COILS AND ACCESSORIES

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					■	■	■				metal			
Flow regulator silencer					■	■								
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Silencer				■	■	■	■	■	■	■	plastic or metal		346	3
Exhaust protector											metal			
Shuttle valve					■	■								
Non-return valve											plastic			
				■	■	■	■	■			metal			
Quick exhaust valve						■	■	■	■					

[1] For equivalence between accessory and cylinder sizes, see page III

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product	pipe connections - instant fittings O.D. (mm) - push-in hose connection - internal thread ØG - external thread ØG ⊥ - pad mount ØG 3 | 4 | 6..12 | M3 | M5 | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 | 1 1/4 | 1 1/2..2	pad mount	type	illustration	series	page
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t	4		red green yellow		346	3
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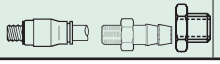
Push-in, threaded or hose connectors	3 ▪ M3 ▪ M5 ▪ 1/8		Micro 10		346	22

(1) For equivalence between accessory and cylinder sizes, see page III
(2) See "Pneumatic Automation" section.

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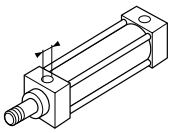
PNEUMATIC CYLINDER PORT DIAMETERS

The following table will enable you to select the correct size of the pneumatic accessories for direct fitting to the cylinder ports (banjo flow regulator, orientable cylinder blocking fitting).



type	series	cylinder bore (mm)																		
		6	8	10	12	16	18	20	22	25	32	40	50	63	80	100	125	160	200	250
E	429	❊	-	❊	-	❊	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	441	-	M5	M5	M5	M5	-	M5	-	M5	1/8	1/8	1/8	1/8	1/8	1/8	-	-	-	-
-	435	-	M5	M5	M5	M5	-	1/8	-	1/8	-	-	-	-	-	-	-	-	-	-
-	438	-	-	-	-	-	-	-	-	-	1/8	1/4	1/4	3/8	-	-	-	-	-	-
-	449	-	-	-	-	-	-	M5	-	M5	1/8	1/8	1/8	1/8	1/8	1/8	-	-	-	-
-	453	-	-	-	-	-	-	-	-	-	1/8	1/4	1/4	3/8	3/8	1/2	-	-	-	-
-	454	-	-	-	-	-	-	-	-	-	1/8	1/4	1/4	3/8	3/8	1/2	-	-	-	-
-	450	-	-	-	-	-	-	-	-	-	1/8	1/4	1/4	3/8	3/8	1/2	1/2	3/4	3/4	-
PIS	436	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
PCN	437	-	-	-	-	-	-	-	-	1/8	1/8	1/4	1/4	3/8	3/8	1/2	1/2	3/4	3/4	-
-	431	-	-	-	-	-	-	-	-	-	1/8	1/4	1/4	3/8	3/8	-	-	-	-	-
-	S	-	-	-	-	-	-	-	-	-	1/8	1/4	1/4	3/8	3/8	1/2	1/2	-	-	-
STN	445	M5	-	M5	-	M5	-	1/8	-	1/8	1/8	1/4	-	-	-	-	-	-	-	-
STG	445	M5	-	M5	-	M5	-	1/8	-	1/8	1/8	1/4	-	-	-	-	-	-	-	-
STB	446	-	-	-	-	-	-	-	-	1/8	1/4	1/4	3/8	3/8	-	-	-	-	-	-
STBN	446	-	-	-	-	M5	-	-	-	1/8	1/4	1/4	1/4	3/8	1/2	-	-	-	-	-
STB	448	-	-	-	-	M5	-	-	-	1/8	1/4	1/4	1/4	3/8	1/2	-	-	-	-	-
STB (with passive brake)	448	-	-	-	-	-	-	-	-	1/8	1/4	1/4	1/4	3/8	1/2	-	-	-	-	-
STBB	448	-	-	-	-	-	-	-	-	1/8	1/4	1/4	1/4	-	-	-	-	-	-	-
STBB (with passive brake)	448	-	-	-	-	-	-	-	-	1/8	1/4	1/4	1/4	-	-	-	-	-	-	-
-	CGT	-	-	-	-	M5	-	1/8	-	1/8	1/8	1/8	1/4	1/4	-	-	-	-	-	-
P2L - P2B	447	-	-	-	-	M5	-	M5	-	M5	1/8	-	-	-	-	-	-	-	-	-
R	429	-	-	-	M5	-	-	M5	-	-	-	-	-	-	-	-	-	-	-	-
RS	429	-	-	-	-	M5	M5	-	M5	-	-	-	-	-	-	-	-	-	-	-

❊ hose connections

description	illustration	series	page
Coils and solenoid operators			
Replacement coils		400 430	IV
Connectors			
Electrical connectors EN 175301-803, industry standard form B (11 mm, size 22) ISO 4400 / EN 175301-803, form A (18 mm, size 30)		881	25
EN 175301-803, industry standard form C (9,4 mm, size 15) EN 175301-803, form C (8 mm, size 15)			27
Visual indication (LED) and electrical protection module (size 15)		881	29
ISO 4400 / EN 175301-803, form A (size 30) with protection by TRANSIL and LED display		881	31

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COIL CHARACTERISTICS

All coils are designed to operate at 15% or 10% below the nominal voltage (Un) and at 10% above the nominal voltage (Un). [Applicable standards: IEC 335, EN 60730- 1, UL 429]

The coils are rated for continuous duty within the maximum ambient temperature limits (100% ED).

