



UNIVER MANUFACTURING COMPANY

PRESSURE BOOSTER



- └ 2:1 Pressure Ratio
- └ Low Operating Noise Level
- └ Poppet Valve Construction

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BR Series

PRESSURE BOOSTER - 2:1 Ratio



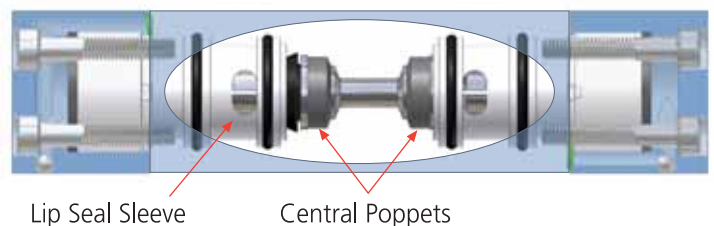
Features

└ Pressure Boost Ratio: 2 to 1

The UMC Pressure Booster is designed to double the amount of air pressure to the system. The Booster takes inlet pressure, which can be set using a conventional in-line pressure regulator, from 1.5 to 10bar, and converts the pressure to an outlet pressure of between 3 to 20bar, doubling the inlet pressure.

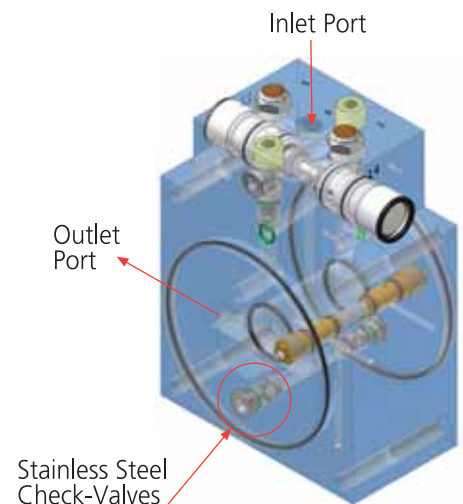
└ Noise Reduction

The main control valve utilises renowned "mixed spool" technology, patented by UMC, and comprises of two central Poppets and several Lip seals, which run within a technopolymer sleeve to form an integral part of the body. The central Poppets are manufactured from Polyurethane and are designed to act as a shock absorber, reducing noise levels to 12dBA and significantly enhancing operational life.



└ Durable Components

The integral check valves, which are constantly switching during operation, are susceptible to fatigue in conventional boosters. The UMC Booster incorporates stainless steel Check-Valves to enhance life expectancy of the mechanical components. The main control valve uses UMC "mixed spool" technology, so the valve can be operated with or without lubrication, providing 25 million operations when used under correct conditions.



GENERAL DESCRIPTION

BR series Pressure Boosters are used to boost pressure in specific areas within a factory which require a higher pressure than the compressor system can provide. The unit can be fitted quickly and easily into the airline to provide double the inlet pressure from the outlet port. The Booster can also be used to reduce machine dimensions by allowing smaller bore cylinders to be used at higher pressure to provide the same amount of force.

TECHNICAL INFORMATION

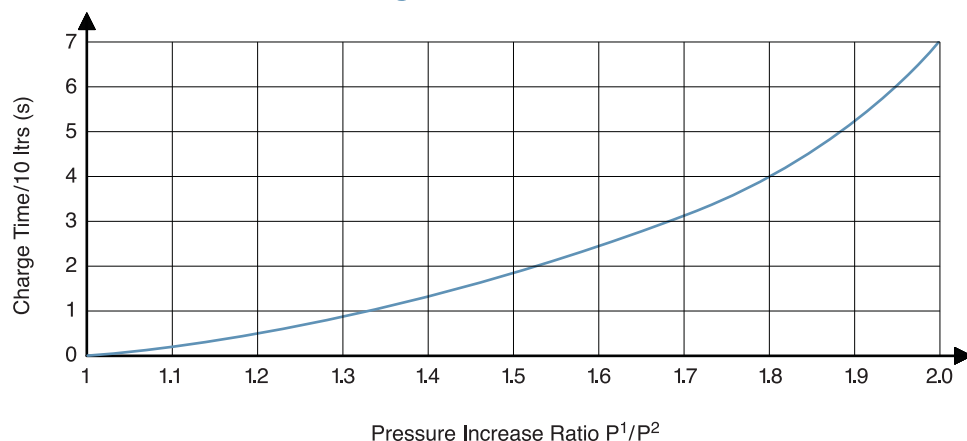
Function	Pressure Booster 2:1 ratio
Type	Stand Alone or Receiver Mounted Options
Bore Size	100mm
Inlet Pressure	1.5 to 10bar (maximum)
Outlet Pressure	3 to 20bar (maximum)
Operating Temperature	-10°C to 80°C
Ambient Temperature	40°C
Fluid	Compressed Air filtered 50µ
Control	Integrated pneumatic valve
Port Size	1/2

