

HIGH FLOW RATE SOLENOID VALVE

M40U SERIES



SIL 3 Certificate

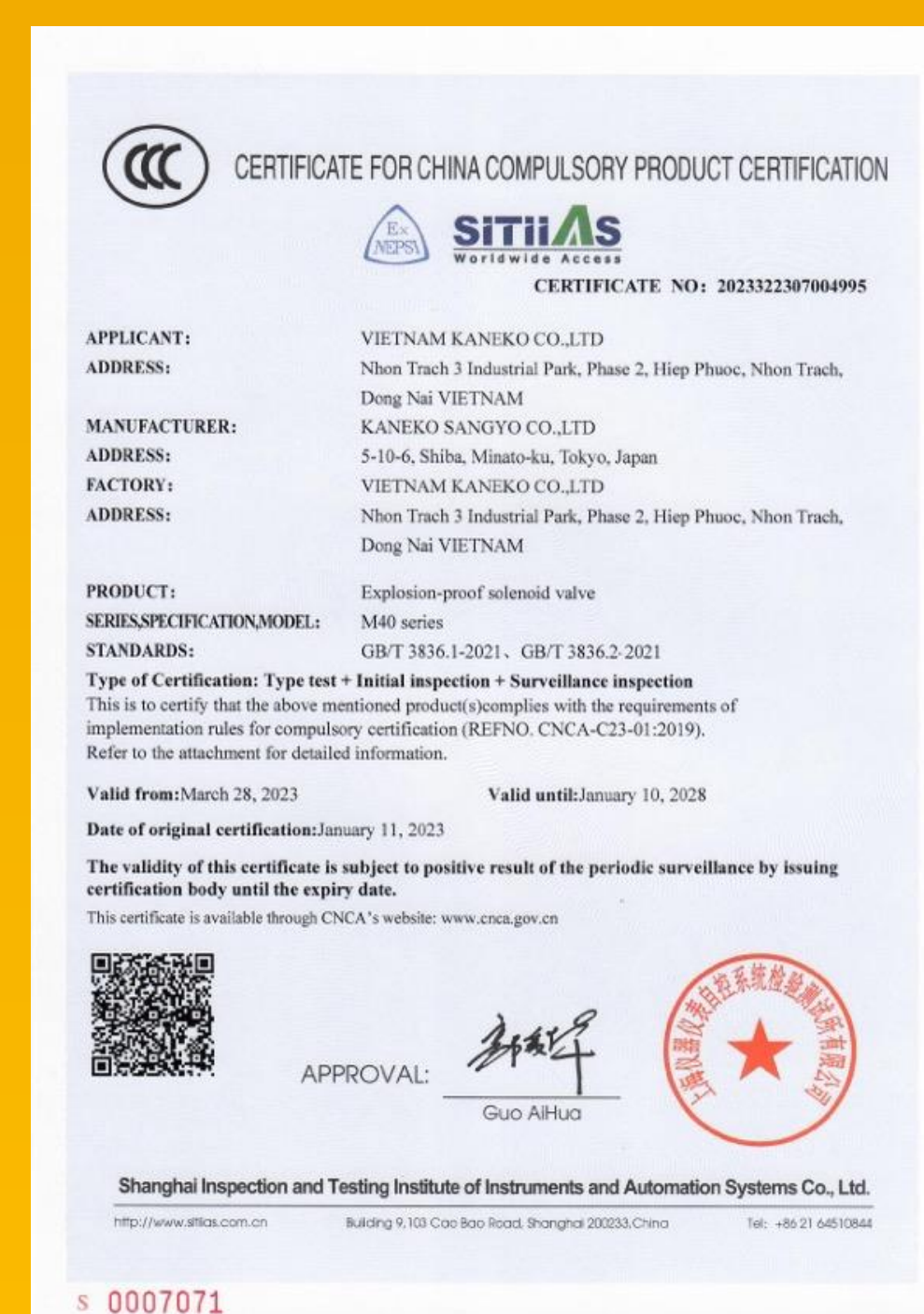
**3 Way • Direct Acting
High flow • Low Power**

II C Explosion proof

- Conform to IEC Explosion proof standard (IECEx/CCC)
- Realize Low Power (DC24 V • 2W/4W)
- Achieve high flow rate (Cv 0.8) with zero differential press in direct acting and universal type
- IP67 high robustness
- Obtain SIL3 certificate by redundant circuit

【General Specification】

Fluid : Inst. Air • Inert Gas
 Oper. Press. : 0~0.99MPa
 Amb. Temp. : -40~90°C
 Cv Flow Factor : 0.8
 Power Supply : DC24V
 Allow. Voltage Range : ±10%
 Body Material : 316L SS
 Housing Material : 316L SS
 Seal Material : FKM
 Exp. Proof symbol : ExdbIICT6..T4Gb



【Explosion proof certificate】
 ※IECEx certificate: Applying



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M 4 0 U SERIES REDUNDANT TYPE