CATALOGUE NUMBERS OF REPLACEMENT COILS

solenoid valve series	coil type	alternating current , AC (~) 50 Hz					direct current , DC (=)			
		24V	**48V**	**115V**	**230V**	240V	12V	**24V**	**48V**	110V
189	C22A - 2,5 W	**43004416** (❖)	**43004417** (❖)	**43004419** (❖)	**43004422** (❖)	**43004423** (❖)	**43004149**	**43004166**	**43004167**	**43004168**
	C22 - 2,5 W (**M12**)	-	**-**	**-**	**-**	**-**	**-**	**43005523**	**-**	**-**
189	CM22 - 2,5 W	**43004878** (❖)	**43004879** (❖)	**43004884** (❖)	**43004886** (❖)	**43004887** (❖)	**43004867**	**43004869**	**43004873**	**43004875**
189 banjo 551	CM22[(1)]- 2,5/3W	**400127-081** (❖)	**400127-085** (❖)	**400127-098** (115V/50-120V/60)	**400127-097** (❖)	**400127-091**(❖)	**400904-541**	**400904-542**	**400904-544**	**400904-548**
356 (1/8)	CM22-4W/6,9W F	**400127-181** (❖)	**400127-185** (❖)	**400127-181** (115V/50-120V/60)	**400127-197** (❖)	**-**	**400127-141**	**400127-142**	**400127-144**	**400127-148**
356 (1/4)	CM25-5W/6,9W F	**400727-181** (❖)	**400727-185** (❖)	**400727-118** (115V/50)	**400727-117** (130V/50)	**-**	**400727-181**	**400727-185**	**400727-118**	**400727-117**
190	C25A - 3W	**43004469**	**43004473**	**43004471**	**43004472**	**-**	**43004469**	**43004473**	**43004471**	**43004472**
	C25 - 3 W (**M12**)	-	**-**	**-**	**-**	**-**	**-**	**43005525**	**-**	**-**
192	C30A	**43005604** (❖)	**43005611**	**43005617** (115V/50-120V/60)	**43005627**	**-**	**-**	**43005642**	**-**	**-**
	C30 (M12)	-	**-**	**-**	**-**	**-**	**-**	**43005664**	**-**	**-**

(1) For high reliability in humid exterior environments

(❖) Bifrequency 50/60 Hz.

CM22-4/6,9W COIL with connector Example: series 551, 356	**C22 COIL with M12 connection** Example: series 189	**CM25-5/6,9W COIL with connector** Example: series 238, 356 1/4	**C25 COIL with M12 connection** Example: series 190	**C30A COIL with connector** Example: series 192	**C30 COIL with M12 connector** Example: series 192
					

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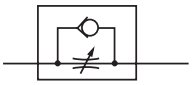
PANEL MOUNTED "IN LINE" FLOW REGULATORS

FLUID :
Air or neutral gas, filtered, lubricated or not

OPERATING PRESSURE : 1 to 10 bar

TEMPERATURE : -10°C to +60°C

CONSTRUCTION :
Body in aluminium
Seals in NBR (nitrile)



Connection Ø	CODES
Ø M5	**34602010**
G 1/8	**34602152**
G 1/4	**34602153**
G 3/8	**34602154**
G 1/2	**34602155**
G 3/4	**34600156**



BANJO FLOW REGULATOR, ADAPTABLE ON CYLINDER

FLUID :
Air or neutral gas, filtered, lubricated or not

OPERATING PRESSURE : 1 to 10 bar

TEMPERATURE : 0°C to + 70°C

Banjo connection for **direct** fitting to cylinder port for simple, compact installation.

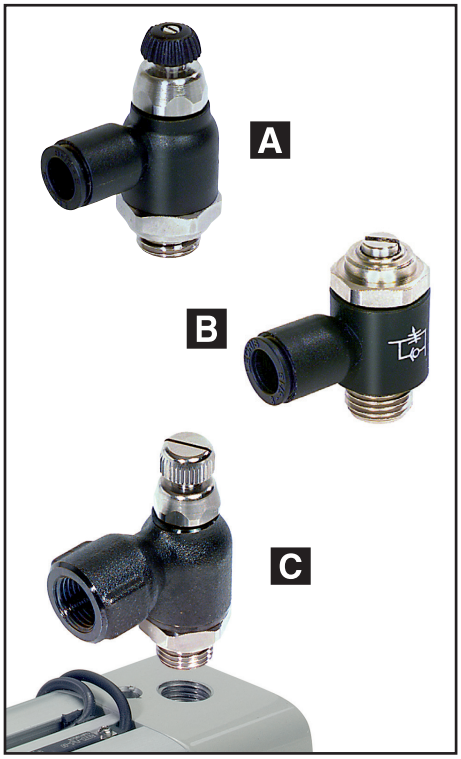
Version (B) with a recessed adjustment screw is an even more compact design. It offers the additional advantage of preventing inadvertent loss of flow adjustment. Can be locked with a spot of varnish.

CONSTRUCTION :
Body in polymer (A - B)
or brass treated (version C)
Screw, lock-nut, subbase in brass
Seals in NBR (nitrile)



Installation Ø	Ø connection by **instant fittings**	CODES
A	**Plastic** body, adjustable by button/screw	
Ø M5	Ø 4 mm ext.	**34602188**
G 1/8	Ø 4 mm ext.	**34602221**
G 1/8	Ø 6 mm ext.	**34602222**
G 1/4	Ø 6 mm ext.	**34602223**
G 1/4	Ø 8 mm ext.	**34602224**
G 3/8	Ø 10 mm ext.	**34602021**
G 1/2	Ø 12 mm ext.	**34602022**
B	**Plastic** body, adjustable by screw recessed	
Ø M5	Ø 4 mm ext.	**34602016**
G 1/8	Ø 4 mm ext.	**34602017**
G 1/8	Ø 6 mm ext.	**34602018**
G 1/4	Ø 6 mm ext.	**34602019**
G 1/4	Ø 8 mm ext.	**34602020**

Installation Ø	Ø connection **tapped**	CODES
C	**Metal** body, tapped output, adjustable by button/screw	
G 1/8	G 1/8	**34602181**
G 1/4	G 1/4	**34602182**
G 3/8	G 3/8	**34602183**



SPEED CONTROL SILENCER

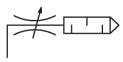
FLUID :
Air or neutral gas, filtered, lubricated or not

OPERATING PRESSURE : 0,5 - 10 bar

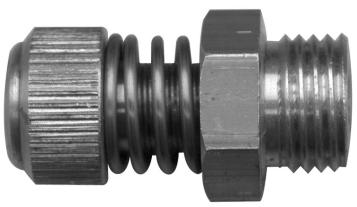
TEMPERATURE : -20°C to +70°C

CONSTRUCTION :

Body	Brass
Spring	Stainless steel
Seals	NBR (nitrile)



Connection Ø	CODES
G 1/8	**SE10RM**
G 1/4	**SE25RM**



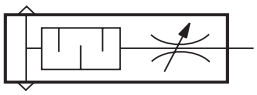
EXHAUST REGULATOR + SILENCER

FLUID :
Air or neutral gas, filtered, lubricated or not

OPERATING PRESSURE : 0 to 10 bar

TEMPERATURE : -10°C to +80°C

CONSTRUCTION :
Body in polymer
Silencer part in porous plastic



Connection Ø	CODES
G 1/8	**34600413**
G 1/4	**34600414**
G 3/8	**34600415**
G 1/2	**34600416**



