

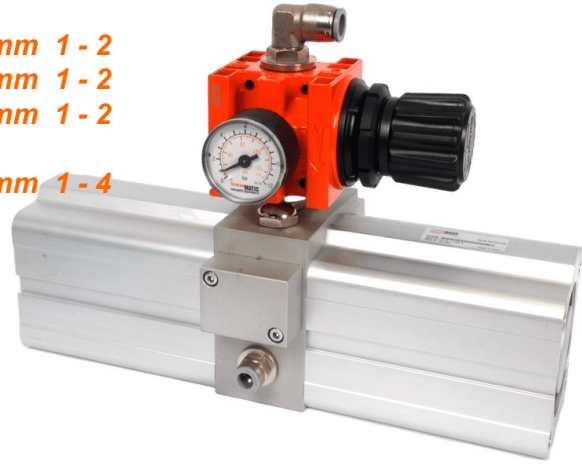
PRESSURE BOOSTERS

Ø 40 mm 1 - 2

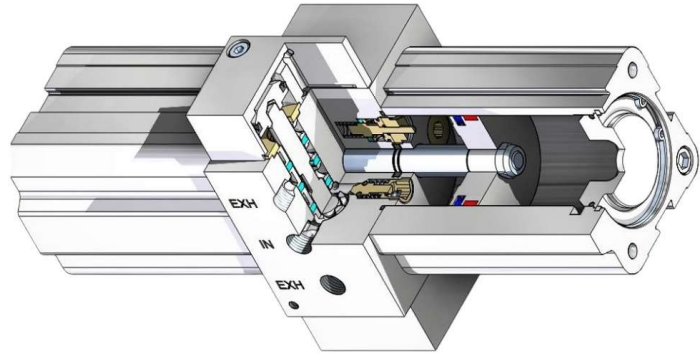
Ø 63 mm 1 - 2

Ø 100 mm 1 - 2

Ø 63 mm 1 - 4



INTERNAL VIEW of PRESSURE BOOSTER

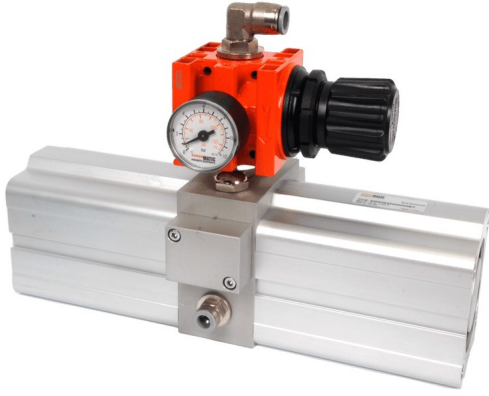


PRESSURE BOOSTERS

www.sematik.tr

SEMAK[®]MATIC
PNEUMATIC EQUIPMENTS

BOOSTER Ø 63 mm



BOOSTER Ø 63 mm

The Ø 63 mm Booster of SEMAKMATIC is suitable only for using with pressured air.
Due to its durability, life time is max. 15 million cycles under proper condition.
The compression ratio is 1 to 2 and the max. inlet pressure is 10 bar.
There is an extra button on to the product for resetting the Booster.

The system is activated with two 3/2 way n.c. plunger valves by the booster piston. Main valve is 5/2 bistable double pilot.
There are also two non return valve which are integrated in to the booster body.
All the parts of the booster can be disassembled easily and the product has a fully spare part guarantee.

For max. performance min. 50µm filtering is highly recommended.

Important notice 1

Always use a pressure tank for preventing fluctuation of the pressured air.

Use pressure regulator for constant inlet pressure.

