

## Bellows type, Cryogenic Liquids and In-line

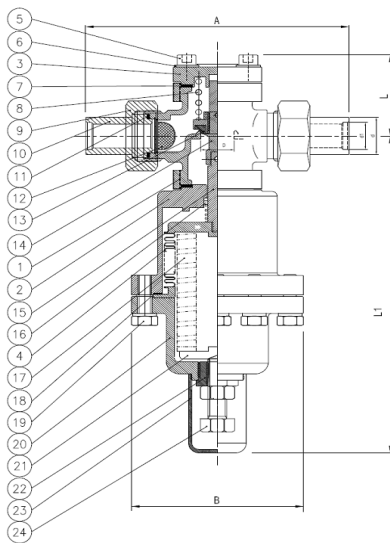
“MC Pressure Regulator” is designed to control pressure on both cryogenic liquid system and in-line. This is used extensively in bulk storage tanks, portable liquid cylinders, vaporizer and pipelines for LO<sub>2</sub>, LN<sub>2</sub>, LAr and LNG. As bellows are used instead of diaphragm, Cv value of regulator is much bigger than the others.

**NS\_500**



### Service characteristics

No	Name	Material	No	Name	Material
1	Body	CF 8	13	Disc Set	PCTFE
2	Cup-Bonnet	CF 8	14	Shaft	SUS 304
3	Flange	CF 8	15	Stem	SUS 304
4	Bellows	SUS304	16	Packing	PTFE
5	Bolt	SUS	17	Act-Spring	SUS
6	Washer	SUS	18	BL-Gasket	V7020
7	Body Gasket	V7020	19	Bolt	SUS
8	Disc Spring	SUS	20	Spring Cup	AL6061
9	Swing	SUS304	21	Bolt Disk	SUS304
10	Nut	C3604	22	Cup Boss	C3604
11	Gasket	V7020	23	Bolt Cup	AL6061
12	Filter	SUS304	24	Adjust Bolt	SUS



### Product Specifications

Description	NS_500G	NS_500L
Design Pressure	3.5	3.5 MPa
Design Temperature	-60°C~60°C	-196°C~75°C
Kind of Fluid	N <sub>2</sub> , O <sub>2</sub> , Ar, CO <sub>2</sub>	
Hydrostatic Test	5.3	5.3 MPa
Pneumatic Test	3.9	3.9 MPa
Adjust Range	0.5~3.5	0.5~3.5 MPa

\* No maintenance is required other than replacement of seat assembly if any problems happen.

### NS500 Ordering information

Model No.	SIZE	ØD	d	d1	L	Wt	A	B	Cv
NS500-15	1/2" (15A)	15	17	21.7	223	20.9	33	M38	1.3
NS500-25	1" (25A)	25	25	34.	243	26.4	41	M48	3.9

\*1. Manufactured by exclusive technology.  
2. G model for gas and L model for liquid.

3. L model is recommended to be upright.