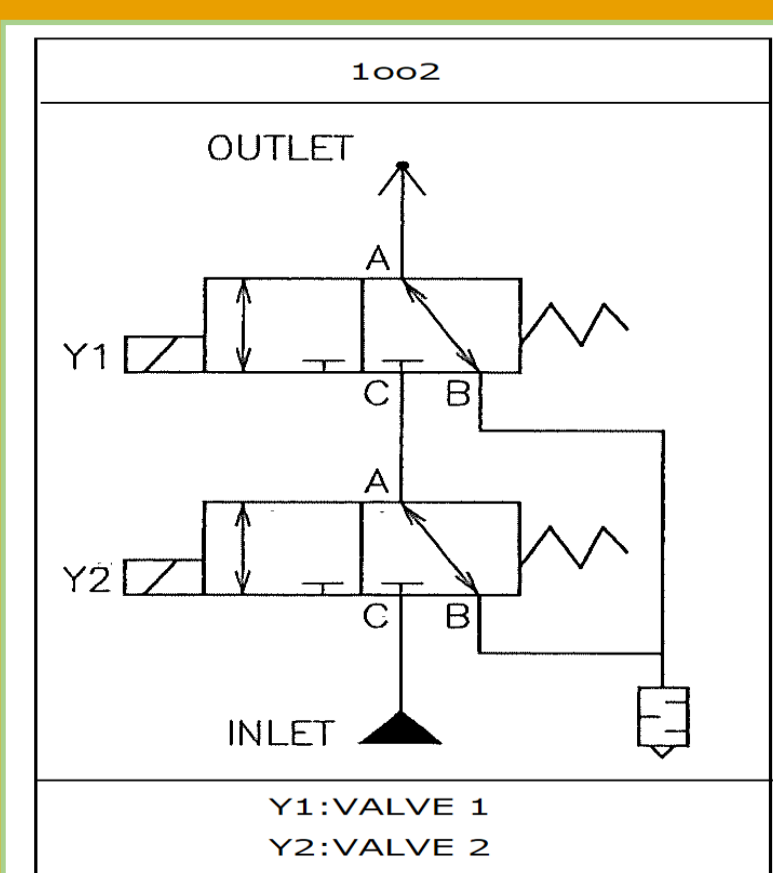
SIL 3 CERTIFIED PRODUCT FOR SAFETY INSTRUMENT SYSTEM



- Same general specifications as M40U series
- Redundant circuit type with High Reliability
- Functional Safety International Standard IEC61508 Safety Level SIL3 Certificate
- Improving safety through risk diversification
- Improving reliability through duplication
- Line up for each purpose
- Conform to IEC Explosion-proof standard (IECEx/CCC)
- Achieve Low Power Consumption (DC24 V · 2W/4W)
- High Flow Rate (Cv Factor 0.8) with zero differential pressure and universal type
- IP67 high robustness

【 1 oo 2 (HFT = 1) 】

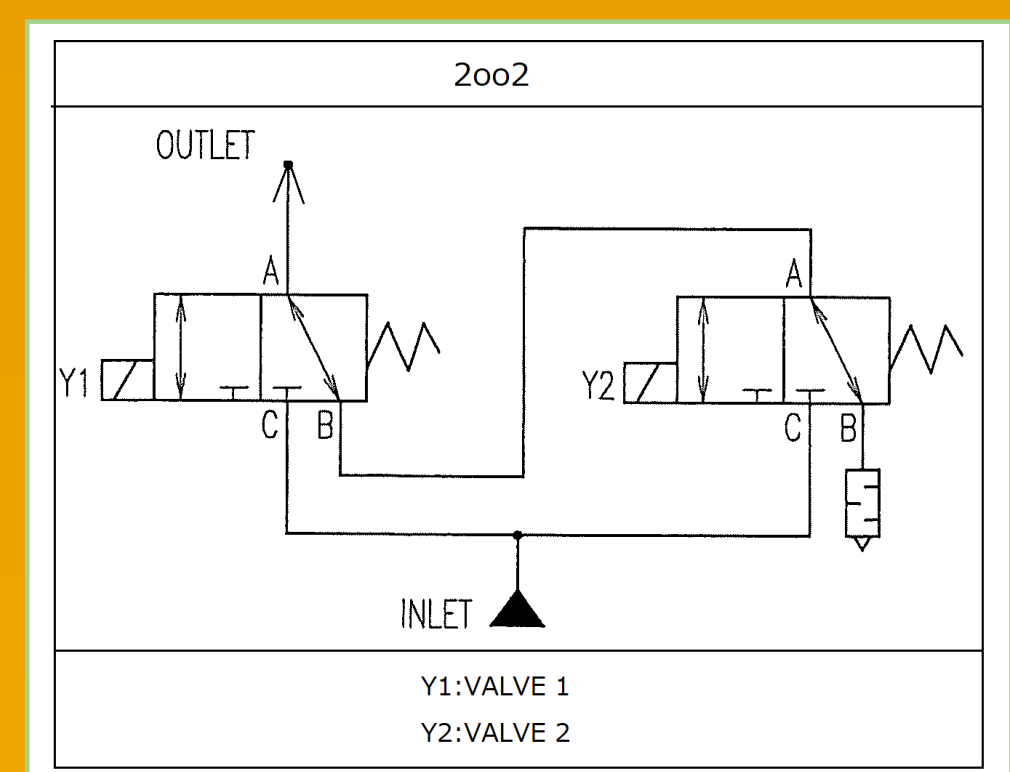
When either solenoid valve switches, the shutoff valve switches.



