

Specification:

Item	Specifications	BPT Standard type	BPTQ Quick type	BPTH High force output
Operating pressure		Compressed air with 0.2MPa~0.7MPa (2kgf/cm ² ~7kgf/cm ²)		
Operating oil		CPC-R32 viscosity grade ISO VG32 or equivalent		
Working temperature range		0°C~60°C		
Total stroke		13,15,17		
Voltage		DV24, AC110, 220		

Please offer us the following information in order to suggest the product to you.

■ Operating pressure (kgf/cm²)

Have to make sure the operating pressure tolerance to be within ± 0.1 MPa(1kgf/cm²). Suggest to set the operating pressure for 0.6MPa(6kgf/cm²)

■ Unclamping total stroke (mm)

Total stroke must include the reserved distance between cylinder hitting head and spindle.

■ Reserved distance (mm) between cylinder hitting head and spindle.

The suggested best reserved distance is 0.5mm.

■ Total output force (kgf)

Please reserve the total output force of spindle and plus 20%~30%

■ Voltage of solenoid valve

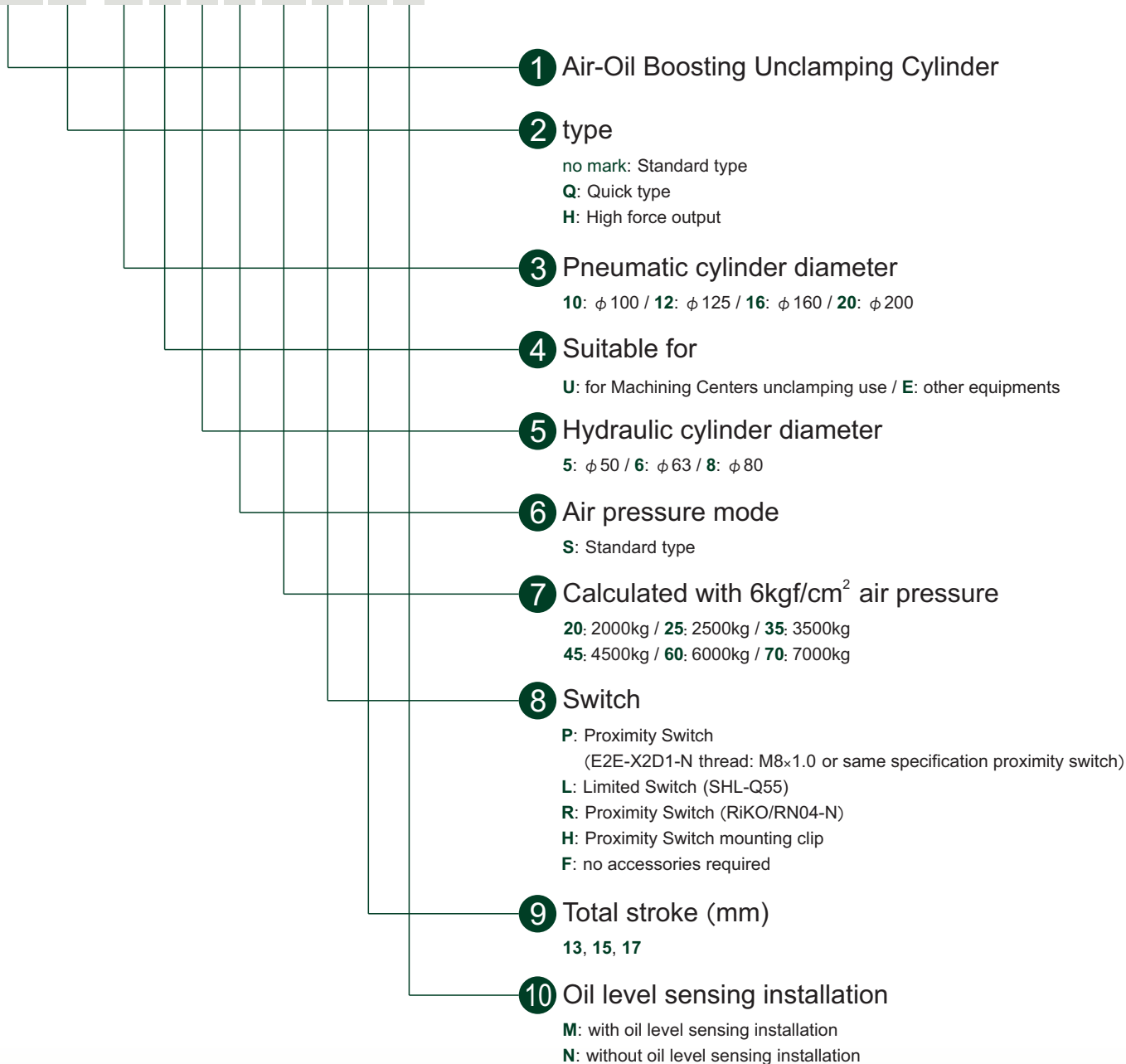
■ Use with tool magazine BT30#, BT40#, BT50#

