

MATERIALS OF CONSTRUCTION Hand Pump Models: 210A, 414B, 807B, 828B

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PART NAME	STANDARD MATERIALS	AVAILABLE KIT OPTIONS
All Models	STANDARD MATERIALS	AVAILABLE KIT OFTIONS
	Cast Iron	
Cylinder and Head		
Vanes	Carbon	
Vane Springs	Stainless Steel	
Rotor	Sintered Iron	
Shaft and Pin Assembly	Steel	
Crank Arm	Zinc Plated Steel	
Grip, Handle	Wood	
Pin, Handle	Steel	
Packing	Aramid Fiber/Graphite/Nitrile	
Packing Nut	Acetal Homopolymer	
Head Gasket 210A	Paper	
Head O-Ring 414B	Buna-N	
Capscrews	Steel	
Jam Nut	Zinc Plated Steel	
AT, BR(F), and DP(F) Models		
Discharge Spout	Zinc Plated Steel	
Suction Pipe AT, BR, DP	Galvanized Steel or Zinc Plated Steel	Telescoping Pipe: Galvanized Steel/ Aluminum with Buna-N or EPR or FKM
BRF and DPF	Telescoping Pipe with Screen: Galvanized Steel/Aluminum with Buna-N O-rings	Solvent O-ring Kit contains EPR and FKM O-rings
Bung Adaptor	Aluminum	
Bushing	Galvanized Iron	
Tank Washer	Buna-N	
BR(F) Only Models		
Hose BR models	Buna Liner/Neoprene* Cover	Nylon Liner/Neoprene Cover
	Buna Liner/Neoprene* Cover with Anti-static wire	
Nozzle	Aluminum	
Nozzle Hanger	Aluminum	
Hose Adaptor	Galvanized Steel	
Vacuum Breaker Assembly	Brass/Stainless Steel	
DP(F) Only Models		
Drip Pan Assembly	Cast Iron with Zinc Plated Steel/Brass fittings	

^{*} On Buna Lined hoses, cover may be Neoprene, Buna, or Hypalon at Blackmer's discretion.

PART NAME	STANDARD MATERIALS	AVAILABLE OPTIONS		
807 and 828 Models				
Cover, Head	Cast Iron			
Gasket, Head Cover	Fiber			
Large Gear	Cast Iron			
Small Gear	Steel			
Pinion	Steel			
Lip Seal	Buna-N			
Washer	Copper			
Oil Cup	Steel			
Key	Steel			
Grove Pin	Steel			

IN-LINE (STYLE PA) PUMP BODY PORT CONNECTIONS

PUMP SIZE	STANDARD	OPTIONAL
210	3⁄4" NPT	
414	1 ¼" NPT	
807	1 ¼" NPT	
828	1 ¼" NPT	

OPERATING LIMITS

		STANDARD MATERIALS	OPTIONAL MATERIALS	
	Maximum Temperature	250°F (120°C)		
	Minimum Temperature	-25°F (-31°C)		
Maximum Viscosity	210A	2,000 SSU (420 cP)		
	414B	10,000 SSU (2,200 cP)		
	807B	30,000 SSU (6,300 cP)		
	828B	5,000 SSU (1,050 cP)		
Maximum Pressure	210A	10 PSI		
	414B	20 PSI		
	807B	40 PSI		
	828B	10 PSI		

Centipoise (cP) = centistokes (cSt) at fluid specific gravity of 1.0.

