

Air-hydro booster

RUSH BOOSTER - mini

Generates air pressure to hydraulic pressure.
Small booster specialized for small, short stroke cylinders.



Overview

The air-hydro booster that converts compressed air into high hydraulic pressure as a hydraulic source for small diameter and small stroke hydraulic actuators.

Feature

- ① When the air pressure is 0.2MPa to 0.7MPa, hydraulic pressure of 2.8MPa to 9.8MPa is generated.
- ② Since it has a small diameter, it does not take up installation space.
- ③ The booster can be equipped with a switch. The piston position signal is obtained.
- ④ Since it uses air pressure, there is no trouble due to temperature rise even in continuous pressurization.
- ⑤ The oil pressure can be changed steplessly by changing the air pressure.
- ⑥ The operation can be easily performed with one pneumatic five-way valve.

How to order

RBM 30 × 06 - 14 - V - 2

Product name	Bore size	Amount of discharged oil	Boosting ratio	Symbol	Mounting direction	Symbol	No. of Auto switches
Rush Booster - mini	30 mm	6.1 cm ³	14 times	Nil	Horizontal	Nil	Without auto switch
				V	Vertical	1	1 pc.
						2	2 pcs.

Specifications

Pneumatic cylinder diameter	φ 30
Ram diameter	φ 8
Pressure boosting ratio	1 : 14
Amount of discharged oil	6.1 cm ³
Maximum generated oil pressure	9.8 MPa (Air pressure 0.7 MPa)
Proof pressure	1.0 MPa
Operating pressure	0.2 to 0.7 MPa
Fluid (Air pressure)	Air
Fluid (Oil pressure)	Standard mineral hydraulic fluid (ISO VG22)

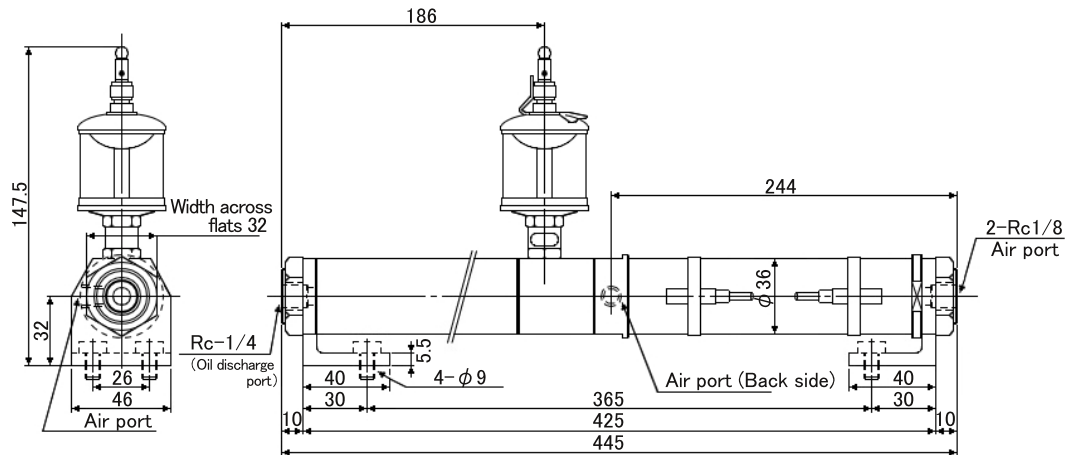
Auto Switch

Model No.	10 TYPE
Indicating lamp	LED illuminates when turned ON. (Return side : RED Pressure side : GREEN)
Lead wire	Two - core cable, 1 m
Voltage	5 to 100 V
Operating current range	5 to 50 mA
Internal voltage drop	2.4 V or less
Impact resistance	30 G
Working temperature range	-10 to 60°C

