

Features

1. Improving for adapting wide range applications, using precise polishing of piston rod, more sense of products quality and longer life of front seal.
2. Adjust the structure to the optimal state, and ensure the smooth operation of the product.
3. The piston rod and the back cover cramping technology, improving product quality.
4. Combined with enterprise color planning, it is redesigned by new color system and precise treatment of particulars.



The back cover cramping



SDA32X5



SDA16X30



SDA50X60-B



SDA25X60-B



SDA50X60

Cylinder
Calculation
SI
SI A.
SIB
SQ
DNT
SC / SU
SCT
SC A.
SL
DN
DSN
DN/DSN A.
MA
MAC
MA/MAC A.
MAL
MALC
MAL/MAL A.
SDA
CQ2
TCQ2
ADN
TADN
PPRM
MHL2
Pneumatic Fingers
MXH/MXQ
CJP
CJ2
CDU
TN
CXS
MGP
MSQ

Ordering Code

SDA	20	x	30	-	10	-	S	-	B	-	MT
Series	Bore		Stroke		Adjustable Stroke		Magnet		Thread Type		Sensor
SDA: Double acting	12	16	5-130mm		10: 10mm		S : With magnet		Blank: Female thread		JEL-01R
	20	25			20: 20mm		Blank : Without magnet		B: Male thread		JEL-11R
	32	40			30: 30mm						
SSA: Single acting, spring-out	50	63			50: 50mm						
	80	100			75: 75mm						
					100: 100mm						
STA: Single acting, spring-in											
SDAD: Double-shaft type											
SDAJ : Double-shaft with adjustable stroke											

