

# ASCO™ Solenoid Valves

single/dual solenoid (mono/bistable function) - pilot operated aluminium body - "NAMUR" style - 1/4" and 1/2" tapped

3/2 NC - 5/2 - 5/3  
SERIES  
551 - 553

## Features

- The monostable spool valves in conformity with IEC 61508 Standard (2010 route 2<sub>H</sub> version) have TÜV (551 series) and EXIDA (551-553 series) certified with integrity levels: SIL 2 for HFT = 0 / SIL 3 for HFT = 1
- The solenoid operated spool valves have threaded port connections and "NAMUR" interface
- The same spool valve can be adapted for 3/2 NC or 5/2 functions for controlling double-acting and single-acting actuators
- All the exhaust ports of the 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 valves offer environmental protection against the ingress of liquids, dusts or 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
- The solenoid valves satisfy all relevant EU Directives

## General

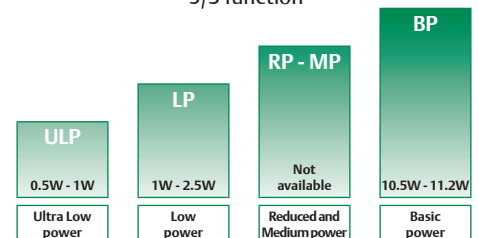
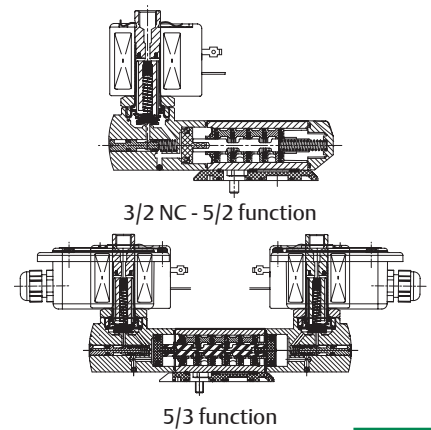
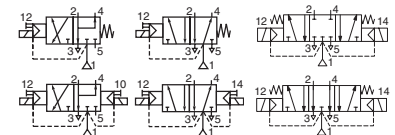
Differential pressure 2 - 10,4 bar [1 bar = 100 kPa]  
Flow (Q<sub>v</sub> at 6 bar) 1/4" = 700 l/min (ANR)  
1/2" = 3000 l/min

Fluids (★)	Temperature range (TS)	Seal materials (★)
air, inert gas, filtered	-25°C to +60°C	NBR (nitrile) + PUR (polyurethane)

## Materials in contact with fluid

(★) Ensure that compatibility of materials in contact with fluids is verified.

Body, end cover	Aluminium, black anodized
End cover (spring return)	Glass fibre filled PA
Interface plates	Glass fibre filled PA
Spool valve internal parts	Zamak, stainless steel, POM, aluminium
Pilot internal parts	Refer to specific solenoid catalogue pages
Pilot end covers	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, stainless steel or aluminium
Seat	Brass
Seat insert	POM
Shading coil	Copper
Rider rings (low power)	PTFE (NF/WSNF solenoids only)



POWER LEVELS - cold electrical holding values (watt)

## Specifications

Pipe size	Orifice size	Flow coefficient Kv	Operating pressure differential (bar)			Power level	Prefix optional solenoids								Basic catalogue number		
			Min. <sup>(1)</sup>	Max. (PS)			NEMA 7 & 9	ATEX / IECEx				IP65					
				Air (★)	~			=	~/=	Ex db	Ex eb mb		Ex mb	Ex ia			
(*)	(mm)	(m <sup>3</sup> /h) (l/min)					EF <sup>(2)</sup>	LPKF	NF	EM	PV	LI	WSLI	SC			
<b>3/2 NC - 5/2 - Solenoid air pilot operated - spring return (monostable)</b>																	
1/4"	6	0.6	10	0/2	10	10	BP	-	-	●	●	●	-	-	●	❖551B401 <sup>(3)</sup>	
							BP	●	-	-	-	-	-	-	-	-	❖551G401 <sup>(3)</sup>
							LP	-	●	●	●	○	-	-	-	●	❖551B301 <sup>(3)</sup>
							LP	○	-	-	-	-	-	-	-	-	❖551G301 <sup>(3)</sup>
							ULP	-	○	-	-	-	-	-	○	○	-
1/2"	13	2.49	41.5	0/2	10	10	BP	-	-	●	●	●	-	-	●	❖553A401 <sup>(3)</sup>	
							BP	●	-	-	-	-	-	-	-	-	❖553G401 <sup>(3)</sup>
							LP	-	●	●	●	○	-	-	-	●	❖553A301 <sup>(3)</sup>
							LP	○	-	-	-	-	-	-	-	-	❖553G301 <sup>(3)</sup>
							ULP	-	○	-	-	-	-	-	○	○	-
ULP	○	-	-	-	-	-	-	-	-	-	-	❖553H301 <sup>(3)</sup>					

❖ Select 8 for NPT ANSI 1.20.3 or select G for ISO G (228/1) ● Available feature ○ Available feature in DC only. - Not available

<sup>(1)</sup> Zero minimum is only achieved if external pressure is applied.

<sup>(2)</sup> UL CSA

<sup>(3)</sup> Certified IEC 61508 Functional Safety data, use suffix "SL".

