



东莞赛森特流体控制设备有限公司

Dongguan Suncenter Fluid Control Equipment Co., Ltd

Pneumatic (Air compressor driven) gas booster pump system



Dongguan Suncenter Fluid Control Equipment Co., Ltd is the member company of Suncenter Group, which is located in Dongguan city of Guangdong province in China. With more than 15 years experiences in fluid pressure exchange and controlling field, we provide various kinds of pneumatic and hydraulic booster pumps, systems and solutions to the customers all over the world. Due to our best product quality, competitive price as well as excellent after-sales service, we have win a great reputation in the field.

Our main products including:

High Pressure Booster Pumps (Gas Booster Pump, Air Driven Liquid Pump, Air Amplifiers)

High Pressure Systems (Gas/Liquid Booster System,Hydro test bench,Chemical injection system,CO2/FM200 filling machine, Tube Expanding Machine)

High Pressure Test Equipment(Hydraulic/Burst/Hydrostatic test machine,Cylinder test machine, Valve test bench,Impulse Testing Machine, etc.)

Product Application

Oil Industry, Gas Industry, Chemical Industry, Fire Fighting, Research Institutions etc.

Our service

13 months' free warranty since the purchasing date and free technical support during lifetime



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Suncenter - Gas booster systems are compact and delicacy solution tailored to customer specific requirements with gas boosters as well as all accessories to be fitted and installed in the frame or a closed cabinet.

To operate this system, the pressure gauges, valves and pressure regulators have to be fitted on panels. The outlet pressure is easily to be set through a simple air regulator.

The pump stops automatically when this end pressure is reached and restarts with a slight drop in the outlet pressure or an increase in the air drive pressure.

Suncenter - Pneumatic booster system are used for oil free compression of clean shop air as well as industrial gases like Argon, Helium, Oxygen, Hydrogen and Nitrogen,CO₂, etc..Driven air from 3 bar to 8 bar (from air compressor).

Operating pressure up to 160 MPa, for higher pressure, pump with double driven heads is an ideal option.

Applications

- Pressure test with gas
- Gas transfer and filling
(Argon/Helium/Hydrogen/Oxygen/Nitrogen/CO₂/NO₂/CH₄/LNG/LPG/CNG/FM200 etc.)
- Charging of gas cylinder and accumulator with nitrogen
- Supply for isolating gas systems
- Gas assisted injection molding
- Transfer of oxygen cylinders
- Charging of breathing air bottles
- Leak test
- Hydrostatic Testing for valves, tanks, pressure vessels, pressure switches, hoses, pipes and tubing, pressure gauges, cylinders, transducers, well casings, BOPs, gas bottles and air craft components
- Safety valve adjusting



Suncenter DGS Series Pneumatic (Air driven) Gas Booster System

For the gas booster filling/test station, we have three different cabinet design for choosing



