

FEATURES

- The "Namur" style spool valve have threaded port connection and Namur interface, and "Threaded" style spool valve have threaded port connections.
- 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)
- Can be externally piloted (external air pilot supply) to convert valve to zero minimum operation by flipping a gasket
- Stainless steel manual operator as standard.

GENERAL

Differential pressure 2 - 10 bar [1 bar = 100 kPa]

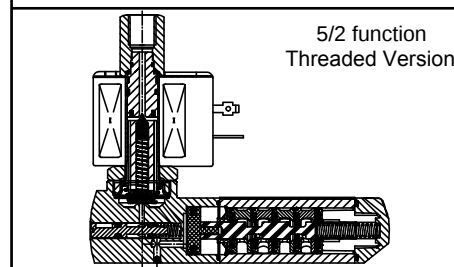
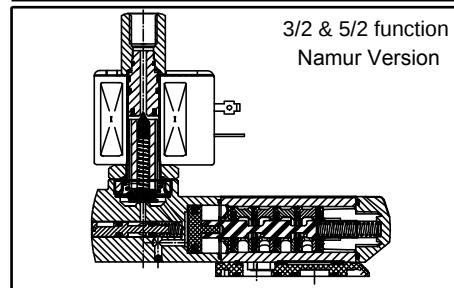
Flow (Qv at 6 bar) 1100 l/min (ANR)

Fluids (*)	Temperature Range (TS)	Seal Materials (*)
air, inert gas, filtered	- 10°C to + 60°C	NBR (nitrile) + PUR (polyurethane)

MATERIALS IN CONTACT WITH FLUID

(*) Ensure that the compatibility of the fluids in contact with the materials is verified

Body	Aluminium, black anodized
End cover (spring)	Glass-filled PA
Interface plates	Glass-filled PA
Spool valve internal parts	Zamak, stainless steel, (POM), aluminium
Core tube	Stainless steel
Core and plugnut	Stainless steel
Core spring	Stainless steel
Seals	NBR
Top disc	PA
Disc holder	POM
Cartridge (low power)	Welded, packless AISI 430
Shading coil	Copper



SPECIFICATIONS

Pipe Size	Orifice Size	Flow Coefficient		Operating Pressure Differential (bar)			Power Level	Prefix Optional Solenoids						Basic Catalogue Number
								NEMA		NEPSI		IP65		
		Kv		min.*	max.(PS)			4 & 4X	7& 9	Ex md	Ex ia			
		(G)	(mm)		(m³/h)	(l/min)						AC	DC	
NAMUR 3/2 NC-5/2- Solenoid air pilot operated – spring return (Single Solenoid)														
1/4	6	0.95	15.5	0/2	10	10	BP	-	-	-	-	●	G531B401MO	
1/4	6	0.95	15.5	0/2	10	10	BP	●	●	●	-	-	G531H401MO	
1/4	6	0.95	15.5	0/2	10	10	LP	-	-	-	○	-	G531B301MO	
1/4	6	0.95	15.5	0/2	10	10	LP	○	○	○	-	-	G531H301MO	
NAMUR 3/2 NC-5/2- Solenoid air pilot operated and return (Double Solenoid)														
1/4	6	0.95	15.5	0/2	10	10	BP	-	-	-	-	●	G531B402MO	
1/4	6	0.95	15.5	0/2	10	10	BP	●	●	●	-	-	G531H402MO	
1/4	6	0.95	15.5	0/2	10	10	LP	-	-	-	○	-	G531B302MO	
1/4	6	0.95	15.5	0/2	10	10	LP	○	○	○	-	-	G531H302MO	
THREADED 5/2- Solenoid air pilot operated – spring return (Single Solenoid)														
1/4	6	0.95	15.5	0/2	10	10	BP	-	-	-	-	●	G531B417MO	
1/4	6	0.95	15.5	0/2	10	10	BP	●	●	●	-	-	G531H417MO	
1/4	6	0.95	15.5	0/2	10	10	LP	-	-	-	○	-	G531B317MO	
1/4	6	0.95	15.5	0/2	10	10	LP	○	○	○	-	-	G531H317MO	
THREADED 5/2- Solenoid air pilot operated and return (Double Solenoid)														
1/4	6	0.95	15.5	0/2	10	10	BP	-	-	-	-	●	G531B418MO	
1/4	6	0.95	15.5	0/2	10	10	BP	●	●	●	-	-	G531H418MO	
1/4	6	0.95	15.5	0/2	10	10	LP	-	-	-	○	-	G531B318MO	
1/4	6	0.95	15.5	0/2	10	10	LP	○	○	○	-	-	G531H318MO	

LP - Low Power, BP - Basic Power

● Available feature

○ Available feature in DC only

- Not available

* Zero minimum is only achieved if external pressure is applied

⁽¹⁾ USA REDHAT II Standard Coil with VC Junction Box

ORDERING EXAMPLES:

SC	G 531 B 401 MO	230V/50Hz
SC	G 531 B 402 MO	230V/50Hz
EF	G 531 H 417 MO	24V/DC
EF	G 531 H 317 MO	24V/DC
WBIS	G 531 B 302 MO	24V/DC
VCEF	G 531 H 418 MO	110V/50Hz

Prefix (*) Voltage

Basic number (*)

(*) Prefix EF should always be used with the letter H in the basic number.