Important notice 2 *

Designing a pressure tank
(4) always use ,

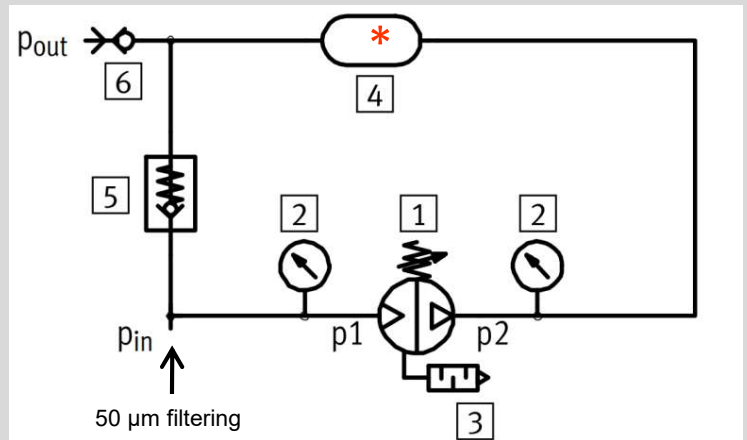
- 1) over pressure relief valve
- 2) drain valve
- 3) manometer
- 4) 2/2 way manuel valve for inlet and outlet pressure of the tank

Pin. Pressure inlet

1. Booster
2. Manometers
3. Exhaust
4. Pressure tank
5. One way valve
6. One way quick coupling

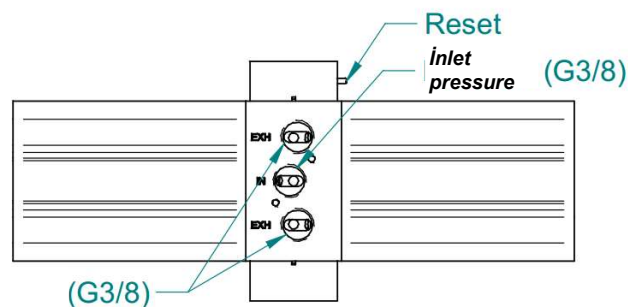
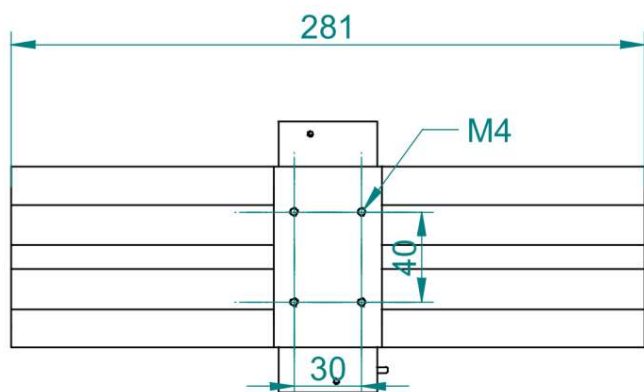
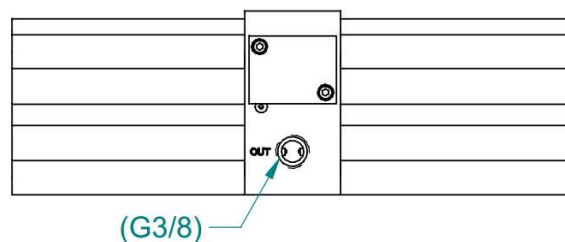
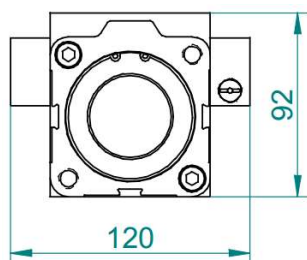
Pout Pressure outlet

Min. recommended inlet pressure is 3 bar.



