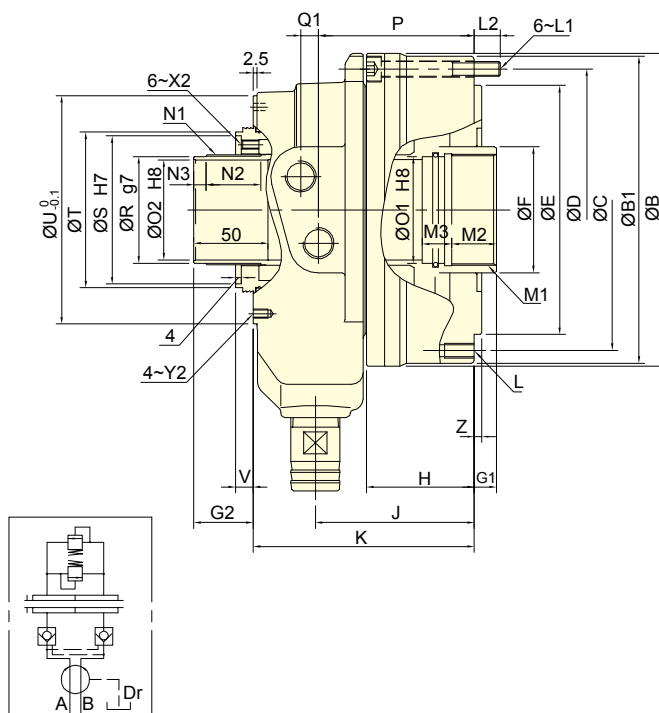
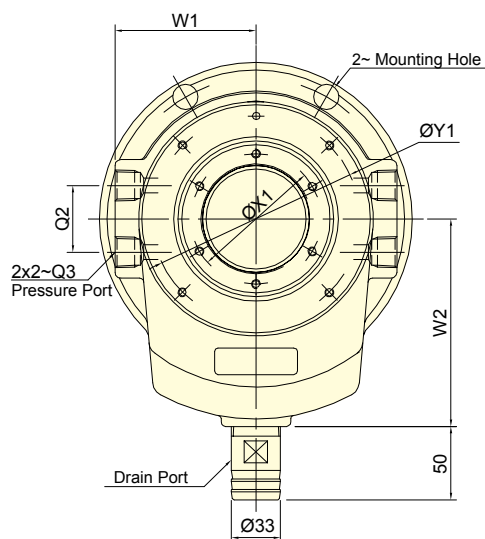




- Bigger bore through-hole design. Super short form, light weighted.
- Built-in safety check valves and pressure relief valves.
- Front/Rear end mounting.
- Diameter of coolant collector's drain port is optional.
Default : Ø33 ; optional : Ø40, Ø60.
- Linear sensor can be attached. (optional)



Subject to technical changes

SPECIFICATIONS

Model	Eff. piston area		Piston stroke	Max. speed	Max. pressure	Moment of inertia	Weight	Total oil leakage
	Extend	Retract						
	cm ²	cm ²						
TS-539	72.4	67.1	15	8000	4.5 (45)	0.012	6.9	3.0
TS-866	168.0	155.5	25	5600	4.5 (45)	0.056	16.3	4.0
TS-1081	189.2	174.3	25	4800	4.5 (45)	0.085	21.2	4.3
TS-1012	231.7	222.0	30	3500	3.5(35)	0.193	35.6	6.0

DIMENSIONS

Model	A	B	B1	C	D	E	F	G1		G2		H	J	K	L	L1	L2	M1	M2	M3
	I.D.					h7		max.	min.	max.	min.									
TS-539	107	143	141	125	125	110	52	15	0	42.5	27.5	57	91	124	6~M10x20	M8x60	12	M45x1.5	25	12
TS-866	165	211	207	190	190	168	85	25	0	55	30	72.5	107	149	12~M10x20	M10x80	17.5	M75x2	35	15
TS-1081	180	226	222	205	205	168	100	25	0	58	33	74	115	166	12~M10x20	M10x90	18	M90x2	35	15
TS-1012	210	263	260	240	240	200	125	30	0	64	34	93.5	136.5	193.5	12~M10x20	M12x100	20	M115x2	35	15

Model	N1	N2	N3	O1 (H8)	O2 (H8)	P	Q1	Q2	Q3	R (g7)	S (H7)	T	U	V	W1	W2	X1	X2	Y1	Y2	Z
TS-539	M44x1.5	26	8	42	39	85	8.5	30	RC1/4	42	69	72	103	10	62.5	100	54	M6x10	90	M5x12	5
TS-866	M74x1.5	37	8	72	66.5	105	12	45	RC1/2	72	100	111	154	12	95	140	88	M6x12	140	M6x10	5
TS-1081	M89x2.0	38	9	85	81	109	15	45	RC1/2	86	113	123	175	16	103	160	103	M6x12	160	M6x10	5
TS-1012	M118x2.0	47	9	110	106	131	16	46	RC1/2	115	145	151	210	16	103	160	133	M6x12	195	M6x11	5

*Coolant Collector and Confirmation Device. Please See Accessories pages.