

CHEMSUN Solenoid Valves

Type SNMC-5321 Series

Application: Petroleum, chemical, water treatment, power plants, nuclear power, Mining etc.

Function Way	3/2 , 5/2
Body Material	Aluminium, 316L/1.4404, Messing 2.0410
Explosion Protected	ATEX I M2 Ex ia I M2 Exd IIC T4 / Exia, IICT4, IP65/66
Temperature Range	-25 to +70°C



Features

- The same spool valve can be adapted for 3/2 NC or 5/2 function for controlling single-acting or double-acting actuators.
- The valves threaded port connections and NAMUR style interface.
- All the exhaust ports of this spool valve are connectable, providing better environmental protection, particularly recommended for sensitive areas such as clean rooms, and applications in the pharmaceutical and food processing sectors.
- The valve offers environmental protection against the ingress of liquids, dusts or any other foreign matter (environmentally-protected construction).
- Epoxy moulded coil for general service applications.
- The solenoid valves satisfy all relevant EC Directives.
- The monostable spool valves have TÜV-EXIDA certified IEC 61508 Functional Safety data and can be used up to SIL3/4.



Fig.1: CHEMSUN Solenoid Valves
Type SNMC-5321-SS (ATEX Ex I M2)

General Technical Data

Function way: 3/2 or 5/2

Solenoid Valve Type: Piston pusher with soft seal

Connection: G 1/4, G 1/2 Thread(F)

Nominal size: DN 6 or 12

Operating pressure: 2 to 8 bar

Flow direction: Fixed

Flow medium: filtered, oil-free compressed air

Medium temperature: -10°C to +60°C

Ambient temperature: Max. +50°C

Valve housing: Anodized aluminium, 316L,
Messing 2.0410

Seal: NBR

Installation position: Arbitrary, preferred. Magnet top

Connection voltage: Intrinsically safe: 12/24/48VDC,
110/220VAC, 50Hz

Cable connection: Device plug DIN EN 175301-803,

Hand operating: With or Without

Mining: ATEX I M2 Ex ia I Mb

Chemistry: ATEX II 2G Ex ia IIC T4 GB, Exd IIC T4

Protection class: IP 65/66

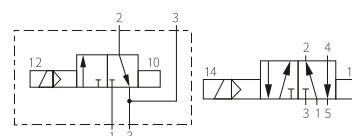
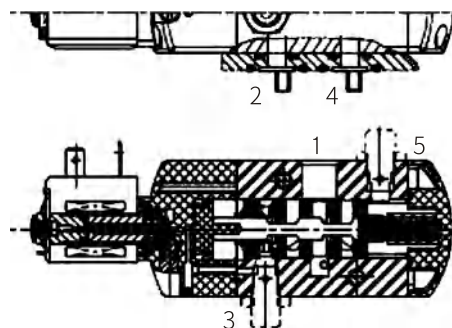


Fig.2: 3/2 NC - 5/2 Function

Table 1: Technical data

Body		Explosion proof coil	
Body Material	Aluminum, Stainless Steel, Messing	Explosion-proof form	Aluminum Armored shell or Stainless Steel Armored shell
Internal Parts	Stainless Steel, Aluminium	Explosion Protected	Ex II2G Exd IICT6, DIP20
Seals	NBR + PUR	Degree of protection	IP66
Core and Plugnut	Stainless Steel	Operating voltage	12/24/48 VDC, 3.5W 110/220 VAC/50Hz, 4VA
Way Functions	3/2, 5/2	Allowable V fluctuation	± 10%
Control mode	Single electric or Double control	Cable interface	NPT 1/2"
Flow coefficient	Cv=1.4 (25mm ² , G1/4)	Insulation grade	Class F, ≤ 1000V
Pipe size	G 1/4, G1/2	Load cycle	100% ED
Connection Std.	24mm × 32mm NAMUR	Temperature range	-25 to +70°C
Explosion Protected	Ex d IICT6, Exia IICT6; Ex I M2	Coil connection	
Degree of protection	IP65/66	Note: Must be equipped with explosion-proof cable joints NPT ?	
Use environment	Indoor and outdoor clean		
Temperature range	-25 to +70°C		
Air supply	2 – 8 bar (Dry and filtrated) Dry and by 40um filtrated		

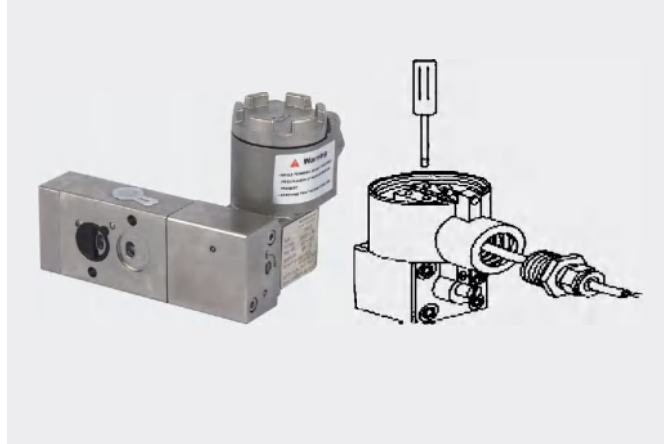
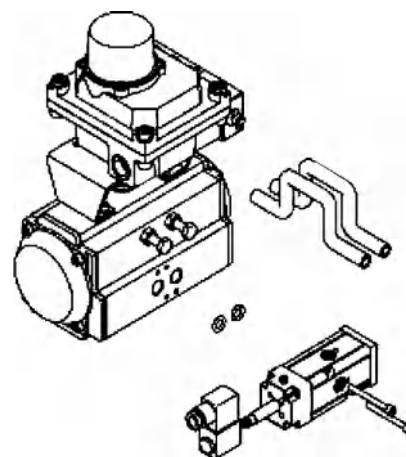
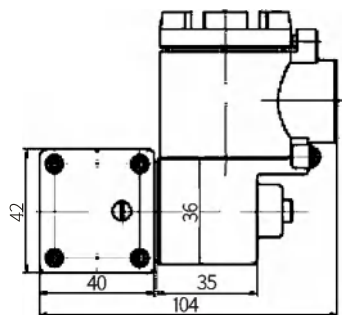
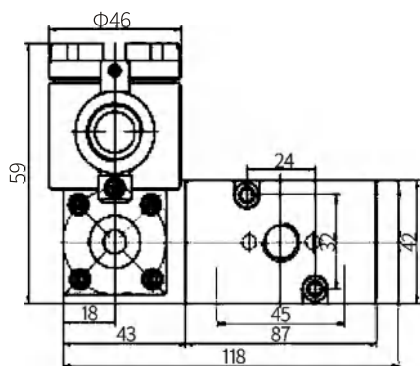


Table 2: Dimensions in mm and assembly drawing



*** Specifications subject to change without notice, please focus on our infor in web.