



ROTARY CYLINDER

Large Thru-Hole High Speed Hydraulic Cylinder with Open Centre

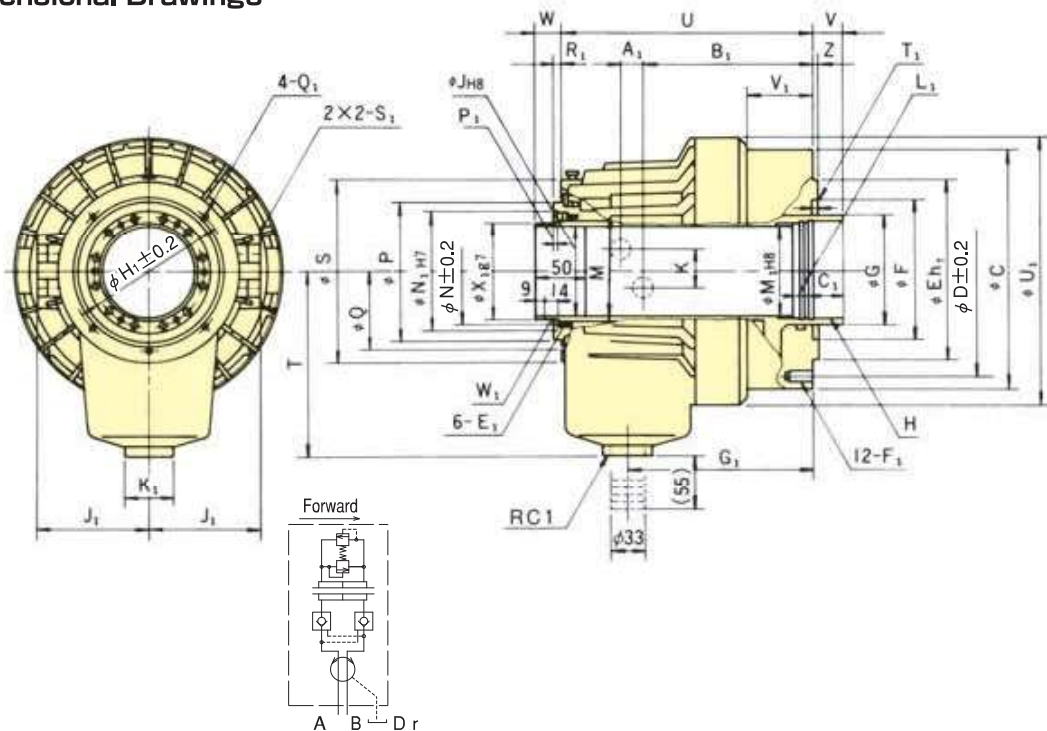
S series

KITAGAWA standard thru-hole type

- Compact and light weight
 - Built-in check valve and relief valve
- *CE correspondence (Only series with checking device)



Dimensional Drawings



Cylinder

Dimensions

Model	C	D	E	F	G	H	J Thru-hole	K	M	N	P	Q	S	T	U	V max.	V min.	W max.	W min.	Z	A1
S1246	155	130	100	80	65	M 55×2.0	46	36	52.9	64	85	51.5	118	115	179	15	0	40	25	5	11.5
S1552	190	170	130	85	70	M 60×2.0	52	36	59.6	73	96	57.5	137	130	191	22	0	47	25	5	12
S1875	215	190	160	120	95	M 85×2.0	75	36	84.6	98	121	70.5	166	160	225	25	0	50	25	5	17.5
S2091	240	215	180	140	110	M100×2.0	91	34	99.6	108	138	79	182	185	248	30	0	55	25	5	21

Model	B1	C1	E1 depth	F1 depth	G1	H1	J1	K1	L1	M1	N1	P1	Q1 depth	R1	S1	T1	U1	V1	W1	X1
S1246	126.5	30	M6×9	M10×20	135	98	76	47	15	50	76	4	M5×10	6	RC1/2	6	200	46	M52×1.5	50
S1552	136	30	M6×9	M10×20	145	110	86	47	15	55	85	4	M6×12	7	RC1/2	6	220	51	M58×1.5	56
S1875	153.5	35	M6×9	M10×20	166.5	155	101	47	15	80	108	4	M6×12	7	RC1/2	6	242	58	M84×2.0	81
S2091	168	35	M6×14	M12×24	183	165	110	47	15	95	120	4	M6×12	7	RC1/2	6	267	66	M99×2.0	96

Specifications

*Total leakage : Pressure 3.00MPa (30.6kgf/cm²) and oil temperature 50°C. *Draw bar pull force : Pressure 4.00MPa (40.8kgf/cm²)

Model	Piston Dia. mm	Piston stroke mm	Piston Area	Draw bar	Max. Operation Pressure	Max. Speed	Moment of Inertia	Net Weight	Total leakage
			Push Side cm ² / Pull Side cm ²	Push Side kN(kgf) / Pull Side kN(kgf)	MPa (kgf/cm ²)	min ⁻¹	kg·m ²	kg	ℓ / min
S1246	125	15	100 / 89	38.0(3875) / 33.0(3365)	4.00 (40.8)	7000	0.019	12.0	3.0
S1552	155	22	161 / 150	60.0(6118) / 56.0(5710)	4.00 (40.8)	6200	0.053	16.8	3.9
S1875	180	25	198 / 183	74.0(7546) / 69.0(7036)	4.00 (40.8)	4700	0.095	26.0	4.2
S2091	205	30	252 / 234	94.0(9585) / 88.0(8973)	4.00 (40.8)	3800	0.153	33.0	4.5