■ Push-stroke of spindle (mm)

■ Clamping force of spindle (kgf)

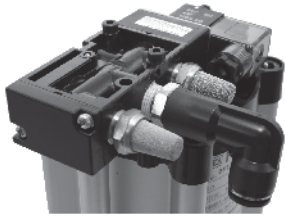
Codification key

BPT Q - 10 U 5 S 30 P 13 M



BPT Characters / Circuit

Product features:



■ Flash Tool Changing

Tool changing is less than 1 second, include 0.17 second unclamping. BT30 T to T : 0.98 second, BT40 T to T : 1~1.2 second.



■ Modulize Design

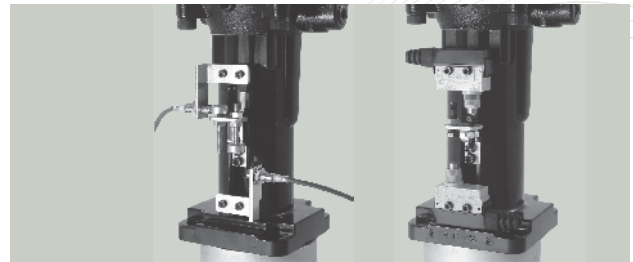
Control valve perfectly fits on the rear cover and built-in pipe and circuit therefore not only having great compressed air but also time-saving installation and saving the cost component.

■ Aluminum Material, Integrated

Reduce the burden on Z axis and enhance the lifetime of ballscrew and runway.

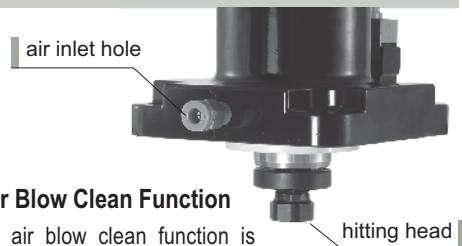
■ Choose The Most Suitable Seal

With the experiences and tests of many years, we use the best seals to reduce the oil consumption during operation, don't need to refill oil often, and avoid the harm to spindle due to oil-leakage.



■ Improves Tool-Changing Precision and Speed

Upper and lower unclamping positions sensing mechanism is designed to be simple, steady and precise position adjustment that improves tool-changing precision and speed.



■ Automatic Air Blow Clean Function

The automatic air blow clean function is installed inside the fixed FA mounting no need to install the additional valve for air blow.

■ With the hard treatment to make hitting head have appropriate hardness, easily adjustable left-hand thread.