CONSTRUCTION DETAILS

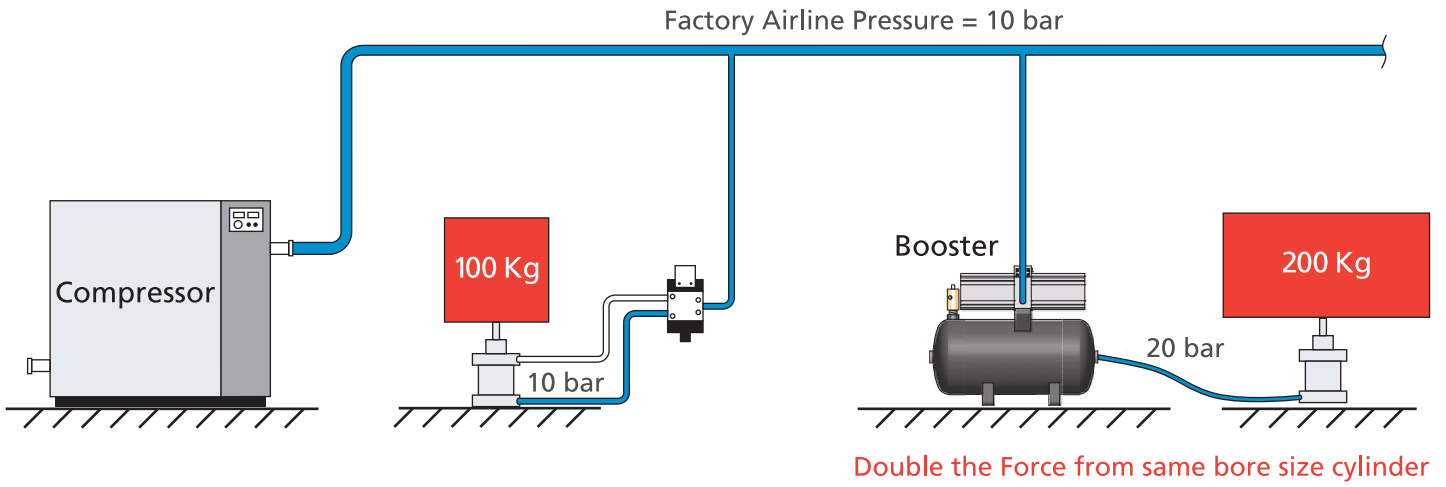
Booster Body	Anodised Aluminium
Non-Return Valves	Stainless Steel 303
Central Valve Spool	Anodised Aluminium
Spool Sleeve	Acetal Plastic
Poppet Seals	Polyurethane
Lip Seals	Nitrile Rubber
O Rings	Nitrile Rubber
End Caps	Zamak
Barrel	Anodised Aluminium