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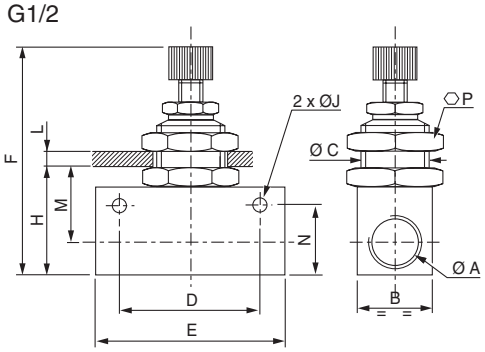
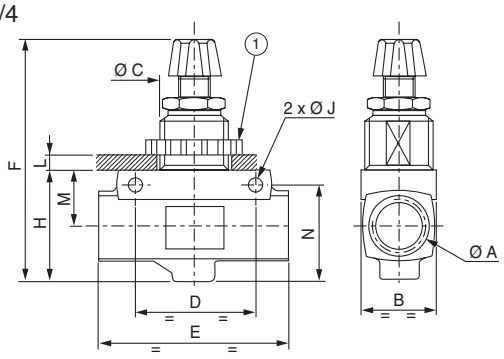
DIMENSIONS AND WEIGHTS

PANEL-MOUNTED "IN-LINE" FLOW REGULATORS

■ M5 to G1/2



■ G3/4

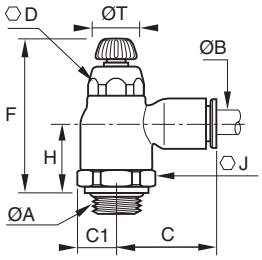


CODES	Ø A	B	Ø C	D	E	F min.	F max.	H	Ø J	L max.	M	N	⬡ P	Weight (kg)
34602010	M5	12	M9 x 0,75	18	25	32	37	17	3,2	3	10	12	11	0,019
34602152	G 1/8	16	M12 x 0,75	24	34	49	56	24	4,5	6	16	16	15	0,060
34602153	G 1/4	25	M18 x 1,5	35	50	67	75	35	6,5	7,5	23	25	22	0,140
34602154	G 3/8	25	M18 x 1,5	40	58	67	75	35	6,5	7,5	23	25	22	0,245
34602155	G 1/2	30	M22 x 1,5	50	65	80	92	46	6,5	10	29	33	26	0,360
34600156	G 3/4	39	M37 x 2	70	110	119	132	58	6,5	15,5	28	51	-	0,550

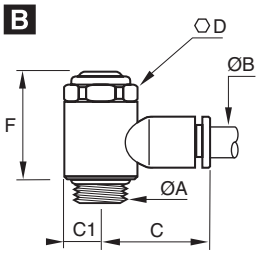
(1) Knurled nut

BANJO FLOW REGULATOR, ADAPTABLE ON CYLINDER

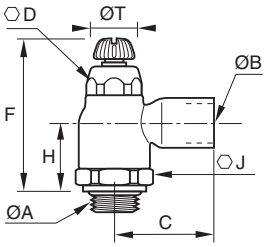
A



B

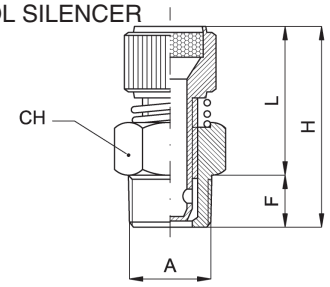


C



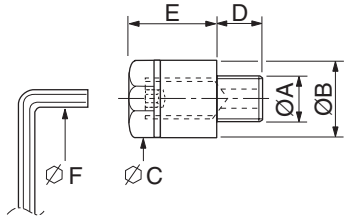
CODES	ØA	ØB	C	C1	D	F min.	F max.	H	J	ØT	Weight
A **Plastic** body, instant fittings output, adjustable by button/screw											
34602188	M 5	4	17	4,5	6	23,5	26	-	-	-	0,008
34602221	G 1/8	4	22	9	10	38	44	16	16	10	0,021
34602222	G 1/8	6	22	9	10	38	44	16	16	10	0,021
34602223	G 1/4	6	22	9	10	36,5	42,5	15	16	10	0,021
34602224	G 1/4	8	28	10,5	14	41,5	48	18,5	19	12	0,037
34602021	G 3/8	10	32	12,5	17	45,5	54	20	23	17	0,059
34602022	G 1/2	12	35	13	17	45,5	54	20	24	17	0,065
B **Plastic** body, instant fittings output, adjustable by screw recessed											
34602016	M 5	4	19	5	8	17,5	19	-	-	-	0,007
34602017	G 1/8	4	19	7	13	25	26	-	-	-	0,017
34602018	G 1/8	6	21	7	13	25	26	-	-	-	0,019
34602019	G 1/4	6	22	9,5	17	26,5	28	-	-	-	0,034
34602020	G 1/4	8	27	9,5	17	26,5	28	-	-	-	0,035
C **Metal** body, tapped output, adjustable by button/screw											
34602181	G 1/8	G1/8	22,5	-	10	47	52,5	23	19	-	0,076
34602182	G 1/4	G1/4	32	-	14	50,5	55,5	25	19	-	0,107
34602183	G 3/8	G3/8	34,5	-	17	56	62	27	25	-	0,212

SPEED CONTROL SILENCER



CODES	F	L		H		CH	A
		min.	max.	min.	max.		
SE10RM	6	20	22	26	28	13	G1/8
SE25RM	8	22	24	30	32	15	G1/4

EXHAUST REGULATOR + SILENCER



CODES	ØA	ØB	⬡ C	D	E	⬡ F	Weight (kg)
34600413	G1/8	15	13	6	14,5	2,5	0,005
34600414	G1/4	18	15	7	22	4	0,010
34600415	G3/8	24	20	8	30	6	0,030
34600416	G1/2	30	25	10	40	8	0,050

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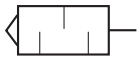
SILENCER (1, 2, 4), EXHAUST PROTECTOR (3)