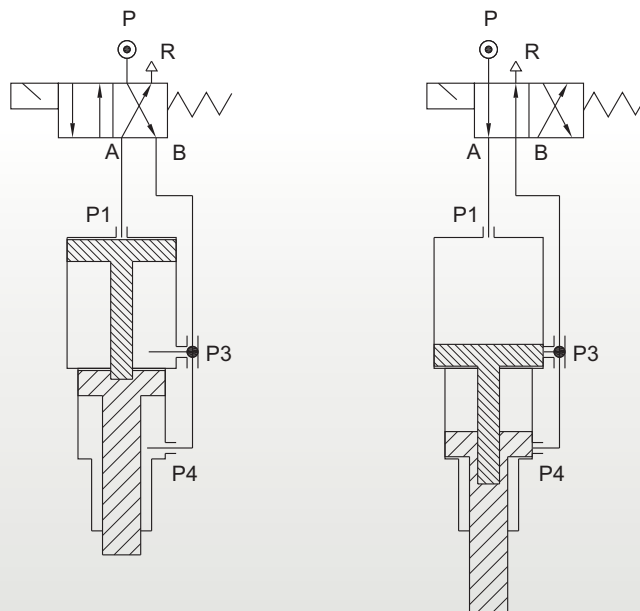


■ With Oil Level Sensing Installation

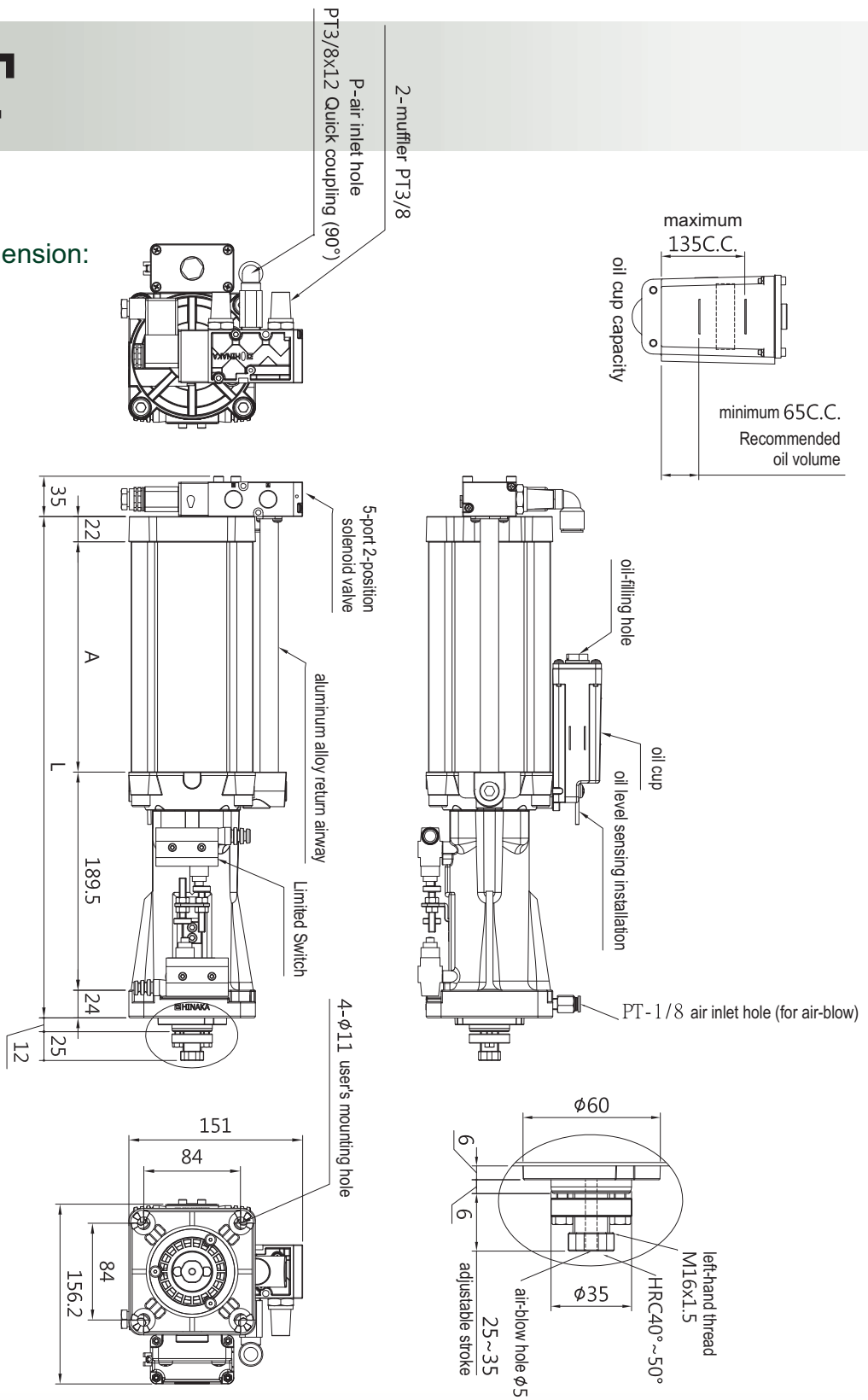
Oil cup is designed to be flat and fit the tube perfectly. It is stable, non-leakage, non-space occupation and non-obliquity. A float inside and the sensor outside the oil cup can sense the oil level and to give the information to the computer in advance to avoid any loss caused by wrong timing between unclamping and clamping and the machine shutdown. Oil cup is made of PC, which is corrosive-resistance, hitting-endurance and see-through.