* Standard wire length is 1 meter, please specify for other length

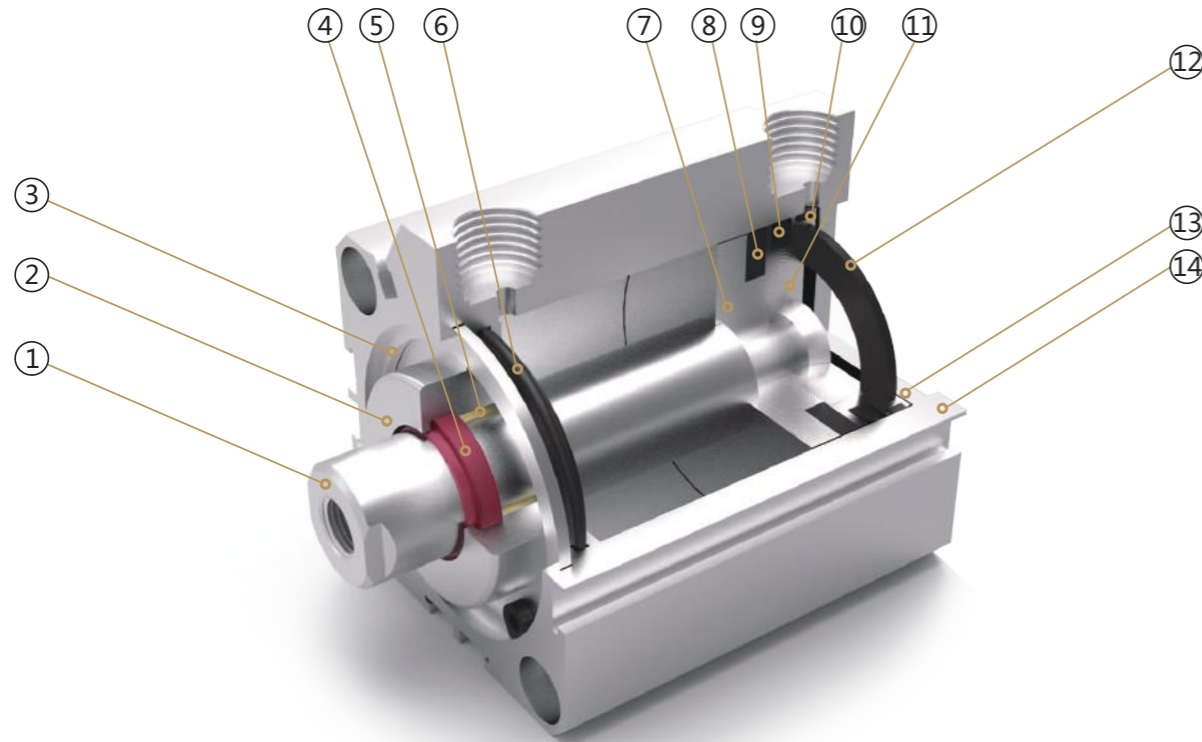
Specification

Bore (mm)		12	16	20	25	32	40	50	63	80	100	
Operation		Double Acting										
		Single Acting Spring-out / Single Acting Spring-in									-	
Working Medium		Air										
Operating Pressure Range	Double Acting	0.1 ~ 1.0MPa										
	Single Acting	0.2 ~ 0.9MPa									-	
Proof Pressure		1.5 MPa										
Operating Temperature Range		-20 ~ 80 °C										
Operating Speed Range	Double Acting	30 ~ 500 mm/s				30 ~ 350 mm/s			30 ~ 250 mm/s			
	Single Acting	50 ~ 500 mm/s									-	
Port Size		M5×0.8			G1/8"			G1/4"		G3/8"		

SDA Series Compact Cylinder



Internal Structure



Parts

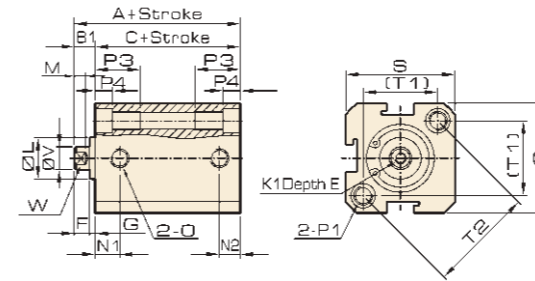
Number	Name	Number	Name
1	Piston rod	8	Magnet
2	Front cover	9	Piston seal
3	C clip	10	Anti-friction seal
4	Shaft seal	11	Magnet base
5	DU bearing	12	Anti-collision gasket
6	O ring	13	Back cover
7	Piston	14	Body