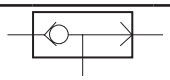


		catalogue number				
		(1)	(2)	(3)	(4)	(5)
operating pressure		0 to 10 bar		0 to 12 bar	0 to 10 bar	0 to 14 bar
ambient temperature		-10°C to +80°C				-20°C to +110°C
construc-tion	body	porous plastic	porous bronze	bronze	stainless steel	zinc-plated steel, bichromate
	connection piece	plastic	brass	brass	Nickel plated brass	
	diffuser	-	-	-	-	brass
pipe size	Ø M5	**34600405**	**34600207**	**34600491**	**34600484**	**-**
	G 1/8	**34600406**	**34600001**	**34600492**	**34600418**	**M1MB**
	G 1/4	**34600407**	**34600002**	**34600493**	**34600419**	**M2MB**
	G 3/8	**34600408**	**34600003**	**34600494**	**34600478**	**M3MB**
	G 1/2	**34600409**	**34600004**	**34600495**	**34600479**	**M4MB**
	G 3/4	**34600410**	**34600005**	**34600496**	**-**	**M5MB**
	G 1	**34600411**	**34600006**	**34600497**	**-**	**M6MB**



SHUTTLE VALVE

Fluid Air or filtered neutral gas, lubricated or not
Operating pressure 1 to 10 bar
Ambient temperature -10°C to +60°C
CONSTRUCTION
Body Black anodised aluminium
Internal parts Steel + NBR (nitrile)



pipe size	Ø orifice (mm)	catalogue number
G 1/8	3,2	**34600127**
G 1/4	6	**34600119**

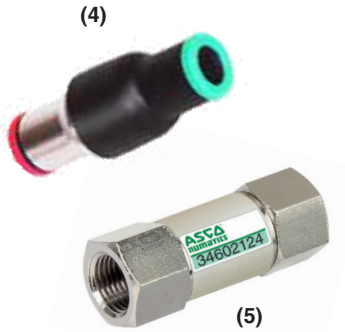


NON-RETURN VALVE

Fluid Air or filtered neutral gas, lubricated or not
Operating pressure
plastic body 1 to 10 bar
metal body 0,5 to 10 bar
Ambient temperature -10°C to +60°C
CONSTRUCTION
Body
instant fittings version Technical polymer
tapped version Brass nickeled
Internal parts Light alloy and brass
Seals NBR (nitrile)

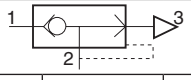


pipe size	flow at 6 bar (l/min)	catalogue number
(4) plastic body (instant fittings)		
Ø 4 mm ext.	330	**34602445**
Ø 6 mm ext.	665	**34602446**
Ø 8 mm ext.	1630	**34602447**
(5) metal body (tapped)		
Ø M5	190	**34602412**
G 1/8	920	**34602124**
G 1/4	1650	**34602125**
G 3/8	2400	**34602444**
G 1/2	3500	**34602126**



QUICK EXHAUST VALVE

Fluid Air or filtered neutral gas, lubricated or not
Operating pressure 0,5 to 10 bar
Ambient temperature -10°C to +60°C
CONSTRUCTION
Body Light alloy
Membran NBR (nitrile)

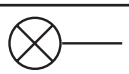


pipe size	Ø orifice (mm)	catalogue number
G 1/4	12	**34600136**
G 3/8	12	**34600137**
G 1/2	20	**34600138**
G 3/4	20	**34600139**



PNEUMATIC INDICATOR

Fluid Air or filtered neutral gas, lubricated or not
Operating pressure 2 to 8 bar
Ambient temperature +5°C to +70°C
Angle of vision 180°
CONSTRUCTION
Lens PC (polycarbonate)
Body and collar POM (polyacetal)
Nut Brass



color	catalogue number
red	**34600130**
green	**34600131**
yellow	**34600132**



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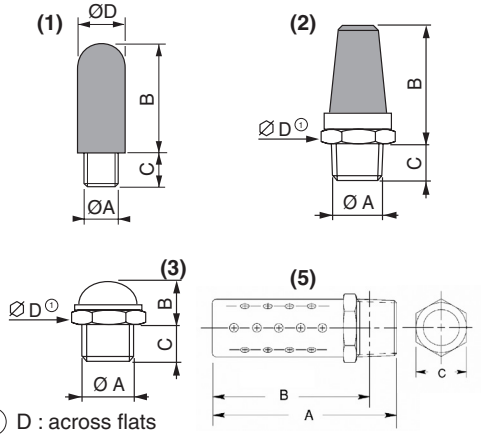
DIMENSIONS (mm), WEIGHT (kg)

SILENCER, EXHAUST PROTECTOR



① D : across flats

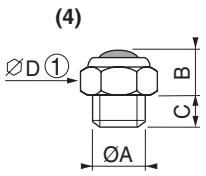
(1)					
cat. number	ØA	B	C	ØD	weight
34600405	M5	16	5	7	0,0005
34600406	G1/8	27	6	13	0,002
34600407	G1/4	34	7	15	0,004
34600408	G3/8	55	11	18	0,006
34600409	G1/2	62	12	23	0,010
34600410	G3/4	113	16	38	0,040
34600411	G1	141	20	48	0,065

(2)					
cat. number	ØA	B	C	D	weight
34600207	M5	18	4	8	0,004
34600001	G1/8*	22,4	5,6	13	0,010
34600002	G1/4*	41,6	8,4	16	0,030
34600003	G3/8*	49,2	8,8	24	0,030
34600004	G1/2*	54,6	11,4	27	0,070
34600005	G3/4*	82,3	12,7	36	0,300
34600006	G1*	93,5	14,5	50	0,400

* taper

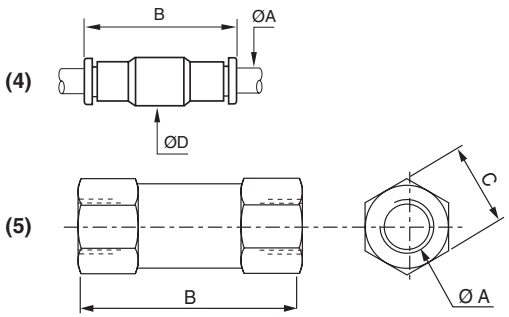
(3)					
cat. number	ØA	B	C	D	weight
34600491	M5	8	3,5	8	0,002
34600492	G1/8	11	6	13	0,007
34600493	G1/4	12	8	16	0,011
34600494	G3/8	14	8	19	0,016
34600495	G1/2	16	10	24	0,027
34600496	G3/4	16	10	30	0,044
34600497	G1	18	11,5	36	0,065

(5)					
code	Ø	A	B	C	weight
M1MB	G1/8	35	31	11	9
M2MB	G1/4	44	39	14	23
M3MB	G3/8	57	51	18	36
M4MB	G1/2	69	61	22	68
M5MB	G3/4	80	71	27	36
M6MB	G1	99	88	33	227