**3/2 NC - 5/2 - 5/3  
SERIES  
551 - 553**

**Specifications**

Pipe size	Orifice size	Flow coefficient Kv		Operating pressure differential (bar)			Power level	Prefix optional solenoids								Basic catalogue number	
								Min. <sup>(1)</sup>	Max. (PS)		NEMA	ATEX / IECEx					IP65
				Air (*)		7 & 9			Ex db	Ex mb		Ex mb	Ex ia		SC		
(*)	(mm)	(m <sup>3</sup> /h)	(l/min)	~	=	~/=	EF <sup>(2)</sup>	LPKF	NF	EM	PV	LI	WSLI	SC			
<b>3/2 NC - 5/2 - Solenoid air pilot operated and return (bistable)</b>																	
1/4	6	0.6	10	0/2	10	10	BP	-	-	●	●	●	-	-	●	❖551B402	
							BP	●	-	-	-	-	-	-	-	-	❖551G402
							LP	-	●	●	○	○	-	-	-	●	❖551B302
							LP	○	-	-	-	-	-	-	-	-	❖551G302
							ULP	-	○	-	-	○	○	○	-	-	❖551B302
							ULP	○	-	-	-	-	-	-	-	-	❖551H302
1/2	13	2.49	41.5	0/2	10	10	BP	-	-	●	●	●	-	-	●	❖553A402	
							BP	●	-	-	-	-	-	-	-	-	❖553G402
							LP	-	●	●	○	○	-	-	-	●	❖553A302
							LP	○	-	-	-	-	-	-	-	-	❖553G302
							ULP	-	○	-	-	-	-	○	○	-	❖553A302
							ULP	○	-	-	-	-	-	-	-	-	❖553H302
<b>5/3 - W1 - pressure held, solenoid air pilot operated and return</b>																	
1/4"	6	0.6	10	0/2	10	10	BP	-	-	●	●	●	-	-	●	❖551B465	
							LP	-	●	●	○	○	-	-	-	●	❖551B365
							ULP	-	○	-	-	-	○	○	-	-	❖551B365
1/2"	13	2.49	41.5	0/2	10	10	BP	-	-	●	●	●	-	-	●	❖553A465	
							LP	-	●	●	●	○	-	-	-	●	❖553A365
							ULP	-	○	-	-	-	○	○	-	-	❖553A365
<b>5/3 - W3 - pressure release, solenoid air pilot operated and return</b>																	
1/4"	6	0.6	10	0/2	10	10	BP	-	-	●	●	●	-	-	●	❖551B466	
							LP	-	●	●	●	○	-	-	-	●	❖551B366
							ULP	-	○	-	-	-	○	○	-	-	❖551B366
1/2"	13	2.49	41.5	0/2	10	10	BP	-	-	●	●	●	-	-	●	❖553A466	
							LP	-	●	●	●	○	-	-	-	●	❖553A366
							ULP	-	○	-	-	-	○	○	-	-	❖553A366

❖ Select 8 for NPT ANSI 1.20.3 or select G for ISO G (228/1) ● Available feature ○ Available feature in DC only. - Not available

<sup>(1)</sup> Zero minimum is only achieved if external pressure is applied.

<sup>(2)</sup> UL CSA

### Prefix table

Prefix							Description	Power level			
1	2	3	4	5	6	7		ULP	LP	MP	BP
E	F						Explosionproof - NEMA 7, 9 - Zinc plated steel conduit (18" continuous leads)	○	○	-	●
E	F	H	T				EF (18" continuous leads) + high temperature	○	○	-	●
E	F	H	T	L			EF + high temperature + 72" continuous leads	○	○	-	●
E	F	L					EF + 72" continuous leads	○	○	-	●
J	B	E	F				EF + Junction box (conduit in 1/2" NPT)	○	○	-	●
J	B	E	F	M	F		EF + Junction box (conduit in 1/2" NPT) + surge suppression coils	○	○	-	●
J	C	E	F				EF + Junction box (conduit in 3/4" NPT)	○	○	-	●
J	C	E	F	H	T		EF + Junction box (conduit in 3/4" NPT) + high temperature	○	○	-	●
E	M						Waterproof IP66/67 - Metal enclosure (EN/IEC 60079-7,-18 and -31)*	-	●	-	●
		E	T				Threaded conduit/hole (M20 x 1.5)	-	●	-	●
L	P	K	F				Flameproof - Aluminium (EN/IEC 60079-1, 60079-31)*	○	●	-	-
N	F						Flameproof - Aluminium (EN/IEC 60079-1, 60079-31)*	-	●	-	●
P	V						Encapsulated epoxy moulded (EN/IEC 60079-18)*	-	○	-	●
S	C						Solenoid with spade plug connector (EN/IEC 60730)	-	●	-	●
W	P						Waterproof IP67 - Metal enclosure	-	●	-	●
L	I						I.S. with Aluminium IP66/IP67 enclosure (EN/IEC 60079-11+31)*	○	-	-	-
W	S						Waterproof IP67 - 316 SS enclosure	-	●	-	●
W	S	L	P	K	F		Flameproof 316L SS (EN/IEC 60079-1, 60079-31)*	○	●	-	-
W	S	E	M				Waterproof IP66/67 - 316 SS enclosure (EN/IEC 60079-0+7+18+31)*	-	●	-	●
W	S			L	I		I.S. with 316L SS IP66/IP67 enclosure (EN/IEC 60079-11+31)*	○	-	-	-
W	S	N	F				Flameproof 316L SS (EN/IEC 60079-1, 60079-31)*	-	●	-	●
		T					Threaded conduit (1/2" NPT)	-	●	-	●
				H	T		Class H - High temperature, +80°C ambient temp.	-	-	-	●
						X	Other special constructions	-	●	-	●

