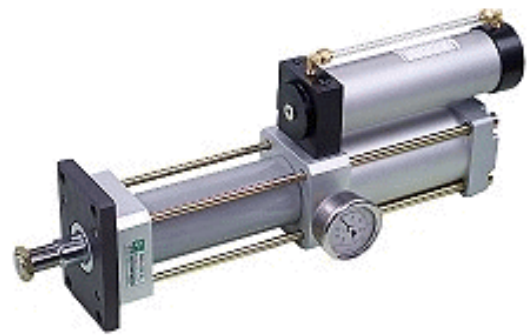


Features:

- 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:

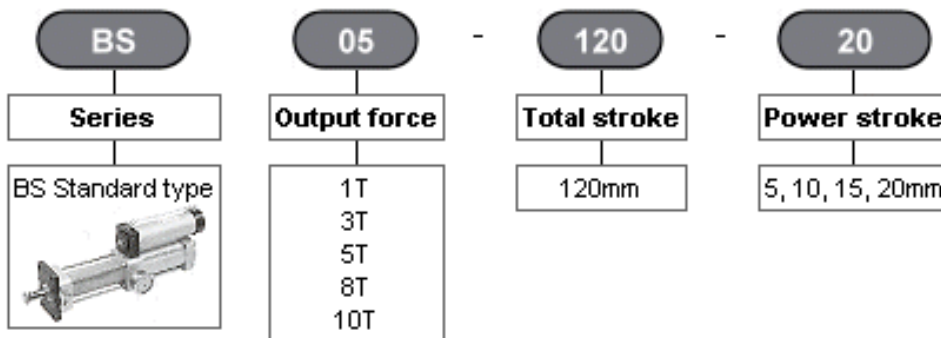
Action	Air over oil
Series	BS
Output force	(1T, 3T, 5T, 8T, 10T)
Operating fluid	Compressed air
Operating pressure	0.7-9.9 kgf/cm ² (0.07~0.97Mpa)
Proof pressure	8-100mm/sec
Temperature range	-10 ^o C~+70 ^o C

Theoretical Output Force:(Operating Pressure: 6kg/cm²)

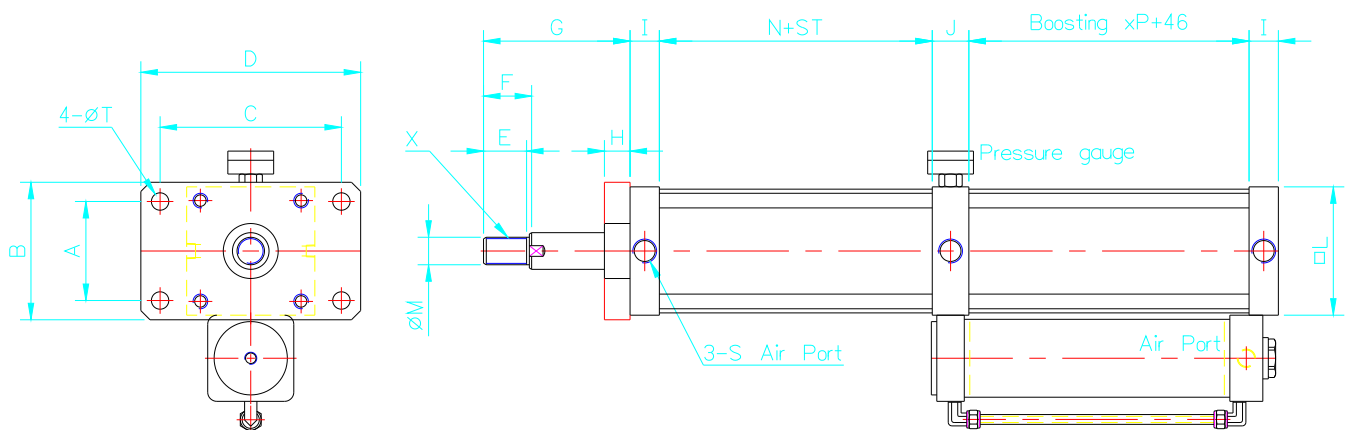
Type\Item	Quick approach kgf	Quick retraction kgf	Working stroke kgf	Total stroke mm	Power stroke mm
BS01	95	58	1200	120	5, 10, 15, 20
BS03	300	225	3850		
BS05	300	225	5236		
BS08	300	225	7539		
BS10	300	225	9400		

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

How to Order:



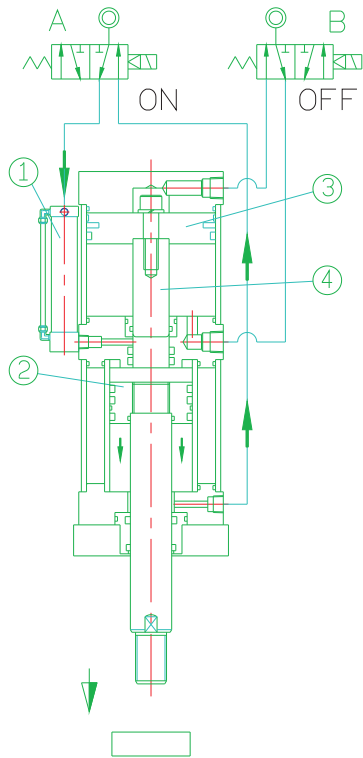
External Dimensions:



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

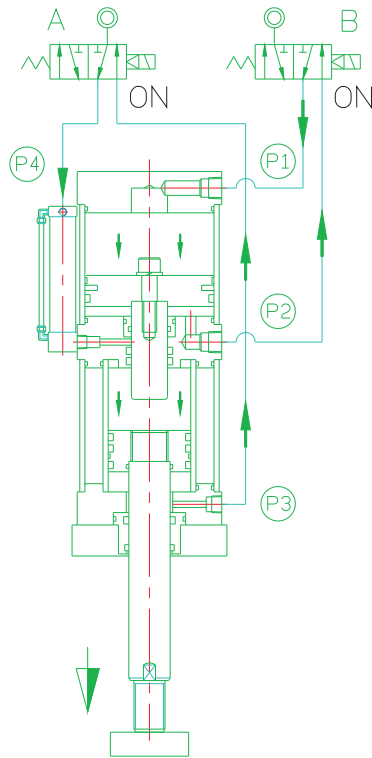
Construction and Working Principle:

Quick Approach



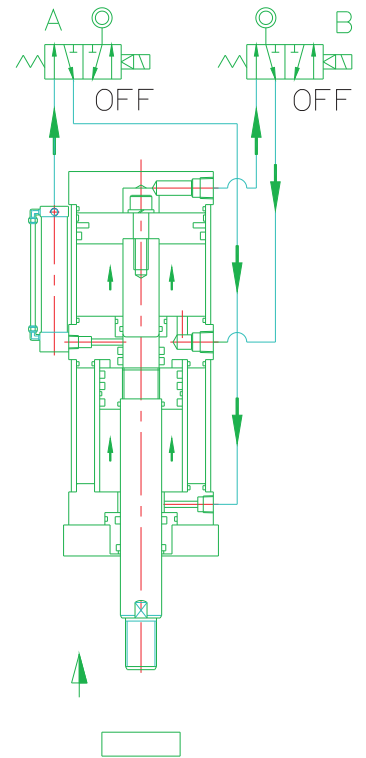
1. Pressurizing the port P4 (on air-oil tank) provides quick approach, shown as fig 1.

Working Stroke



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.

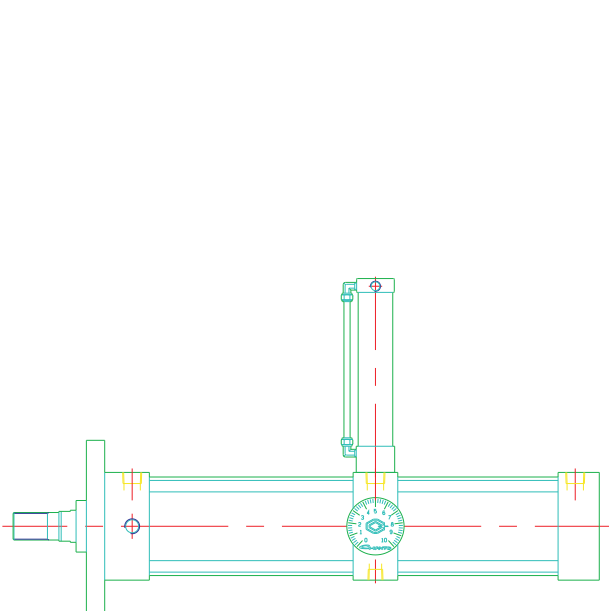
Retracting



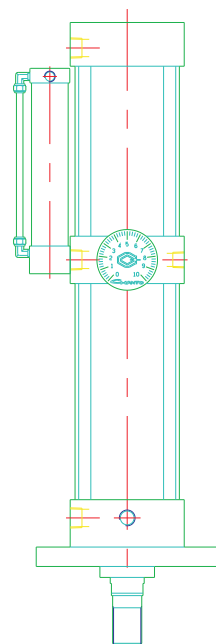
3. When working is finished, solenoid A and B are off simultaneously. Piston rod is Retracting quickly, shown as fig 3.

Mounting:

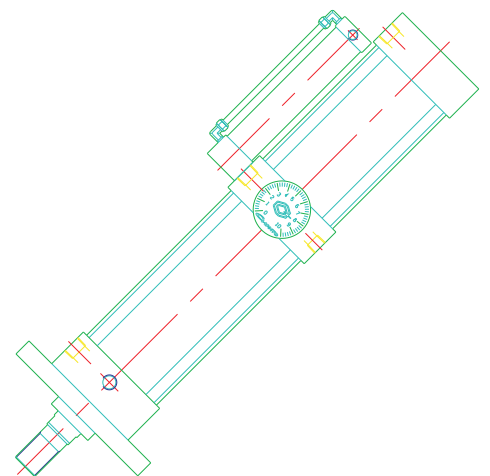
Possible mounting shown as below, however oil inlet should be upward.



Horizontal Mounting



Vertical Mounting



Oblique Mounting