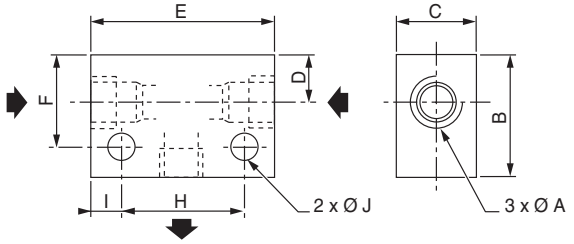
(4)					
code	Ø A	B	C	D	weight
34600484	M5	4,5	3,2	8	1
34600418	G 1/8	10	6	13	6
34600419	G 1/4	11	8	16	10
34600478	G 3/8	11	9	19	14
34600479	G 1/2	14	9	24	23

NON-RETURN VALVE



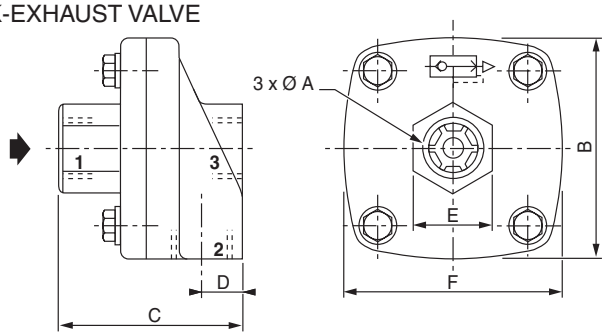
cat. number	ØA	B	C	ØD	weight
(4) plastic body (instant fittings)					
34602445	Ø 4 mm ext.	38	-	16	0,008
34602446	Ø 6 mm ext.	41	-	16	0,013
34602447	Ø 8 mm ext.	51,5	-	19	0,018
(5) metal body (tapped)					
34602412	Ø M5	25	8	-	0,008
34602124	G 1/8	36,5	13	-	0,025
34602125	G 1/4	41	-16	-	0,041
34602444	G 3/8	51	20	-	0,074
34602126	G 1/2	62	24	-	0,120

SHUTTLE VALVE



cat. number	ØA	B	C	D	E	F	H	I	J	weight
34600127	G1/8	26	16	8,5	51	20,5	32	9,5	4,5	0,150
34600119	G1/4	30	20	10,5	52	21,5	35	8,5	5,5	0,210

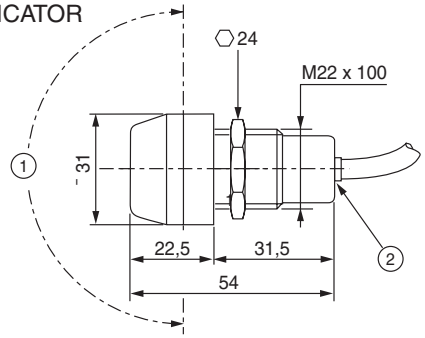
QUICK-EXHAUST VALVE



cat. number	ØA	B	C	D	E	F	weight
34600136	G1/4	64	52	13	25	64	0,185
34600137	G3/8	64	52	13	25	64	0,185
34600138	G1/2	85	72	19	38	97	0,420
34600139	G3/4	85	72	19	38	97	0,390

PNEUMATIC INDICATOR

weight : 0,035 kg



① Angle of vision 180°

② Instant fittings for flexible tube Ø 4 O.D

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HIGH FLOW AIR MUFFLERS

G 1/2 to G 2

Series **SEHB**





PRESENTATION

• Provides up to 85% perceived noise reduction and 94% Flow Factor

UTILISATION

The High Flow Air Muffler satisfies the need to muffle explosive air exhaust noise discharged with optimized CV flow factor, thus substantially improving equipment performance.

Constructed with a unique expansion chamber, completely free of obstruction, exhaust air flows softly to atmosphere free of noise, oil fog, and contaminates.

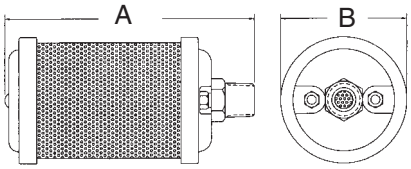
Units are constructed entirely with corrosion resistant material for long life and maintenance-free performance.

SPECIFICATIONS

FLUID	Compressed air or neutral gas
PORTS	G 1/2 to G 2
MAX. PRESSURE	10 bar
TEMPERATURE	-40°C (with dry air only - otherwise danger of icing) to max. +145 °C
MAX. FLOW	7240 to 90600 l/min (ANR)
NOISE REDUCTION	> 85%

SEHB High Flow Air Muffler max 10 bar

Thread G	Chambers	A mm	B mm	Weight kg	Flow at 6,2 bar l/min (ANR)	code
1/2	1	152	80	0,34	7240	**SE50HB**
3/4”	1	183	86	0,45	15400	**SE75HB**
1”	1	222	98	0,59	22600	**SE100HB**
1 1/4”	1	222	98	0,61	38500	**SE125HB**
1 1/2”	1	344	133	1,45	58900	**SE150HB**
2”	1	479	133	1,86	90600	**SE200HB**



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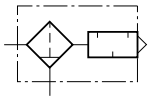
EXHAUST SILENCER FILTER

G 1/2 to G 1 1/4



Series **346**



USE

Designed to reduce undesirable effects caused by discharges from compressed air installations:

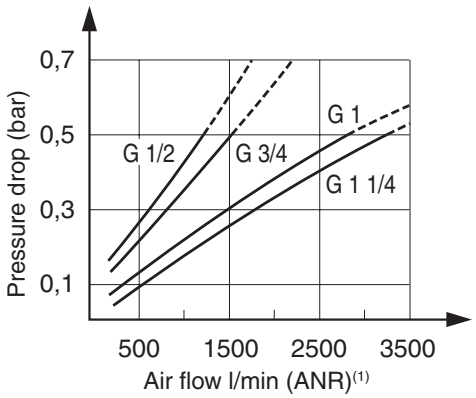
- Reduces noise level of compressed air release
- Reduces pollution by eliminating solid particles and oil aerosols

SPECIFICATION

FLUID	: Compressed air
CONNECTION	: G 1/2 to G 1 1/4
MAX. PRESSURE	: 16 bar
OPERATING TEMPERATURE	: -5 °C to +50 °C
MAX. DIFFERENTIAL PRESSURE	: 0,5 bar
FILTRATION	: 99,99 % of particles > 0,3 µm
MAX. FLOWRATE	: 1300 to 3300 l/min (ANR)(1)
NOISE REDUCTION	: > 40 dB (A)(2)
PRESSURE DROP	: See characteristic curve

RECOMMENDATION

- Assemble in vertical position (slope: 15° max.).
- Load loss due to clogging of cartridge must not exceed 0,5 bar, in which case replace cartridge.
- Insert cartridge manually to avoid any damage to it during replacement.



