

TECHNOLOGICAL EQUIPMENT FOR PUMPING GAS

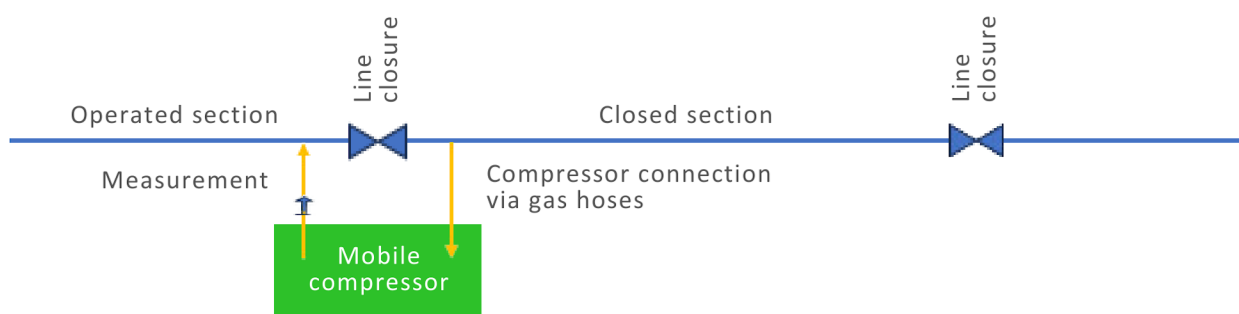
GASCONTROL, společnost s r.o., owns a mobile compressor for pumping natural gas during planned reconstructions and repairs of high-pressure gas pipelines.

Basic characteristics

Application	Pumping natural gas from closed sections of high-pressure gas pipelines to the operated part of a gas facility.
Description	The equipment for pumping gas from a closed section of a high-pressure gas pipeline consists of a high-pressure compressor by Fornovo Gas S.p.A., an Italian manufacturer, including a mobile cooler, a measuring set and an electrical control room. The equipment is transported by a truck with a trailer and a van with a trailer. The installation of technology on the pumping site is resolved individually.
Working fluid	Natural gas
Installation	The mobile compressor is connected to the gas facility using high-pressure, DN80 hoses. The compressor outlet is also equipped with a measuring set that records pressure, temperature and quantity of pumped gas. The connection on the site is resolved individually. The most frequent connection method includes gas blow-off of the line closure bypass. Other versions include blow-off / independent adapting piece or independent adapting piece / closing tower. The adapting piece is installed on the gas facility where it is drilled under full pressure. When pumping is completed, it is closed off with a stopper and a blanking flange.
Input pressure	1,7 - 25 bar
Output pressure	up to 60 bar
Outlet gas temperature	up to 50° C
Medium flow rate	2000 m3/h
Engine power	160 kW
Compressor drive	Diesel generator
Acoustic output level	85 dB(A)



Connection diagram



GASCONTROL, společnost s r.o.
Dělnická 883/46
735 64 Havířov
Prostřední Suchá, CZECHIA
T: +420 596 496 411
E: gascontrol@gascontrol.cz
www.gascontrol.cz

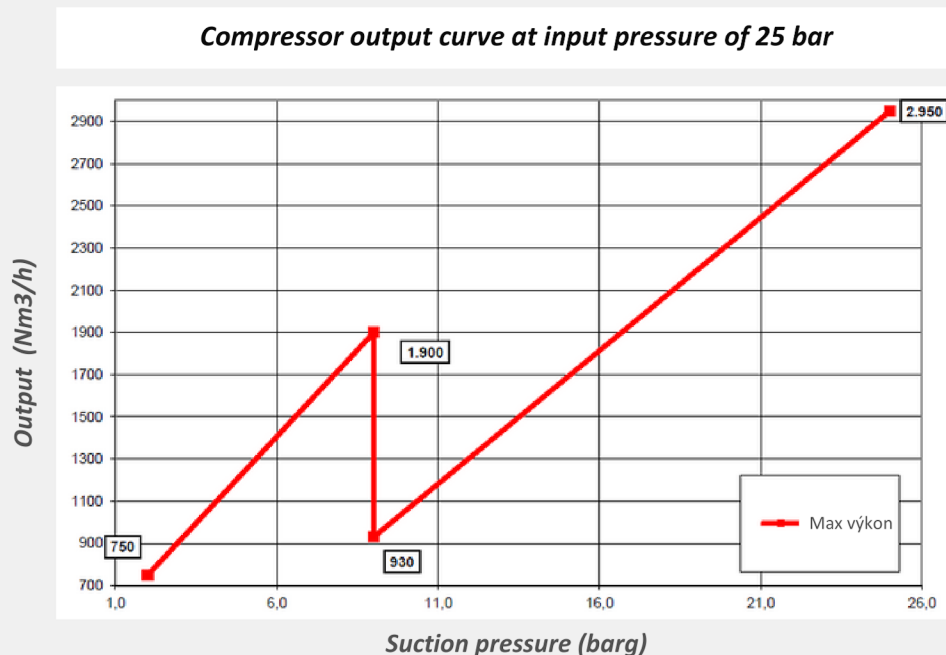
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Responsible person:
Radim Mucha
Special Works Manager
T: +420 724 136 724
E: mucha@gascontrol.cz

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A practical example:

When the technology was used during a shut-down of a high-pressure, DN 500 gas pipeline at a length of 9,290 metres, 40,000 m³ of natural gas were pumped for 20 hours, which corresponds to 432 MWh.



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