Oil level sensing installation

Circuit:



BPT Standard type Dimension:



unit: mm

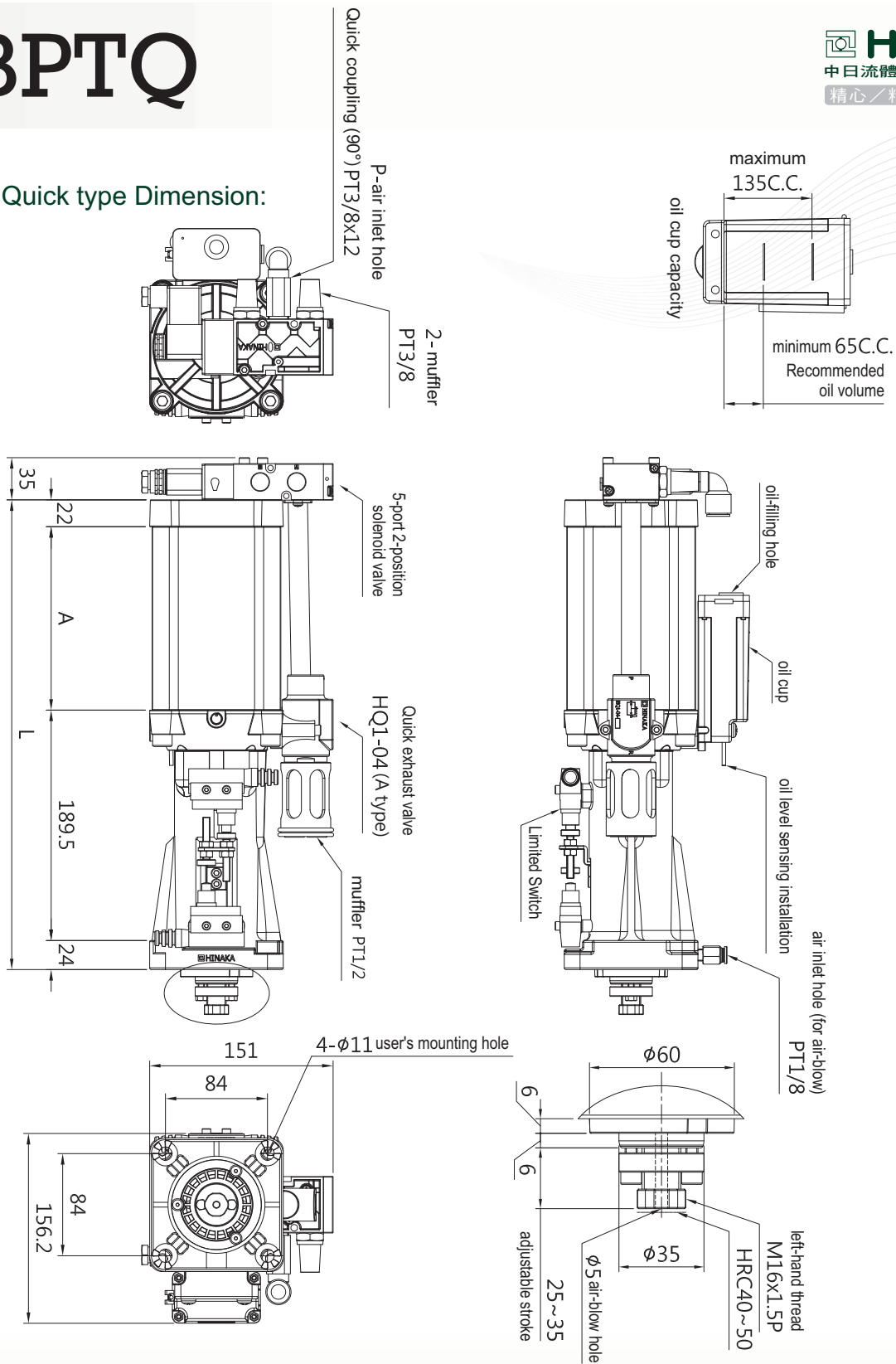
Specifications	A	L	theoretical boosted output force (kgf)			Boosting Ratio
			4	5	6	
2.0T×ST13	103	339	1256	1570	1884	16
2.0T×ST15	111	347				
2.0T×ST17	119	355				
2.5T×ST13	116	352	1564	1956	2347	19.9
2.5T×ST15	126	362				
2.5T×ST17	136	372				
3.0T×ST13	132	367	1963	2453	2944	25
3.0T×ST15	145	381				
3.0T×ST17	157	392				