ISO9001:2015 CE

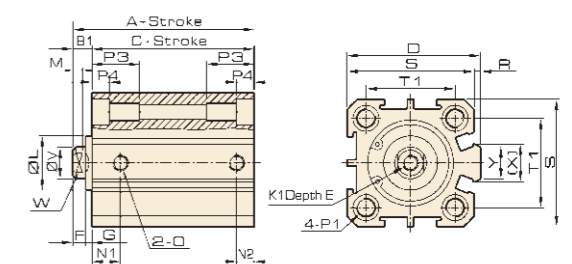
SDA Series Compact Cylinder

Overall Dimension

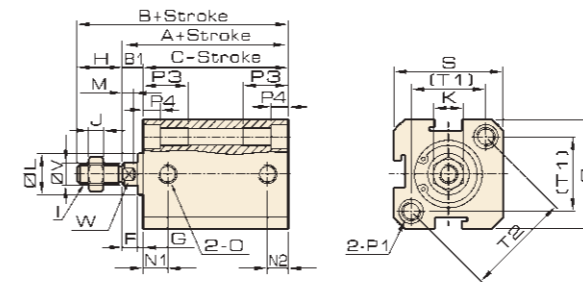
SDA12-16 Female thread



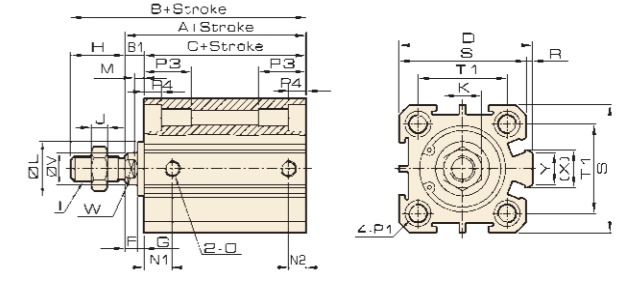
SDA20-100 Female thread



SDA12-16 Male thread



SDA20-100 Male thread



Dimension

Bore/ Symbol	A		B		C		B1	D	E	F	G	H	I	J	K	K1	L	M
	Standard	With magnet	Standard	With magnet	Standard	With magnet												
12	22	32	34	44	17	27	5	-	6	4	2	12	M5×0.8	4	8	M3×0.5	10	3
16	24	34	36	46	18.5	28.5	5.5	-	6	4	2	12	M5×0.8	4	8	M3×0.5	11	3
20	25	35	40	50	19.5	29.5	5.5	36	8	4	1.5	15	M6×1.0	5	10	M4×0.7	13	3
25	27	37	44	54	21	31	6	42	10	4	2	17	M8×1.25	6	14	M5×0.8	17	3
32	31.5	41.5	49.5	59.5	24.5	34.5	7	50	12	4	3	18	M10×1.25	6	17	M6×1.0	22	3
40	33	43	61	71	26	36	7	58.5	12	4	3	28	M14×1.5	8	22	M8×1.25	28	3
50	37	47	65	75	28	38	9	71.5	15	5	4	28	M18×1.5	9	27	M10×1.5	38	3
63	41	51	69	79	32	42	9	84.5	15	5	4	28	M18×1.5	9	27	M10×1.5	40	3
80	52	62	85	95	41	51	11	104	20	6	5	33	M22×1.5	13	32	M14×1.5	45	4
100	63	73	101	111	51	61	12	124	20	7	5	38	M26×1.5	12	36	M18×1.5	55	4

Bore/ Symbol	N1		N2		O	P1										
	S=5	S>5	S=5	S>5		P3	P4	R	S	T1	T2	V	W	X	Y	
12	7.5	5			M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	12	4.5	-	25	16.3	23	6	5	-	-
16	8	5	5.5		M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	12	4.5	-	29	19.8	28	6	5	-	-
20	8.5	5.5			M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	14	4.5	2	34	24	-	8	6	11.2	10
25	9	5.5			M5×0.8	Double Side: Φ8.2, Cog: M6×1, Through Hole: Φ4.6	15	5.5	2	40	28	-	10	8	12	10
32	9	6.5	8		G1/8	Double Side: Φ8.2, Cog: M6×1, Through Hole: Φ4.6	16	5.5	6	44	34	-	12	10	18	14
40	9	7.5			G1/8	Double Side: Φ10, Cog: M8×1.25, Through Hole: Φ6.7	20	7.5	6.5	52	40	-	16	14	21	14
50	8	10.5	8	10.5	G1/4	Double Side: Φ11, Cog: M8×1.25, Through Hole: Φ6.7	25	8.5	9.5	62	48	-	20	17	29.5	19
63	9.5	11	9.5	11	G1/4	Double Side: Φ11, Cog: M8×1.25, Through Hole: Φ6.7	25	8.5	9.5	75	60	-	20	17	26	19
80	11.5	14	11.5	14	G3/8	Double Side: Φ15, Cog: M12×1.75, Through Hole: Φ10.3	25	10.5	10	94	74	-	25	22	36	26
100	15	20	15	18	G3/8	Double Side: Φ17.5, Cog: M14×2, Through Hole: Φ11.3	30	13	10	114	90	-	32	27	35.5	26

Cylinder
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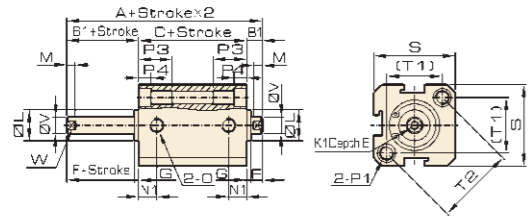
Cylinder
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SDA Series Compact Cylinder

