

Pipeline Service Compressor (PSC)

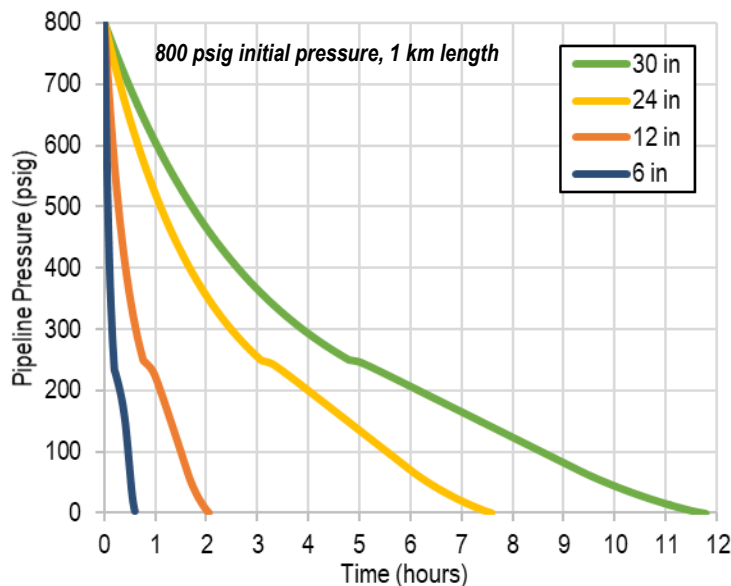


The PS175 Pipeline Service Compressor is a 2-stage (reciprocating and rotary screw) natural gas compressor for evacuating natural gas pipelines with pressures up to 1,200 psi (8,275 kPa). Isolated sections of pipeline are evacuated and discharged into an adjacent section of pipeline.

The PS175 compressor completely eliminates flaring, venting and the associated environmental impacts while conserving saleable natural gas. As gas is not released during the evacuation process, the compressor can be operated in built up and urban areas, reducing the length of pipeline isolation required and allowing for faster service with less disruption to customers.

Trailer mounted and engine powered from pipeline gas, performance can be monitored remotely with real-time status on any web-enabled device. Operation is fully PLC controlled and automated based upon user configured parameters and setpoints.

Time to evacuate various pipeline diameters



Applications

- Gas pipeline evacuation
- Inline Inspections
- Maintenance and Repair
- MAOP testing
- Pig pushing
- Pressure boosting
- Decommissioning

Standard Features

- 2-stage compression for ΔP up to 900 psi (6,200 kPa)
- Natural Gas powered; no external fuel or power source required
- Rapid setup and breakdown
- Aftercooler limits discharge temperature to protect plastic / composite pipe
- Intuitive web browser based HMI
- Fully controllable based on user parameters and stop conditions
- Automatic operation and remote monitoring capability allowing unsupervised operation
- EPA / CARB Certified Natural Gas engine

Benefits

- Energy savings and conservation of gas
- Completely eliminate flaring and venting
- Minimize CO₂ and methane emissions
- Reduce isolated pipeline pressure to 0 psig
- Ability to reach vacuum pressure of -3.0 psig
- Able to locate in urban areas to minimize service disruption
- Alternative to nitrogen displacement
- Inline compressors can remain in operation

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Performance Chart

DISCHARGE PRESSURE Max ΔP: 900 psi / 6205 kPa									
SUCTION PRESSURE	PSI	300	400	500	600	700	800	900	1000
	kPa	2070	2760	3445	4135	4825	5515	6205	6895
	100	885	818	745	744	677	660	630	
	690	25.1	23.2	21.1	21.1	19.2	18.7	17.8	
	200	1535	1391	1256	1130	1017	660	630	787
	1380	43.5	39.4	35.6	32.0	28.8	18.7	17.8	22.3
	300	2530	2372	2222	2081	1946	1817	1691	1577
	2070	71.6	67.2	62.9	58.9	55.1	51.5	47.9	44.7
	400		3389	3227	3075	2929	2788	2652	2310
	2760		96.0	91.4	87.1	82.9	78.9	75.1	65.4
500			4276	4113	3957	3807	3662	2934	
3445			121.1	116.5	112.0	107.8	103.7	83.1	
600				5210	5044	4885	4731	3818	
4135				147.5	142.8	138.3	134.0	108.1	
700					6168	6001	5840	5051	
4825					174.7	169.9	165.4	143.0	
800						7153	6984	6820	
5515						202.6	197.8	193.1	
900							8192	8008	
6205							232.0	226.8	
1000								9191	
6895								260.2	

Projected Performance based on 2500 ft, gas density .665, temp 68°F – Flow Rates in **mscfd** e3m3/day . Dual stage operation. Steady state flow rate. Flow rate reduces with pipeline pressure during evacuation.

*Contact Compact Compression for applications over 1000 psig.