

FEATURES

- Reliability: steel spool & sleeve technology with long service life
- Modular assembly with joinable subbases
- Subbases with side or bottom ports

GENERAL

Fluid	Air or neutral gas, filtered, lubricated or not
Operating pressure	+1 to +10 bar (with internal supply to pilot) -0,950 to +12 bar (with external supply to pilot)
Ambient temperature	-10°C to +60°C
Flow (Qv at 6 bar)	ISO 1: 1400 l/min (ANR) ISO 2: 2800 l/min (ANR) ISO 3: 4200 l/min (ANR)
Response time	See tables choice of equipment
Life	200 millions of cycles
Base	ISO 5599/1 sizes 1-2-3 - AFNOR NF E49080
Subbase	Single subbase ISO/AFNOR NF E49085 Joinable subbase ISO/VDMA 24345 Joinable subbase with integrated functions



CONSTRUCTION

Body	Aluminium
Other parts	Stainless steel, steel, aluminium alloy or plastic
Static Seals	NBR (nitrile)

PILOTS

Solenoid valves 3/2 NC, series 190, pad mounting ISO 15218 (size 30)

ELECTRICAL CHARACTERISTICS

voltage		consumption		insulation class	protection degree	electrical connection
~	=	inrush	hold			
~	24V-48V-115V-230V/50 Hz	9 VA	4 VA (3 W)	F	IP 65	spade plug size 30 connector, ISO4400/EN175301-803, form A, rotatable by 90°
=	24V-48V	3 W				

The solenoid valve 190 is dual-voltage (24V~, 12V=) (48V~, 24V=) (115V~, 48V=) (230V~, 110V=)

SPECIFICATIONS

function symbol	operators pilot (14) solenoid air operated return (12)	size	response time (ms)		pilot pressure (bar)		2 catalogue numbers		
			energized	de-energized	min.	max.	valve	+ solenoid pilot quantity & catalogue number with standard connector	(M)
	spring return	ISO 1	15	35	1	10	C12BA400-X C23BA400-X C34BA400-X	+ 1x { 19000005 19000006 19000017	× ● ▼
		ISO 2	20	35					
		ISO 3	20	90					
	Solenoid air operated return	ISO 1	15	15	1	10	C12BB400-X C23BB400-X C34BB400-X	+ 2x { 19000005 19000006 19000017	× ● ▼
		ISO 2	15	15					
		ISO 3							
	pressure hold W1	ISO 1	15	35	1	10	C12BB600-X C23BB600-X C34BB600-X		
		ISO 2	20	20					
		ISO 3							
	pressure applied W2	ISO 1	15	35	1	10	C12BB700-X - C34BB700-X		
		ISO 2							
		ISO 3							
pressure release W3	ISO 1	15	35	1	10	C12BB500-X C23BB500-X C34BB500-X			
	ISO 2	20	20						
	ISO 3								

(M) Type of manual operator on pilot(s): × : without ● : maintained ▼ : impulse

When ordering, please specify in addition to the basic solenoid valve catalogue number:
the type of current: voltage / frequency of the solenoid valve
Example : **C12BB400-X + 2 x 19000017 24V/DC**

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OPTIONS

- 3/2 solenoid valves piloting: [series 189](#), [series 190 with M12 connection](#), [series 192](#)
- 16 bar version (wide ambient temperature range: -10°C to +90°C):

type of valve	(M)	catalogue number
190 NF 16 bar	×	19060016
	●	19060019
	▼	19060017

- Material and solenoid pilot valve for use in potentially **explosive atmospheres** caused by gases or dusts - ATEX directive 2014/34/EU (contact us)
- [Connector with cable 2 m long](#)
- [Connector with transil protection](#)
- Solenoid valve with plug and built-in visual control and protection :

