)
414B	Large Frame	14 (53)	1 1/4"	10,000 (2,200)	20 (1.4)	300 (149)
807B	Large Frame	7 (26)	1 1/4"	30,000 (6,300)	40 (2.8)	300 (149)
828B	Large Frame	28 (106)	1 1/4"	5,000 (1,050)	10 (0.7)	300 (149)

Pump Model		A	B	C	D	E	F
PA210A	in.	1 1/16	9 11/16	6	6 1/4	3 1/2	1/2
	mm	30	246	152	159	89	13
PA414B	in.	1 1/4	9 1/4	10	7 7/8	4 3/4	1/2
	mm	32	235	254	194	121	13
PA807B PA828B	in.	1 1/4	10 5/8	10	8 3/8	4 3/4	1 1/8
	mm	32	257	254	213	121	48

Style	Small Frame		Large Frame		
	Standard	FM-approved	Standard	Low Gear	High Gear
In-line	PA210A	—	PA414B	PA807B	PA828B
Dispensing	AT210A	DPF210A	AT414B	AT807B	AT828B
Transfer	BR210A	BRF210A	BR414B	BR807B	BR828B

## Pump Dimensions



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