

RESATO增压泵

产品名称	RESATO增压泵
公司名称	深圳市迪帕科技有限公司
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产品详情

我公司为荷兰RESATO中国大陆独家代理商，产品包括气用增压泵、液用增压泵、高压管阀、压力表、圆盘记录仪、高压快速接头等。

Resato offers a complete range of single and double acting pumps. The single acting pumps have one air piston and one high-pressure piston. The double acting pumps have one air piston and two high-pressure pistons. Because of the two pressure strokes, double acting pumps give a more continuous flow and pressure. Compared with a single acting pump, a double acting pump has almost half the air consumption for the same fluid flow. The air piston of the single acting and double acting pump have the same diameter. However, the diameter of the hydraulic piston varies and determines the ratio of the pump: a higher ratio means a higher outlet pressure but a smaller flow. For both single and double acting pumps Resato offers 10 different ratios for the P160 range and 9 different ratios for the P200 range. Thus, we can offer you a choice of 20 Resato P160 pumps and 18 Resato P200 pumps.

Resato提供完整系列的单作用和双作用泵。单作用泵具有一个空气活塞和一个高压活塞。双作用泵具有

一个空气活塞和两个高压活塞。由于两个压力冲程，双作用泵提供更连续的流量和压力。与单作用泵相比，双作用泵具有相同流体流量的几乎一半的空气消耗。单作用和双作用泵的空气活塞具有相同的直径。然而，液压活塞的直径变化并且确定泵的比率：较高的比率意味着较高的出口压力，但是较小的流量。对于单作用和双作用泵，Resato为P160系列提供10种不同的传动比，为P200系列提供9种不同的传动比。因此，我们可以为您提供20个Resato P160泵和18个Resato P200泵的选择。

WHY USE AN AIR-DRIVEN PUMP

Compressed air used as a power drive offers enormous advantages over use of other power drives: risks of excessive heat, flame, spark or shock are reduced considerably. Apart from that, both output pressure and flow can be controlled by simply regulating the air drive pressure of the air-driven pump. Varying the air inlet pressure will automatically and accurately adjust the hydraulic output pressure.

The cycling speed is at a maximum when the outlet pressure is low. As the outlet pressure builds up, the cycling speed is reduced until a stall condition is reached at the desired outlet pressure. The stall pressure can be held without any further use of energy. Other gases such as nitrogen or CO₂ can be used as alternatives to drive the pump.

Resato air-driven pumps are simple to install, they are compact and very quick and easy to maintain.

用作动力驱动器的压缩空气提供了超过使用其他动力驱动器的巨大优势：过热，火花，火花或冲击的风险显著降低。因此，输出压力和流量可以通过简单地调节空气气动泵的驱动压力。改变空气入口压力将自动和准确地调节液压输出压力。

当出口压力低时，循环速度最大。随着出口压力增加，循环速度降低，直到在期望的出口压力下达到失速条件。失速压力可以在没有任何进一步使用能量的情况下保持。其它气体如氮气或CO₂可以用作驱动泵的替代物。

Resato气动泵的安装简单，紧凑，非常快速和易于维护。

PRINCIPLE OF RESATO AIR-DRIVEN Liquid PUMP

Resato air-driven pumps operate on the simple but efficient principle of an automatic reciprocating differential area piston. A relatively large air-operated piston (160 mm for the P160 pump range and 200 mm for the P200 pump range) is connected to a smaller high-pressure piston to convert compressed air flow into fluid flow at high pressure.

液体增压泵工作原理：

Resato气动泵采用简单而有效的自动往复差速区活塞原理。一个相对较大的气动活塞（P160泵范围为160 mm，P200泵范围为200 mm）连接到较小的高压活塞将压缩空气流转换成高压流体流。

特点：

气驱液体增压泵的输出压力可高达72500Psi(5000Bar)，工作介质可为水，油及大部分化学腐蚀性液体。

增压泵结构简单，效率高，与其他液压泵比较，它更能为许多工业及研究场所降低胃肠成本，节约能源。

该泵采用气体驱动，无电弧及火花，因此可在例如防爆要求高的场所使用。

应用范围：

RESATO泵广泛应用于航空，能源，汽车，土木，化工，消防，海洋，油田等工业以及研究测量行业

气体增压泵：

PRINCIPLE OF RESATO AIR-DRIVEN GAS BOOSTERS

Resato air-driven boosters operate on the simple but efficient principle of an automatic reciprocating differential area piston. A relatively large air-operated drive piston (160 or 200 mm) directly coupled by a connecting rod to a small gas piston that operates in a high pressure gas cylinder section, converts compressed air flow into high pressure gas flow. Each gas cylinder end contains high-pressure inlet and outlet check valves. The air drive section is fitted with the unique Resato air-operated cycling valve that has no mechanical pilot valves, ensuring low noise operation.