FLOW DATA

Charge Rate Characteristics

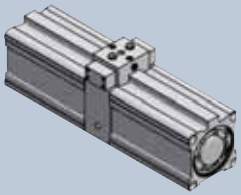


BOOSTER APPLICATION

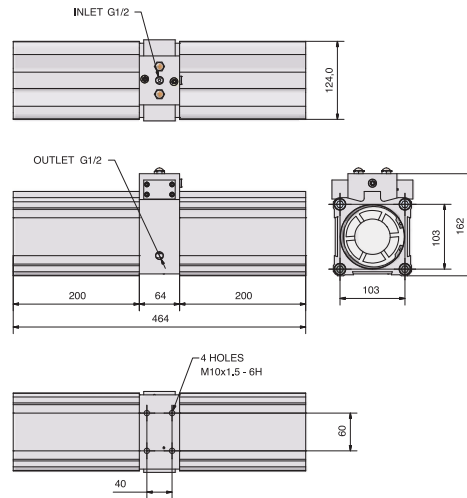


DIMENSIONAL INFORMATION

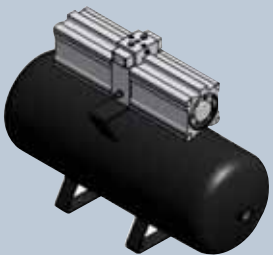
PRESSURE BOOSTER



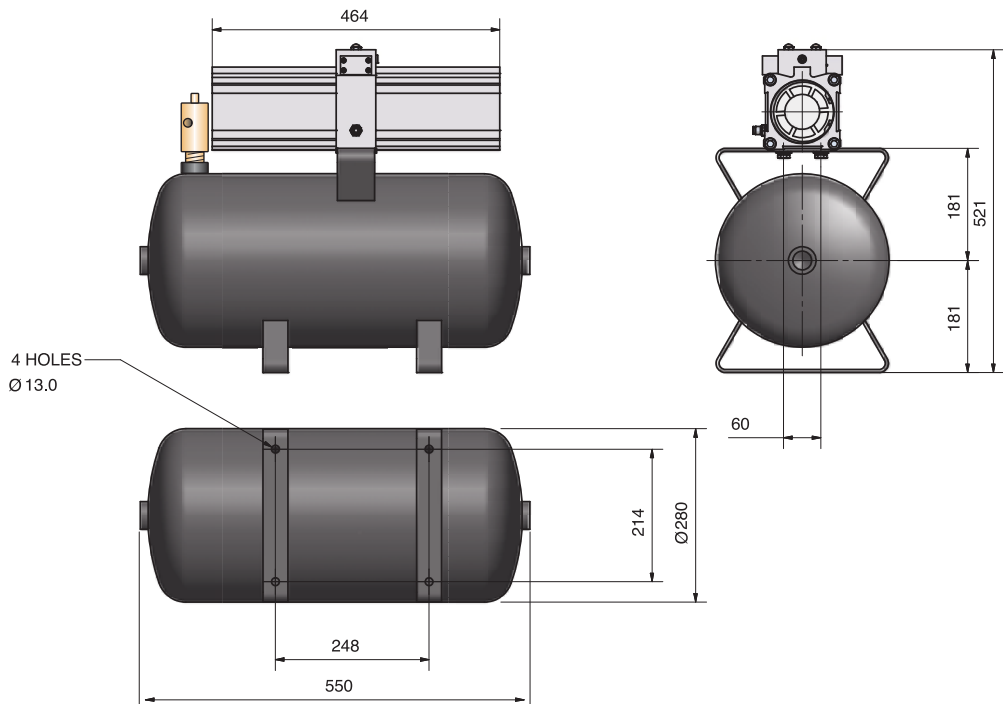
Supplied without Receiver



PRESSURE BOOSTER + RECEIVER



30 Litre Capacity Receiver

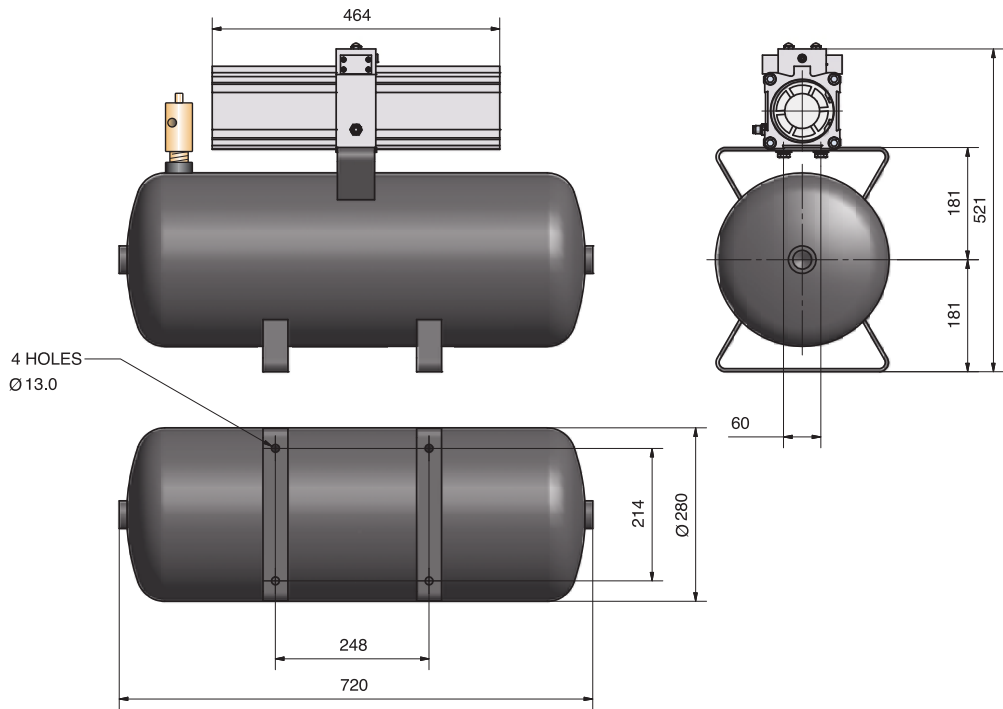


DIMENSIONAL INFORMATION