Note: When TPL indicated, X added before basic catalogue number, example: **EFXG531H401MO, TPL 20547**

ELECTRICAL CHARACTERISTICS

Coil insulation class F

Electrical safety IEC 335

Standard voltages DC 24V - 48V
AC 24V - 48V - 115V - 230V/50Hz; other voltages and 60Hz are available on request

238614-058 need to
change to 238614-059

Prefix Option	Power Rating				Operator Ambient Temperature Range(TS)℃	Safety Code	Electrical Enclosure Protection (EN60529)	Replacement Coil		Type
	Inrush AC	Holding AC		Hot/ Cold DC				AC	DC	
(VA)	(VA)	(W)	(W)	230V/50Hz	24VDC					
Basic power = BP										
SC	55	23	10.5	9/11.2	-10 to +60	EN60730	Moulded IP65	400425-117	400425-142	01
EF	55	23	10.5	9/11.2	-10 to +54/40	NEMA 7&9	NEMA 4& 4X	238614-058	238714-006	03
VCEF	55	23	10.5	9/11.2	-10 to +54/40	NEPSI Ex md II CT3~T6	IP67	238614-058	238714-006	05
VC ⁽¹⁾	55	23	10.5	9/11.2	-10 to +54/40	-	NEMA 4 & 4X	238610-058	238710-006	06
Low power = LP										
WBIS	-	-	-	0.35/0.35	-10 to +60	NEPSI Ex ia II CT6	Moulded IP67	-	274445-001	02
EF	-	-	-	1.4/1.4	-10 to +40	NEMA 7&9	NEMA 4 & 4X	-	238714-902	03
VCEF	-	-	-	1.4/1.4	-10 to +40	NEPSI Ex md II CT3~T6	IP67	-	238714-902	05
VC ⁽¹⁾	-	-	-	1.4/1.4	-10 to +40	-	NEMA 4 & 4X	-	238710-902	06

⁽¹⁾ USA Redhat II Standard Coil with VC Junction Box

ADDITIONAL OPTIONS

- Valve configured for external pilot air supply, TPL 20547
- Prefix REDHAT II solenoid cable can be supplied with various length, consult ASCO NUMATICS sales office

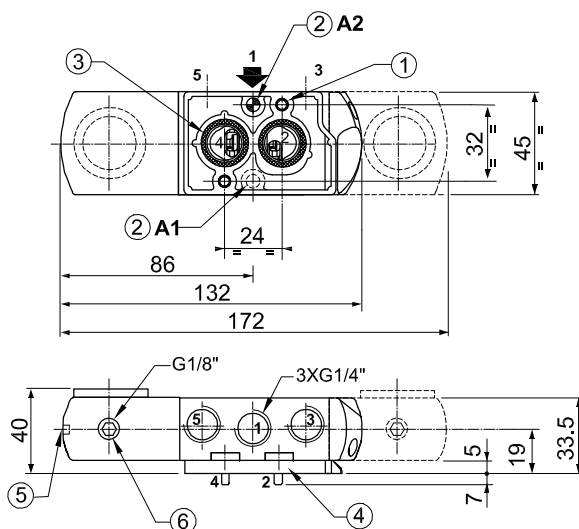
INSTALLATION

- Installation/maintenance instructions are included with each valve
- The solenoid valves can be mounted in any position without affecting operation
- It is necessary to connect pipes or fittings to the exhaust ports to protect the internal parts of the spool valve and its pneumatic operator if used outside or in harsh environments (dusts, liquids etc.)
- "NAMUR" style spool valve supplied with two interface plates with NAMUR mating surfaces. Depending on function (NC 3/2 or 5/2), position one of the two plates on the spool valve body before installing on actuator
- Prefix VC / VCEF is provided with a standard 1/2 NPT threaded entry hole and supply without cable gland. Optional 3/4 NPT (Prefix: VCX / VCEFX) and M20 (Prefix: VCET / VCEFET)

DIMENSIONS (mm)



