CE ISO9001

DSNU (IS06432) Series Stainless Steel Mini Cylinder

Inner structure and material of major parts

NO.	Item	Material	
		8-12(Bore size)	16-40(Bore size)
1	Rod	SUS304	
2	Rod nut	Carbon steel	
3	Front cover packing	NBR	
4	Front cover nut	Carbon steel	
5	Bushing	Wear resistant material	
6	Front cover	Aluminum alloy	
7	Barrel	SUS304	
8	Bumper	TPU	
9	Piston	SUS303	Aluminum alloy
10	Piston O-ring	NBR	
11	Wear ring	Wear resistant material	
12	Nut	Carbon steel	
13	Back cover	Aluminum alloy	

Dimensions

DSNU

Remark: The dimensions of magnet type cylinder are the same as non-magnet type cylinder.

Item Bore size	A	A1	A2	A3	A4	A5	A6	B	C	C1	C2	D	E	F	G	G1	H	I
8	76	64	46	86	74	-	-	28	12	9.5	5	9.5	5	6	11.5	7	12	12
10	76	64	46	86	74	-	-	28	12	9.5	5	9.5	5	6	11.5	7	12	12
12	91	75	50	105	88	-	-	38	17	10.5	6	10.5	6	9	12.5	8	16	17
16	98	82	56	111	94	111	94	38	17	10.5	6	10.5	6	9	12.5	8	16	17
20	115	95	62	126	106	126	106	44	20	14.5	7.5	14.5	7.5	12	14.5	7.5	20	20
25	126	104	65	137	114.5	137	115	50	22	16	8	16	8	12	16	8	22	22
32	-	-	-	-	125	140	126	58	14	16.5	9	-	-	-	16.5	9	20	30
40	-	-	-	-	158	174	158	69	16	22	12	-	-	-	22	12	24	35

Item Bore size	J	K	L	M	N	O	P	P1	Q	R	S	T	T1	X	V	W	Y
8	2.5	M4 × 0.7	M12 × 1.25	6	16	10	17	4	8	12	15	7	17	M5 × 0.8	4	-	-
10	2.5	M4 × 0.7	M12 × 1.25	6	16	10	17	4	8	12	15	7	17	M5 × 0.8	4	-	-
12	5	M6 × 1.0	M16 × 1.5	6	22	14	20	6	12	16	18	10	22	M5 × 0.8	6	-	5
16	5	M6 × 1.0	M16 × 1.5	6	22	13	22	6	12	16	20	10	22	M5 × 0.8	6	13.5	5
20	6	M8 × 1.25	M22 × 1.5	7	24	11	29	8	16	22	25	12	29	1/8"	8	16.5	6
25	6	M10 × 1.25	M22 × 1.5	7	28	11	33.5	8	16	22	30	17	29	1/8"	10	18.5	8
32	6	M10 × 1.25	M30 × 1.5	7	38	-	37.5	-	-	30	34.5	17	36	1/8"	12	10.5	10
40	7	M12 × 1.25	M38 × 1.5	8	45	-	46.5	-	-	38	42.5	17	46	1/4"	16	12.5	14

DSNU-C

Bore size/Item	A	A1	A2	A3	A4	A5	B	C	D
16	98	82	56	111	94	111	38	17	12.1
20	115	95	62	126	106	126	44	20	14.5
25	126	104	65	137	113.5	137	50	22	16

Bore size/Item	D1	D2	D3	E	F	G	G1	G2
16	7	9	12.1	6	9	12.5	7.5	9.5
20	7.5	10.5	14.5	8	12	14.5	7.5	10.5
25	8	10.5	14.5	8	12	16	8	12

Bore size/Item	H	I	J	K	L	M	O	N
16	16	17	5	M6 × 1.0	M16 × 1.5	6	13	22
20	20	20	6	M8 × 1.25	M22 × 1.5	7	11	24
25	22	22	6	M10 × 1.25	M22 × 1.5	7	11	28

Bore size/Item	P	Q	R	S	T	T1	V	W	X
16	22	12	5	20	10	22	6	13.5	M5 × 0.8
20	29	16	6	25	12	29	8	16.5	1/8"
25	33.5	16	9	30	17	29	10	18.5	1/8"

ϕ32, ϕ40

Bore size/Item	A2	A4	A5	B	C	D	D1	D2	D3	D4
32	68	124	140	58	14	16.5	9	11.5	14.5	7.5
40	89	157.5	174	69	16	22	12	12	21.5	11.5

Bore size/Item	D5	G	G1	G2	H	I	J	K
32	11	16.5	9	11.8	20	30	6	M10 × 1.25
40	14	22	12	12	24	35	7	M12 × 1.25

Bore size/Item	L	M	N	P	S	T	T1	V	W	X
32	M30 × 1.5	7	38	37.5	34.5	17	36	12	10.5	1/8"
40	M38 × 1.5	8	45	46.5	42.5	17	46	16	12.5	1/4"

Remark: The dimensions of magnet type cylinder are the same as non-magnet type cylinder.

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Accessories

Ordering code

- ① Please see accessory list for detailed information of accessories.
 ② SDB is attached with relevant PIN.

Accessory selection

Cylinder model	Accessories				Mounting accessory				Knuckle ①				Sensor switch ②
	LB	FA	SDB	TC	Y	I	F	U	CS1-M				
Standard	●	●	●	●	●	●	●	●	×				
With magnet	●	●	●	●	●	●	●	●	●				
Standard	●	●	●	●	●	●	●	●	×				
With magnet	●	●	×	●	●	●	●	●	●				
Standard	●	●	×	●	●	●	●	●	×				
With magnet	●	●	×	●	●	●	●	●	●				

- ①: Please refer to PVI-33-VI-38 for knuckle detail;
 ②: Please refer to PVI-39-VI-50 for detail of sensor switch.

Material of accessories

Accessories	Mounting accessories				Joint accessories				
	LB	FA	SDB	TC	I	Y	F	U	
Bore size 8-40	SPCC				SUS304				Carbon steel

List for ordering code of accessories

Bore size	Accessories				Mounting accessories				Sensor switch
	LB	FA	SDB	TC	I: I Knuckle	Y: Y Knuckle	F: F Knuckle	U: U Knuckle	
8	F-MI8LB	F-MI8FA	F-MI8SDB	F-MI8TC					CS1-M
10									
12	F-MI12LB	F-MI12FA	F-MI12SDB	F-MI12TC					
16									
20	F-MI20LB	F-MI20FA	F-MI20SDB	F-MI20TC					
25	F-MI32LB	-	F-MI32SDB	F-MI32TC					
32	F-MI40LB	-	F-MI40SDB	F-MI40TC					
40									

Bore size	Accessories				Knuckle				Sensor switch
	I: I Knuckle	Y: Y Knuckle	F: F Knuckle	U: U Knuckle					
8	F-M040070II	F-M04070YE	-	F-M04070U	CS1-M				
10				F-M06100U					
12	F-M06100II	F-M06100YIE	-						
16									
20	F-M08125II	F-M08125YE	F-M08125F	F-M08125U					
25	F-M10125II	F-M10125YE	F-M10125F	F-M10125U					
32		F-M10125YI							
40	F-M12125II	F-M12125YI	F-M12125F	F-M12125U					

FA

Bore size Item	8	10	12	16	20	25
B	28	28	38	38	44	50
C	46	46	50	56	62	65
BB	3	3	4	4	5	5
BC	22	22	30	30	40	40
BE	40	40	52	52	66	66
BF	30	30	40	40	50	50
BP	4.5	4.5	5.5	5.5	6.6	6.6
F	12	12	17	17	20	22

Dimensions