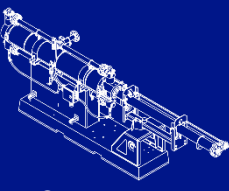


MPTP50-HV **Multiphase Transfer Pump – 50hp High Volume**

 <p>Compressor</p>	Type	Hydraulic drive low speed reciprocating multiphase pump			
	Capacity Control	Automatic by PLC, 100% turndown			
	Wiring	Class 1 Div 2 Hazardous location			
	Piping	SA-106B Threaded spools			
	Max Discharge Pressure	1100 psi std / 1500 optional		7600 / 10,300 kPa	
	Max Design Discharge Temperature	400°F		200°C	
		Low pressure pump		Very high pressure pump	
	Max ΔP	85 psi	586 kPa	175 psi	1206 kPa
Max Continuous Liquid Flow	6680 bbl/d	1062 m ³ /day	3396 bbl/d	540 m ³ /day	

<p>Hydraulic Power Pack</p>	Driver	50 hp 3 phase TEFC electric motor		
	Pump	Internal Gear		
	Hydraulic Oil Filter	6 Micron		
	Oil Capacity	69 gal / 260 L		
	Cooling	Finned tube, fan-cooled		
	Oil Temperature Control	Automatic: warm-up, air intake louver, cold-start protection		
	Wiring	General purpose (remote from compressor)		

<p>Controls and Instrumentation</p>	System Control	PLC with data logging
	Readout	PLC hosted wifi with web browser HMI
	Web Enabled Remote Monitoring	Cellular Network IOT system

<p>Alarms and Shutdowns</p>		Alarm	Shutdown
	Suction Pressure Low	✓	
	Discharge Pressure High	✓	
	Differential Pressure High	✓	
	Discharge Temperature High	✓	
	Hydraulic Oil Temperature Low	✓	
	Hydraulic Oil Temperature High	✓	✓
	Hydraulic Oil Leak	✓	✓
	Hydraulic Oil Level Low	✓	✓
	Hydraulic Oil Filter High ΔP	✓	
Motor Overload		✓	
ESD		✓	

<p>Weight and Dimensions</p>	Compressor on Concrete Slab	4550 lb / 2064 kg	172" x 25" / 437 cm x 64 cm
	Power Pack	2750 lb / 1247 kg	103" x 53" / 262 cm x 135 cm
	Inlet Connector	3" #600 Flange	2" Hose available
	Discharge Connector	3" #600 Flange	2" Hose available

Key Features	Options
<ul style="list-style-type: none"> No operator setup or adjustment required Minimum moving parts, minimum maintenance Self-start/auto restart after power outage Call system allows instant notification of shutdowns No process valves Liquid fractions from 0 - 100% 100% turndown Seals easily replaced on site; no additional lifting equipment required for servicing Piping for corrosive gas 	<ul style="list-style-type: none"> High discharge pressure transmitter Hydraulic heat trace

14" High Volume Multiphase Transfer Pump 50hp Projected Performance

		Discharge						
		80	100	120	140	160	180	200
Suction		552	689	827	965	1103	1241	1379
	10	262	206	164	155	123	117	
	69	7.5	5.9	4.7	4.4	3.5	3.4	
	15	328	299	240	196	156	149	
	103	9.4	8.5	6.8	5.6	4.4	4.3	
	20	396	362	290	236	190	180	
	138	11.3	10.3	8.3	6.8	5.4	5.1	
	25	471	431	344	280	262	214	202
172	13.5	12.3	9.8	8.0	7.5	6.1	5.8	
30	536	502	400	320	303	246	234	
207	15.3	14.4	11.4	9.2	8.6	7.0	6.7	
35	603	577	516	417	343	279	268	
241	17.2	16.5	14.7	11.9	9.8	8.0	7.7	
40	669	648	585	473	388	314	299	
276	19.1	18.5	16.7	13.5	11.1	9.0	8.5	

* Projected performance based on elevation 2500ft, gas density .66, temp 68°F

Hyd. Pump Pressure Range	Recommended Maximum Liquid Flow		Maximum ΔP	
	m3/d	bpd	psi	kPa
Very High	540	3396	175	1206
High	680	4275	135	930
Medium	848	5333	110	758
Low	1062	6680	85	586

Increased liquid flow will reduce gas capacity – contact Compact Compression for a specific estimate based on expected operating conditions. Pumps can be replaced in the field to optimize for changes in operating conditions.