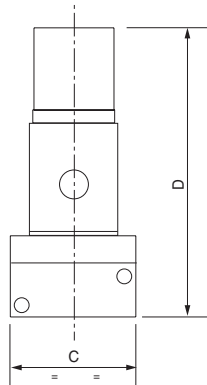
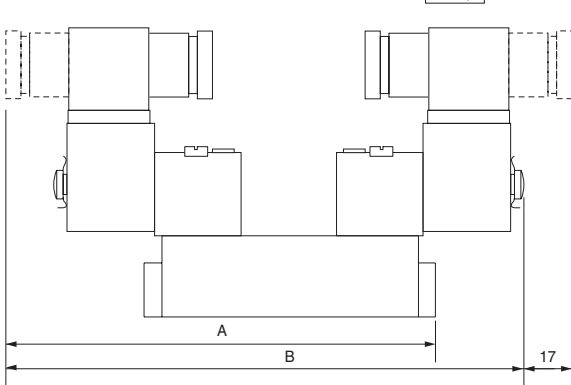
Solenoid valve **without** connector + Connector with built-in visual control and VDR/RC protection

type of valve	(M)	catalogue number solenoid valve without connector	catalogue number (~ / =)			
			24V	48V	115V	230V
190 NF	×	19000013	88122603	88122604	88122605	88122608
	●	19000014				
	▼	19000018				

(M) Type of manual operator on pilot(s) : × : without ● : maintained ▼ : impulse

SUBBASES AND ACCESSORIES : [see preceding pages](#)

DIMENSIONS (mm), WEIGHT (kg)



size	type	A	B	C	D	weight (kg)
ISO1	BA	136,0	—	42,0	102,0	0,50
	BB	—	168,0	42,0	102,0	0,60
ISO2	BA	149,0	—	50,8	104,6	0,70
	BB	—	169,0	50,8	104,6	0,80
ISO3	BA	179,0	—	63,5	114,0	1,10
	BB	—	196,7	63,5	114,0	1,26

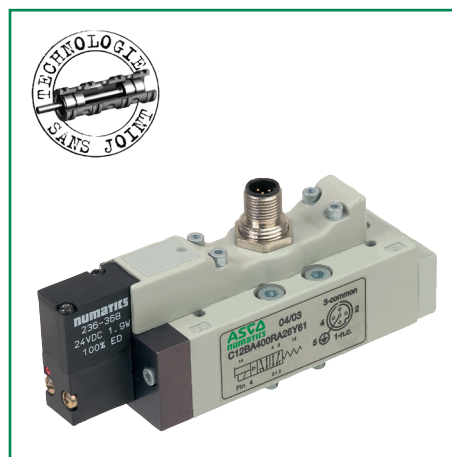
incl. bolts and gaskets

FEATURES

- M12 connection: Prevents wiring errors, reduces installation time and reduces wiring costs
- Modular assembly with joinable subbases

GENERALITES

Fluid	Air or neutral gas, filtered, lubricated or not
Operating pressure	+1 to +10 bar with internal supply to pilot) -0,950 to +10 bar (with external supply to pilot)
Ambient temperature	-10°C to +50°C
Flow (Qv at 6 bar)	ISO1: 1400 l/min (ANR) ISO2: 2400 l/min (ANR)
Response time	200 millions of cycles
Base	ISO 5599/1 sizes 1-2-3 - AFNOR NF E49080
Subbase	Single subbase ISO/AFNOR NF E49085 Joinable subbase ISO/VDMA 24345 Joinable subbase with integrated functions



CONSTRUCTION

Body	Aluminium
Other parts	Stainless steel, steel, aluminium alloy or plastic
Static Seals	NBR (nitrile)

ELECTRICAL CHARACTERISTICS

voltage	consumption	insulation class	protection degree	electrical connection
24 VCC (=)	2,5 W	F	IP 65	centralised M12 connection to VDMA 24571 (ISO/CD 20401) with integral LED and surge suppression (yellow LED)