### Product selection guide

#### STEP 1

Select basic catalogue number, including pipe thread identification letter. Refer to the specifications table on page: 1 or 2

**Example: G551A401**

#### STEP 2

Select prefix (combination). Refer to the specifications table and the prefix table, respect the indicated power level.

**Example: EM**

#### STEP 3

Select suffix (combination) if required. Refer to the suffix table, respect the indicated power level.

**Example: MO**

#### STEP 4

Select voltage. Refer to standard voltages on page: 4

**Example: 230V / 50Hz**

#### STEP 5

Final catalogue / ordering number.

**Example:**

**EM G551A401MO 230 V / 50 Hz**

### Suffix table

Suffix							Description	Power level			
1	2	3	4	5	6	7		ULP	LP	MP	BP
			M	O			Push type manual operator	○	○/●	-	●
S	L						Certified IEC 61508 Functional Safety data <sup>(1)</sup>	○	○/●	-	●

### Options and Accessories

Series	Pipe size	Exhaust protector (stainless steel)		
		G	NPT	(M)
551-553	1/8"	34600418 <sup>(2)</sup>	34600482 <sup>(2)</sup>	-
551	1/4"	34600419 <sup>(2)</sup>	34600483 <sup>(2)</sup>	-
553	1/2"	34600479 <sup>(2)</sup>	34600479 <sup>(2)</sup>	-
551	M5	-	-	34600484 <sup>(2)</sup>

● Available feature

○ Available feature in DC only

- Not available

\* ATEX/IECEx valves using these solenoids are approved according to EN ISO 80079-36 (2016) and EN ISO 80079-37 (2016) [non electrical]

<sup>(1)</sup> Not to use with MO suffix

<sup>(2)</sup> Provided with "SL" suffix

### Ordering examples valves:

SC	G	551	B	401	230V / 50 Hz
SC	G	551	B	401	SL 230V / 50 Hz
SC	G	551	B	402	MO 230V / 50 Hz
SCHT	8	551	B	402	MO 230V / 50 Hz
LPKF	G	551	B	301	MO 24V / DC
WSLPKF	G	551	B	301	MO 24V / DC
LI	G	553	A	301	24V / DC
EM	8	553	A	402	MO 230V / 50 Hz
EF	G	551	G	401	MO 240V / 60 Hz

prefix — pipe thread — basic number — voltage — suffix

# 3/2 NC - 5/2 - 5/3 SERIES 551 - 553

## Explanation of temperature ranges of solenoid valves

Valve temperature range	The valve temperature range (TS) is determined by the selected seal material, the temperature range for proper operation of the valve and sometimes by the fluid (e.g. steam)
Operator ambient temperature range	The operator ambient temperature range is determined by the selected power level and the safety code
Total temperature range	The temperature range of the complete solenoid valve is determined by the limitations of both temperature ranges above

## Electrical characteristics

Coil insulation class	F
Electrical safety	IEC 335
Standard voltages	DC (=) 24V - 48V AC (~) 24V - 48V - 115V - 230V <sup>(1)</sup> /50Hz; other voltages and 60Hz are available on request

