

## Globe Type, Cryogenic Service, Air-actuated

“Emergency Shut-off Valve” is exclusively designed to provide positive shut-off in case of emergency in cryogenic liquid systems. This valve is used extensively in bulk storage tanks, portable liquid cylinders and pipelines for  $LO_2$ ,  $LN_2$ ,  $LAr$  and LNG.

**NS\_150**

### Product Specifications

Design pressure : 4.0MPa  
 Design temperature:  $-196^{\circ}C \sim 75^{\circ}C$   
 Kind of fluid:  $LN_2$ ,  $LO_2$ ,  $LAr$ ,  $LCO_2$ , LNG,  $LC_2H_4$   
 Hydrostatic test pressure: 6.0MPa  
 Pneumatic test pressure: 4.4MPa  
 Air Supply Pressure: 0.3 ~ 0.8MPa



### Service characteristics

No	Name	Material	No	Name	Material	No	Name	Material
1	Body	CF8	16	Spring	SUP10	31	Spring Washer	SUS 304
2	Bonnet	CF8	17	Name Plate	SUS 304	32	Hex'nut	SUS 304
3	Valve Disc	SUS 304	18	Cap	C3604B	33	“O”ring	VITON
4	Stem Lock Nut	SUS 304	19	V-packing Adapter	PTFE	34	Set Screw	SUS 304
5	Stem	SUS 304	20	V-packing	PTFE	35	Hex'Nut(3Types)	SUS 304
6	Yoke	AC4C	21	Stud Bolt	SUS 304	36	Indicator Plate	SUS 304
7	Stuffing Box	SUS 304	22	Gasket	V#7020	37	Indicator name Plate	AL
8	Adapter	SUS 304	23	Packing	PTFE	38	“O” ring	NBR
9	Gland	SUS 304	24	Disc Seat	PCTFE	39	Fuse Metal	Pb
10	Piston Rod	SUS 304	25	Hand Wheel	ALDC8	40	Wrench Bolt	SUS 304
11	Piston	A2024	26	Hand Wheel Name Plate	AL	41	Hex nut	SUS 304
12	Cylinder Cap	AC4C	27	Extended Pipe	SUS 304TP	42	“O”ring	NBR
13	Piston Stem Nut	SUS 304	28	Hex' nut	SUS 304	43	Spring Washer	SUS 304
14	Guide Bush	C5212	29	Seat Washer	SUS 304	44	Hex'nut	SUS 304
15	Piston Stem	SUS 304	30	Set Screw	SUS 304	45	Exhaust Plug	SUS 304

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

### NS150 Ordering information

Model No.	SIZE	ØD	d	d1	L	L1	I	W	H	Cv
NS150-15A	1/2" (15A)	15	21.9	30	62	9	10	80	620	2.9
NS150-25A	1" (25A)	25	34.2	44	76	12	13.5	100	660	9.3
NS150-40A	1 1/2" (40A)	40	48.8	62	110	14	22	140	770	22
NS150-50A	2" (50A)	50	61	74	130	15	25	140	290	38

- 80A(3") and 100A(4") can be quoted on requisition.
- “-S” affix will be added if 3 way solenoid valve is required.
- Manufactured by patented technology, Certified by KGS.
- 4.0 MPa is standard but 5.0 MPa can also be available.
- Air supply pressure required is more than 0.4 MPa.