CONSTRUCTION

Condensates are automatically drained once they exceed a given level.
The drain may however be activated manually by turning the knurled switch (1/4 turn).

- Aluminium housing and polypropylene (PP) bowl.
- Filter element: fibrous texture bonded by a plastic resin.
- Sealed by a rubber gasket.

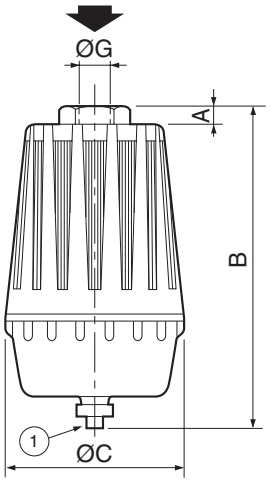
CHOICE OF EQUIPMENT

pipe size	max. flowrate l/min (ANR)(1)	catalogue number
G 1/2	1300	**34600213**
G 3/4	1600	**34600214**
G 1	2900	**34600215**
G 1 1/4	3300	**34600216**

(1) Flow at Normal Atmospheric reference Pressure to ISO R554-558 standards

(2) Tested with an input pressure of 5 bar, an air flow of 2000 l/min (ANR)(1) with a distance of 1 meter

DIMENSIONS (mm), WEIGHT (kg)



Ø G	A	B	C	(kg)
G 1/2	12	180	90	0,600
G 3/4	12	180	90	0,560
G 1	15	250	110	1,070
G 1 1/4	30	270	110	1,120

(1) Drain

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EXHAUST COALESCING FILTER AND SILENCER

G1/2 to G1 1/4

Series
H30 - H40

PRESENTATION

- *99% oil removal efficiencies*
- *25 dBA noise reduction*
- *High exhaust flow rates*
- *low differential back pressures*
- *top performer in automated paint systems*
- *1 µm filtration*
- *Manual or continuous drain option*



UTILISATION

The Numatics Reclassifier is an exhaust coalescing filter/silencer. Its design removes oil mist and reduces noise from exhaust ports on pneumatic air valves, cylinders, and air control systems at extremely high flow rates.
The Numatics Reclassifier can be mounted to exhaust ports on any valve or manifold using a common exhaust base or by combining exhaust ports. Mounting it vertically fully utilizes the oil-catching sump surrounding the filter element and provides easy draining.

SPECIFICATIONS

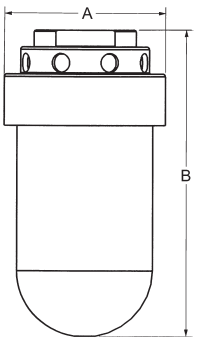
FLUID	: Compressed air or neutral gas
PORTS	: G 1/2 à G1 1/4
MAX. PRESSURE	: 7 bar
MAX. TEMPERATURE	: +50 °C
FILTRATION	: 99 % oil removal
MAX. FLOW	: 6550 to 10900 l/min (ANR)
NOISE REDUCTION	: > 25 dB (A)
PRESSURE DROP	: See characteristic curve

CHOICE OF EQUIPEMENT

pipe size	**max. flowrate** l/min (ANR)	catalogue number
G 1/2	6550	**H30G04**
G 3/4		**H30G06**
G 1	10900	**H40G08**
G 1 1/4		**H40G10**

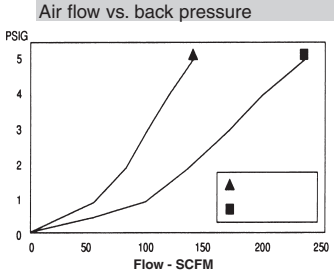
DIMENSIONS (mm)

Ø G	A	B
G1/2	64,0	178,0
G3/4	64,0	178,0
G1	95,0	203,0
G1 1/4	95,0	203,0



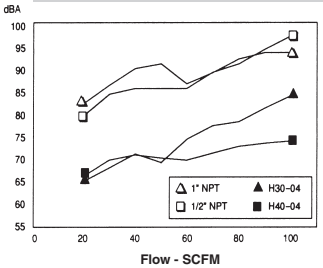
AIR FLOW VERSUS BACK PRESSURE AND NOISE REDUCTION

Air flow vs. back pressure



Flow rate based on 100 PSIG

Air flow vs. sound level



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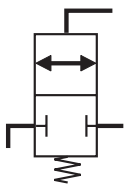
ORIENTABLE CYLINDER BLOCKING FITTING

port size G1/8 to G1/2

air-operated

Series



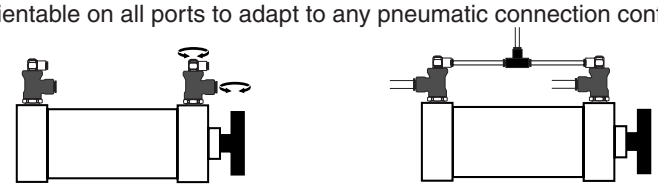


FEATURES

- Air-operated, monostable, normally-closed 2/2 valve
- Blocking fittings can be used to interrupt the circulation of compressed air
- **When installed in pairs**, they ensure that the cylinder stops as soon as pilot pressure is lost
- They can be used to lock the load in the event of loss of the pressure supply or to set a cylinder to intermediate stable positions

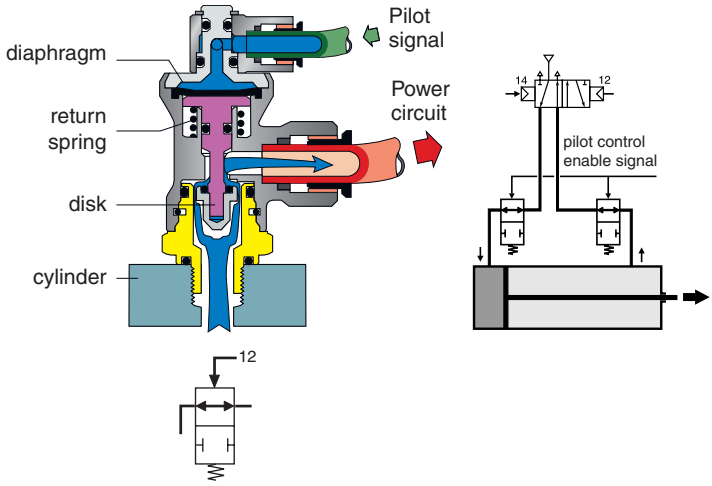
INSTALLATION

- Directly fitted to cylinder ports for compact installation
- Fully orientable on all ports to adapt to any pneumatic connection configuration