SPECIFICATIONS

function symbol	operators pilot (14) solenoid air operated return (12)	size	response time (ms)		pilot pressure (bar)		catalogue numbers	
			ener-gized	de-ener-gized	min.	max.		(M)
	rappel ressort	ISO 1 ISO 2	20 15	32 36	1	10	C12BA400RA26Y61 C23BA400RA26Y61	▼
	rappel électropneumatique	ISO 1 ISO 2	20 15	- -	1	10	C12BB400RA26Y61 C23BB400RA26Y61	▼
	centre fermé W1	ISO 1 ISO 2	20 15	32 36	1	10	C12BB600RA26Y61 C23BB600RA26Y61	▼
	centre ouvert à la pression W2	ISO 1 ISO 2	20 15	32 36	1	10	C12BB700RA26Y61 -	▼
	centre ouvert à l'échappement W3	ISO 1 ISO 2	20 15	32 36	1	10	C12BB500RA26Y61 C23BB500RA26Y61	▼

(M) Type of manual operator on pilot(s): ▼ : impulse

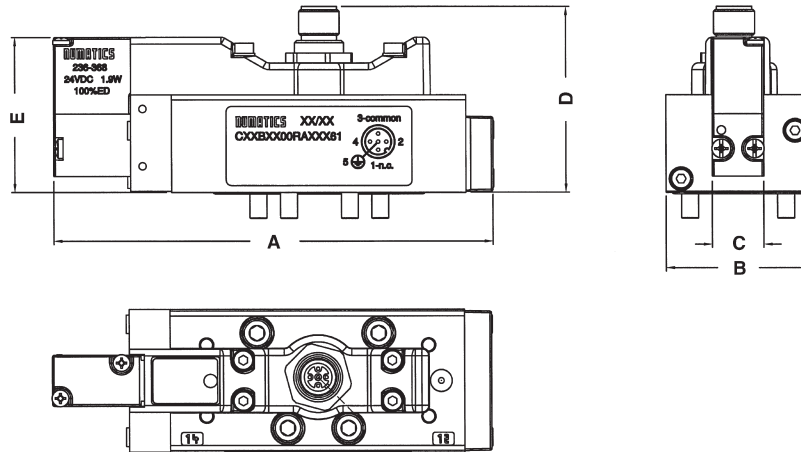
OPTIONS

- 16 bar, on request

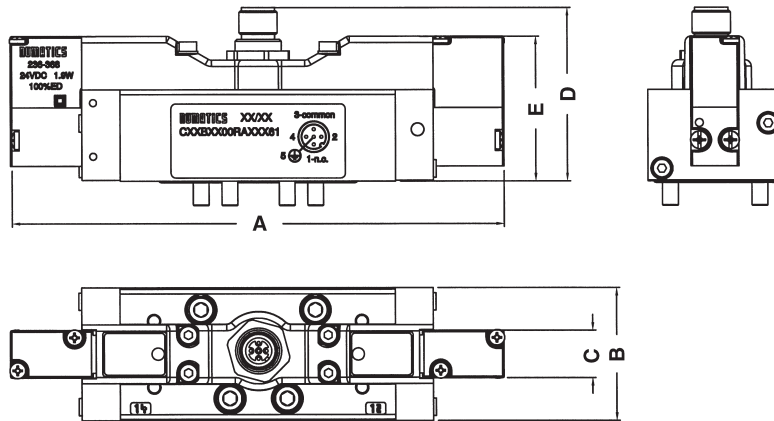
SUBBASES AND ACCESSORIES : [see preceding pages](#)

DIMENSIONS (mm), WEIGHT (kg)

monostable spool valve
ISO 1 and ISO 2



bistable and 5/3 spool valve
ISO 1 and ISO 2



size	type	A	B	C	D	E	weight (kg)
ISO1	BA	129,4	42,1	15,0	54,8	45,7	0,50
	BB	155,4	42,1	15,0	54,8	45,7	0,55
ISO2	BA	150,2	50,8	15,0	57,6	48,6	0,70
	BB	175,9	50,8	15,0	57,6	48,6	0,80

incl. bolts and gaskets