Prefix option	Power ratings			Operator ambient temperature range (TS) (C°) <sup>(2)</sup>	Safety code	Electrical enclosure protection (EN 60529)	Replacement coil / Kit		Type (3)	
	Inrush	Holding	Hot/Cold				~	=		
	(VA)	(VA) (W)	(W)				230 V/50 Hz	24V/DC		
<b>Basic power (BP)</b>										
SC	55	23	10.5	9/11.2	-40 to +75	EN 60730	IP65, moulded	400425-117	400425-142	01
WP/WS	55	23	10.5	9/11.2	-40 to +75	EN 60730	IP67, steel /SS	400405-117	400405-142	03
NF/WSNF	55	23	10.5	-	-60 to +25/40/60	II2G Ex db IIC Gb T6/T5/T4, II2D Ex tb IIIC Db	IP66/67, alu./SS	400405-117	-	02
NF/WSNF	-	-	-	9/11.2	-60 to +40/60/75	II2G Ex db IIC Gb T6/T5/T4, II2D Ex tb IIIC Db	IP66/67, alu./SS	-	400405-142	02
EM/WSEM	55	23	10.5	9/11.2	-40 to +40	II2G Ex eb mb IIC Gb T3, II2D Ex tb IIIC Db	IP66/67, steel /SS	400909-117	400913-142	03
PV	55	23	10.5	9/11.2	-40 to +65	II2G Ex mb IIC Gb T3(~)/T4(=), II2D Ex mb IIIC Db	IP67, moulded	-(4)	-(4)	04
EF	55	23	10.5	9/11.2	-40 to +52/40	NEMA type 7 and 9	NEMA 4X	-	-	05
EFHT	55	23	10.5	9/11.2	-40 to +52/40	NEMA type 7 and 9	NEMA 4X	-	-	05
JBEF	55	23	10.5	9/11.2	-40 to +52/40	NEMA type 7 and 9	NEMA 4X	-	-	11
JBEFHT	55	23	10.5	9/11.2	-40 to +52/40	NEMA type 7 and 9	NEMA 4X	-	-	11
<b>Low Power (LP)</b>										
SC	1.5	1.5	1.5	1.7/1.7	-40 to +60	EN 60730	IP65, moulded	400925-097	400925-042	06
WP/WS	1.5	1.5	1.5	1.7/1.7	-40 to +60	EN 60730	IP67, steel /SS	400926-097	400926-042	08
LPKF/WSLPKF	2.4	2.4	2.4	-	-40 to +40/65/80	II2G Ex db IIB+H2 Gb T6/T5/T4, II2D Ex tb IIIC Db	IP66/67, alu./SS	-(4)	-(4)	12
LPKF/WSLPKF	-	-	-	2.1 <sup>(5)</sup>	-40 to +40/80	II2G Ex db IIB+H2 Gb T6/T4, II2D Ex tb IIIC Db	IP66/67, alu./SS	-(4)	-(4)	12
NF/WSNF	1.85	1.85	1.85	1.5/1.8	-60 to +75/80	II2G Ex db IIC Gb T6/T5, II2D Ex tb IIIC Db	IP66/67, alu./SS	-(4)(1)	-(4)	07
EM/WSEM	1.5	1.5	1.5	1.7/1.7	-40 to +40/55	II2G Ex eb mb IIC Gb T6/T5, II2D Ex tb IIIC Db	IP66/67, steel /SS	-(4)	-(4)	08
PV	-	-	-	1.7/1.7	-40 to +65	II2G Ex mb IIC Gb T6, II2D Ex mb IIIC Db	IP67, moulded	-	-(4)	09
EF	-	-	-	1.8/1.8	-40 to +60	NEMA type 7 and 9	NEMA 4X	-	-	10
EFHT	-	-	-	1.8/1.8	-40 to +60	NEMA type 7 and 9	NEMA 4X	-	-	10
JBEF	-	-	-	1.8/1.8	-40 to +60	NEMA type 7 and 9	NEMA 4X	-	-	11
JBEFHT	-	-	-	1.8/1.8	-40 to +60	NEMA type 7 and 9	NEMA 4X	-	-	11
<b>Ultra Low Power (ULP)</b>										
LPKF/WSLPKF	-	-	-	0.5/0.5 <sup>(5)</sup>	-40 to +70/80	II2G Ex db IIB+H2 Gb T6/T5, II2D Ex tb IIIC Db	IP66/67, alu./SS	-	-(4)	12
EF	-	-	-	0.55/0.7	-40 to +52/40	NEMA type 7 and 9	NEMA 4X	-	-	10
EFHT	-	-	-	0.55/0.7	-40 to +52/40	NEMA type 7 and 9	NEMA 4X	-	-	10
JBEF	-	-	-	0.55/0.7	-40 to +52/40	NEMA type 7 and 9	NEMA 4X	-	-	11
JBEFHT	-	-	-	0.55/0.7	-40 to +52/40	NEMA type 7 and 9	NEMA 4X	-	-	11
LI <sup>(6)(7)</sup>	-	-	-	0.5/0.5	-40 to +60	II1G Ex ia IIC T6 Ga, II2D Ex tb IIIC Db <sup>(7)</sup>	IP66/67, alu.	-	-(4)	13
WSLI <sup>(6)(7)</sup>	-	-	-	0.5/0.5	-40 to +60	II1G Ex ia IIC T6 Ga, II2D Ex tb IIIC Db <sup>(7)</sup>	IP66/67, SS	-	-(4)	13

Prefix option	Safety parameters				
	U <sub>i</sub> (DC)	I <sub>i</sub>	P <sub>i</sub>	L <sub>i</sub>	C <sub>i</sub>
	(V)	(mA)	(W)	(H)	(µF)
<b>Ultra Low Power (ULP)</b>					
LI/WSLI	32	500	1.5	0	0

(1) (WS)NF: Low Power, 230 V AC does not exist. Maximum voltage in AC is 115 V

(2) Temperature range can be limited by sealings

(3) Refer to the dimensional drawings on pages: 6 to 9

(4) Multiple coil kits are available under ATEX/IECEx, contact us

(5) LPKF/WSLPKF: 24 V DC (0,5 W)

(6) LI/WSLI: Check the electrical characteristics in the corresponding catalogue pages

(7) LI/WSLI: Ultra Low Power, 24 V DC only (LI: For use in zone 0 locations, see the installation conditions given in the I&M instructions)

- Not available

## Electrical connections

Prefix	Connection
SC	Spade plug connector with cable gland EN175301-803A (ISO 4400) for cables with an outer diameter from 6 to 10 mm
WP, WS, EM, WSEM	M20 plastics cable gland for cables with an outer diameter from 7 to 12 mm.
NF, WSNF, LPKF, WSLPKF	1/2" NPT threaded cable entry. Enclosures are supplied without cable gland
PV	Moulded-in cable, standard length 2 m
LI, WSLI	1/2" NPT threaded cable entry. Enclosures are supplied without cable gland
EF	1/2" NPT conduits
JBEF	EF + Junction box