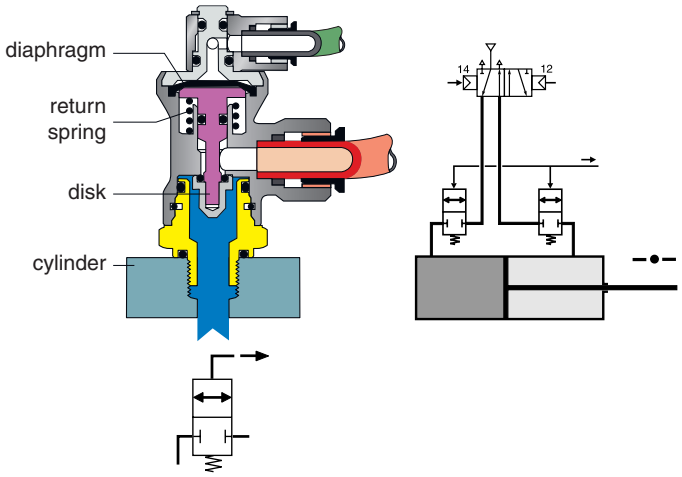


OPERATING PRINCIPLE

Cylinder in movement (pilot pressure applied)



Cylinder locked (no pilot pressure)

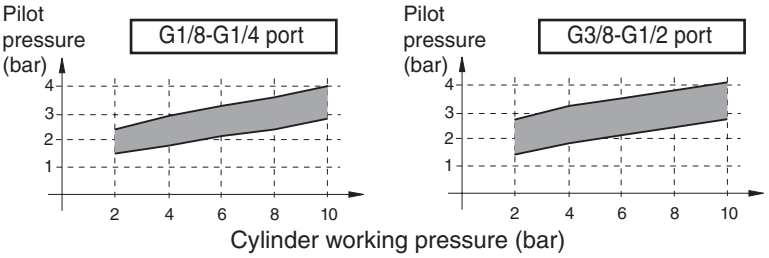


CONSTRUCTION

MEDIUM	: Lubricated or unlubricated filtered neutral gas or air
OPERATING PRESSURE	: 10 bar max.
PILOT PRESSURE	: 1.5 to 4 bar
TEMPERATURE	: -20°C to +70°C
FLOW (Qv at 6 bar)	: see table below
LEAK RATE	: <0.2 l/h
BODY	: treated brass
DIAPHRAGM AND SEALS	: Nitrile (NBR)

Piloting on/off thresholds

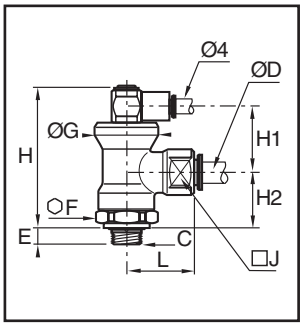
depending on cylinder working pressure



SPECIFICATIONS - DIMENSIONS

Port size ØC	Coupler size ØD	Flow at 6 bar l/min (ANR)	catalogue number	Dimensions E	F ⬡	G Ø	H	H1	H2	J □	L	Weight (kg)
G1/8	6	650	**34602448**	5,5	21	24	53	24,5	21	17	28	0,127
G1/4	8	650	**34602450**	6,5	21	24	53	24,5	21	17	28	0,124
G3/8	8	650	**34602451**	7,5	21	24	53	24,5	21	17	28	0,128
G3/8	10	1600	**34602452**	7,5	24	28	56	25	25	27	35	0,214
G1/2	12	1600	**34602453**	9	24	28	56	25	25	27	37,5	0,221

Port connection pushing fittings and power at pilot ports



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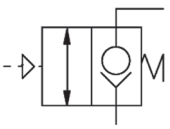
PILOT OPERATED CHECK VALVE

G 1/8 to G 1/2



Series
NCPPG
NCPGG

GENERAL INFORMATION

- *Pilot Operated Check Valves for Cylinder*
- *Mounting for pneumatic use*

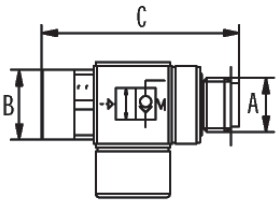


SPECIFICATION

INTERNAL TURNED PARTS	: Brass
EXTERNAL TURNED PARTS	: Zink plated brass
PLATING	: Galvanic zink
SPRINGS	: Stainless steel
STAMPED PARTS	: Stainless steel
PLASTIC PARTS	: PA
SEALING ELEMENTS	: NBR
SUITABLE FLUIDS	: Compressed air, lubricated or not lubricated
OPERATING PRESSURE	: 1 to 10 bar
TEMPERATURE RANGE	: -10 to +70 °C

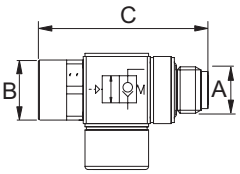
NCPPG Pilot Operated Check Valve, Push-In Fitting

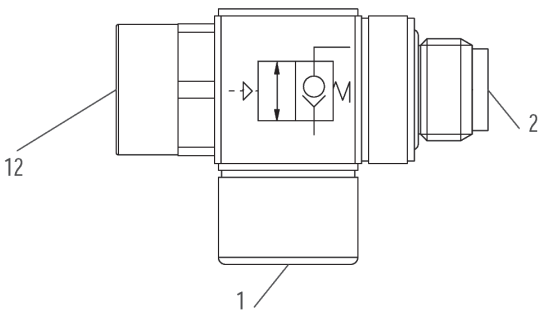
catalogue number	Thread A G	B SW	C mm	Max. tightening torque Nm	Pilot port thread	E Ø mm
NCPPG-004-000	1/8"	13	41	10	M5	4
NCPPG-006-000	1/8"	13	41	10	M5	6
NCPPG-008-000	1/8"	13	41	10	M5	8
NCPPG-006-001	1/4"	17	48	12	M5	6
NCPPG-008-001	1/4"	17	48	12	M5	8
NCPPG-010-001	1/4"	17	48	12	M5	10
NCPPG-008-002	3/8"	22	55	20	M5	8
NCPPG-010-002	3/8"	22	55	20	M5	10