Model A
closed type with
carbon steel material

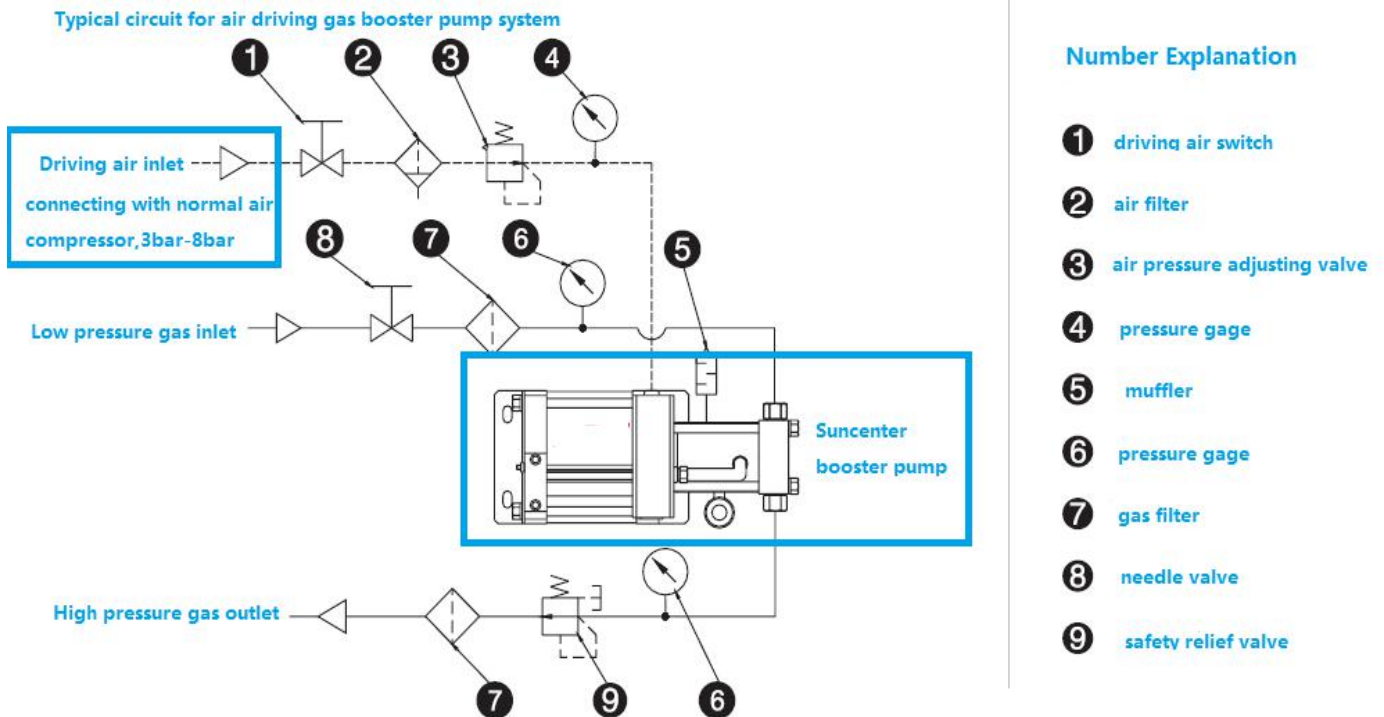


Model B
closed type with
stainless steel material



Model C
frame type with
stainless steel material

DGS gas booster system = booster pump+ following valves, gages, and parts





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The hottest selling- model A and model C cabinet picture



The standard gas booster system including following parts:

Air –driven gas booster pump (DGA/DGD/DGT three series for choosing)

Stainless steel (carbon steel) material cabinet (Three models for choosing)

F.R.L combination for driven air (adjusts air pressure, add lubricating oil and water filter)

Driven air switch (Pump starting switch), driven air pressure gauge

Gas inlet switch, Gas inlet pressure gauge

Gas outlet switch, Gas outlet pressure gauge, unloading valve, interconnecting pipes etc.

And we could also customize it according to clients' special requirement.



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Technical specification for DGS-DGA Series:

(Note: P_L : driven air pressure P_A : gas inlet pressure P_B : gas outlet pressure)

Model	Pressure boost ratio	Min. gas Inlet pressure P_A (bar)	Max.gas Inlet pressure P_A (bar)	Max. gas outlet pressure P_B (bar)	Driven air pressure P_L	Formula to calculate gas outlet pressure P_B	Connection: Gas Inlet / Gas outlet (NPT thread)	Max. flow at driven air pressure of 6bar (L/min)
DGS-DGA02	2: 1	1.0	16	16	2bar-8 bar	$2X P_L$	1/2 / 1/2	960 (at P_A of 6 bar)
DGS-DGA05	5: 1	0	40	40	2bar-8 bar	$5XP_L$	1/2 / 1/2	680(at P_A of 6 bar)
DGS-DGA06	6: 1	2.0	48	48	2bar-8 bar	$6XP_L$	1/2 / 1/2	360(at P_A of 10 bar)
DGS-DGA10	10: 1	3.5	80	80	2bar-8 bar	$10XP_L$	3/8/ 3/8	210(at P_A of 10 bar)
DGS-DGA15	15: 1	3.5	120	120	2bar-8 bar	$15XP_L$	3/8/ 3/8	190(at P_A of 10 bar)
DGS-DGA25	25: 1	7.0	200	200	2bar-8 bar	$25XP_L$	1/4/ 1/4	120(at P_A of 20 bar)
DGS-DGA40	40: 1	10	320	320	2bar-8 bar	$40XP_L$	1/4/ 1/4	200(at P_A of 40 bar)
DGS-DGA60	60: 1	20	480	480	2bar-8 bar	$60XP_L$	1/4/ 1/4	180(at P_A of 40 bar)
DGS-DGA100	100: 1	25	800	800	2bar-8 bar	$100XP_L$	1/4/ M14X1.5	136(at P_A of 40 bar)



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Technical specification for DGS-DGD Series:

(Note: P_L: driven air pressure P_A: gas inlet pressure P_B: gas outlet pressure)

Model	Pressure boost ratio	Min. gas Inlet pressure P _A (bar)	Max.gas Inlet pressure P _A (bar)	Max. gas outlet pressure P _B (bar)	Driven air pressure P _L	Formula to calculate gas outlet pressure P _B	Connection: Gas Inlet / Gas outlet (NPT thread)	Max. flow at driven air pressure of 6bar (L/min)
DGS-DGD10	10:1	3.5	80	80	2bar-8 bar	10XPL+ PA	3/8/3/8	410(at PA of 6 bar)
DGS-DGD15	15:1	5	120	120	2bar-8 bar	15XPL+ PA	3/8/3/8	350 (at PA of 6 bar)
DGS-DGD25	25:1	10	200	200	2bar-8 bar	25XPL+ PA	1/4/1/4	396(at PA of 20 bar)
DGS-DGD40	40:1	15	320	320	2bar-8 bar	40XPL+ PA	1/4/1/4	320(at PA of 40 bar)
DGS-DGD60	60:1	25	480	480	2bar-8 bar	60XPL+ PA	1/4/1/4	215(at PA of 40 bar)
DGS-DGD100	100:1	35	800	800	2bar-8 bar	100XPL+ PA	1/4/M14*1.5	300(at PA of 60 bar)
DGS-DGD120	120:1	50	960	960	2bar-8 bar	120XPL+ PA	1/4/M14*1.5	180(at PA of 60 bar)
DGS-DGD200	200:1	200	1600	1600	2bar-8 bar	200XPL+ PA	1/4/M14*1.5	400(at PA of 200 bar)



