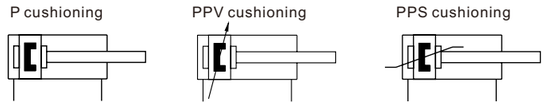
DSNU Series Mini Cylinder





Ordering Code

DSNU Series Mini Cylinder

DSNU — 20 — × — 50 — - — PPV — - — A — - — □ — - — □

- 20 — Bore
- 50 — Stroke
- PPV — Cushion
  - P: Elastic cushioning rings/plates on both sides
  - PPV: Adjustable at both ends with cushion
  - PPS: Self-adjusting at both ends with cushion
- A — Magnet
  - Nil: Without magnet
  - A: With magnet
- □ — Cylinder end cap
  - Nil: Standard
  - MA: Axial air connection, end cap
  - MH: Direct mounting, bearing cap
  - MQ: Transverse supply port, end cap
- □ — Piston rod type
  - Nil: Standard cylinder
  - S2: Double-shaft type
- DSNU — Series code
  - DNSU: Double acting
  - ESNU: Single acting

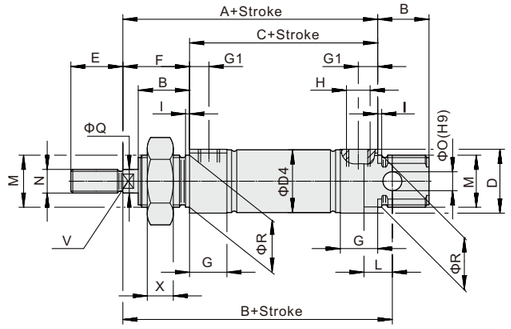
* Bore diameters from 8 to 25 mm are in conformance with ISO 6432.

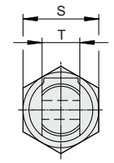
Specifications

Bore (mm)		8	10	12	16	20	25	32	40	50	63
Acting type		Double acting, Single acting									
Working medium		Clean air (40μm filteration)									
Working pressure		0.15 to 1.0MPa			0.1 to 1.0MPa						
Working temperature		-20 to 80°C									
Lubrication		No required									
Speed range		–			10 to 100mm/s			8 to 100mm/s			5 to 100mm/s
Cushion type	DSNU-□-P	Elastic cushion rings									
	DSNU-□-PPV	–		Adjustable cushion							
	DSNU-□-PPS	–		Self-adjustable cushion							
Cushion stroke	DSNU-□-PPV	–		9mm	12mm	15mm	17mm	14mm	18mm	20mm	21mm
	DSNU-□-PPS	–			12mm	15mm	17mm	14mm	18mm	20mm	21mm
Port size		M5	M5	M5	M5	G1/8	G1/8	G1/8	G1/4	G1/4	G3/8
Piston rod thread		M4	M4	M6	M6	M8	M10×1.25	M10×1.25	M12×1.25	M16×1.5	M16×1.5
Mounting type		Direct mounting (variant MH only)									
		With accessories									

DSNU Series Mini Cylinder

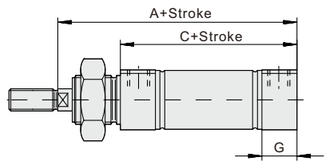
Main Dimensions Φ8 to Φ25
Standard type



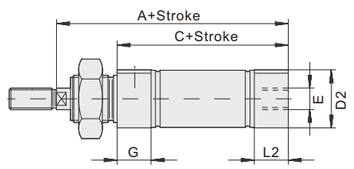


Bore (mm)	A	B	C	ΦD	ΦD4	E	F	G	G1	H	I	J	L	M	N	ΦO (H9)	ΦQ	ΦR (H9)	S	T	V	X
8	62	64	46	15	9.3	12	16	10	6	M5	2	M12×1.25	6	12	M4	4	4	12	19	8	–	6
10					11.3																	
12	72	75	50	20	13.3	16	22					M16×1.5	9	17	M6	6	6	16	24	12	5	8
16	78	82	56		17.3																	
20	92	95	68	27	21.3	20	24	16	8.2	G1/8		M22×1.5	12	20	M8	8	8	22	32	16	7	11
25	97.5	104	69.5		26.5	22	28							22	M10×1.25		10				9	

