

E.P.R. Multi-Phase Extendable Cylinders

Model: NS6a-140DC

1. Characteristics

NS6a-140DC is multi-phase extendable cylinder equipped with driving system from horizontal to vertical. The total extendable length is 710mm. While fully extended and vertical, the distance from top to base is 1500mm. Fully drawn back, the distance from top to base is 790mm.

2. Main specifications

Working media dry and clean compressed air

Working pressure 0.15 ~ 0.3 MPa

Circumstance temp. $-10^{\circ} \sim 60^{\circ}$

Anti-wind 40KM/h

Load ≤ 250 N

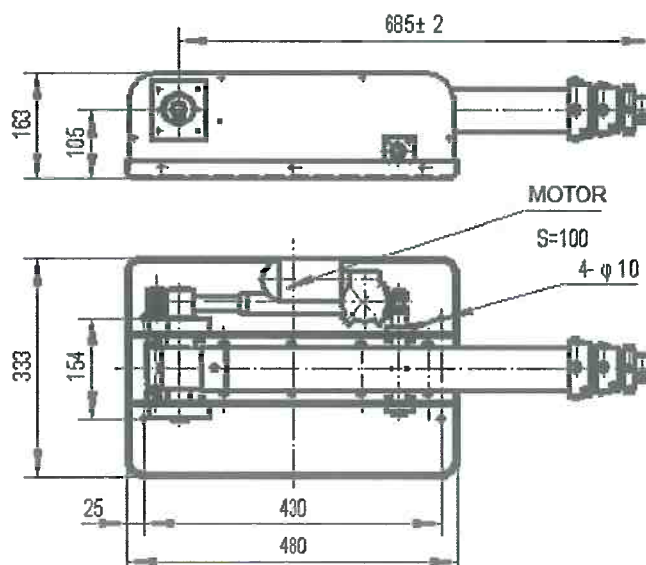
Up and down speed 50-150 mm/s.

Air leakage in case of pressure 0.2MPa load 10Kg, rising to maximum, in 4hours maximum decline is 50mm.



3. Working theory

Original situation: horizontal, when electrical motor connects DC12V and starts to pull inside, the cylinder rises to vertical situation. Mini air compressor starts to work and fills in the cylinder with air. When fully extended and working air pressure is 0.3MPa, shut down mini air compressor. Maximum load is 20Kg. After finished working, open the 2 position 2 way discharging valve (DC12V), the cylinder will come down with the gravity. Shutting down the 2 position 2 vie valve, electrical motor will be connected and push outside. The cylinder becomes horizontal.



Model: QTa



1. Characteristics

QTa multi-phase cylinder has very compact structure so requires a very small installation space. It can be used for outside exploring, lighting and communication. It can be fixed vertically on cars or on ground.

2. Main specifications

Working media dry and clean compressed air

Working pressure 0.15 ~ 0.3 MPa

Circumstance temp. -10°C ~ 60°C

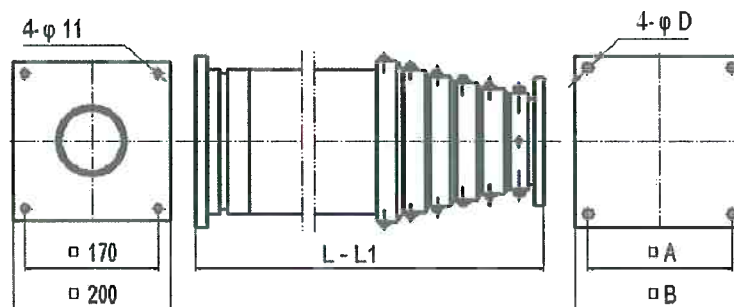
Anti-wind 40KM/h

Load ≤ 2500 N

Up and down speed 50~150 mm/S. Air leakage in case of pressure 0.2MPa load 50Kg, rising to maximum, in 4hours maximum decline is 200mm.

3. Working theory

It can be controlled manually or electrically. After the 1st valve works, compressed air comes into the cylinder and the cylinder comes out. When arrives the maximum height, under working pressure little less than 0.3MPa the 1st valve re-sets and keep the cylinder in working condition. When the 2nd valve works, compressed air inside the cylinder discharges and the cylinder comes down by load and own gravity.



MODEL	A	B	D	L	L1	DIAMETER	ELEM.
QTa-4	180	225	13	1470	4000	φ 180	4
QTa-8	230	270	17	1920	8000	φ 215	6
QTa-14.5				3150	14500		