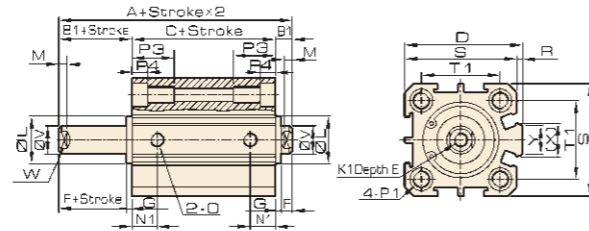


Overall Dimension

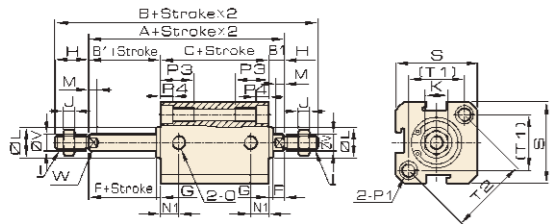
SDAD12-16 Female thread



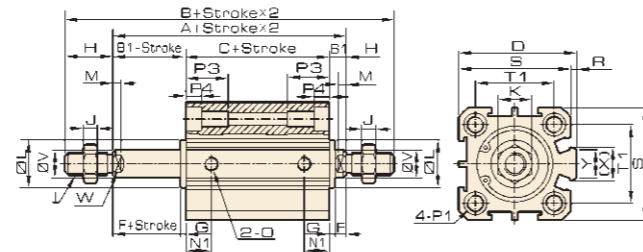
SDAD20-100 Female thread



SDAD12-16 Male thread



SDAD20-100 Male thread



Dimension

Bore/Symbol	A		B		C		B1	D	E	F	G	H	I	J	K	K1	L	M	N1	
	Standard	With magnet	Standard	With magnet	Standard	With magnet													S=5	S>5
12	27	37	51	61	17	27	5	-	6	4	2	12	M5×0.8	4	8	M3×0.5	10	3	5.5	6.5
16	29.5	39.5	53.5	63.5	18.5	28.5	5.5	-	6	4	2	12	M5×0.8	4	8	M3×0.5	11	3	6.5	7.5
20	30.5	40.5	60.5	70.5	19.5	29.5	5.5	36	8	4	1.5	15	M6×1.0	5	10	M4×0.7	13	3	7.5	
25	33	43	67	77	21	31	6	42	10	4	2	17	M8×1.25	6	14	M5×0.8	17	3	8	
32	38.5	48.5	74.5	84.5	24.5	34.5	7	50	12	4	3	18	M10×1.25	6	17	M6×1.0	22	3	8	9
40	40	50	96	106	26	36	7	58.5	12	4	3	28	M14×1.5	8	22	M8×1.25	28	3	8	10
50	46	56	102	112	28	38	9	71.5	15	5	4	28	M18×1.5	9	27	M10×1.5	38	3	8	10.5
63	50	60	106	116	32	42	9	84.5	15	5	4	28	M18×1.5	9	27	M10×1.5	40	3	9.5	11
80	63	73	129	139	41	51	11	104	20	6	5	33	M22×1.5	13	32	M14×1.5	45	4	11.5	14
100	75	85	151	161	51	61	12	124	20	7	5	38	M26×1.5	12	36	M18×1.5	55	4	15	20

