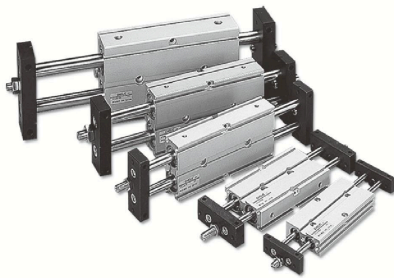


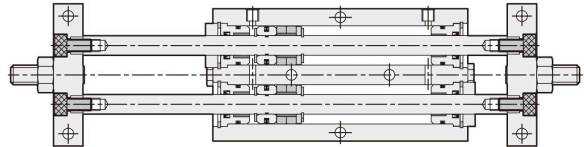
# STU series - Dual rod cylinder

Operating specification and Ordering expression

CHELIC PNEUMATIC



## Internal structure



**TD**  
Dual Rod  
Cylinder

**TDX**  
Dual Rod  
Cylinder

**TDXU**  
Dual Rod  
Cylinder

**STU**  
Dual Rod  
Cylinder

**STM**  
Dual Rod  
Cylinder

**STX**  
Dual Rod  
Cylinder

## Theoretical force

Unit : kgf

Bore size mm	Piston rod dia mm	Piston area cm <sup>2</sup>	Air pressure (kgf/cm <sup>2</sup> )								
			1	2	3	4	5	6	7	8	9
Ø10	Ø6	1.0	—	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
Ø16	Ø8	3.02	(3.01)	6.03	9.04	12.06	15.07	18.09	21.11	24.12	27.14
Ø20	Ø10	4.71	4.7	9.4	14.1	18.8	23.6	28.3	33.0	37.7	42.4
Ø25	Ø12	7.55	7.5	16.1	22.6	30.2	37.7	45.3	52.8	60.4	68.0
Ø32	Ø16	12.06	12.1	24.1	36.2	48.2	60.3	72.4	84.4	96.5	108.5

Note : Above are theoretical data : please take into consideration the frictional resistance and the mechanical efficiency of value should be added calculation before using. ( About 70%~80% )

## Specification

Unit : mm

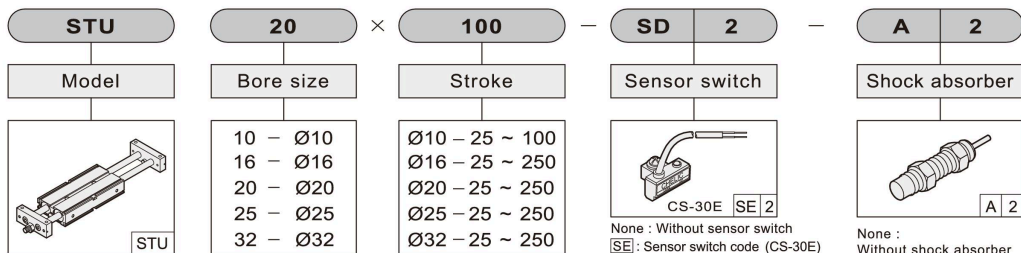
Item	Bore size	Stroke				
		Ø10	Ø16	Ø20	Ø25	Ø32
Operation		Double acting				
Fluid		Air				
Pressure range	kgf/cm <sup>2</sup> (kpa)	1.5 ~ 9 (150 ~ 900)				
Max. service pressure	kgf/cm <sup>2</sup> (kpa)	9.5 (950)				
Operating ambient temperature range	°C	0 ~ 60				
Range of service speed	mm/sec	100 ~ 500				
Lubrication		Free				
Stroke adjusting range		-5 ~ 0				
Port size		M5×0.8			Rc 1/8"	
Sensor device		With magnet				

## Standard stroke

Unit : mm

Bore size	Stroke
Ø10	25、50、75、100
Ø16	25、50、75、100、125、150、175、200、250
Ø20	25、50、75、100、125、150、175、200、250
Ø25	25、50、75、100、125、150、175、200、250
Ø32	25、50、75、100、125、150、175、200、250

## How to order



STU :  
Body is mounted

### Shock absorber list

Bore size	Model	Max. absorber
Ø 16	SAC-0806	2 N·m
Ø 20	SAC-0806	2 N·m
Ø 25	SAC-1008	4 N·m
Ø 32	SAC-1008	4 N·m

None : Without sensor switch  
**[SE]** : Sensor switch code (CS-30E)  
**[2]** : Number of sensor switch  
 ※ Use for STUØ16~Ø32

None : Without shock absorber  
**[A]** : Shock absorber  
 1 = 1 set  
 2 = 2 sets (Option)