Cooling of the high-pressure gas cylinder section of the booster takes place by routing the cold exhausted drive air through a jacket surrounding the gas cylinder and, with the two-stage model, through an intercooler on the interstage line. This also significantly improves overall efficiency

Resato空气驱动增压器采用简单而高效的自动往复差速区活塞原理。通过连杆直接连接到在高压气缸部分中操作的小气体活塞的相对大的空气驱动的驱动活塞（160或200mm）将压缩空气流转换成高压气体流。每个气缸端包含高压入口和出口止回阀。空气驱动部分装有独特的Resato气动循环阀，没有机械导向阀，确保低噪音运行。

增压器的高压气体气缸部分的冷却通过将冷的排出的驱动空气穿过围绕气体气缸的护套并且利用两级模型通过中间冷却器在中间级线路上进行。这也显著提高了整体效率

INTRODUCTION

Resato offers a complete range of single, double acting and two-stage gas boosters. The boosters are available in various ratios. The higher the ratio the higher the output

pressure of the booster. Single acting boosters only have one gas cylinder. Double acting boosters have two identical gas cylinders for a higher output flow. For higher compression ratios, e.g. relative high output pressure at relative low inlet pressure, two-stage boosters are used. These boosters have two different gas cylinders, each with a different ratio. The complete range is available in type B160 for normal flow rates and in type B200 for higher flow rates and higher pressures.

Resato gas boosters are suitable for transfer and pressurization of a wide range of gases, e.g. Nitrogen, Helium, CO₂, Argon and Breathing air. For use with other gases contact Resato for information on possible booster modifications and installation instructions.

Resato提供全系列的单，双作用和两级气体增压器。增强器有各种比例。比率越高，输出越高

单作用增压器只有一个气瓶。双作用增压器具有两个相同的气缸用于较高的输出流量。对于较高的压缩比，在相对低的入口压力下的相对高的输出压力，使用两级增压器。这些增压器具有两个不同的气瓶，每个气缸具有不同的比率。对于正常流量，B160型可提供完整的范围，对于更高的流量和更高的压力，B200型可提供完整的范围。

Resato气体增压器适用于大范围气体的传输和加压，例如。氮气，氦气，CO₂，氩气和呼吸空气。与其他气体一起使用时，请与Resato联系以获取关于可能的助力器改装和安装说明的信息。

WHY USE AN AIR-DRIVEN GAS BOOSTER

Compressed air used as a power drive offers enormous advantages over use of other power drives: risks of excessive heat, flame, spark or shock are reduced considerably. Apart from that, both output pressure and flow can be controlled by simply regulating the air drive pressure of the air-driven gas booster. Varying the air

inlet pressure will automatically and accurately adjust the output pressure. The cycling speed is at a maximum when the outlet pressure is low. As the outlet pressure builds up, the cycling speed is reduced until a stall condition is reached at the desired outlet pressure. The stall pressure can be held without any further use of energy.

Other gases such as nitrogen or CO₂ can be used as alternatives to drive the gas booster. Resato air-driven boosters are simple to install, they are compact and very quick and easy to maintain.

用作动力驱动器的压缩空气比使用其他动力驱动器具有巨大的优势：过热，火花，火花或冲击的风险显著降低。除此之外，输出压力和流量都可以通过简单地调节空气驱动的气体增压器的空气驱动压力来控制。改变空气

进口压力会自动精确调节输出压力。当出口压力低时，循环速度最大。随着出口压力增加，循环速度降

低，直到在期望的出口压力下达到失速条件。失速压力可以在没有任何进一步使用能量的情况下保持。

其它气体例如氮气或CO₂可以用作驱动气体增压器的替代物。

Resato空气驱动增压器安装简单，它们紧凑，非常快速和易于维护。

介质：空气，氮气，氦气，氩气，氧气，氢气，甲烷，天然气等大部分惰性气体

特点：

1、到达预定压力后即自动停机，不再消耗多余能量

2、不会有火花和火焰危险，安全防爆

3、线性输出，易于实现人工或自动控制

4、高达2690bar(269MPa)的最高输出压力

应用：

阀门，管件，压力容器等提供静压和爆破测试

航空航天高压附件维修后的气压静压，动态测试

安全阀校定

阀门及井口装置气密试验

气体调压阀的高气压检测

汽车制动系统及管路测试

通信电缆充气测试

飞机轮胎和蓄能器充填高压氮气

气体辅助注塑中高压氮气增压

超纯净气体增压（如 CO₂超临界萃取）

稀有昂贵气体增压回收（如氦气回收等）

呼吸气输送与充气

呼吸气瓶灌充