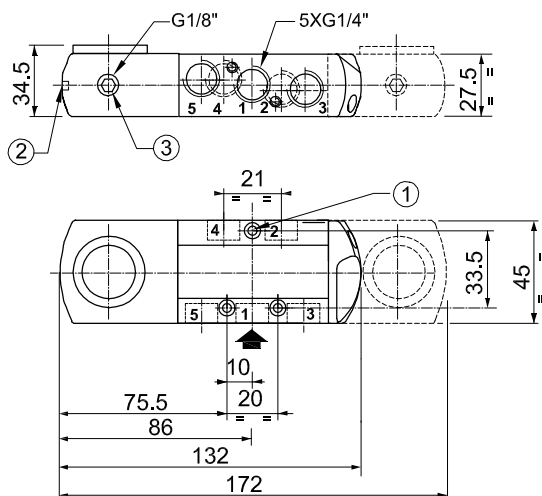
Series 531 Namur 3/2 - 5/2 Way



2 mounting holes:

- ① 5.3 mm dia. (Spotfacing: 9 mm dia., depth 5 mm)
- ② One 5 mm dia. hole for dowel pin:
 - in position A1: 3/2 NC function plate
 - in position A2: 5/2 function plate
- ③ 2 O-ring seals (supplied)
- ④ Interface plate
- ⑤ Manual operator location
- ⑥ External pilot air supply, 1/8 pipe size

Series 531 Threaded 5/2 Way



- ① 3 mounting holes: 4.2 mm dia.
- ② Manual operator location
- ③ External pilot air supply, 1/8 pipe size

DIMENSIONS (mm)



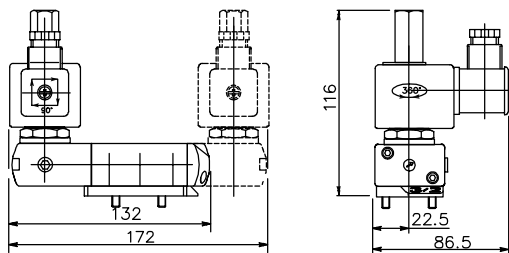
SERIES 531 NAMUR 3/2 - 5/2 WAY



TYPE 01 : Prefix SC

Basic power
Epoxy moulded
IP65

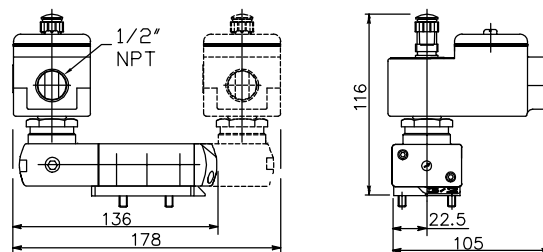
G531B401MO, G531B402MO



TYPE 02 : Prefix WBIS

Low power
Epoxy moulded
NEPSI Ex ia IIC T6, IP 67

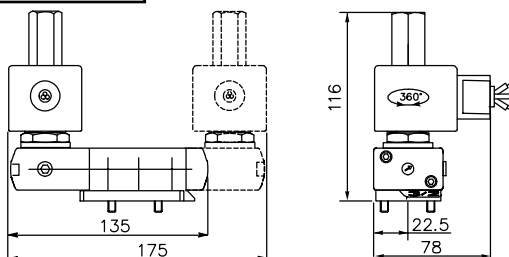
G531B301MO, G531B302MO



TYPE 03 : Prefix EF

Basic power/Low power
Epoxy encapsulated REDHAT II explosion proof solenoid
ICS-6 ANSI / NEMA 7& 9

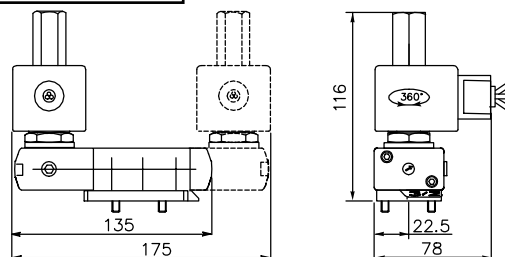
**G531H401MO, G531H402MO
G531H301MO, G531H302MO**



TYPE 04 : No Prefix

Basic power/Low power
Epoxy encapsulated REDHAT II standard solenoid
NEMA 4& 4X

**G531H401MO, G531H402MO
G531H301MO, G531H302MO**

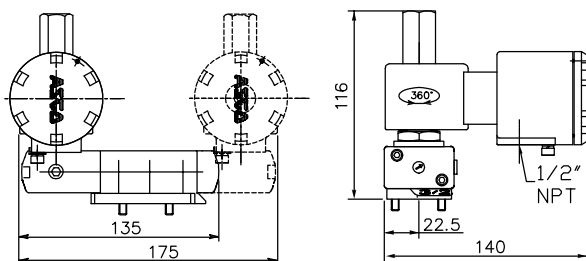


TYPE 05: Prefix VCEF

Basic power/Low power
Epoxy encapsulated REDHAT II explosion proof solenoid
with aluminum VC junction box
NEMA 7& 9 * / NEPSI Ex md IIC T3-T6 / IP67

