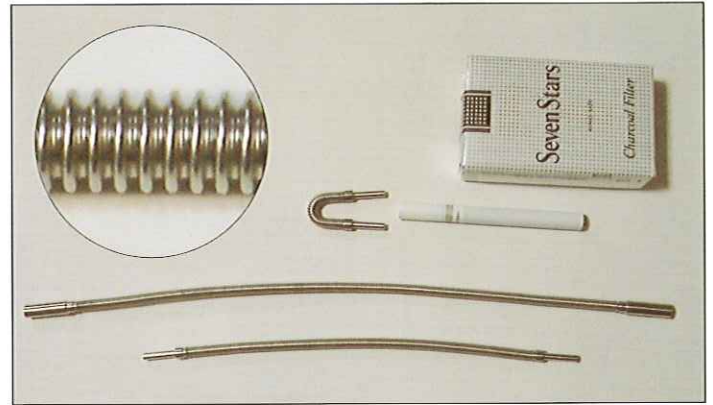


# Smallest Flexible Metal Hose in the world

## 3A SUPER MINI FLEX

**ORK** OSAKA RASENKAN KOGYO CO.,LTD.  
SINCE 1912

Recently semiconductor device and equipment are getting compact and their components are also required to be compact. To respond to this needs we have developed a smallest flexible metal hose in the world "3A Super Mini" with micro mechatronics technology. With our thin, small and material saved "3A Super Mini" Flex we will be committed to provide complete satisfaction to such needs for customer. The micro mechatronics technology has been developed in the semiconductor device industries including semiconductor, flat panel making technology and robots to medical care and instrument for analysis.



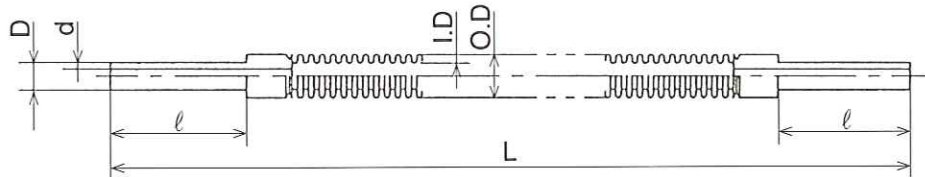
### Standard Specification

**Material:**Stainless steel (SUS316L)  
**Working Pressure:** From ultra-high vacuum to 0.5MPa(5kg/cm<sup>2</sup>)  
**Max.permmissible leakage:** Less than 1.33×10<sup>-10</sup>Pa·m<sup>3</sup>/s(1×10<sup>-9</sup>Torr.ℓ/s)

### Test Result

**Vacuum test:**Contraction rate 0~0.2mm  
**Pressure test:**Elongation rate 0~0.5mm (0.5MPa)  
**Burst Pressure:**Over 22MPa

#### A Type

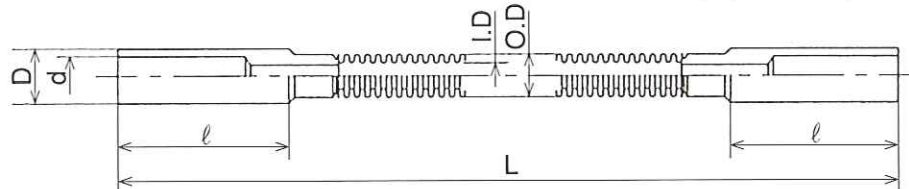


(UNIT:mm)

Nominal I.D	Model Number	I.D	O.D	D	d	ℓ	L	Minimum Bending Radius
1/8"	ORV- 3PS-20-A	3.2	5.0	3.18	1.6	15	200	10
	ORV- 3PS-30-A						300	
	ORV- 3PS-40-A						400	

● The Company reserves the right to alter the specification without notice.

#### B Type



(UNIT:mm)

Nominal I.D	Model Number	I.D	O.D	D	d	ℓ	L	Minimum Bending Radius
1/8"	ORV- 3PS-20-B	3.2	5.0	6.35	4.5	20	200	10
	ORV- 3PS-30-B						300	
	ORV- 3PS-40-B						400	

● The Company reserves the right to alter the specification without notice.

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