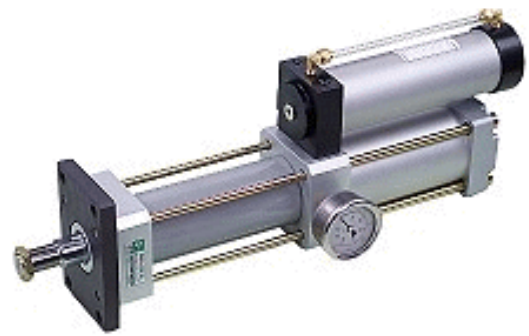


## Features:

- Delivers smooth hydraulic power without the cost of power unit.
- Robust construction, simple piping and easy to control.
- Suitable for the applications of short stroke and high output force.



## Specifications:

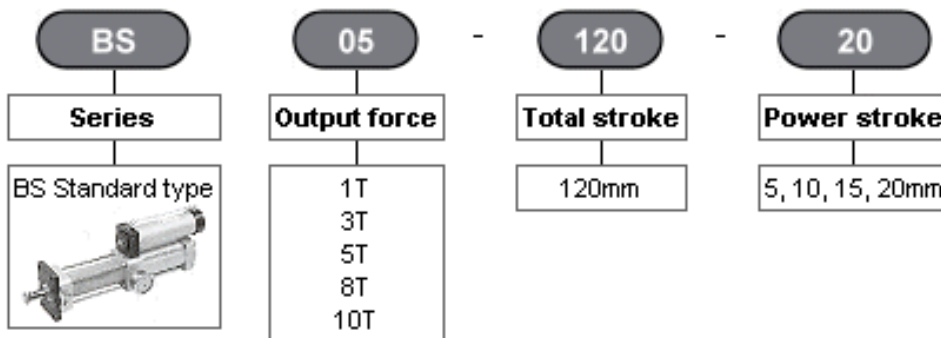
<b>Action</b>	Air over oil
<b>Series</b>	BS
<b>Output force</b>	(1T, 3T, 5T, 8T, 10T)
<b>Operating fluid</b>	Compressed air
<b>Operating pressure</b>	0.7-9.9 kgf/cm <sup>2</sup> (0.07~0.97Mpa)
<b>Proof pressure</b>	8-100mm/sec
<b>Temperature range</b>	-10 <sup>o</sup> C~+70 <sup>o</sup> C

## Theoretical Output Force:(Operating Pressure: 6kg/cm<sup>2</sup>)

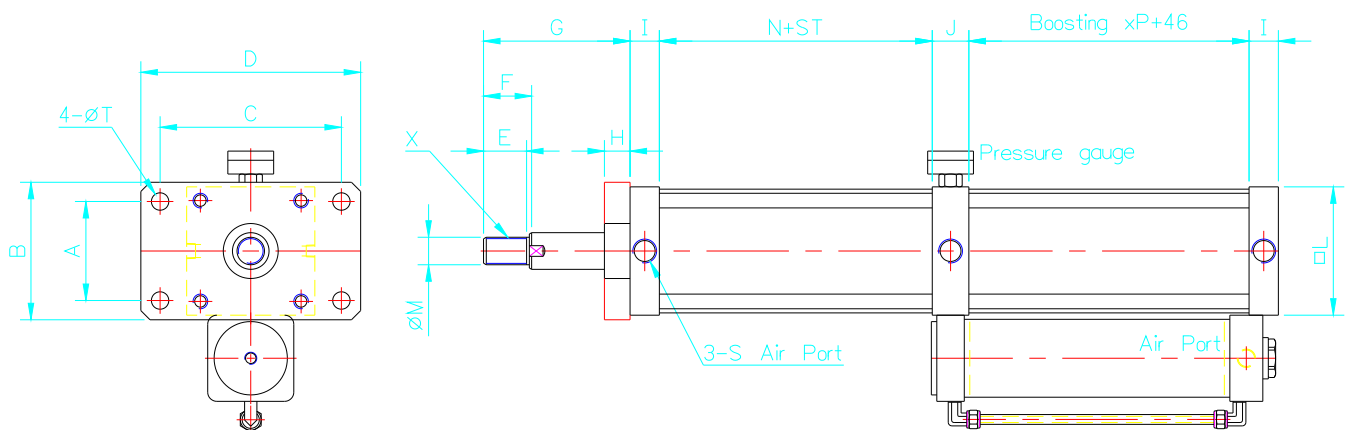
Type\Item	Quick approach kgf	Quick retraction kgf	Working stroke kgf	Total stroke mm	Power stroke mm
<b>BS01</b>	95	58	1200	120	5, 10, 15, 20
<b>BS03</b>	300	225	3850		
<b>BS05</b>	300	225	5236		
<b>BS08</b>	300	225	7539		
<b>BS10</b>	300	225	9400		

Note: When determine the pull force required, the weight of molds or tooling devices must be taken into consideration.