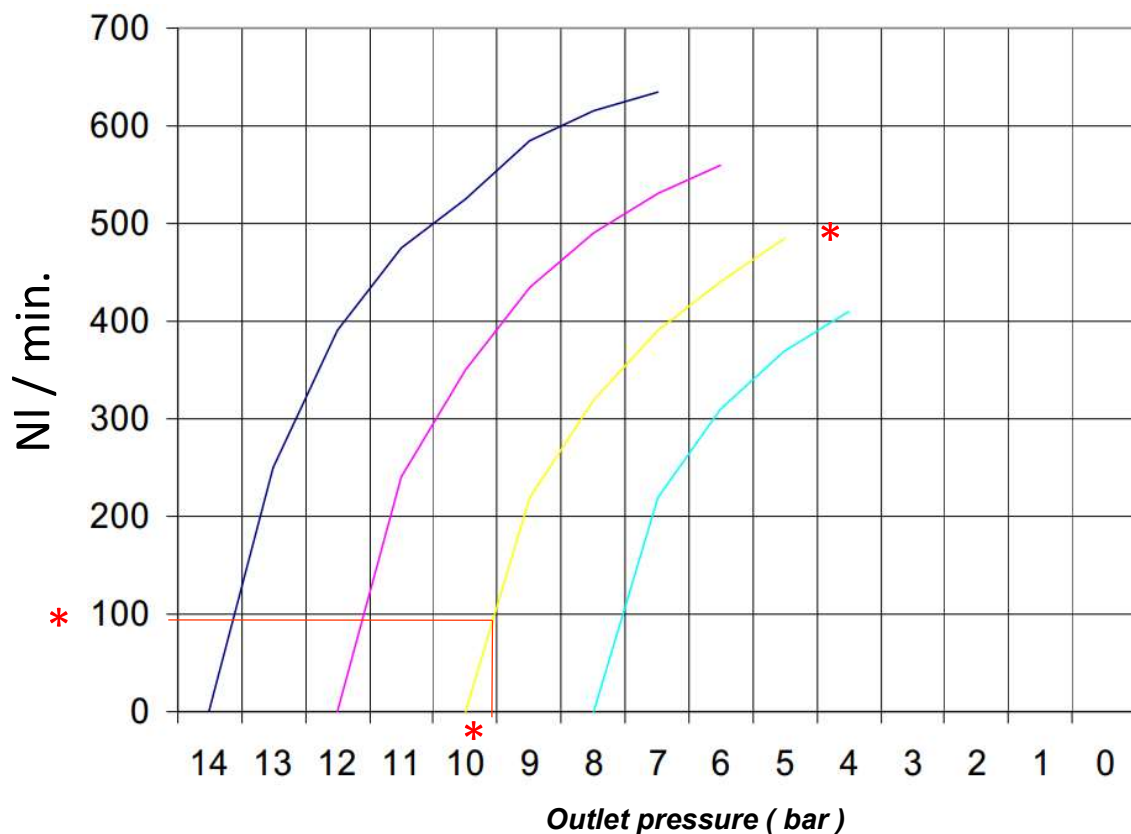
FLUID	: Compressed filtered air , non oily air recommended
VERSION	: 1 → 2 BOOSTER
DIAMETERS	: Ø 63 mm
TEMPERATURES	: - 10 °C / + 50 °C
Flow rates	: Max. 200 NI / min. under proper conditions (please see the flow rate chart)
Materials	
Body	: Anodized aluminium
Piston	: Ø 63 mm Aluminium
Seals	: NBR
One way valves	: Brass
Piston rod	: Cr 45 chromed steel
Inlet / outlet / exhaust ports	: 3/8"
WORKING PRESSURE	: Max. inlet pressure is 10 bar
Profiles	: Aluminium
Weight	: 3 Kg. (excluding the accessories , regulator , silencer , ex.)

DIMENSION of the Ø 63 mm BOOSTER



Flow rate chart of the Ø 63 mm BOOSTER

Flow rate



Values can be given under proper test room conditions .
Over temperatures can effect the flow rates and
the performance of the booster on a negative way .

