

Model designation

DSA **32** - **38** - **21**

- 1 Cylinder diameter (mm)
- 2 Stroke (mm)
- 3 Gas charge pressure (MPa)

1 Cylinder diameter

- 19** : 19 mm
- 25** : 25 mm
- 32** : 32 mm
- 38** : 38 mm
- 50** : 50 mm

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2 Stroke

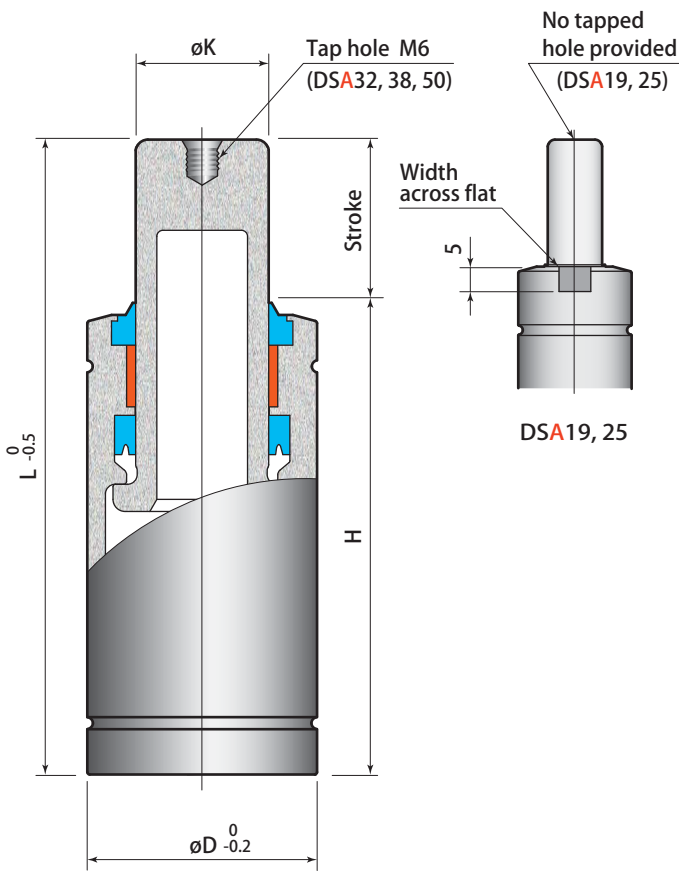
- 10** : 10 mm
- 15** : 15 mm
- 20** : 20 mm
- 25** : 25 mm
- 32** : 32 mm
- 38** : 38 mm
- 45** : 45 mm
- 50** : 50 mm

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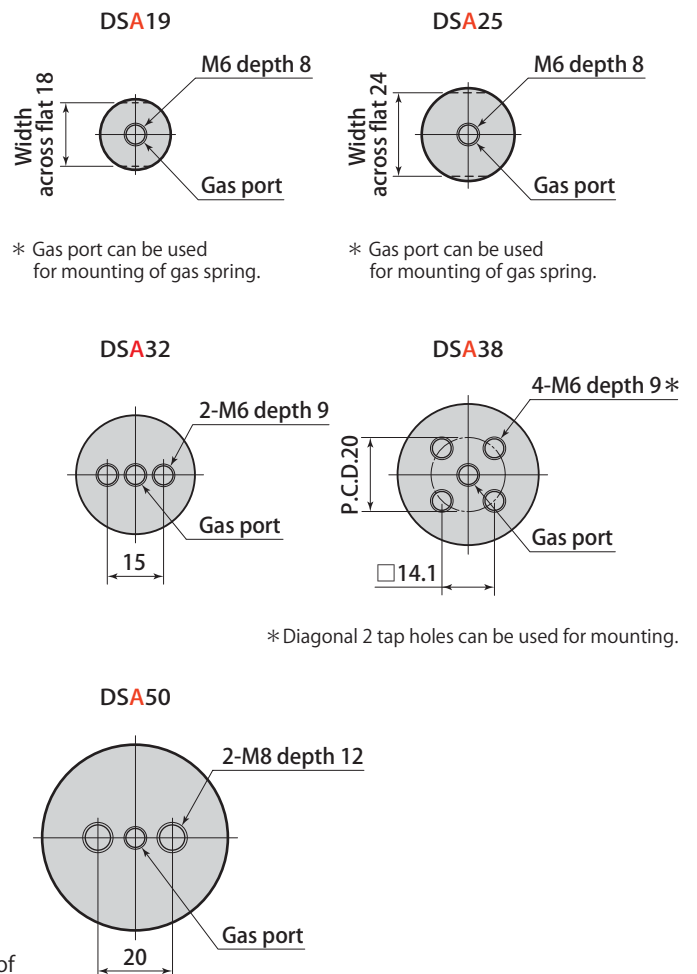
3 Gas charge pressure

- 15** : 15 MPa
- 18** : 18 MPa
- 21** : 21 MPa
- OS** : Specify "OS" when delivery without gas charge. Charged pressure is unadjustable after delivery.

Dimensions



Cylinder base



⚠ Tips for stroke selection

Use gas spring stroke as long as possible to achieve optimal performance of lubrication inside the cylinder.

Model	Stroke mm	Cylinder øD mm	Initial force		Full stroke load		Mass kg	L mm	H mm	K mm
			kN	kgf	kN	kgf				
DSA19-	15	19	1.06	108	1.44	147	0.1	85	70	8
	20				1.44	147	0.1	95	75	
	25				1.44	147	0.1	105	80	
	32				1.43	146	0.1	120	88	
	38				1.47	150	0.1	135	97	
	45				1.45	148	0.1	150	105	
	50				1.45	148	0.2	160	110	
DSA25-	15	25	2.38	243	3.10	316	0.2	85	70	12
	20				3.14	320	0.2	95	75	
	25				3.21	327	0.2	105	80	
	32				3.23	329	0.2	120	88	
	38				3.34	341	0.2	135	97	
	45				3.33	340	0.2	150	105	
	50				3.34	341	0.3	160	110	
DSA32-	10	32	5.34	545	7.78	793	0.3	75	65	18
	15				8.01	817	0.3	85	70	
	20				8.14	830	0.3	95	75	
	25				8.23	839	0.3	105	80	
	32				8.20	836	0.4	120	88	
	38				8.30	846	0.4	135	97	
	45				8.27	843	0.4	150	105	
	50				8.30	846	0.4	160	110	
	DSA38-				10	38	7.98	814	11.5	
15		11.9	1213	0.4	85				70	
20		12.2	1244	0.4	95				75	
25		12.3	1254	0.5	105				80	
32		12.3	1255	0.5	120				88	
38		12.7	1295	0.6	135				97	
45		12.6	1285	0.6	150				105	
50		12.6	1285	0.6	160				110	
DSA50-		10	50	16.9	1723				23.5	2396
	15	23.5				2396	1.0	115	100	
	20	24.5				2498	1.0	125	105	
	25	25.3				2580	1.1	135	110	
	32	25.9				2641	1.1	150	118	
	38	25.8				2631	1.2	165	127	
	45	26.2				2672	1.3	180	135	
	50	26.5				2702	1.3	190	140	

mini Gas springs
DSA

- Initial force and full stroke load in the table indicate the figure at 20° C, 21MPa charge pressure.
- Calculate the load in case of 18MPa(15MPa) charge pressure with $(\text{Load at 21MPa}) \times 18 (15) \div 21$.
- Refer to **page** → 21 ~23 for performance table. ● Refer to **page** → 31 ~32 for caution in use.