

SD Mega-Bore Short body Open-Center Hydraulic Cylinder



Application

Large bore work in machines with limited clearance

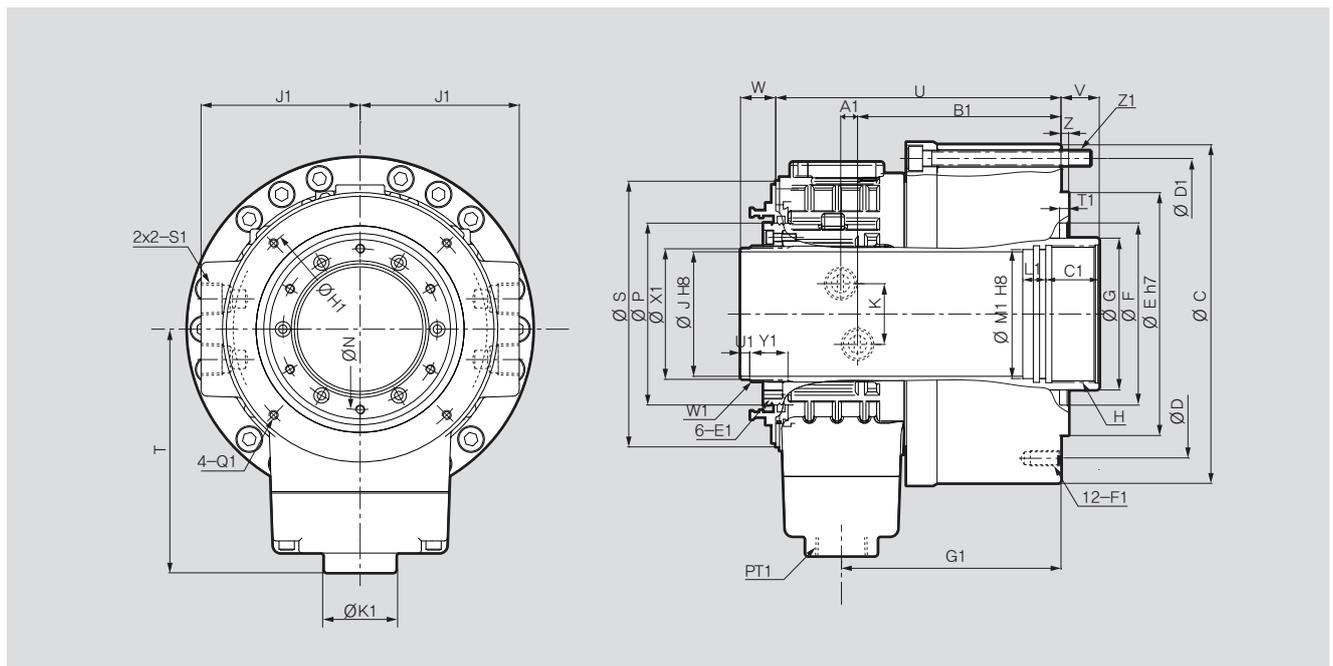
Technical features

Low drain rate reduces heat generation

SPECIFICATIONS

	SD-13546	SD-15452	SD-17568	SD-18577	SD-18582	SD-21510	SDL-25411	SDL-30516
Available I.D. [mm]	46	52	68	77	82	103	117.5	166.5
Piston Dia. [mm]	132	156	170	185	185	220	250	305
Piston Stroke [mm]	25	25	29	29	30	35	50	51
Piston Surface Area (Push) [cm ²]	108	151	172	201	195	238	356	480
Piston Surface Area (Pull) [cm ²]	97	142	160	187	180	230	325	436
Piston Force (Push) [kN(kgf)]	47(4800)	67(6800)	75(7656)	89(9000)	85(8700)	105(10700)	138(14100)	152(15483)
Piston Force (Pull) [kN(kgf)]	44(4500)	63(6400)	70(7050)	82(8300)	79(8100)	101(10300)	126(12900)	138(14060)
Max. Operating Pressure [MPa(kgf/cm ²)]	4.5(45)	4.5(45)	4.5(45)	4.5(45)	4.5(45)	4.5(45)	4.0(40)	3.3(33)
Max. r.p.m. [min ⁻¹]	7000	6200	5600	5000	4800	3600	3000	2000
Moment of inertia [kg-m ²]	0.03	0.045	0.07	0.097	0.11	0.25	0.5	1.45
Weight [kg]	10	14	18	23	26	37	54	90
Total Leakage [ℓ/min]	2.5	3	3.2	3.5	3.5	4.5	6	8.4

- ※ Maximum turning speed is based upon actual measurement.
- ※ Specifications are subject to change without notice.



- ※ See the product dimension Table on the right.

DIMENSIONS

	SD-13546	SD-15452	SD-17568	SD-18577	SD-18582	SD-21510	SDL-25411	SDL-30516
ΦC	165	190	210	218	223	266	310	370
ΦD	130	170	190	190	190	225	275	290
ΦD1	147	170	190	200	205	240	275	345
ΦE	100	130	160	160	160	200	230	260
ΦF	80	85	120	120	120	160	166	240
ΦG	65	70	85	95	100	125	140	190
H	M52x2.0	M60x2.0	M75x2.0	M85x2.0	M90x2.0	M112x2.0	M130x2.0	M180x3.0
ΦJ	46	52	68	77	82	103	117.5	166.5
K	36	36	40	40	40	48	46	42
N	63	76	92	102	106	128	138	188
ΦP	79.8	89.8	105.8	115.8	119.8	173.5	170	222
ΦS	116	135	154	164	175	208	230	278
T	125	134	141	149.5	160.5	174.5	204	230
U	159.5	149.5	173	180.5	186.5	216.5	258	290
V max	15	22	25	25	25	35	46	51
V min	-10	-3	-4	-4	-5	0	-4	0
W max	41.5	51	58.5	57.5	53	63	75	76
W min	16.5	26	29.5	28.5	23	28	25	25
Z	5	5	5	5	5	5	6	5
A1	8.5	8.5	11	11	11	14	18	17.5
B1	117.5	107.5	122.5	129.5	133	153.5	178.5	206
C1	30	30	30	35	35	30	45	45
E1	M6							
F1	M10 TAP DP'20	M12 TAP DP'20	M16 TAP DP'32	M16 TAP DP'32				
G1	125.5	115.5	132.5	139.5	143.5	163	194.5	221
H1	105	118	145	155	160	190	206	256
J1	75	80	90	95	104	120	135	160
K1	47	47	47	47	47	47	47	47
L1	15	15	21	15	15	15	20	20
M1	48	55	71	80	85	106	123	170
Q1	M5 TAP DP'10	M6 TAP DP'10	M6 TAP DP'10	M6 TAP DP'10	M6 TAP DP'13	M6 TAP DP'10	M6 TAP DP'12	M6 TAP DP'12
S1	G 3/8	G 1/2						
T1	7	7	8	5	8	6	6	7
W1	M52x1.5	M58x1.5	M74x1.5	M84x2.0	M89x2.0	M120x2.0	M124x2.0	M173x2.0
ΦX1	50	56	71.5	81	86	117	121.5	170.5
Y1	21	27	28	26	25	34	29	45
U1	4	9	8	9	6	6	9	8
Z1	6-M8x95	6-M8x85	6-M10x100	8-M8x110	6-M10x110	6-M12x120	8-M12x140	12-M12x160