## Additional options

- Valves configured for external pilot air supply, TPL 20547
- Other pipe threads are available on request
- Ex mb (prefix "PV") solenoid can be supplied with various cable lengths
- Set of stainless steel mounting screws (series 551), catalogue number: **97802212**
- Set of two G 1/8 exhaust reducers (series 551), catalogue number: **88100344**

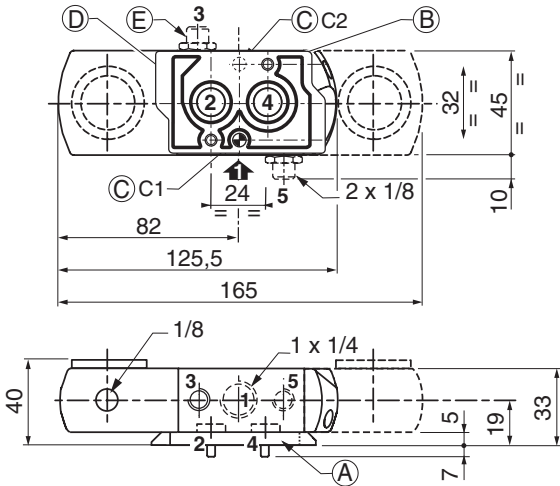
## Installation

- Multi language installation/maintenance instructions are included with each valve
- The solenoid valves can be mounted in any position without affecting operation
- 3/2 NC-5/2 spool valve supplied with one or two interface plates with NAMUR mating surfaces. Depending on function (3/2 NC or 5/2), position the plate (series 551) or one of the two plates (series 553) on the spool valve body before installing on actuator
- Do not connect the pressure supply to the exhaust port 3. The "environmentally-protected" construction is not adapted for NO function. Contact us for function available in specific version
- Dowel pin (if necessary), bolts and gaskets are standard supplied
- IEC 61508 Functional Safety (suffix SL). Check temperature range of valve body and solenoid for suitability. For probability of failure, contact us
- 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.)
- Threaded pipe connection identifier is 8 = NPT (ANSI 1.20.3); G = G (ISO 228/1)
- Ex db Prefix "NF/WSNF" enclosure is provided with a 1/2" NPT threaded entry hole, M20 x 1,5 (prefix "ET") is optional. These are supplied without cable gland
- To comply with IEC 61508 (SIL) the valves must be provided with a specific exhaust protector (see following pages)

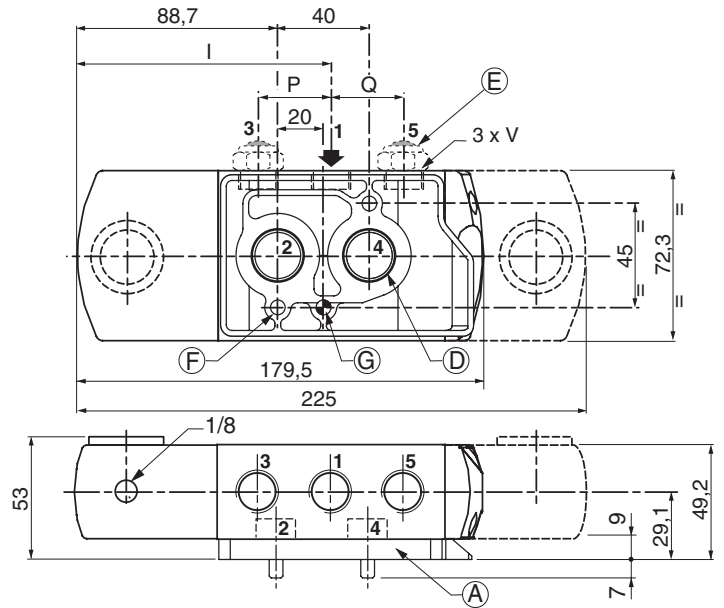
**3/2 NC - 5/2 - 5/3  
SERIES  
551 - 553**