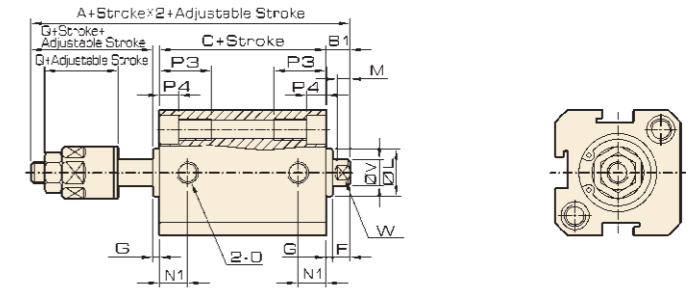
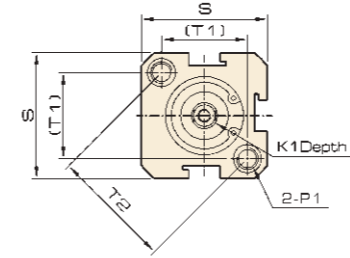
Bore/Symbol	O	P1	P3	P4	R	S	T1	T2	V	W	X	Y
12	M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	12	4.5	-	25	16.3	23	6	5	-	-
16	M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	12	4.5	-	29	19.8	28	6	5	-	-
20	M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	14	4.5	2	34	24	-	8	6	11.2	10
25	M5×0.8	Double Side: Φ8.2, Cog: M6×1, Through Hole: Φ4.6	15	5.5	2	40	28	-	10	8	12	10
32	G1/8	Double Side: Φ8.2, Cog: M6×1, Through Hole: Φ4.6	16	5.5	6	44	34	-	12	10	18	14
40	G1/8	Double Side: Φ10, Cog: M8×1.25, Through Hole: Φ6.7	20	7.5	6.5	52	40	-	16	14	21	14
50	G1/4	Double Side: Φ11, Cog: M8×1.25, Through Hole: Φ6.7	25	8.5	9.5	62	48	-	20	17	29.5	19
63	G1/4	Double Side: Φ11, Cog: M8×1.25, Through Hole: Φ6.7	25	8.5	9.5	75	60	-	20	17	26	19
80	G3/8	Double Side: Φ15, Cog: M12×1.75, Through Hole: Φ10.3	25	10.5	10	94	74	-	25	22	36	26
100	G3/8	Double Side: Φ17.5, Cog: M14×2, Through Hole: Φ11.3	30	13	10	114	90	-	32	27	35.5	26

ISO9001:2015 CE

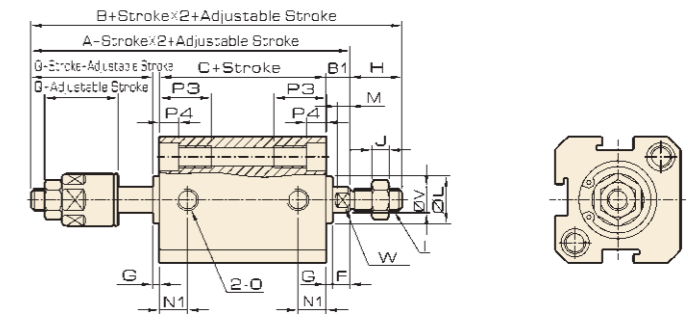
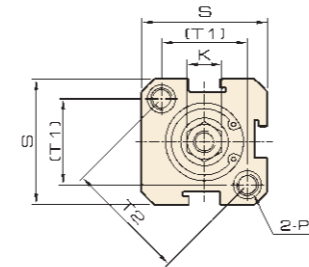
SDA Series Compact Cylinder

Overall Dimension

SDAJ12-16 Female thread



SDAJ12-16 Male thread



Dimension

Bore/Symbol	A		B		C		B1	D	E	F	G	H	I	J	K	K1	L	M	N1	
	Standard	With magnet	Standard	With magnet	Standard	With magnet													S=5	S>5
12	41	51	53	63	17	27	5	-	6	4	2	12	M5×0.8	4	8	M3×0.5	10	3	5.5	6.5
16	43	53	55	65	18.5	28.5	5.5	-	6	4	2	12	M5×0.8	4	8	M3×0.5	11	3	6.5	7.5
20	47.5	57.5	62.5	72.5	19.5	29.5	5.5	36	8	4	1.5	15	M6×1.0	5	10	M4×0.7	13	3	7.5	
25	53	63	70	80	21	31	6	42	10	4	2	17	M8×1.25	6	14	M5×0.8	17	3	8	
32	61.5	71.5	79.5	89.5	24.5	34.5	7	50	12	4	3	18	M10×1.25	6	17	M6×1.0	22	3	8	9
40	64	74	92	102	26	36	7	58.5	12	4	3	28	M14×1.5	8	22	M8×1.25	28	3	8	10
50	70	80	98	108	28	38	9	71.5	15	5	4	28	M18×1.5	9	27	M10×1.5	38	3	8	10.5
63	74	84	102	112	32	42	9	84.5	15	5	4	28	M18×1.5	9	27	M10×1.5	40	3	9.5	11
80	92.5	102.5	125.5	135.5	41	51	11	104	20	6	5	33	M22×1.5	13	32	M14×1.5	45	4	11.5	14
100	110.5	120.5	148.5	158.5	51	61	12	124	20	7	5	38	M26×1.5	12	36	M18×1.5	55	4	15	20

