

**P3 Series High Flow Chemical Injection/Pressure Test Skids Data Sheet Model Numbers:**

**P3-20-DA-SK (MWP 20,000 psig) P3-28-DA-SK (MWP 11,850 psig) P3-40-DA-SK (MWP 5,750 psig)**

The P3 series skids are heavy duty chemical injection/pressure test units. P3 series skids are modular in design to incorporate any one of the three available P3 pump units in the range regardless of the pressure and flow making it a versatile and cost effective skid & pump package.

P3 series skids are available in three different pump models, 20mm, 28mm & 40mm to provide a wide range of pressures and flows up to 20,000 psig.

The P3 pump utilises a common air motor, shuttle valve assembly, hydraulic section housings and check valves and has been designed to be modular using interchangeable inserts, pistons and components permitting the pump to be economically reconfigured to either the 20mm, 28mm or 40mm model for different pressures and flows within a short period of time.

All P3 series pumps are CE marked, ATEX compliant (94/9/EC) hII 2 Gc T5 x & NACE compliant as standard and suitable for H2S fluid service.

**Skid Overview Standard Sale/Rental Build Unit:**

<b>Frame Construction:</b>	316 stainless steel 30x30x2mm box section frame, forklift pockets, drip tray, four tie down points, Two earth bonding points, 2mm SS control panel with engraved P&ID, SS wheels fitted for better portability.		
<b>Pump Selection:</b>	CP-P3-20-D, MWP 20,000 psig or CP-P3-28-D MWP 11,850 psig or CP-P3-40-D, MWP 5,750 psig		
<b>Air Drive:</b>	1" NPT SS (F) bulkhead, Norgren series 68 FRL c/w ball valve (start/stop/throttle), Norgren pilot air filter, pneumatic panel mounted stroke counter, Stewart 63mm filled ss panel mounted pressure gauge, 1" SS interconnecting fittings.		
<b>Fluid Inlet:</b>	1" NPT SS (F) bulkhead, Hylok 1" OD SS isolation valve, 50 mesh SS Y strainer, 1" OD (0.065") SS pipework and interconnecting fittings.		
<b>Fluid Discharge:</b>	9/16" MP SS (F) bulkhead, Swagelok 9/16" MP SS isolation valve, Hylok 9/16" MP SS non return valve, BIS 3/8" MP SS adjustable PRV, Stewart 100mm SS filled panel mounted pressure gauge, Swagelok 9/16" MP SS vent valve, interconnecting 9/16" MP SS pipework & fittings.		
<b>Total Net Weight:</b>	166.5Kg	<b>Maximum Noise Level:</b>	95 db

**Skid connection sizes:**

<b>Air Inlet:</b>	1" NPT (F) Bulkhead	<b>Fluid Inlet:</b>	1" NPT (F) Bulkhead	<b>Fluid Discharge:</b>	9/16" MP (F) Bulkhead
<b>System Vent:</b>	3/8" NPT (F) Bulkhead	<b>PRV Vent:</b>	3/8" NPT (F) Bulkhead		

**Pump Performance:**

<b>Max Pump Air Supply</b>	100 psig	<b>Max Pilot Air Supply:</b>	100 psig
<b>Max Air Consumption:</b>	250 scfm	<b>Air Quality Required:</b>	Cooled & dry plant air
<b>Pump Ratio:</b>	20mm: 233 - 1	28mm: 118.4 - 1	40mm: 57.5 - 1
<b>Max Discharge Pressure Static:</b>	20mm: 20,000 psig	28mm: 11,850 psig	40mm: 5,750 psig
<b>Discharge Volume per Stroke:</b>	20mm: 61.5cc	28mm: 120.6cc	40mm: 246.2cc
<b>Max Discharge Flow @ 0 psig:</b>	20mm: 8.6 ltr/min	28mm: 16.0 ltr/min	40mm: 32.5 ltr/min

**General Arrangement Drawing:**