Specifications	A	L	theoretical boosted output force (kgf)			Boosting Ratio
			4	5	6	
3.5T×ST13	151	386	2423	3029	3634	30.8
3.5T×ST15	167	403				
3.5T×ST17	182	417				
4.5T×ST13	181	416	3066	3833	4600	39
4.5T×ST15	200	435				
4.5T×ST17	220	455				

- Remark 1: Without this hole for standard type if this hole is needed, please tell us.
- Remark 2: Proximity Switch is optional.

BPTQ

BPTQ Quick type Dimension:



unit: mm

Specifications	A	L	theoretical boosted output force (kgf)			Boosting Ratio
			4	5	6	
2.0T×ST13	103	339	1256	1570	1884	16
2.0T×ST15	111	347				
2.0T×ST17	119	355				
2.5T×ST13	116	352	1564	1956	2347	19.9
2.5T×ST15	126	362				
2.5T×ST17	136	372				
3.0T×ST13	132	367	1963	2453	2944	25
3.0T×ST15	145	381				
3.0T×ST17	157	382				

Specifications	A	L	theoretical boosted output force (kgf)			Boosting Ratio
			4	5	6	
3.5T×ST13	154	389	2423	3029	3634	30.8
3.5T×ST15	151	386				
3.5T×ST17	167	403				
4.5T×ST13	182	417	3066	3833	4600	39
4.5T×ST15	181	416				
4.5T×ST17	200	435				