**Dimensions (mm), Weight (kg)** 

**551 Series**

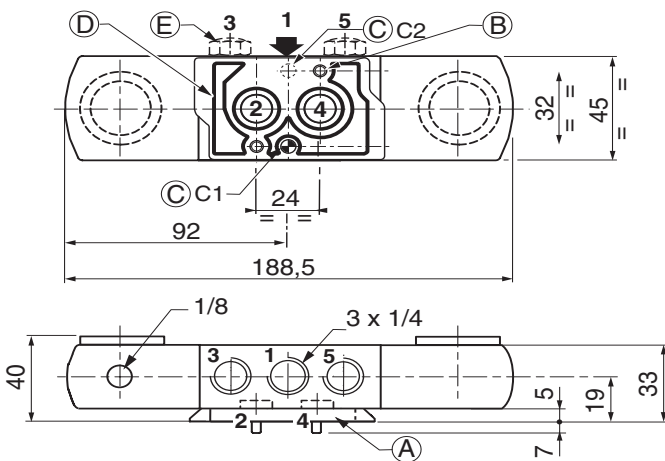


**553 Series**



	type	I	P	Q	V
553	01 to 12	112,3	31,6	31,8	1/2

**551 Series (W1, W3)**



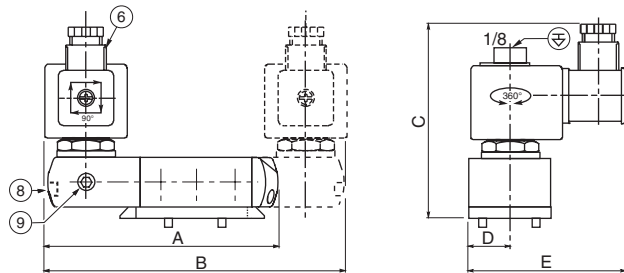
- (A) Interface plate
- (B) 2 mounting holes: 5.3 mm dia. (Spotfacing: 9 mm dia., depth 5 mm)
- (C) One 5 mm dia. hole for dowel pin (551 Series)
  - in position C1: 3/2 NC function plate
  - in position C2: 5/2 function plate
- (D) 2 O-ring seals (supplied)
- (E) Exhaust reducers G 1/8 (series 551) or protectors adaptable on orifices 3 and 5
- (F) 2 mounting holes: 6.5 mm dia. (Spotfacing: 11 mm dia., depth 6 mm)
- (G) 1 dia. 6,5 mm hole for dowel pin (series 553). Same position for interface plate 3/2 NC or 5/2

Dimensions (mm), Weight (kg)



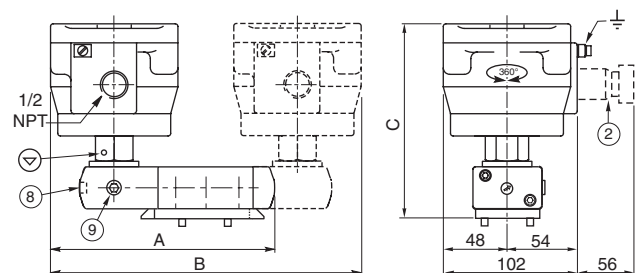
**TYPE 01:**  
 Epoxy moulded  
 SC: IEC 335 / ISO 4400

551B401/B402/B401MO/B402MO/B465/B466/B465MO/B466MO  
 553A401/A402/A401MO/A402MO/A465/A466/A465MO/A466MO



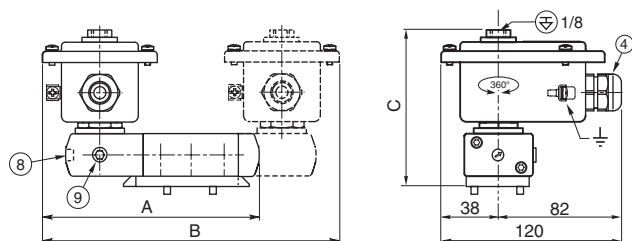
**TYPE 02:**  
 Aluminium, epoxy coated / AISI 316L SS  
 NF / WSNF: EN/IEC 60079-1, 60079-31

551B401/B402/B401MO/B402MO/B465/B466/B465MO/B466MO  
 553A401/A402/A401MO/A402MO/A465/A466/A465MO/A466MO



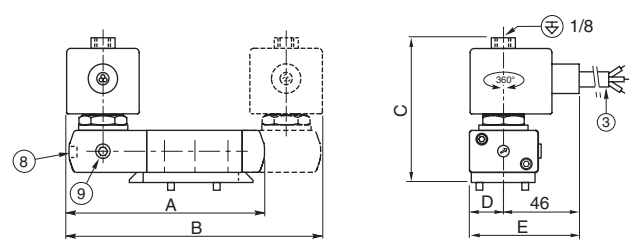
**TYPE 03:**  
 Metal, epoxy coated / AISI 316L SS  
 WP / WS: IEC 335  
 EM / WSEM: EN/IEC 60079-7+18+31

551B401/B402/B401MO/B402MO/B465/B466/B465MO/B466MO  
 553A401/A402/A401MO/A402MO/A465/A466/A465MO/A466MO



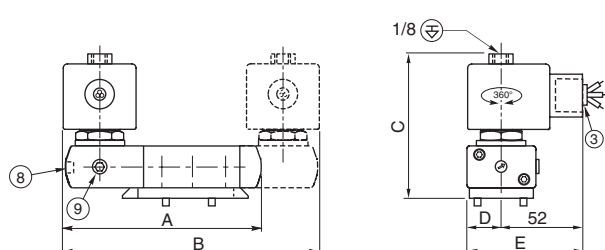
**TYPE 04:**  
 Epoxy encapsulated  
 PV: EN/IEC 60079-18

551B401/B402/B401MO/B402MO/B465/B466/B465MO/B466MO  
 553A401/A402/A401MO/A402MO/A465/A466/A465MO/A466MO



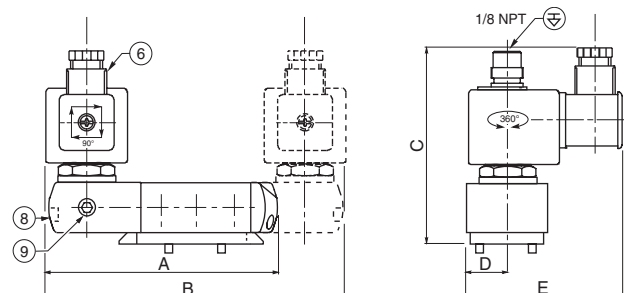
**TYPE 05:**  
 Epoxy encapsulated  
 EF: NEMA type 7, 9 / ICS-6 ANSI