Logic Table		
Y1	Y2	Outlet
1	1	1
1	0	0
0	1	0
0	0	0

※HFT : Hardware fault tolerant

0 : Valve de-energized
1 : Valve energized



Logic Table		
Y1	Y2	Outlet
1	1	1
1	0	1
0	1	1
0	0	0

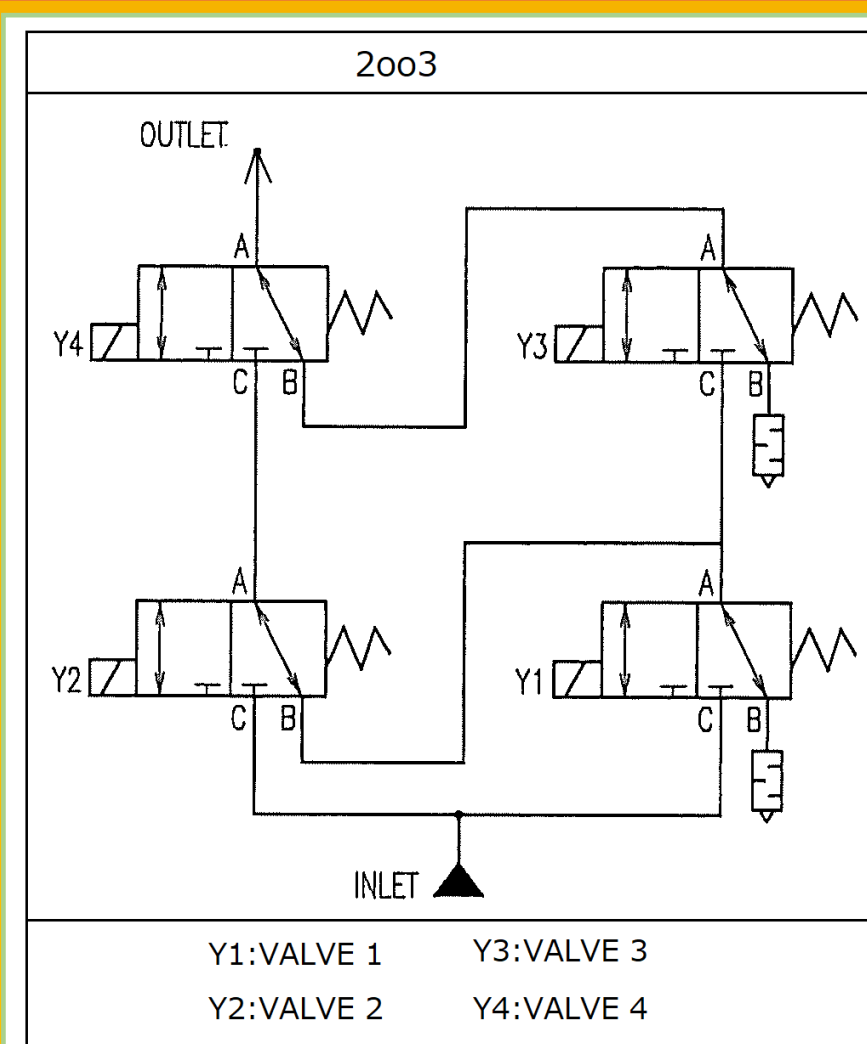


【 2 oo 2 (HFT = 0) 】

The shutoff valve switches when both solenoid valve switches

【 2 oo 3 (HFT = 1) 】

4 unit type solenoid valve that combines both 1oo2 and 2 oo 2 mechanisms



Logic Table				
CH1	CH2		CH3	Outlet
Y1	Y2	Y3	Y4	
1	0	0	0	0
1	1	0	0	0
1	1	1	0	1
1	1	1	1	1
0	1	0	0	0
0	1	1	0	0
0	1	1	1	1
0	1	0	1	1
0	0	1	0	0
0	0	1	1	0
1	0	1	1	1
1	0	1	0	1
0	0	0	1	0
1	0	0	1	1
1	1	0	1	1
0	0	0	0	0

CH1:Channel 1
CH2:Channel 2
CH3:Channel 3
0 : Valve de-energized
1 : Valve energized