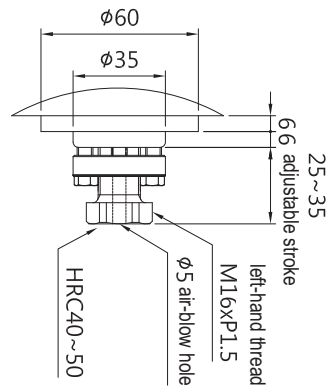
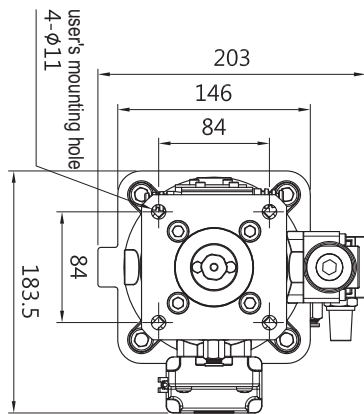
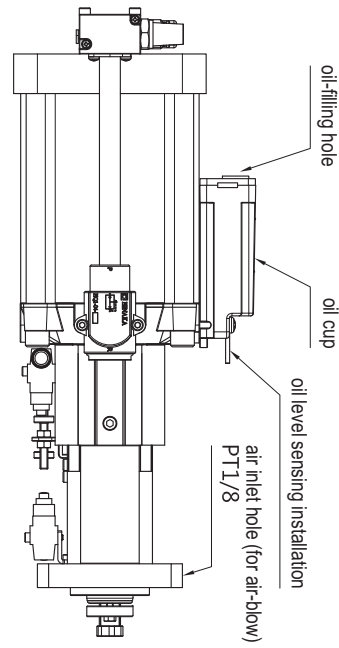
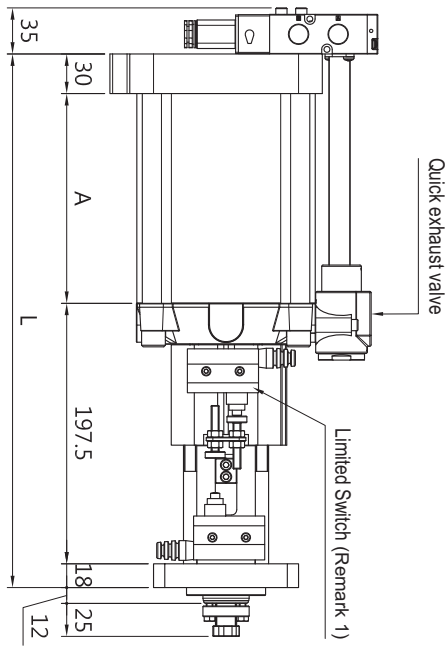
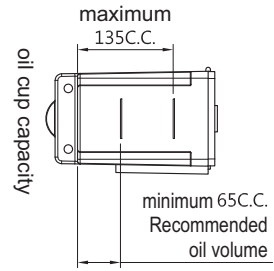
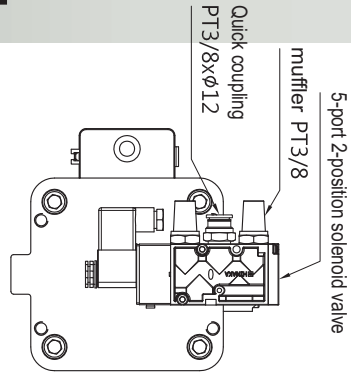
- Remark 1: Without this hole for standard type if this hole is needed, please tell us.
- Remark 2: Proximity Switch is optional.



BPTH

BPTH

High force output
Dimension:



unit: mm

Specifications	A	L	theoretical boosted output force (kgf)			Boosting Ratio
			4	5	6	
6.0T×ST13	134	369.5				
6.0T×ST15	149	384.5	3787.6	4734.5	5681.4	48.23
6.0T×ST17	164	399.5				
7.0T×ST13	159	394.5				
7.0T×ST15	179	414.5	4793.7	5992.1	7190.5	61.04
7.0T×ST17	199	434.5				

● Remark 1: Proximity Switch is optional.