551G401/G402/G401MO/G402MO  
 553G401/G402/G401MO/G402MO



**TYPE 06:**  
 Epoxy moulded  
 SC: IEC 335 / ISO 4400

551B301/B302/B301MO/B302MO/B365/B366/B365MO/B366MO  
 553A301/A302/A301MO/A302MO/A365/A366/A365MO/A366MO



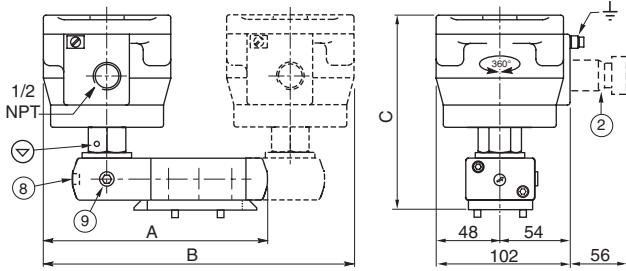
**3/2 NC - 5/2 - 5/3  
SERIES  
551 - 553**

**Dimensions (mm), Weight (kg)**



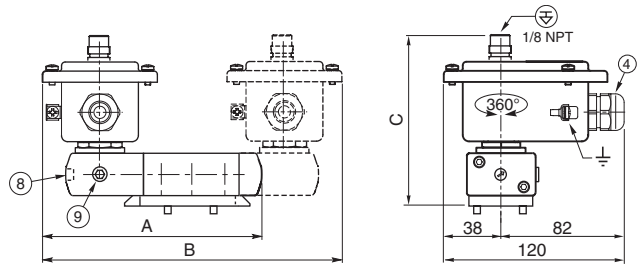
**TYPE 07:**  
Aluminium, epoxy coated / AISI 316L SS  
NF / WSNF: EN/IEC 60079-1, 60079-31

551B301/B302/B301MO/B302MO/B365/B366/B365MO/B366MO  
553A301/A302/A301MO/A302MO/A365/A366/A365MO/A366MO



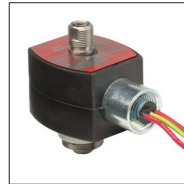
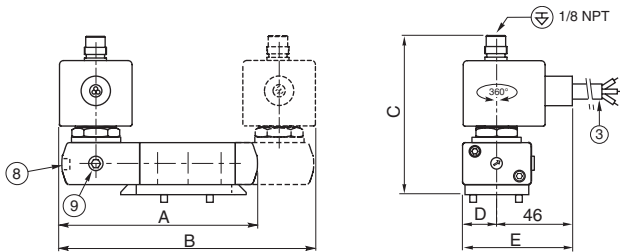
**TYPE 08:**  
Metal, epoxy coated / AISI 316L SS  
WP / WS: IEC 335  
EM / WSEM: EN/IEC 60079-7+18+31

551B301/B302/B301MO/B302MO/B365/B366/B365MO/B366MO  
553A301/A302/A301MO/A302MO/A365/A366/A365MO/A366MO



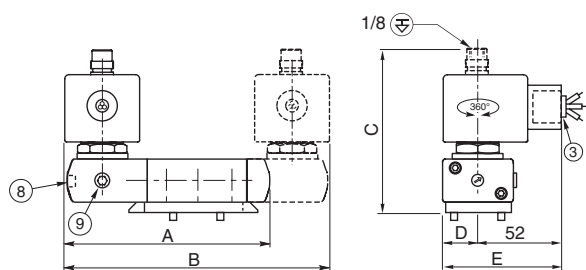
**TYPE 09:**  
Epoxy encapsulated  
PV: EN/IEC 60079-18

551B301/B302/B301MO/B302MO/B365/B366/B365MO/B366MO  
553A301/A302/A301MO/A302MO/A365/A366/A365MO/A366MO



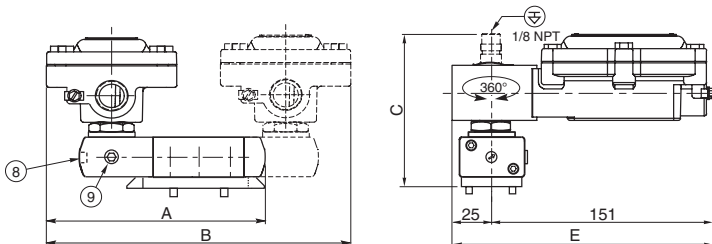
**TYPE 10:**  
Epoxy encapsulated  
EF: NEMA type 7, 9 / ICS-6 ANSI

551G301/H301/G302/H302/ G301MO/H301MO/G302MO/H302MO  
553G301/H301/G302/H302/ G301MO/H301MO/G302MO/H302MO



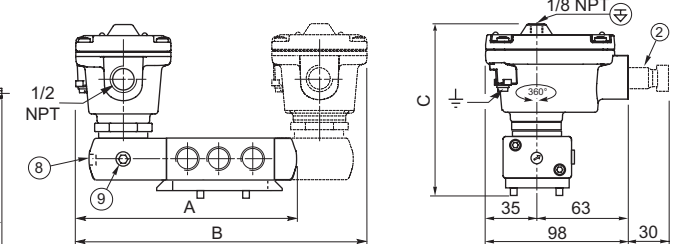
**TYPE 11:**  
Epoxy encapsulated  
JBEF: NEMA type 7, 9