## How to Order:

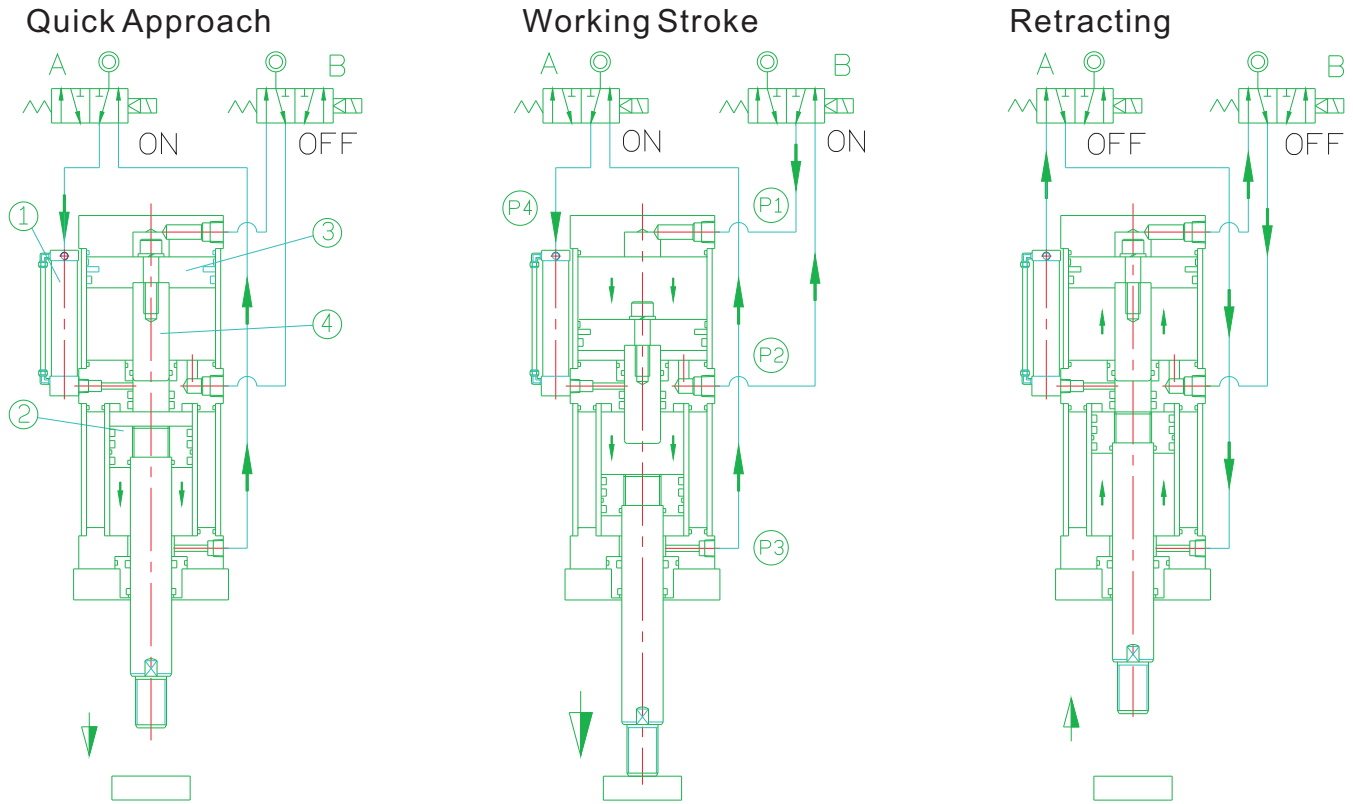


## External Dimensions:



Type	A	B	C	D	T	E	F	G	H	I	J	L	M	N	P	R	S	X
<b>BS01</b>	70	100	119	146	12	30	40	80	16	39	39	94	30	56	5	PT1/4"	PT3/8"	M24x1.5
<b>BS03</b>	108	150	198	240	19	47	50	160	30	32	40	140	40	48	5.5	PT3/8"	PT1/2"	M30x1.5
<b>BS05</b>	108	150	198	240	19	47	50	160	30	32	40	140	40	48	7.5	PT3/8"	PT1/2"	M30x1.5
<b>BS08</b>	108	150	198	240	19	47	50	160	30	32	40	140	40	48	10.5	PT3/8"	PT1/2"	M30x1.5
<b>BS10</b>	108	150	198	240	19	47	50	160	30	32	40	140	40	48	13	PT3/8"	PT1/2"	M30x1.5