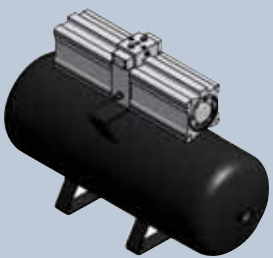
**PRESSURE BOOSTER
+ RECEIVER**



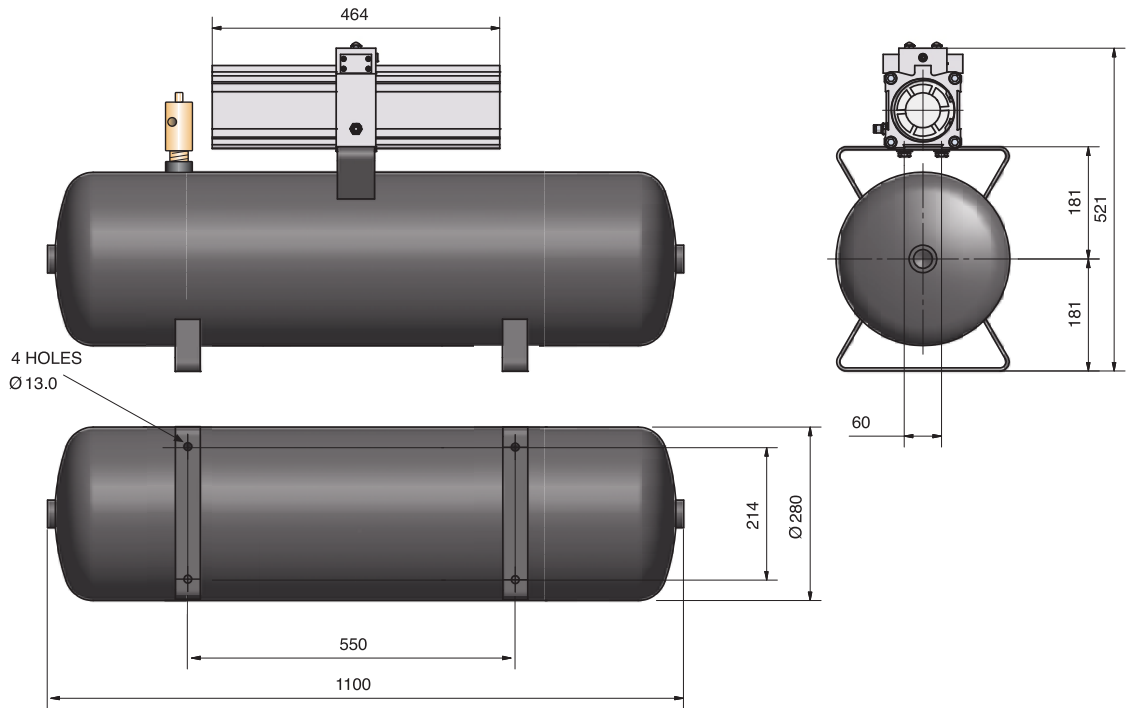
40 Litre Capacity Receiver



**PRESSURE BOOSTER
+ RECEIVER**



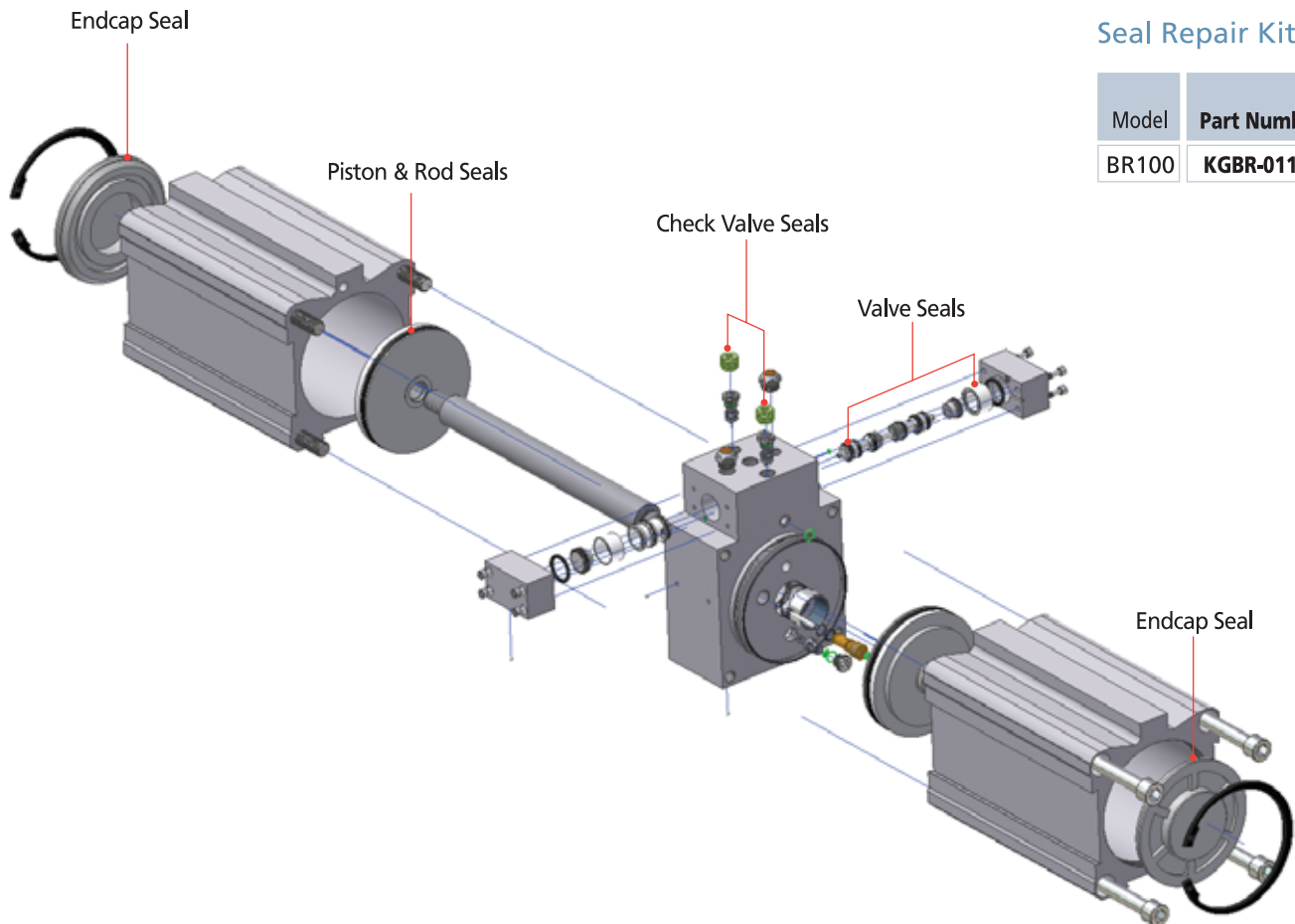
60 Litre Capacity Receiver



SPARE PARTS

Totally Serviceable

All internal seals and components can be serviced or replaced, without the need for specialist tools. Main control valve seal replacement can be carried out without removing the Booster end caps, by simply removing the upper body end plates and unscrewing the spool from either side.



Seal Repair Kit

Model	Part Number
BR100	KGBR-01100

CODIFICATION KEY

B	R	1	0	0	-	0	0
1		2				3	

1 Series

BR = Pressure Booster 2:1 ratio

2 Type

100 = Piston Bore Size

3 Receiver Capacity

00 = Booster Only (No Receiver)

30 = 30 Litres

40 = 40 Litres

60 = 60 Litres

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