Bore/Symbol	O	P1	P3	P4	Q	R	S	T1	T2	V	W	X	Y
12	M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	12	4.5	17	-	25	16.3	23	6	5	-	-
16	M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	12	4.5	17	-	29	19.8	28	6	5	-	-
20	M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	14	4.5	21	2	34	24	-	8	6	11.2	10
25	M5×0.8	Double Side: Φ8.2, Cog: M6×1, Through Hole: Φ4.6	15	5.5	24	2	40	28	-	10	8	12	10
32	G1/8	Double Side: Φ8.2, Cog: M6×1, Through Hole: Φ4.6	16	5.5	27	6	44	34	-	12	10	18	14
40	G1/8	Double Side: Φ10, Cog: M8×1.25, Through Hole: Φ6.7	20	7.5	28	6.5	52	40	-	16	14	21	14
50	G1/4	Double Side: Φ11, Cog: M8×1.25, Through Hole: Φ6.7	25	8.5	29	9.5	62	48	-	20	17	29.5	19
63	G1/4	Double Side: Φ11, Cog: M8×1.25, Through Hole: Φ6.7	25	8.5	29	9.5	75	60	-	20	17	26	19
80	G3/8	Double Side: Φ15, Cog: M12×1.75, Through Hole: Φ10.3	25	10.5	35.5	10	94	74	-	25	22	36	26
100	G3/8	Double Side: Φ17.5, Cog: M14×2, Through Hole: Φ11.3	30	13	42.5	10	114	90	-	32	27	35.5	26

SDA Series

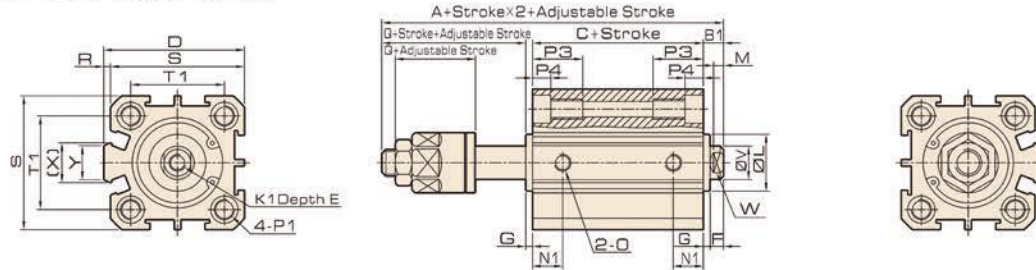
Compact Cylinder



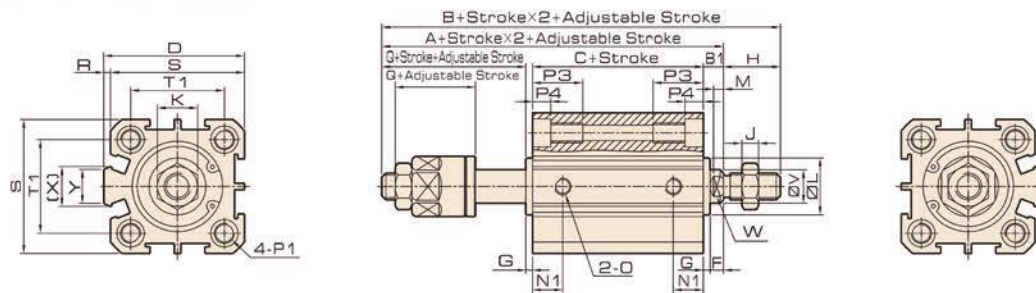
- Cylinder
- Calculation
- SI
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- DNT
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- MAL/MALC A.
- SDA**
- CQ2
- TCQ2
- ADN
- TADN
- PPRM
- MHL2
- Pneumatic Fingers
- MXH/MXQ
- CJP
- CJ2
- CDU
- TN
- CXS
- MGP
- MSQ