**G531H401MO, G531H402MO
G531H301MO, G531H302MO**

* Applicable to solenoid only

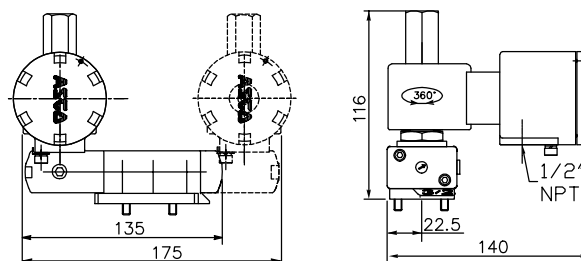


TYPE 06 : Prefix VC

Basic power/Low power
Epoxy encapsulated REDHAT II standard solenoid
with aluminum VC junction box
NEMA 4& 4X *

**G531H401MO, G531H402MO
G531H301MO, G531H302MO**

* Applicable to solenoid only



DIMENSIONS (mm)



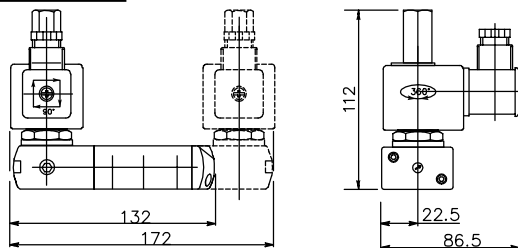
SERIES 531 THREADED 5/2 WAY



TYPE 01 : Prefix SC

Basic power
Epoxy moulded
IP65

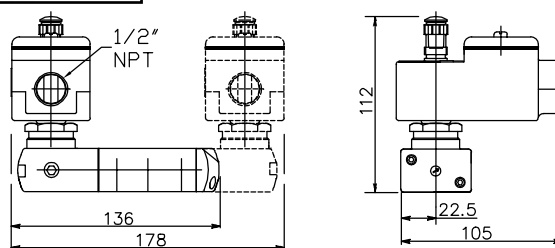
G531B417MO, G531B418MO



TYPE 02 : Prefix WBIS

Low power
Epoxy moulded
NEPSI Ex ia IIC T6, IP 67

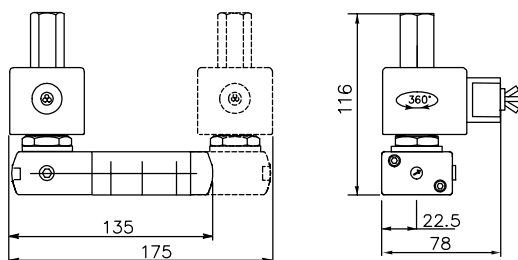
G531B317MO, G531B318MO



TYPE 03 : Prefix EF

Basic power/Low power
Epoxy encapsulated REDHAT II explosion proof solenoid
ICS-6 ANSI / NEMA 7 & 9

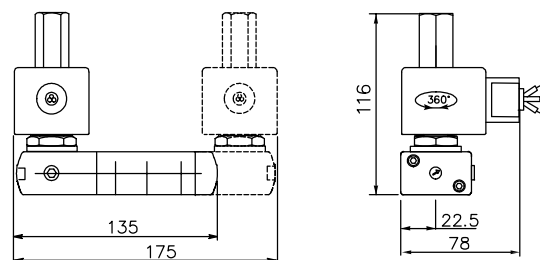
**G531H417MO, G531H418MO
G531H317MO, G531H318MO**



TYPE 04 : No Prefix

Basic power/Low power
Epoxy encapsulated REDHAT II standard solenoid
NEMA 4 & 4X

**G531H417MO, G531H418MO
G531H317MO, G531H318MO**

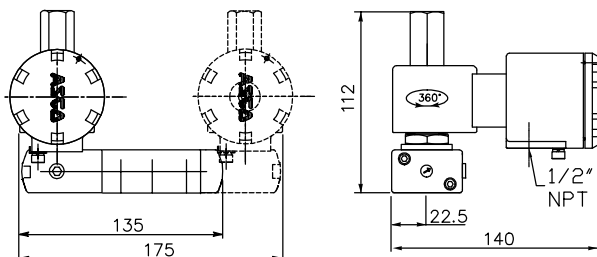


TYPE 05: Prefix VCEF

Basic power/Low power
Epoxy encapsulated REDHAT II explosion proof solenoid
with aluminum VC junction box
NEMA 7 & 9 * / NEPSI Ex md IIC T3-T6 / IP67

**G531H401MO, G531H402MO
G531H301MO, G531H302MO**

* Applicable to solenoid only



TYPE 06 : Prefix VC

Basic power/Low power
Epoxy encapsulated REDHAT II standard solenoid
with aluminum VC junction box
NEMA 4 & 4X *

**G531H401MO, G531H402MO
G531H301MO, G531H302MO**

* Applicable to solenoid only