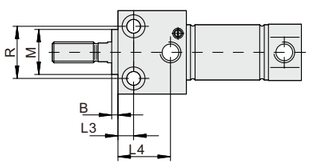
MQ-Lateral supply port, short end cap

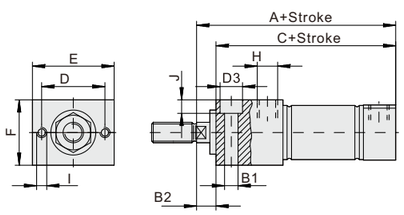


MA-Axial supply port, short end cap



MH-With direct mounting



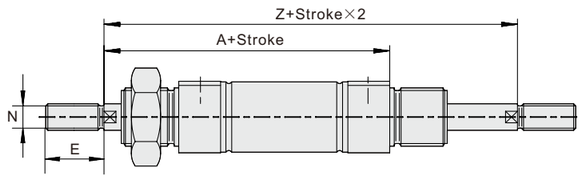


Bore (mm)	A			B	ΦB1	B2	C			D	ΦD2	ΦD3	E	F	G	H	I	J	L2	L3	L4	M	R
	MQ	MA	MH				MQ	MA	MH														
8	62	59.6	61.5	3	3.4	8	46	43.6	53.5	18	10.5	6	24	16	10	M5	M3	3.4	7.6	5	14	12	12
10		59.1	61.8					43.1	53.8		12.5								7.1				
12	72	69.7	72		4.5	10	50	47.7	62	23	14.5	8	30	22			M4	4.5	7.7	6	18.1	16	16
16	78	75.7	77.8				56	53.7	67.5		17.5												
20	92	90.5	91.5		5.5		68	66.5	81.5	31	21.7	10	40	28	16	G1/8	M5	5.5	14.5	7.5	22.4	22	22
25	97.5	96.5	97.2		6.6	11	69.5	68.5	86.2		26.7	11		32				6.6	14		25.2		25

DSNU Series Mini Cylinder

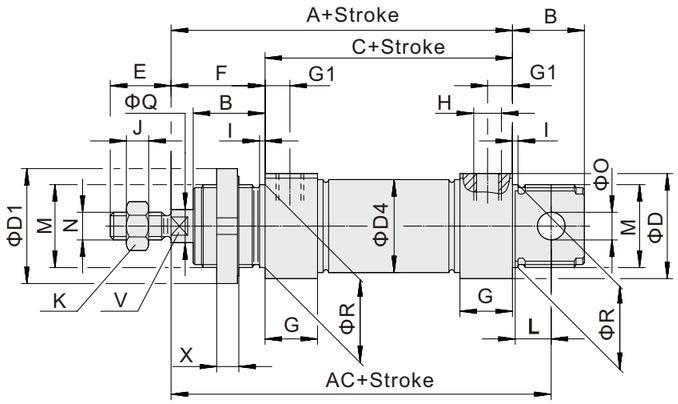
Main Dimensions

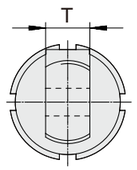
Φ8 to Φ25 S2-Double shaft type



Bore (mm)	A			E	N	Z
	MQ	MA	MH		Basic thread	
8	62	59.6	61.5	12	M4	78.4
10		59.1	61.8			
12	72	69.7	72	16	M6	94
16	78	75.7	77.8			100
20	92	90.5	91.5	20	M8	116
25	97.5	96.5	97.2	22	M10×1.25	125.5