inlet pressure

- P1=7bar
- P1=6bar
- P1=5bar
- P1=4bar

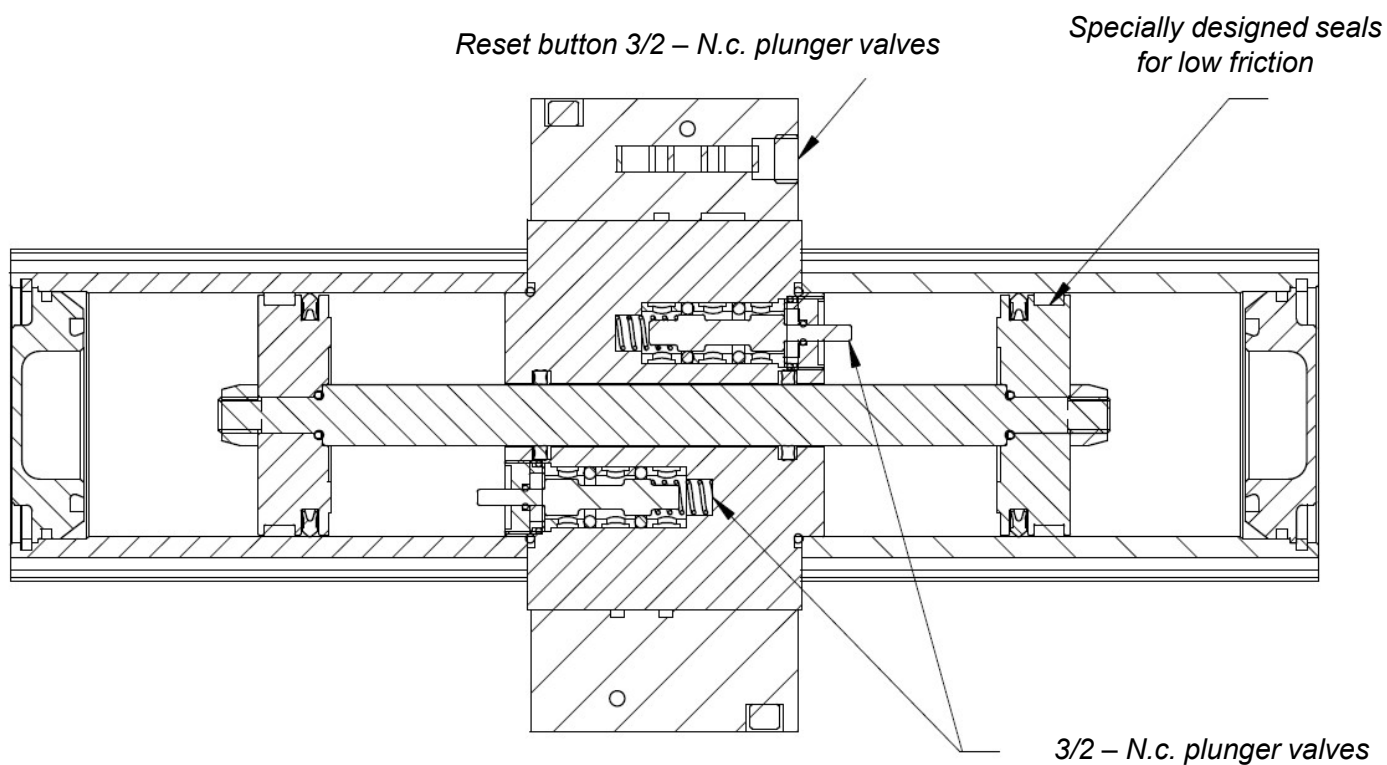
Sample , *

If the inlet pressure is
set to 5 bar the outlet
Pressure can be reached
max. 10 bar .

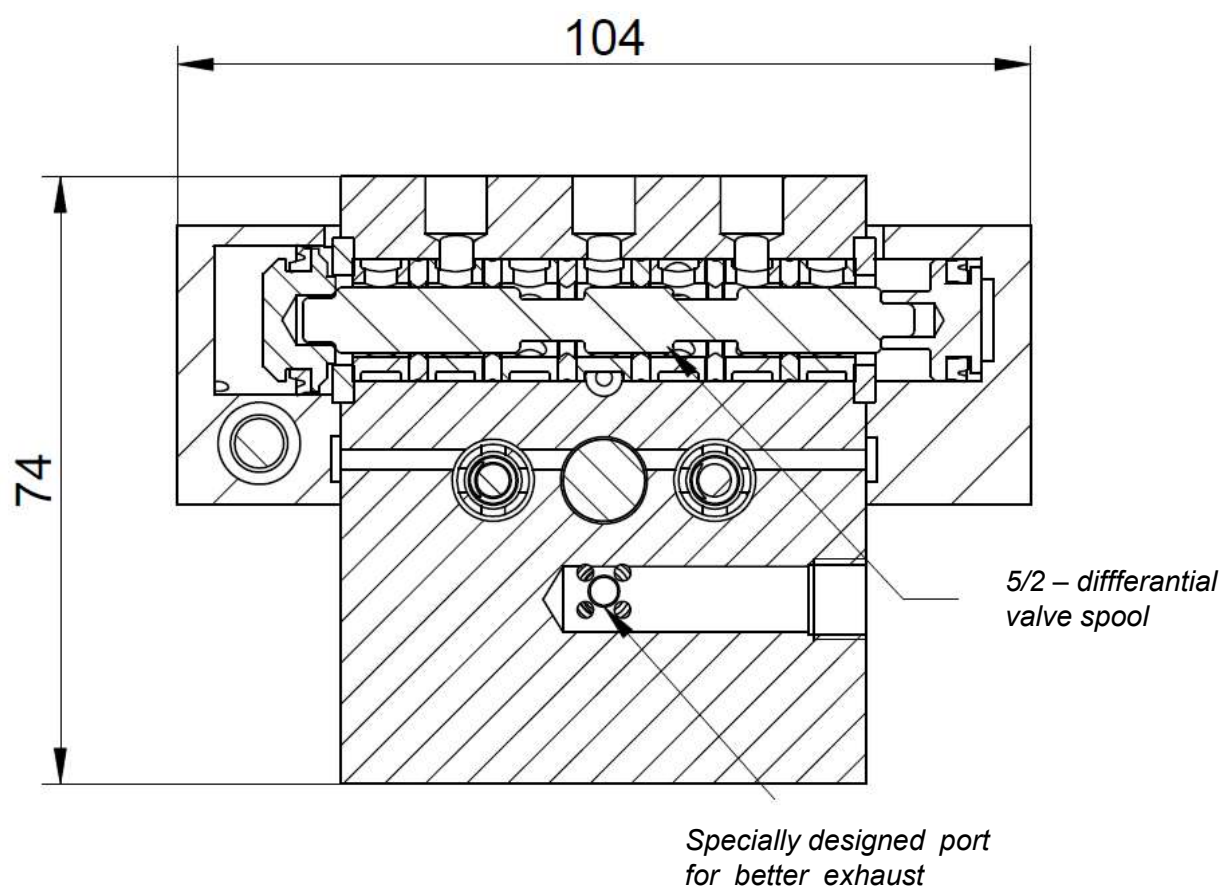
regarding a graph
outlet flow rate is max.
100 nl / min.

BOOSTER Ø 63 mm

INTERNAL DRAWING of the Ø 63 mm BOOSTER

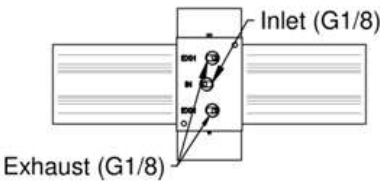
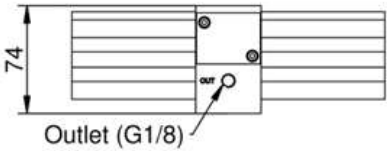
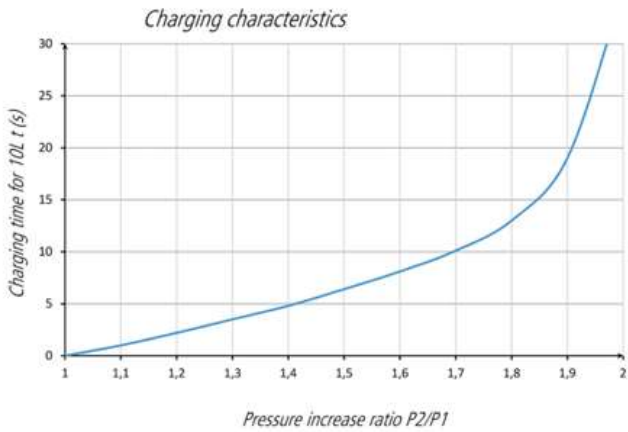
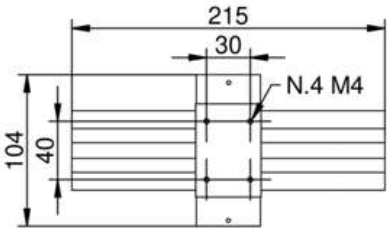
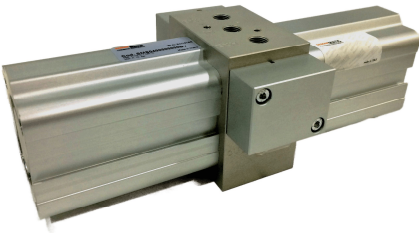