Overall Dimension

SDAJ20-100 Female thread



SDAJ20-100 Male thread



Dimension

Bore/ Symbol	A		B		C		B1	D	E	F	G	H	I	J	K	K1	L	M	N1	
	Standard	With magnet	Standard	With magnet	Standard	With magnet													S=5	S>5
12	41	51	53	63	17	27	5	-	6	4	2	12	M5×0.8	4	8	M3×0.5	10	3	5.5	6.5
16	43	53	55	65	18.5	28.5	5.5	-	6	4	2	12	M5×0.8	4	8	M3×0.5	11	3	6.5	7.5
20	47.5	57.5	62.5	72.5	19.5	29.5	5.5	36	8	4	1.5	15	M6×1.0	5	10	M4×0.7	13	3	7.5	
25	53	63	70	80	21	31	6	42	10	4	2	17	M8×1.25	6	14	M5×0.8	17	3	8	
32	61.5	71.5	79.5	89.5	24.5	34.5	7	50	12	4	3	18	M10×1.25	6	17	M6×1.0	22	3	8	9
40	64	74	92	102	26	36	7	58.5	12	4	3	28	M14×1.5	8	22	M8×1.25	28	3	8	10
50	70	80	98	108	28	38	9	71.5	15	5	4	28	M18×1.5	9	27	M10×1.5	38	3	8	10.5
63	74	84	102	112	32	42	9	84.5	15	5	4	28	M18×1.5	9	27	M10×1.5	40	3	9.5	11
80	92.5	102.5	125.5	135.5	41	51	11	104	20	6	5	33	M22×1.5	13	32	M14×1.5	45	4	11.5	14
100	110.5	120.5	148.5	158.5	51	61	12	124	20	7	5	38	M26×1.5	12	36	M18×1.5	55	4	15	20

Bore/ Symbol	O	P1	P3	P4	Q	R	S	T1	T2	V	W	X	Y
12	M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	12	4.5	17	-	25	16.3	23	6	5	-	-
16	M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	12	4.5	17	-	29	19.8	28	6	5	-	-
20	M5×0.8	Double Side: Φ6.5, Cog: M5×0.8, Through Hole: Φ4.2	14	4.5	21	2	34	24	-	8	6	11.2	10
25	M5×0.8	Double Side: Φ8.2, Cog: M6×1, Through Hole: Φ4.6	15	5.5	24	2	40	28	-	10	8	12	10
32	G1/8	Double Side: Φ8.2, Cog: M6×1, Through Hole: Φ4.6	16	5.5	27	6	44	34	-	12	10	18	14
40	G1/8	Double Side: Φ10, Cog: M8×1.25, Through Hole: Φ6.7	20	7.5	28	6.5	52	40	-	16	14	21	14
50	G1/4	Double Side: Φ11, Cog: M8×1.25, Through Hole: Φ6.7	25	8.5	29	9.5	62	48	-	20	17	29.5	19
63	G1/4	Double Side: Φ11, Cog: M8×1.25, Through Hole: Φ6.7	25	8.5	29	9.5	75	60	-	20	17	26	19
80	G3/8	Double Side: Φ15, Cog: M12×1.75, Through Hole: Φ10.3	25	10.5	35.5	10	94	74	-	25	22	36	26
100	G3/8	Double Side: Φ17.5, Cog: M14×2, Through Hole: Φ11.3	30	13	42.5	10	114	90	-	32	27	35.5	26