Φ32 to Φ63 Standard type





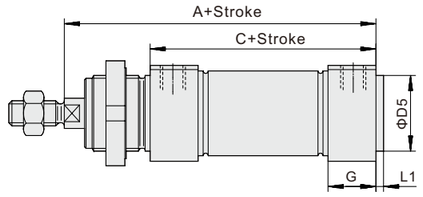
Bore (mm)	A	B	C	AC	ΦD	ΦD1	ΦD4	E	F	G	G1	H	I
32	103.5	26	69.5	117.5	38	42	33.6	22	34	19	9	G1/8	2
40	123.6	30	84.6	139.6	46	50	41.6	24	39	25	12	G1/4	3
50	130.2	33	86.2	147.2	57	60	52.4	32	44				
63	139.2		94.2	156.2	70		65.4		45	28	13	G3/8	

Bore (mm)	J	K	L	M	N	ΦO (H10)	ΦQ	ΦR (H9)	T	V	X
32	5	16	13	M30×1.5	M10×1.25	10	12	30	16	10	8
40	6	18	15	M38×1.5	M12×1.25	12	16	38	18	13	10
50	8	24	16	M45×1.5	M16×1.5	16	20	45	21	17	
63											

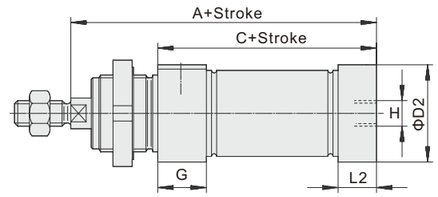
DSNU Series Mini Cylinder

Main Dimensions Φ32 to Φ63

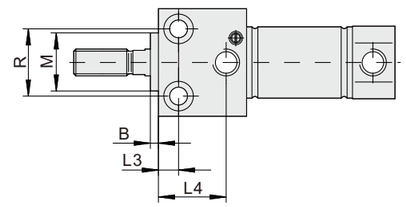
MQ-Lateral supply port, short end cap

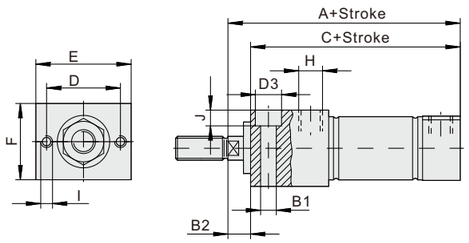


MA-Axial supply port, short end cap



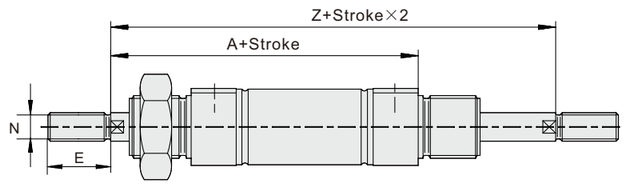
MH-With direct mounting





Bore (mm)	A			B	ΦB1	B2	C			D	ΦD2	D3	ΦD5	E	F	G	H	I	J	L1	L2	L3	L4	M	R
	MQ	MA	MH				MQ	MA	MH																
32	103.5	99.5	97.5	4	6.6	12	69.5	65.5	85.5	38	34	11	30	48	40	19	G1/8	M5	6.6	3	15	12	25	30	30
40	123.6	116.5	116.5		9		84.6	77.6	104.6	42	42	14	38	54	48	25	G1/4		9	4	18	15	32	38	38
50	130.2	130.2	124.2			15	86.2	86.2	109.2	50	53		45	64	58			M6			25		35	45	42
63	139.2	139.2	132.2		11		94.2	94.2	117.2	52	66	18		72	72	28	G3/8	M8	11		28		36		44

S2-Double shaft type



Bore (mm)	A			E	N	Z
	MQ	MA	MH		Basic thread	
32	103.5	99.5	97.5	22	M10×1.25	137.5
40	123.6	111.6	116.6	24	M12×1.25	162.6
50	130.2	130.2	124.2	32	M16×1.5	174.2
63	139.2	139.2	132.2			184.2