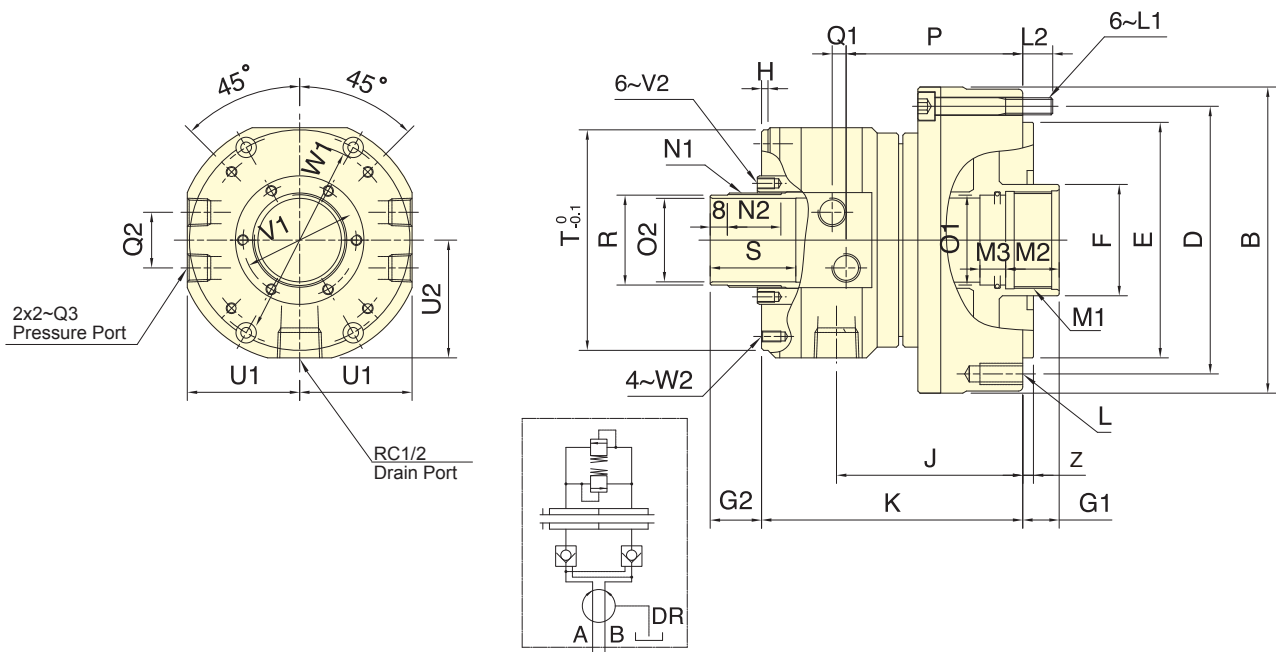




- This is a compact, short form, light weight through-hole rotary cylinder.
 - With patented build-in safety check valves and pressure relief valves.
 - Large feed port and drain port, large input and keep drain smoothly.
 - Can be screwed from the front end or rear end of cylinder when mounting.
 - For use with vertical or horizontal spindles.
- Patent numbers :
 Taiwan : PAT.NO.M491534
 China : PAT.NO.ZL201420584274.5



Subject to technical changes

SPECIFICATIONS

Model	Eff. piston area		Piston stroke mm	Max. speed min ⁻¹ (r.p.m.)	Max. pressure MPa(kgf/cm ²)	I Moment of inertia kg·m ²	Weight kg	Total oil leakage lit. / min.
	Extend cm ²	Retract cm ²						
	TR-539	72.4						
TR-646	105.0	93.9	15	7000	4.0(40)	0.015	9.5	3.0

DIMENSIONS

Model	A	B	C	D	E	F	G1		G2		H	J	K	L	L1	L2	M1	M2
	I.D.				h7		max.	min.	max.	min.								
TR-539	107	143	125	125	110	52	15	0	34	19	4	97	133	6-M10x20	M8x60	12	M45x1.5	25
TR-646	128	165	147	147	130	65	15	0	34	19	3.5	97	135	12-M10x20	M8x60	11.5	M55x2	25

Model	M3	N1	N2	O1	O2	P	Q1	Q2	Q3	R	S	T	U1	U2	V1	V2	W1	W2	Z
				H8	H8					g7									
TR-539	12	M44x1.5	25	42	39	92.5	6.5	26	RC1/4	42	40	103	52.5	55	53	M5x8	90	M5x9	5
TR-646	13	M52x1.5	25	50	46	93	6.5	32	RC3/8	50	50	116	59	62	61.5	M5x9	98	M5x9	5