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Technical specification for DGS-2DGD Series:

(Note: P_L : driven air pressure P_A : gas inlet pressure P_B : gas outlet pressure)

Model	Pressure boost ratio	Min. gas Inlet pressure P_A (bar)	Max.gas Inlet pressure P_A (bar)	Max. gas outlet pressure P_B (bar)	Driven air pressure P_L	Formula to calculate gas outlet pressure P_B	Connection: Gas Inlet / Gas outlet (NPT thread)	Max. flow at driven air pressure of 6bar (L/min)
DGS-2DGD10	10:1	3	80	80	2bar-8 bar	$10XPL + P_A$	1/2 / 1/2	980(at P_A of 6 bar)
DGS-2DGD25	25:1	6	200	200	2bar-8 bar	$25XPL + P_A$	3/8 / 3/8	560(at P_A of 10 bar)
DGS-2DGD40	40:1	25	320	320	2bar-8 bar	$40XPL + P_A$	3/8 / 3/8	480(at P_A of 40 bar)
DGS-2DGD60	60:1	30	480	480	2bar-8 bar	$60XPL + P_A$	3/8 / 3/8	320(at P_A of 40 bar)



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Technical specification for DGS-DGT Series:

(Note: P_L : driven air pressure P_A : gas inlet pressure P_B : gas outlet pressure)

Model	Pressure boost ratio	Min. gas Inlet pressure P_A (bar)	Max. gas Inlet pressure P_A (bar)	Max. gas outlet pressure P_B (bar)	Driven air pressure P_L	Formula to calculate gas outlet pressure P_B	Connection: Gas Inlet / Gas outlet (NPT thread)	Max. flow at driven air pressure of 6bar (L/min)
DGS-DGT15	15:1	0.1	56	120	2-8 bar	15XPL	3/8/ 1/4	230(at P_A of 8 bar)
DGS-DGT25	25:1	0.1	10	200	2-8 bar	25XPL	3/8/ 1/4	156(at P_A of 8 bar)
DGS-DGT7/25	25:1	5	56	200	2-8 bar	25XPL	3/8/ 1/4	156(at P_A of 8 bar)
DGS-DGT40	40:1	0.1	10	320	2-8 bar	40XPL	3/8/ 1/4	124(at P_A of 8 bar)
DGS-DGT15/40	40:1	5	120	320	2-8 bar	40XPL	3/8/ 1/4	124(at P_A of 8 bar)
DGS-DGT60	60:1	0.1	10	480	2-8 bar	60XPL	3/8/ 1/4	80(at P_A of 15 bar)
DGS-DGT15/60	60:1	6	120	480	2-8 bar	60XPL	3/8/ 1/4	80(at P_A of 15 bar)
DGS-DGT100	100:1	0.1	10	800	2-8 bar	100XPL	3/8/ 1/4	63(at P_A of 8 bar)
DGS-DGT120	120:1	0.1	10	960	2-8 bar	120XPL	1/4/M14*1.5	50(at P_A of 8 bar)



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Technical specification for DGS-2DGT series:

(Note: P_L : driven air pressure P_A : gas inlet pressure P_B : gas outlet pressure)

Model	Pressure boost ratio	Min. gas Inlet pressure P_A (bar)	Max.gas Inlet pressure P_A (bar)	Max. gas outlet pressure P_B (bar)	Driven air pressure P_L	Formula to calculate gas outlet pressure P_B	Connection: Gas Inlet / Gas outlet (NPT thread)	Max. flow at driven air pressure of 6bar (L/min)
DGS-2DGT7/15	15:1	4	56	120	2bar-8 bar	15XPL	3/8 / 3/8	430(at P_A of 10 bar)
DGS-2DGT7/25	25:1	5	56	200	2bar-8 bar	25XPL	3/8 / 3/8	300(at P_A of 10 bar)
DGS-2DGT15/40	40:1	7	120	320	2bar-8 bar	40XPL	3/8 / 3/8	180(at P_A of 10 bar)
DGS-2DGT15/60	60:1	7	120	480	2bar-8 bar	60XPL	3/8 / 3/8	120(at P_A of 10 bar)

Note: P_L : driven air pressure P_A : gas inlet pressure P_B : gas outlet pressure

In order to extend the lifetime of the pump, the driven air pressure should not be higher than 8 bar

Suncenter gas booster system working circuit

For gas transfer/filling/recovery or high pressure gas test