551G301/H301/G302/H302/ G301MO/H301MO/G302MO/H302MO  
553G301/H301/G302/H302/ G301MO/H301MO/G302MO/H302MO



**TYPE 12:**  
Aluminium, cataphoresis black painting / AISI 316L SS  
LPKF/WSLPKF: EN/IEC 60079-1, 60079-31

551B301/B302/B301MO/B302MO/B365/B366/B365MO/B366MO  
553A301/A302/A301MO/A302MO/A365/A366/A365MO/A366MO



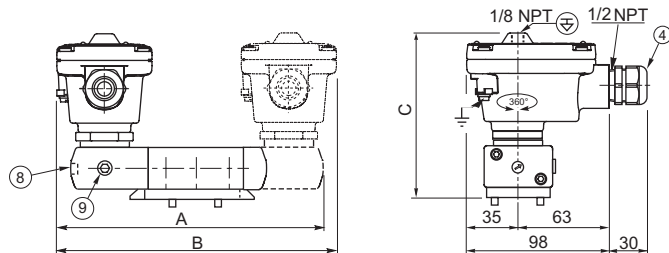


## Dimensions (mm), Weight (kg)



**TYPE 13:**  
Aluminium, cataphoresis black painting / AISI 316L SS  
LI / WSLI: EN/IEC 60079-11, 60079-31

551B301/B302/B301MO/B302MO/B365/B366/B365MO/B366MO  
553A301/A302/A301MO/A302MO/A365/A366/A365MO/A366MO



- ② Ex d certified cable gland (on request)
- ③ Three-core cable, length 2 m
- ④ Cable gland for unarmoured cable with 7 to 12 mm dia. sheath
- ⑥ Connector rotatable by 90° increments, cable Ø 6 - 10 mm
- ⑧ Manual operator location, suffix MO
- ⑨ External pilot air supply, 1/8" pipe size
- ⊖ Connectable pilot exhaust port
- ⊕ Non-connectable pilot exhaust port

Type	Prefix/Option	Power level	A		B			C		D		E		Weight <sup>(1)</sup>			
			551	553	551	551 (W1-W3)	553	551	553	551	553	551	553	551	553	551	553
01	SC	BP	125	179.5	174	198.5	225	107.7	121.2	22.5	36.15	86.5	100.2	0.86	1.66	1.37	2.22
02	NF / WSNF	BP	152	224.3	218	241.5	314.6	146.8	160.3	-	-	-	-	1.90	2.70	3.45	4.36
03	WP / WS	BP	142	196.2	198	221.5	258.3	108	121.5	-	-	-	-	0.89	1.67	1.43	2.24
03	(WS)EM	BP	142	196.2	198	221.5	258.3	108	121.5	-	-	-	-	0.89	1.67	1.43	2.24
04	PV	BP	126	179.5	166	189.5	225	93	106.5	22.5	36.15	67.5	81.2	0.87	1.67	1.39	2.23
05	EF	BP	126.5	183	167	190.5	232	90.5	104	22.5	36.15	74.5	88.2	0.88	1.67	1.40	2.24
06	SC	LP	126.5	180.5	167	190.5	227	106.5	120	22.5	36.15	87.5	101.2	0.86	1.87	1.61	2.43
07	NF / WSNF	LP	152	224.3	218	241.5	314.6	146.8	160.3	-	-	-	-	1.90	2.70	3.45	4.36
08	WP/WS/(WS)EM	LP	142	196.2	198	221.5	258.3	107.2	120.7	-	-	-	-	1.10	1.88	1.43	2.45
09	PV	LP	126	179.5	166	189.5	225	105.5	119	22.5	36.15	67.5	81.2	1.08	1.88	1.60	2.44
10	EF	LP	126.5	183	167	190.5	232	105.5	119	22.5	36.15	74.5	88.2	1.07	1.88	1.59	2.45
11	JBEF	LP	146.5	206.5	207	230.5	249	105.5	119	-	-	176	187.5	1.35	2.39	1.45	2.49
12	LPKF	LP	135	191.5	186	152.5	249	118	131.5	-	-	-	-	1.00	2.07	1.65	2.52
12	WSLPKF	LP	135	191.5	186	152.5	249	118	131.5	-	-	-	-	1.61	3.08	2.85	3.59
13	LI	LP	135	191.5	186	152.5	249	118	131.5	-	-	-	-	1.01	2.08	1.66	2.53
13	WSLI	LP	135	191.5	186	152.5	249	118	131.5	-	-	-	-	1.62	2.79	2.86	3.73

<sup>(1)</sup> Incl. coil(s) and connector(s).

## Accessories

**Pilot exhaust protector**  
part number  
276405-001

**Pilot top exhaust low power**  
(ASCO solenoid interface)

ØA	M5	1/8	1/4	3/8	1/2
B	4.5	10	11	11	14

**Exhaust protector**  
(stainless steel)