



P4 Series chemical injection/pressure testing skids data sheet model numbers:

P4-8-DA-SK (MWP 30,000 psig)
P4-10-DA-SK (MWP 25,000 psig)
P4-14-DA-SK (MWP 10,000 psig)

The P4 series skids are heavy duty chemical injection/pressure testing units. P4 series skids are modular in design to incorporate any one of the three available P4 pump units in the range regardless of the pressure and flow making it a versatile and cost effective skid & pump package.

P4 series skids are available in three different pump models, 8.8mm, 10mm & 14.5mm to provide a wide range of pressures and flows up to 30,000 psig.

The P4 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 8.8mm, 10mm or 14.5mm model for different pressures and flows within a short period of time.

All P1 series pumps are CE marked, ATEX compliant (94/9/EC) h II 2Gc T5 x & NACE compliant as standard and suitable for H2S fluid service.

Skid Overview Standard Sale/Rental Build Unit:

Frame Construction	316 stainless steel 30x30x2mm box section frame, drip tray, four tie down points, Two earth bonding points, 2mm SS control panel with engraved P&ID, SS wheels for better portability.
Pump Selection	CP-P4-8.8-D, (30,000 psi) or CP-P4-10-D (25,000 psi) or CP-P4-14-D, (10,000 psi)
Air Drive	1/2" NPT SS (F) bulkhead, Norgren series 64 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, 1/2" SS interconnecting fittings.
Fluid Inlet	1/2" NPT SS (F) bulkhead, Hylok 1/2" OD SS isolation valve, 50 mesh SS Y strainer, 1/2" OD (0.064") SS pipework and interconnecting fittings.
Fluid Discharge	(10mm & 14.5mm plunger): 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. (8.8mm 30,000 psi): 3/8" HP SS female bulkhead, Swagelok 3/8" HP SS isolation valve, Hylok 3/8" HP SS non return valve, 3/8" HP SS adjustable PRV, Stewart 100mm SS filled panel mounted pressure gauge, Swagelok 3/8" HP SS vent valve, interconnecting 3/8" HP SS pipework & fittings.
Total Net Weight	93/96Kg
Maximum Noise Level	95 db

Skid Connection Sizes:

Air Inlet	1/2" NPT (F) Bulkhead
Fluid Inlet	1/2" NPT (F) Bulkhead
Fluid Discharge	9/16" MP (F) Bulkhead
System Vent	3/8" NPT (F) Bulkhead
PRV Vent	3/8" NPT (F) Bulkhead
Fluid Discharge:	3/8" HP (F) 30k psi skid

Pump Performance:

Max Pump Air Supply	100 psig		
Max Pilot Air Supply	100 psig		
Max Air Consumption	105 scfm		
Air Quality Required	Cooled & dry plant air		
Pump Ratio	8.8mm: 321 - 1	10mm: 250 - 1	14.5mm: 118 - 1
Max Discharge Pressure Static	8.8mm: 30,000 psig	10mm: 25,000 psig	14.5mm: 10,000 psig
Discharge Volume per Stroke	8.8mm: 3.5cc	10mm: 7cc	14.5mm: 14cc
Max Discharge Flow @ 0 psig	8.8mm: 1.5 ltr/min	10mm: 3.1 ltr/min	14.5mm: 6.3 ltr/min

General Arrangement Drawing:

