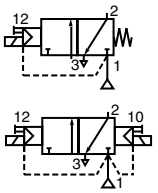
SOLENOID VALVES

pilot operated, spool type
single/dual solenoid (mono/bistable function)
aluminium body, 1/4 to 1/2



3/2

Series
551
552-553

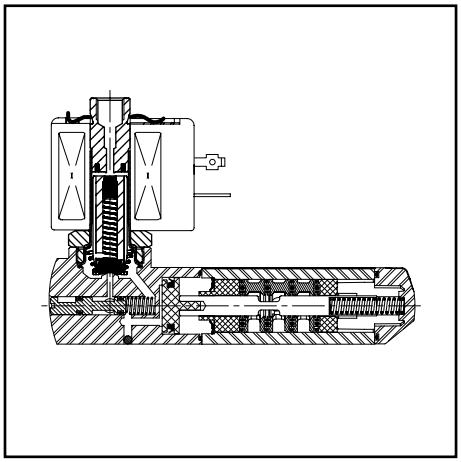
FEATURES

- *The monostable spool valves have TÜV-EXIDA certified IEC 61508 Functional Safety data and can be used up to SIL 4 (551/TÜV)-SIL 3 (552-553/EXIDA)*
- *The spool valves 3/2 NC 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*
- *The solenoid valves satisfy all relevant EC Directives*

GENERAL

Differential pressure 2 - 10 bar [1 bar = 100 kPa]
Flow (Qv at 6 bar) 1/4 = 860 l/min (ANR)
3/8 = 3000 l/min
1/2 = 3800 l/min

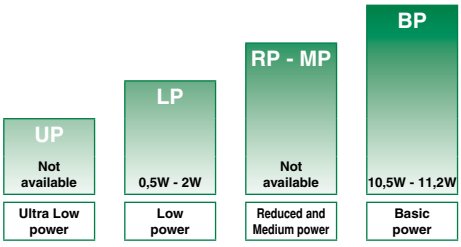
fluids (✶)	temperature range (TS)	seal materials (✶)
air, inert gas, filtered	- 25°C to + 60°C	NBR (nitrile) + PUR (polyurethane)



MATERIALS IN CONTACT WITH FLUID

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

Body Aluminium, black anodised
End cover (spring return) Glass-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 CA
Cartridge (low power) Welded, stainless steel or aluminium
Seat Brass
Seat insert CA
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.(3)	max. (PS) air (✶)			NEMA	ATEX / IECEx						IP65	
								7 & 9	Ex d		Ex e mb	Ex mb	Ex ia	-		
(❖)	(mm)	(m^3/h)	(l/min)		~	=	~/=	EF	(WS)LPKF	NF	EM	PV	(WS)LI	-	SC	
Solenoid air pilot operated - spring return (monostable)																
1/4	6	0,75	12,5	0/2	10	10	BP	-	-	●	●	●	-	-	●	❖551B405 (2)
1/4	6	0,75	12,5	0/2	10	10	BP	●	-	-	-	-	-	-	-	❖551H405 (2)
1/4	6	0,75	12,5	0/2	10	10	LP	-	●	●	●	❍	❍	-	●	❖551B305 (2)
1/4	6	0,75	12,5	0/2	10	10	LP	❍	-	-	-	-	-	-	-	❖551H305 (2)
3/8	12	2,49	41,5	0/2	10	10	BP	-	-	●	●	●	-	-	●	❖552A405 (2)
3/8	12	2,49	41,5	0/2	10	10	BP	●	-	-	-	-	-	-	-	❖552G405 (2)
3/8	12	2,49	41,5	0/2	10	10	LP	-	●	●	●	❍	❍	-	●	❖552A305 (2)
3/8	12	2,49	41,5	0/2	10	10	LP	❍	-	-	-	-	-	-	-	❖552G305 (2)
1/2	13	3,15	52,5	0/2	10	10	BP	-	-	●	●	●	-	-	●	❖553A405 (2)
1/2	13	3,15	52,5	0/2	10	10	BP	●	-	-	-	-	-	-	-	❖553G405 (2)
1/2	13	3,15	52,5	0/2	10	10	LP	-	●	●	●	❍	❍	-	●	❖553A305 (2)
1/2	13	3,15	52,5	0/2	10	10	LP	❍	-	-	-	-	-	-	-	❖553G305 (2)

❖ 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
(2) Certified IEC 61508 Functional Safety data, use suffix "**SL**"
(3) Zero minimum is only achieved if external pressure is applied

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SPECIFICATIONS

pipe size	orifice size	flow coefficient kv		operating pressure differential (bar)			power level	prefix optional solenoids								basic catalogue number
				min.(3)	max. (PS) air (✶)			NEMA	ATEX / IECEx						IP65	
								7 & 9	Ex **d**		Ex **e mb**	Ex **mb**	Ex **ia**	-		
(❖)	(mm)	(m^3/h)	(l/min)		~	=	~/=	**EF**	**(WS)LPKF**	**NF**	**EM**	**PV**	**(WS)LI**	**-**	**SC**	
Solenoid air pilot operated and return (bistable)																
1/4	6	0,75	12,5	0/2	10	10	BP	-	-	●	●	●	-	-	●	**❖551B406**
1/4	6	0,75	12,5	0/2	10	10	BP	●	-	-	-	-	-	-	-	**❖551H406**
1/4	6	0,75	12,5	0/2	10	10	LP	-	●	●	●	❍	❍	-	●	**❖551B306**
1/4	6	0,75	12,5	0/2	10	10	LP	❍	-	-	-	-	-	-	-	**❖551H306**
3/8	12	2,49	41,5	0/2	10	10	BP	-	-	●	●	●	-	-	●	**❖552A406**
3/8	12	2,49	41,5	0/2	10	10	BP	●	-	-	-	-	-	-	-	**❖552G406**
3/8	12	2,49	41,5	0/2	10	10	LP	-	●	●	●	❍	❍	-	●	**❖552A306**
3/8	12	2,49	41,5	0/2	10	10	LP	❍	-	-	-	-	-	-	-	**❖552G306**
1/2	13	3,15	52,5	0/2	10	10	BP	-	-	●	●	●	-	-	●	**❖553A406**
1/2	13	3,15	52,5	0/2	10	10	BP	●	-	-	-	-	-	-	-	**❖553G406**
1/2	13	3,15	52,5	0/2	10	10	LP	-	●	●	●	❍	❍	-	●	**❖553A306**
1/2	13	3,15	52,5	0/2	10	10	LP	❍	-	-	-	-	-	-	-	**❖553G306**

❖ 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
(3) Zero minimum is only achieved if external pressure is applied

PREFIX TABLE

prefix							description	power level			
1	2	3	4	5	6	7		**LP**	**RP**	**MP**	**BP**
E	F						Explosionproof - NEMA 7, 9 - Zinc plated steel conduit	❍	-	-	●
E	M						Waterproof IP67 - Metal enclosure (EN/IEC 60079-7+18, 61241-1)*	●	-	-	●
		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, 61241-18)*	❍	-	-	●
S	C						Solenoid with spade plug connector (EN/IEC 60730)	●	-	-	●
W	P						Waterproof IP67 - Metal enclosure	●	-	-	●
L	I						I.S. with Aluminium IP67 enclosure (EN/IEC 60079-11 / 60079-31)*	❍	-	-	-
W	S						Waterproof IP67 - 316 SS enclosure	●	-	-	●
W	S	L	P	K	F		Flameproof - 316 SS (EN/IEC 60079-1, 60079-31)*	●	-	-	-
W	S	E	M				Waterproof IP67 - 316 SS enclosure (EN/IEC 60079-7+18, 61241-1)*	●	-	-	●
W	S			L	I		I.S. with 316L SS IP67 enclosure (EN/IEC 60079-11, 60079-31)*	❍	-	-	-
W	S	N	F				Flameproof - 316 SS (EN/IEC 60079-1, 60079-31)*	●	-	-	●
		T					Threaded conduit (1/2" NPT)	●	-	-	●
				H	T		Class H - High temperature (ambient +80°C)	-	-	-	●
						X	Other special constructions	●	-	-	●

SUFFIX TABLE

suffix					description	power level			
1	2	3	4	5		**LP**	**RP**	**MP**	**BP**
			M	O	Push type manual operator	●	-	-	●
	S	L			Certified IEC 61508 Functional Safety data (4)	●	-	-	●
	M	F			Low temperature -40°C	●	-	-	●

* ATEX solenoids are also approved according to and EN 13463-1 (non electrical valves)
● Available feature
❍ Available feature in DC only
- Not available
(4) Not to use with MO suffix

PRODUCT SELECTION GUIDE

STEP 1
Select the fluid temperature range and seal material from the general table on page 7. Select basic catalogue number, including pipe thread identification letter. Refer to the specifications table above.
Example : G552A405

STEP 2
Select prefix (combination). Select the appropriate operator from the specifications table on page 7 and the prefix table on page 8. Select for this operator in the electrical characteristics table on page 9: the power level (LP, BP), the type of electrical enclosure protection and the desired temperature class.
Warning: The ambient temperature range of your application may not exceed the temperature range of your operator.
Example : EM

STEP 3
Select suffix (combination) if required.
Example : MO

STEP 4
Select voltage. Refer to standard voltages on page 9.
Example : 230V / 50Hz

STEP 5
Final catalogue / ordering number.
Example :
EM G552A405MO 230 V / 50 Hz

OPTIONS & ACCESSORIES

series	pipe size	exhaust protector (stainless steel)		
		(G)	(NPT)	(M)
551/552/553	1/8	**34600418** (5)	**34600482** (5)	-
551	1/4	**34600419** (5)	**34600483** (5)	-
552	3/8	**34600478** (5)	**34600480** (5)	-
553	1/2	**34600479** (5)	**34600481** (5)	-
551	M5	-	-	**34600484**

(5) Provided with "SL" suffix.

ORDERING EXAMPLES:

SC	G	551 **B** 405			230V / 50 Hz
SC	G	551 **B** 405	**SL**		230V / 50 Hz
SC	G	551 **B** 406	**MO**		230V / 50 Hz
SCHT	8	551 **B** 406	**MO**		230V / 50 Hz
LPKF	G	551 **B** 305	**MO**		24V / DC
LI	G	552 **A** 305			24V / DC
EM	8	552 **A** 406	**MO**		230V / 50 Hz
EF	G	551 **H** 405	**MO**		240V / 60 Hz

prefix (6)
pipe thread
basic number (6)
voltage
suffix

(6) Prefixes EF should always be used with the letter H or G in the basic number.

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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(5)/50Hz; other voltages and 60Hz are available on request

prefix option	power ratings inrush ~ (VA)	holding ~ (VA)	holding ~ (W)	hot/cold = (W)	operator ambient temperature range (TS) (C°)(1)	safety code	electrical enclosure protection (EN 60529)	replacement coil / kit ~ 230 V/50 Hz	replacement coil / kit = 24V/DC	type (2)
Basic power (BP)										
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	04
NF/WSNF	55	23	10,5	-	(-60)(7) -40 to +25/40/60	II2G Ex d IIC T6/T5/T4, II2D Ex t	IP67 alu./SS	400405-117	-	02
NF/WSNF	-	-	-	9/11,2	(-60)(7) -40 to +40/60/75	II2G Ex d IIC T6/T5/T4, II2D Ex t	IP67 alu./SS	-	400405-142	02
EM/WSEM	55	23	10,5	9/11,2	-40 to +40	II2G Ex e mb II T3, II2D Ex tD	IP67 steel/SS	400909-117	400913-142	04
PV	55	23	10,5	9/11,2	-40 to +65	II2G Ex mb II T3(~)/T4(=),II2D Ex mD 21	IP67 moulded	-(4)	-(4)	05
EF	55	23	10,5	9/11,2	-40 to +54/40	NEMA type 7 and 9	NEMA 4X	238614-058	238714-006	06
Low power (LP)										
SC	1,5	1,5	1,5	1,7/1,7	-40 to +60	EN 60730	IP65 moulded	400925-097	400925-042	07
WP/WS	1,5	1,5	1,5	1,7/1,7	-40 to +60	EN 60730	IP67 steel/SS	400926-097	400926-042	09
LPKF/WSLPKF (8)	2,4	2,4	2,4	0,5/0,5 (8)	-40 to +80/60	II2G Ex d IIB+H2 Gb T4/T6, II2D Ex t Db	IP67 alu./SS	- (4)	- (4)	13
NF/WSNF	-	-	1,9	- /1,9	(-60)(7) -40 to +75/80	II2G Ex d IIC T6/T5, II2D Ex t	IP67 alu./SS	- (4) (5)	- (4)	08
EM/WSEM	1,5	1,5	1,5	1,7/1,7	-40 to +40/55	II2G Ex e mb II T6/T5, II2D Ex tD	IP67 steel/SS	- (4)	- (4)	09
PV	-	-	-	1,7/1,7	-40 to +65	II2G Ex mb II T6 / II2D Ex mD 21	IP67 moulded	-	- (4)	10
EF	-	-	-	1,7/1,7	-40 to +60	NEMA type 7 and 9	NEMA 4X	-	- (4)	11
LI (3) (6)	-	-	-	0,5/0,5	-40 to +60	II1G Ex ia IIC T6 Ga, II2D Ex t IIIC Db (6)	IP67 alu.	-	- (4)	14
WSLI (3) (6)	-	-	-	0,5/0,5	-40 to +60	II1G Ex ia IIC Ga T6, II2D Ex t IIIC Db	IP67 SS	-	- (4)	14

prefix option	safety parameters U_i = (DC) (V)	I_i (mA)	P_i (W)	L_i (H)	C_i (µF)
Low power (LP)					
LI/WSLI	32	500	1,5	0	0

(1) Temperature range can be limited by sealings
(2) Refer to the dimensional drawings on pages: 10 to 14
(3) LI/WSLI: Check the electrical characteristics in the corresponding catalogue pages
(4) Multiple coil kits are available under ATEX/IECEx, contact us
(5) (WS)NF: Low Power, 230 V AC does not exist. Maximum voltage in AC is 115 V
(6) LI/WSLI: Low Power, 24 V DC only (**For use in zone 0 locations, see the installation conditions given in the I&M instructions**)
(7) The certified minimum temperature of this operator
(8) LPKF/WSLPKF: 24 V DC, max. ambient temp. +80°C, contact us (48 V DC = 2,1 W)
- 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 cable gland for cables with an outer diameter from 7 to 12 mm. With an internal and external facility for an earthing or bonding conductor
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 cable gland for cables with an outer diameter from 7 to 12 mm. With an internal and external facility for an earthing or bonding conductor
EF	1/2" NPT conduits, standard length 35 cm

ADDITIONAL OPTIONS

- Valves configured for external pilot air supply, TPL 20547
- Other pipe threads are available on request
- Ex mb/mD (prefix "PV") solenoid can be supplied with various cable lengths
- Compliance with "UL", "CSA" and other local approvals available on request
- 1/2" NPT (prefix "T") and M20 x 1.5 (prefix "ET") conduits (aluminium or 316 SS) available for steel solenoid housing

INSTALLATION

- Multi language installation/maintenance instructions are included with each valve
- The solenoid valves can be mounted in any position without affecting operation
- Do not connect the pressure supply to the exhaust port 3. The “environmentally-protected” construction is not adapted for a “distributing” function or use in NO function. Contact us for functions available in specific versions
- IEC 61508 Functional Safety (suffix SL), allowable temperature range: -40°C to +60°C. 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)
- Prefix "NF/WSNF" enclosure is provided with a 1/2" NPT threaded entry hole, M20 x 1,5 (prefix "ET") is optional. Both are supplied without cable gland

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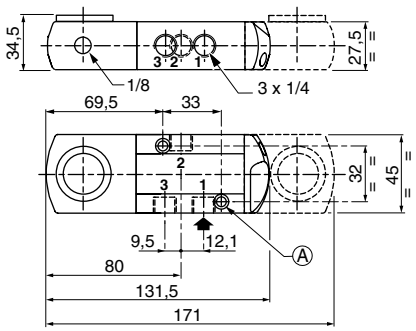
DIMENSIONS (mm), WEIGHT (kg)

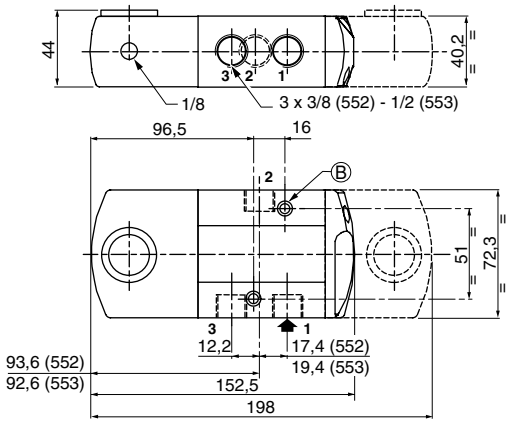
Types 01 to 12

Series 551



(A) 2 mounting holes dia. 5,3 mm
Spotfacing: dia. 9 mm, depth 5 mm

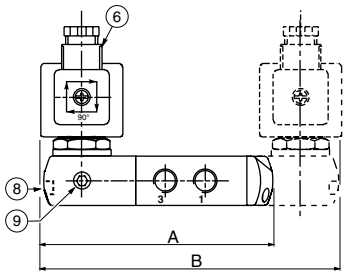
Series 552-553

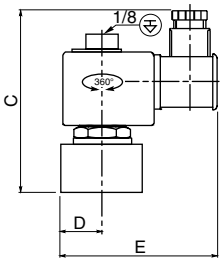


(B) 2 mounting holes dia. 6,5 mm
Spotfacing: dia. 11 mm, depth 8 mm

TYPE 01:
SC
Epoxy moulded
IEC 335 / ISO 4400

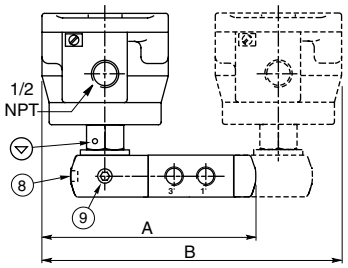
551B405 / B406 / B405MO / B406MO
552A405 / A406 / A405MO / A406MO
553A405 / A406 / A405MO / A406MO

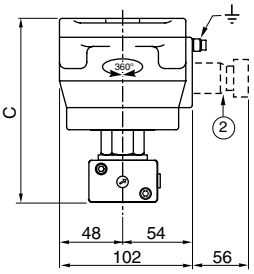




TYPE 02:
NF / WSNF
Aluminium; epoxy coated / AISI 316 SS
EN/IEC 60079-1 and EN/IEC 60079-31

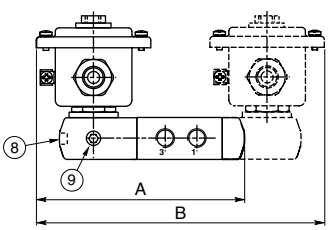
551B405 / B406 / B405MO / B406MO
552A405 / A406 / A405MO / A406MO
553A405 / A406 / A405MO / A406MO

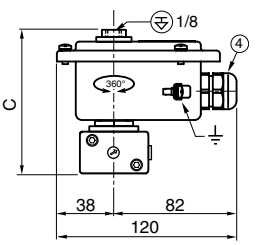




TYPE 04:
WP / WS
EM / WSEM
Steel; epoxy coated / AISI 316 SS
IEC 335 / EN 60079-7/18 and EN 61241-1

551B405 / B406 / B405MO / B406MO
552A405 / A406 / A405MO / A406MO
553A405 / A406 / A405MO / A406MO





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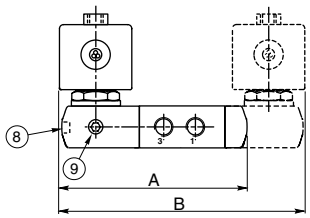
DIMENSIONS (mm), **WEIGHT** (kg)

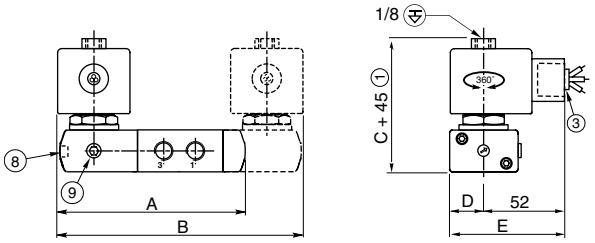
TYPE 05:
PV
Epoxy encapsulated
EN/IEC 60079-18 and EN/IEC 61241-18

551B405 / B406 / B405MO / B406MO
552A405 / A406 / A405MO / A406MO
552A405 / A406 / A405MO / A406MO



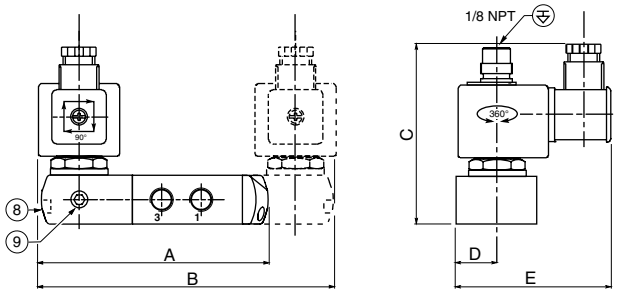
TYPE 06:
EF: NEMA type 7 and 9
Epoxy encapsulated
ICS-6 ANSI
NOTE: applicable to solenoid only

551H405 / H406 / H405MO / H406MO
552G405 / G406 / G405MO / G406MO
553G405 / G406 / G405MO / G406MO



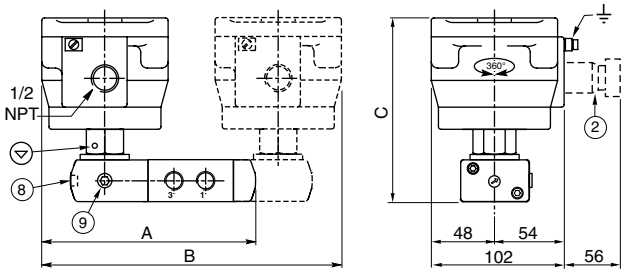
TYPE 07:
SC
Epoxy moulded
IEC 335 / ISO 4400

551B305 / B306 / B305MO / B306MO
552A305 / A306 / A305MO / A306MO
553A305 / A306 / A305MO / A306MO



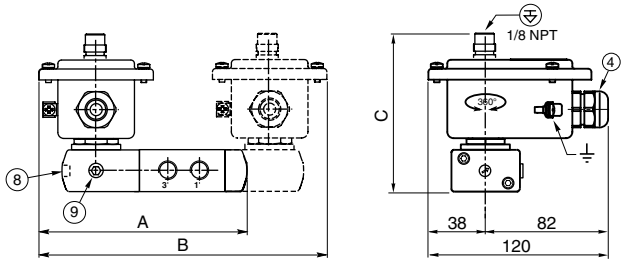
TYPE 08:
NF / WSNF
Aluminium; epoxy coated / AISI 316 SS
EN/IEC 60079-1 and EN/IEC 60079-31

551B305 / B306 / B305MO / B306MO
552A305 / A306 / A305MO / A306MO
553A305 / A306 / A305MO / A306MO



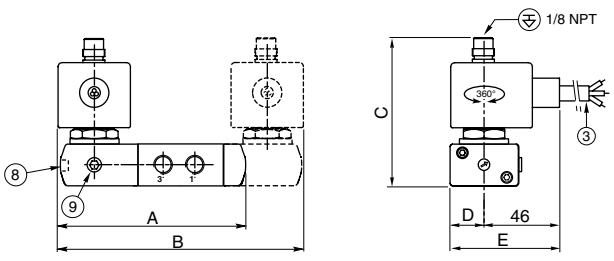
TYPE 09:
WP / WS
EM / WSEM
Steel; epoxy coated / AISI 316 SS
IEC 335/EN 60079-7/18 and EN 61241-1

551B305 / B306 / B305MO / B306MO
552A305 / A306 / A305MO / A306MO
553A305 / A306 / A305MO / A306MO



TYPE 10:
PV
Epoxy encapsulated
EN/IEC 60079-18 and EN/IEC 61241-18

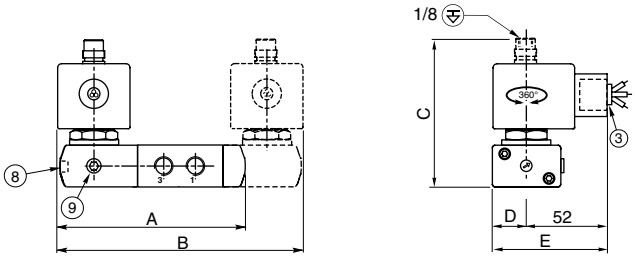
551B305 / B306 / B305MO / B306MO
552A305 / A306 / A305MO / A306MO
553A305 / A306 / A305MO / A306MO



DIMENSIONS (mm), **WEIGHT** (kg)

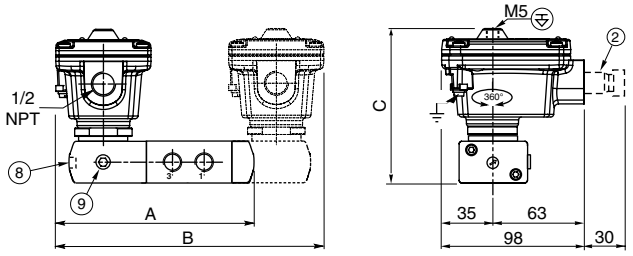
TYPE 11:
EF: NEMA type 7 and 9
Epoxy encapsulated
ICS-6 ANSI
NOTE: applicable to solenoid only

551H305 / H306 / H305MO / H306MO
552G305 / G306 / G305MO / G306MO
553G305 / G306 / G305MO / G306MO



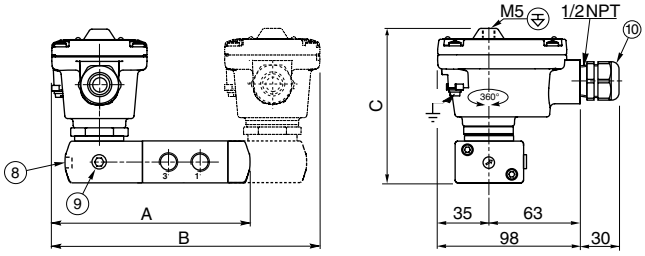
TYPE 13:
LPKF / WSLPKF
Aluminium, cataphorese black painting / AISI 316L SS
EN/IEC 60079-1 and EN/IEC 60079-31

551B305 / B306 / B305MO / B306MO
552A305 / A306 / A305MO / A306MO
553A305 / A306 / A305MO / A306MO



TYPE 14:
LI / WSLI
Aluminium, cataphorese black painting / AISI 316L SS
EN/IEC 60079-11 and EN/IEC 60079-31

551B305 / B306 / B305MO / B306MO
552A305 / A306 / A305MO / A306MO
553A305 / A306 / A305MO / A306MO



(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) Push type or screw type manual operator, suffix MO
(9) External pilot air supply, 1/8 pipe size
(10) Cable gland for unarmoured cable with 7 to 12 mm dia. sheath
Connectable pilot exhaust port
Non-connectable pilot exhaust port

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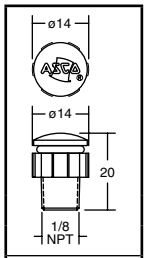
DIMENSIONS (mm), WEIGHT (kg)

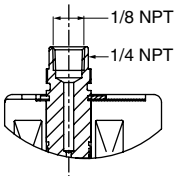
type	prefix option	power level	A		B		C		D		E		weight (1)					
													monostable			bistable		
			551	552/553	551	552/553	551	552/553	551	552/553	551	552/553	551	552	553	551	552	553
01	SC	BP	132	152,5	170	198	102,7	112,2	22,5	36,15	86,5	100,2	0,76	1,45	1,35	1,34	2,01	1,91
02	NF / WSNF	BP	158	197,3	224	287,6	141,8	151,3	-	-	-	-	1,85	2,49	2,39	3,51	4,15	4,05
04	WP/WS	BP	148	169,2	204	231,3	103	112,5	-	-	-	-	0,84	1,46	1,36	1,49	2,03	1,93
04	(WS)EM	BP	148	169,2	204	231,3	103	112,5	-	-	-	-	0,84	1,46	1,36	1,49	2,03	1,93
05	PV	BP	132	152,5	172	198	88	97,5	22,5	36,15	67,5	81,2	0,82	1,46	1,36	1,45	2,02	1,92
06	EF	BP	132,5	156	173	205	85,5	95	22,5	36,15	74,5	88,2	0,64	1,46	1,36	1,29	2,03	1,93
07	SC	LP	132,5	153,5	173	200	101,5	111	22,5	36,15	87,5	101,2	0,97	1,66	1,56	1,55	2,22	2,16
08	NF / WSNF	LP	158	197,3	224	287,5	141,8	151,3	-	-	-	-	1,85	2,49	2,39	3,51	4,15	4,05
09	WP/WS/(WS)EM	LP	148	169,2	204	231,3	102,2	111,7	-	-	-	-	1,05	1,67	1,57	1,70	2,23	2,14
10	PV	LP	132	152,5	172	198	100,5	110	22,5	36,15	67,5	81,2	1,03	1,67	1,57	1,67	2,23	2,13
11	EF	LP	132,5	156	173	205	100,5	110	22,5	36,15	74,5	88,2	0,85	1,67	1,57	1,50	2,24	2,14
13	LPKF	LP	141	164,5	192	222	113	122,5	-	-	-	-	0,90	1,86	1,76	1,62	2,31	2,21
13	WSLPKF	LP	141	164,5	192	222	113	122,5	-	-	-	-	1,51	2,46	2,77	2,82	3,51	3,28
14	LI	LP	141	164,5	192	222	113	122,5	-	-	-	-	0,91	1,87	1,77	1,63	2,32	2,22
14	WSLI	LP	141	164,5	192	222	113	122,5	-	-	-	-	1,52	2,48	2,38	2,83	3,52	3,42

(1) Including coil(s) and connector(s).

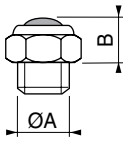
ACCESSORIES



pilot exhaust protector part no. 276-405-001



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)