INTERNAL DRAWING OF THE MAIN 5/2 WAY VALVE



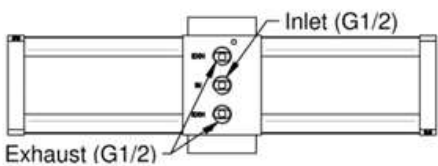
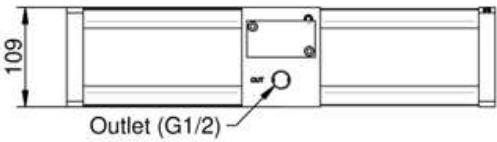
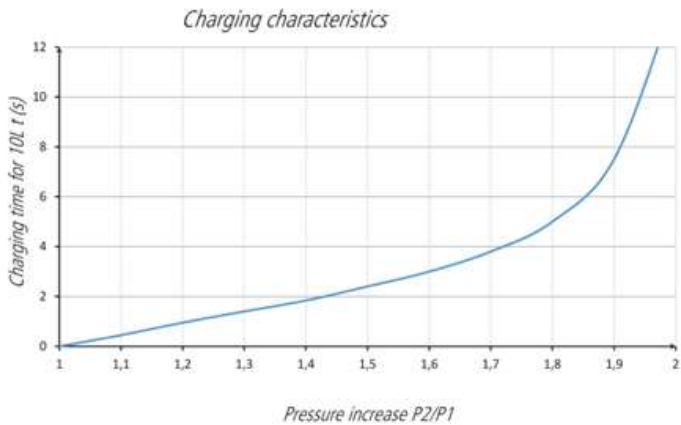
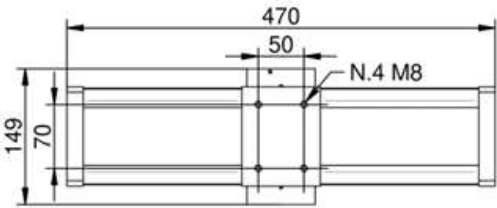
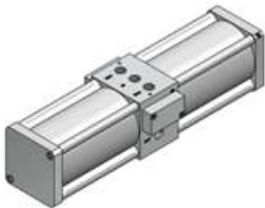
BOOSTER \varnothing 40 mm 1 - 2