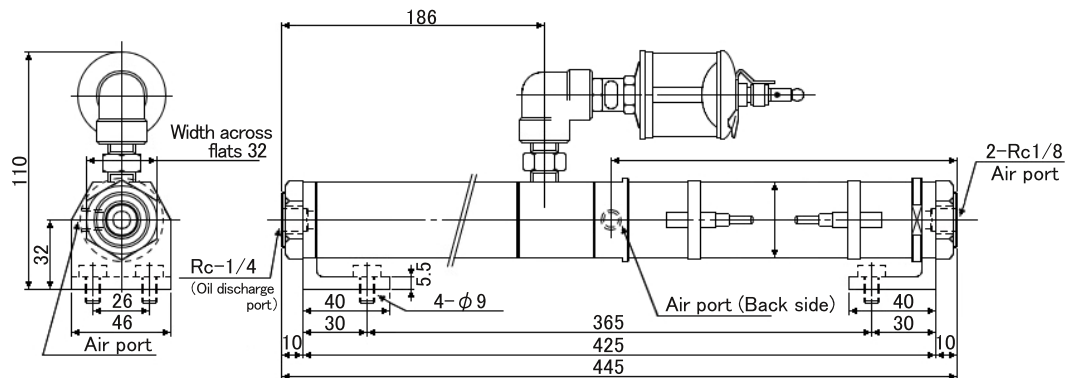
When the number of switches is one, a red color is attached as standard. It can be changed to green.

Dimensions

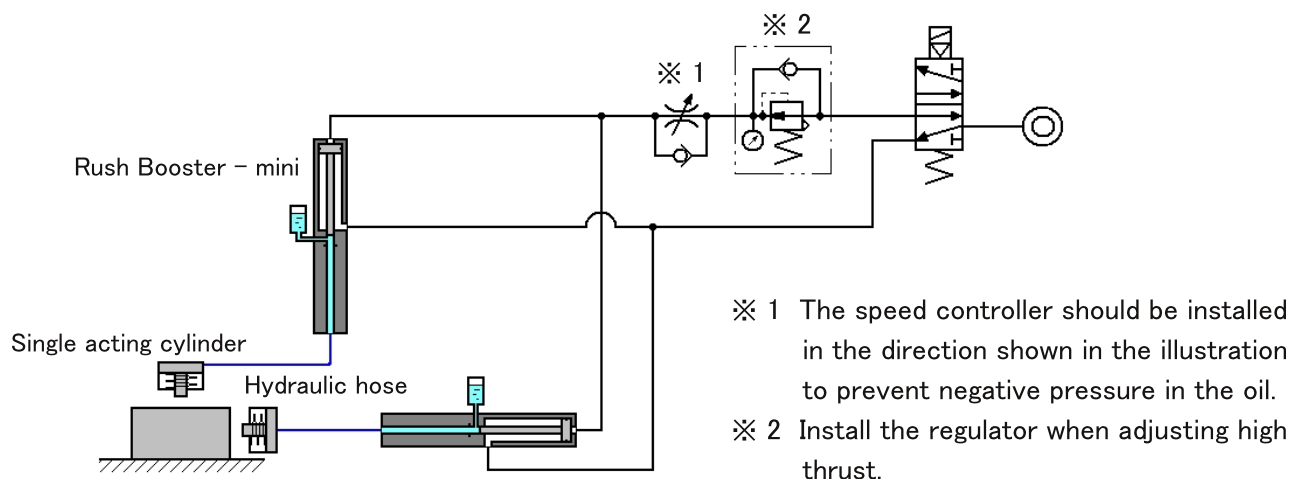
Horizontal



Vertical



Piping



Precautions for hydraulic actuators.

1. Use a hydraulic actuator that has a working pressure range higher than the discharge pressure of the rush booster.
2. When using the hydraulic actuator backward or forward with pneumatic pressure, attention to the minimum operating pressure of the hydraulic actuator.
Make sure that it can be operated with the pneumatic pressure to be used before selecting.
3. The oil capacity of the hydraulic actuator should be 4 cm³ or less. Consider a sufficient margin for the amount of discharged oil.
4. Use a type of hydraulic piping that does not cause expansion loss.



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●LINE UP●

PNEUMATIC POWER CYLINDER

PNEUMATIC BOOSTER

POWER PACK CYLINDER

RUSH BOOSTER

HYDRAULIC CYLINDER

FREE LOCK PAD

SELLOCK CYLINDER

FLOATING CONNECTOR

AUTO CLAMPER

SEL NUT

LINEA BRAKE

**PNEUMATIC AND HYDRAULIC
EQUIPMENT**