# Construction and Working Principle:



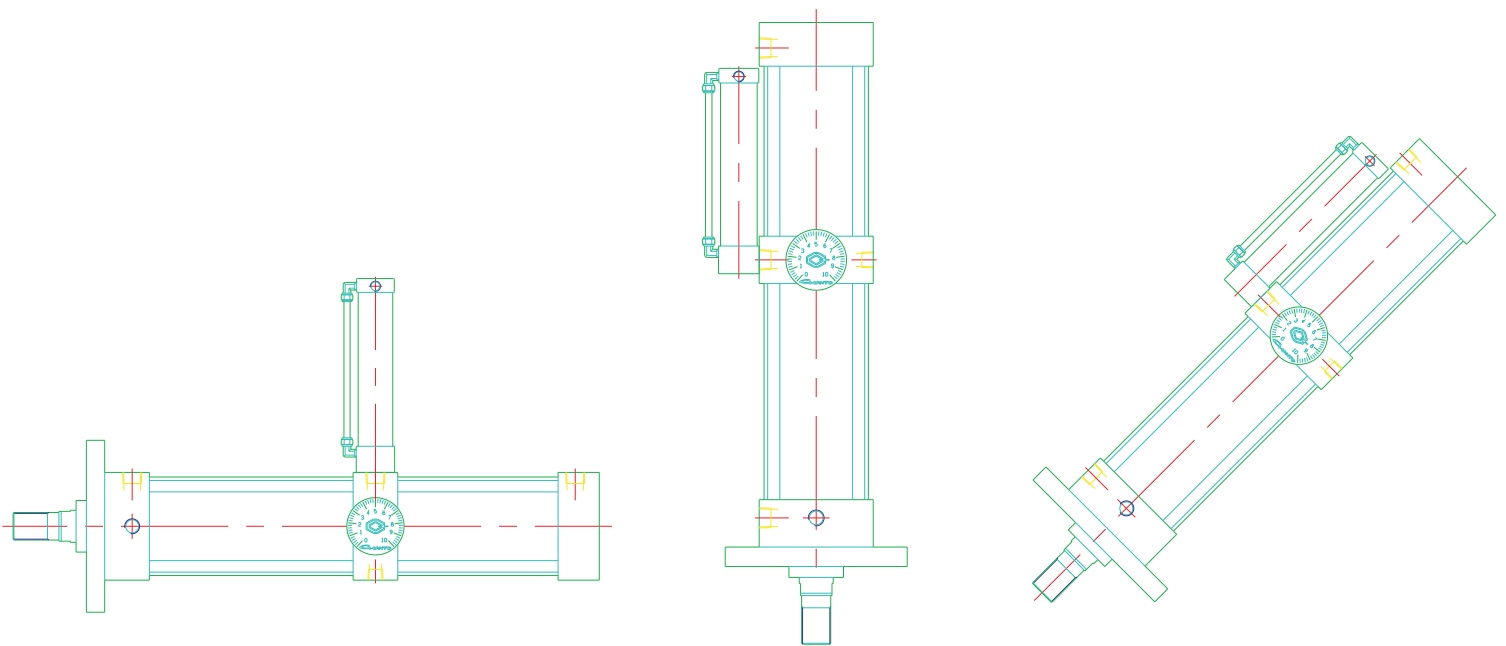
1. Pressurizing the port P4 (on air-oil tank) provides quick approach, shown as fig 1.

2. After a proper interval, Port P1 is pressurized and working stroke (power stroke) is produced. During the power stroke, two pistons are pressurized simultaneously (Solenoid A and B are on), shown as fig 2.

3. When working is finished, solenoid A and B are off simultaneously. Piston rod is Retracting quickly, shown as fig 3.

## Mounting:

Possible mounting shown as below, however oil inlet should be upward.



Horizontal Mounting

Vertical Mounting

Oblique Mounting