TECHNICAL DETAILS



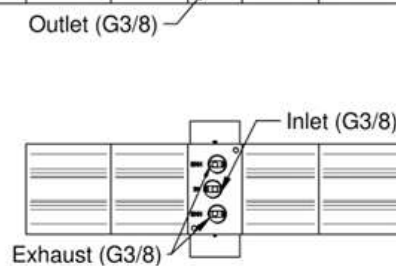
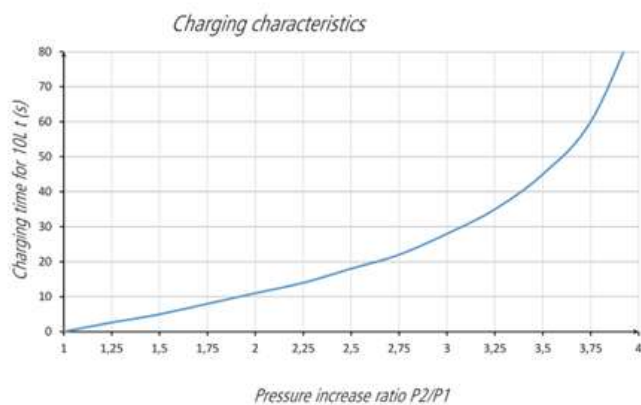
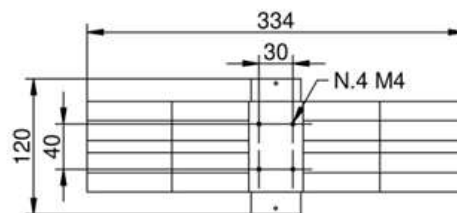
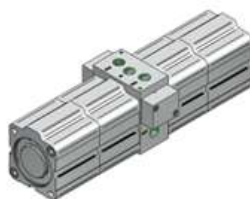
BOOSTER \varnothing 100 mm 1 - 2

TECHNICAL DETAILS



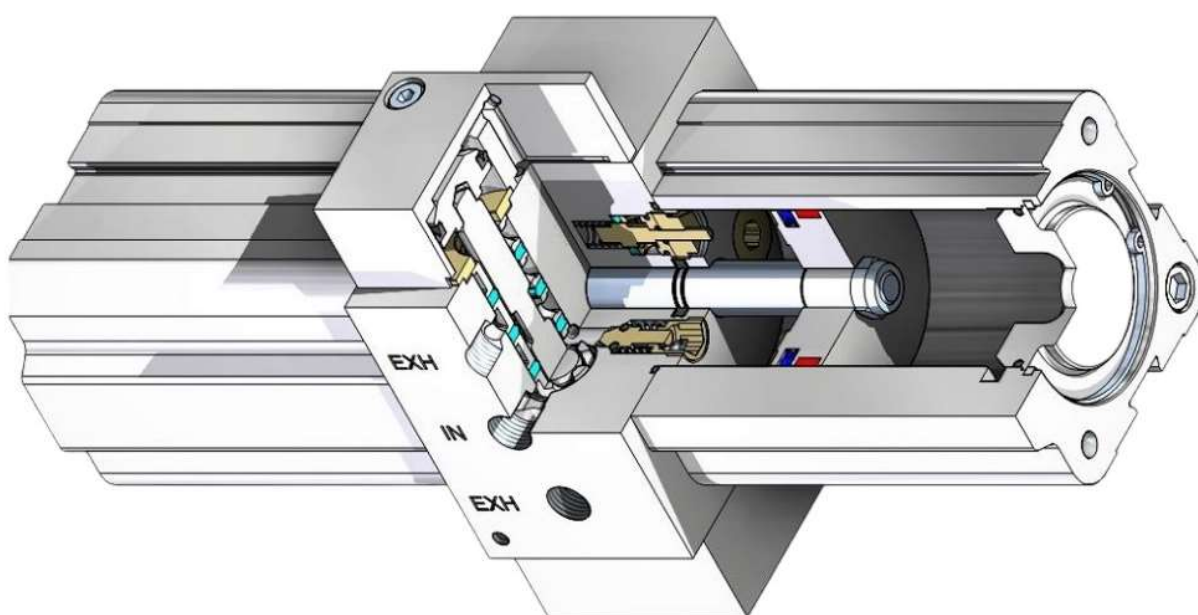
BOOSTER Ø 63 mm 1 - 4

TECHNICAL DETAILS



PRESSURE BOOSTER

INTERNAL PARTS



SEMATİK

LTD. ŞTİ.

DARÜLACEZE CAD. PERPA TİCARET MERKEZİ
B BLOK KAT 11 No. 1639 OKMEYDANI / İSTANBUL
TÜRKİYE

TEL : 0090 212 221 27 80

www.sematik.tr
sematik@sematik.tr

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