SD-E Mega-Bore Short body Open-Center Hydraulic Cylinder (Europe type)



Application

On lathes requiring a large bore and an ultra compact body for clearance
Mounting dimensions are ideal for European machine and mounting standards

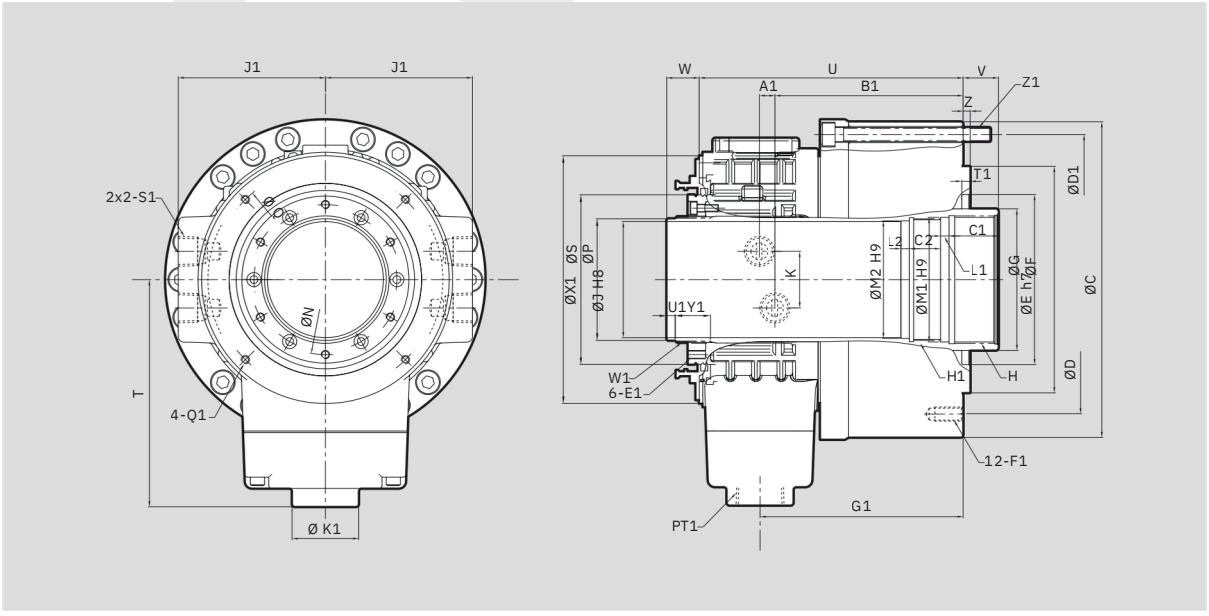
Technical features

The low drain rate reduces the heat generated by the hydrualic unit

SPECIFICATIONS

	SD-13546E	SD-15452E	SD-16567E	SD-17577E	SD-18582E	SD-19568E	SD-20595E	SD-21511E
Available I.D. [mm]	46.5	52.5	67.5	77	82	86.5	95.5	110.5
Piston Dia. [mm]	132	151	165	177	185	190	205	220
Piston Stroke [mm]	25	25	29	29	30	34	34	35
Piston Sruface Area (Push) [cm2]	111	144	164	189	195	203	233	257
Piston Surface Area (Pull) [cm2]	100	134	152	175	180	187	215	237
Piston Force (Push) [kN(kgf)]	47(4800)	62(6285)	67(6863)	80(8100)	85(8700)	90(9200)	105(10700)	115(11700)
Piston Force (Pull) [kN(kgf)]	44(4500)	57(5850)	62(6351)	73(7400)	79(8100)	83(8500)	95(9700)	107(10900)
Max. Operating Pressure [MPa(kgf/cr	4.5(45)	4.5(45)	4.5(45)	4.5(45)	4.5(45)	4.5(45)	4.5(45)	4.5(45)
Max. r.p.m. [min-1]	7000	6200	5600	5000	4800	4500	4000	3600
Moment of inertia [kg·m2]	0.03	0.045	0.07	0.097	0.11	0.13	0.17	0.28
Weight [kg]	10	14	18	23	26	27	29	440
Total Leakage [ℓ/min]	2.5	3	3.2	3.5	3.5	4	5	7

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



※ See the product dimension Table on the right.

DIMENSIONS

	SD-13546E	SD-15452E	SD-16567E	SD-17577E	SD-18582E	SD-19568E	SD-20595E	SD-21511E
ΦC	162	182	197	214	223	228	245	266
ΦD	147	165	180	195	205	210	227	240
ΦD1	147	165	180	195	205	210	227	240
ΦE	130	140	160	160	168	180	210	210
ΦF	80	85	120	120	120	120	130	160
ΦG	61	70	85	95	100	105	115	130
H	M55x2.0	M60x1.5	M75x2.0	M85x2.0	M90x2.0	M95x2.0	M105x2.0	M120x2.0
H1	M50x1.5	M55x2.0	M72x1.5	M80x2.0	-	M90x2.0	M100x2.0	M115x2.0
ΦJ	46.5	52.5	67.5	77	82	86.5	95.5	110.5
K	36	36	40	40	40	40	40	48
N	66	76	92	102	106	112	124	139
ΦP	79.8	89.8	105.8	115.8	119.8	125.8	137.8	173.5
ΦS	116	135	154	164	175	181	188	208
T	119	134	141	149.5	159.5	158.5	166	174.5
U	149	148	172.5	175	186.5	194	204	233.5
V max	22	22	25	25	23	31	31	31
V min	-3	-3	-4	-4	-7	-3	-3	-4
W max	42	45.5	51.5	49	53	55	55	63
W min	17	20.5	22.5	20	23	21	21	28
Z	5	5	8	8	5	8	8	8
A1	8.5	8.5	11	11	11	13	13	14
B1	107.5	107.5	122.5	122.5	133	136	143	170.5
C1	25	25	25	25	35	32	32	32
C2	25	28	28	28	-	30	30	30
E1	M6	M6	M6	M6	M6	M6	M6	M6
F1	M10 TAP DP'20	M10 TAP DP'20	M10 TAP DP'17	M10 TAP DP'20	M10 TAP DP'20	M10 TAP DP'20	M10 TAP DP'20	M12 TAP DP'24
G1	115.5	115.5	132.5	132.5	143.5	144	151	180
J1	75	80	90	95	104	108	116	120
K1	47	47	47	47	47	47	47	47
L1	6	6	6	6	15	6	6	6
L2	6	6	6	6	-	6	6	6
M1	52.5	57	72.5	82	85	92	102.5	117.5
M2	47	52.5	69	77	-	87	97	112
Q	105	118	145	155	160	168	168	190
Q1	M5 TAP DP'10	M6 TAP DP'10	M6 TAP DP'10	M6 TAP DP'10	M6 TAP DP'13	M6 TAP DP'12	M6 TAP DP'12	M6 TAP DP'12
S1	G 3/8	G 3/8	G 3/8	G 3/8	G 3/8	G 3/8	G 3/8	G 3/8
T1	7	7	8	8	8	9	9	9
W1	M52x1.5	M60x1.5	M74x1.5	M84x1.5	M89x2.0	M94x2.0	M104x2.0	M120x2.0
ΦX1	50	58	71	81	86	91	101	117
Y1	21	21	24	25	25	26	26	34
U1	4	5	5	5	6	5	6	6
Z1	6-M8x90	6-M8x90	6-M10x100	6-M10x100	6-M10x110	6-M10x105	6-M10x110	6-M10x135