



Hydro-Pneumatic Tool De-Clamp Cylinders PCT Series



for Machining Centers (VMC & HMC)

Application

- To provide high thrust over a short stroke using compressed air. Ideal for use where hydraulics is not used or cannot be used. Widely used in machining centers (VMC & HMC).

Priming

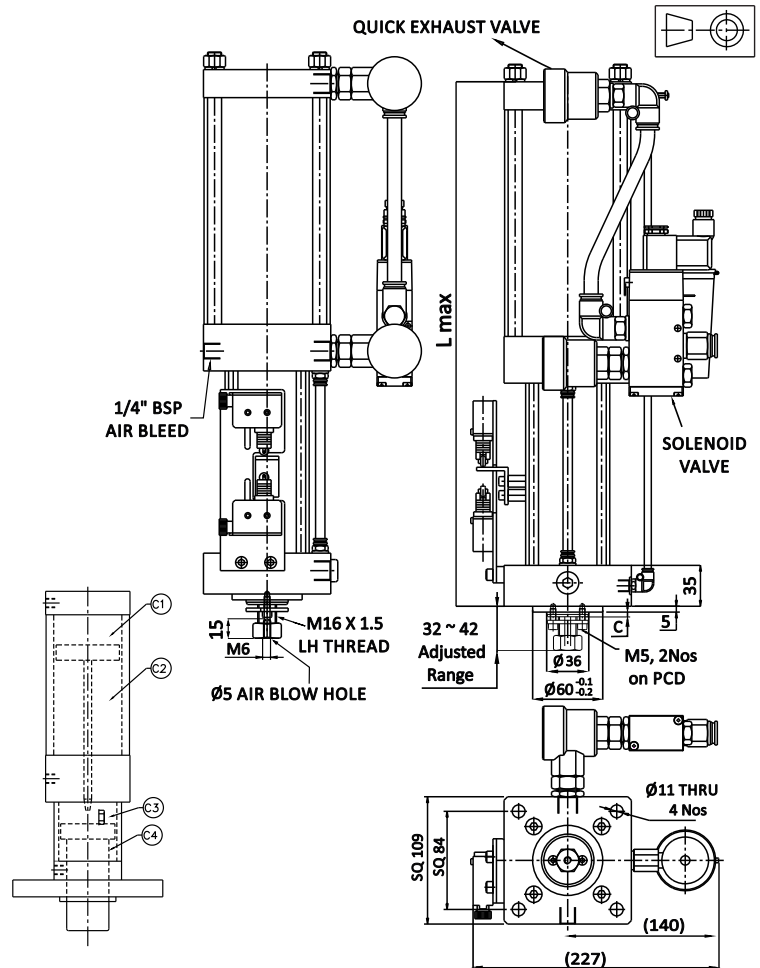
- Pressurize chambers C2 & C4. Open the bleed port & pour oil into the reservoir. When oil starts to flow out of bleed port, plug it. The system is primed & ready to use.

Working Principle

- Compressed air in chamber C1 forces the piston rod into chamber C3 which is primed with oil from the reservoir. As the rod progresses into the sealed area of chamber C3 the oil gets pressurized proportionate to the intensification ratio & this moves the piston rod over the required high pressure stroke. Compressed air is then supplied to chambers C2 & C4 to return both pistons to their original position.

Maintenance

- This unit can operate on dry & filtered air. It is advisable to use lubricated air for longer life. Once lubricated air is used, the unit should not be operated on dry air.
- Oil level in the reservoir should be maintained as marked.
- If excess oil is observed through the valve exhaust ports or oil level in the reservoir drops quickly, there may be a seal failure. If so, replace entire seal kit.



SUPPLY SPECIFICATION

Sl. No.	THEORETICAL THRUST in kgf			STROKE in mm	PART No.	L	C
	at 4 kg/cm ²	at 5 kg/cm ²	at 6 kg/cm ²				
1	1562	1943	2343	11	PCT2-10036-VC11	354	6
2	1562	1943	2343	13	PCT2-10036-VC13	364	4
3	1960	2450	2940	11	PCT3-10036-VC11	367	6
4	1960	2450	2940	13	PCT3-10036-VC13	381	4
5	1960	2450	2940	15	PCT3-10036-VC15	397	2
6	1960	2450	2940	17	PCT3-10036-VC17	410	0
7	3062	3828	4593	13	PCT4-10036-VC13	449	4
8	3062	3828	4593	15	PCT4-10036-VC15	491	2
9	3062	3828	4593	17	PCT4-10036-VC17	533	0
10	4000	5000	6000	13	PCT5-10036-VC13	513	4
11	4000	5000	6000	15	PCT5-10036-VC15	559	2
12	4000	5000	6000	17	PCT5-10036-VC17	607	0