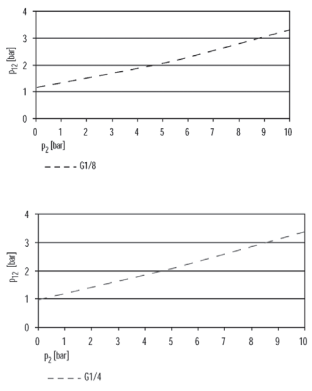
NCPGG Pilot Operated Check Valve, Thread (fem.)

catalogue number	Thread A G	B SW	C mm	Max. tightening torque Nm	Pilot port thread	D
NCPGG-000-000	1/8"	13	41	10	M5	1/8"
NCPGG-001-001	1/4"	17	48	12	M5	1/4"
NCPGG-002-002	3/8"	22	55	20	M5	3/8"
NCPGG-003-003	1/2"	27	65.5	30	M5	1/2"



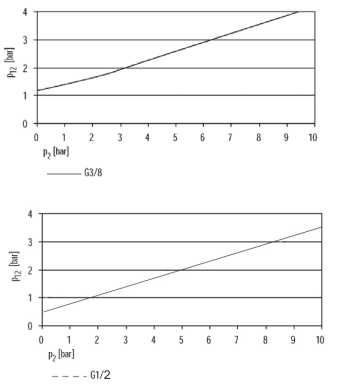


Signal pressure characteristics min. signal pressure p_{12} to open the valve p_1 = 7 bar



Flow from 2 to 1 (SLPM)

p1 = 5 bar	p2 = 6 bar	p12 = 6 bar	
G1/8	G1/4	G3/8	G1/2
289	676	1156	1910



Flow from 1 to 2 (SLPM)

p1 = 5 bar	p2 = 6 bar	p12 = 0 bar	
G1/8	G1/4	G3/8	G1/2
128	617	1168	1888

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QUICK EXHAUST VALVES
G 1/8 to G 1

Series
SEV

FEATURES
- *The Quick Exhaust Valves SEV C increases the working speed of pneumatics cylinders. It must be mounted directly on the port of the cylinder to achieve the maximum possible speed.*



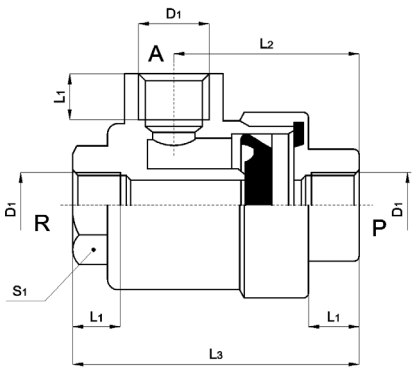
SPECIFICATION
FLUID	: Filtered air with or without lubrication
PRESSURE RANGE	: 1 - 10 bar
TEMPERATURE RANGE	: -20 °C to +70°C
MOUNTING	: Preferably directly on the port of the cylinder
MATERIALS	: Body: Nickel plated brass
SEALS	: Diaphragm: Polyurethane, optionally VITON
WASHER	: NBR

thread D1 (G)	diaphragm material *	L1 (mm)	L2 (mm)	L3 (mm)	S1 (mm)	catalogue number
1/8	PU	7,5	27	42	15	**SEV10C**
1/4	PU	11	35	54	19	**SEV25C**
3/8	PU	11	35	54	19	**SEV37C**
1/2	PU	14	45	72	26	**SEV50C**
3/4	PU	16,3	53	87	32	**SEV75C**
1	PU	18	70	108	46	**SEV100C**

* Viton® on request

(Viton® is a registered trademark of Dupont Performance Elastomers)

DIMENSIONS (mm)



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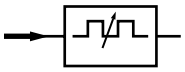
ELECTRONIC TIMER

adjustable pulse generator
suitable for solenoid valves

Series
881



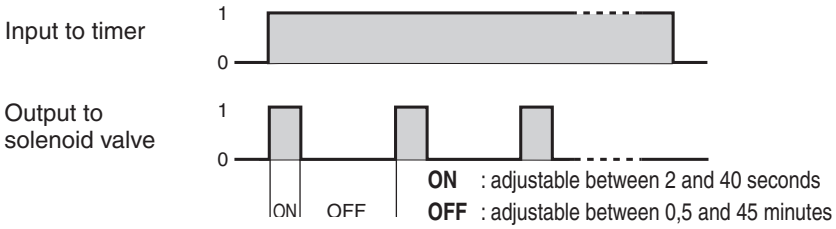
FEATURES

- *This electronic timer, which generates adjustable pulses, is particularly suited for automatic control of draining of an air dryer or compressor. Indeed, when energised, it can initiate operation of the solenoid valve for the time necessary for draining condensates at regular adjustable intervals*
- *Other applications include irrigation, air blasting etc.*
- *Fits directly to any solenoid valve with standardised ISO 4400 / DIN connection, between coil and power connector*



GENERAL / OPERATION

Converts a continuous power input into a succession of on-periods (ON), adjustable between 2 to 40 seconds and off-periods (OFF), adjustable between 0,5 to 45 minutes.



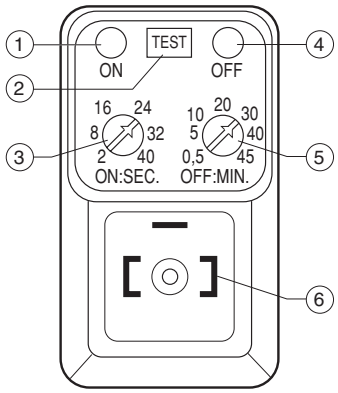
CONSTRUCTION

Housing (1)	PA (polyamide)
Electrical connection	2 pins + earth to ISO 4400 for use with a connector to ISO 4400/EN 175301-803, form A (connector not supplied)
Agreement	CSA

ELECTRICAL CHARACTERISTICS

Standard voltages	24 V to 240 V DC or AC (50/60 Hz)
Max. inrush current	10 A during 10 ms
Consumption	4 mA max.
Repeatability	± 0,1%
Scale accuracy	± 10%

electrical connection	max. power (I max. = 1A)	ambient temperature range	protection degree
ISO 4400	**24 VA** (with 24 V) to **240 VA** (with 240 V)	-10°C to +50°C	IP65



1. "Solenoid valve de-energised" light
2. Test button
3. Adjust on-period (ON)
4. "Solenoid valve energised" light
5. Adjust off-period (OFF)
6. ISO 4400 pin input connection

SPECIFICATIONS

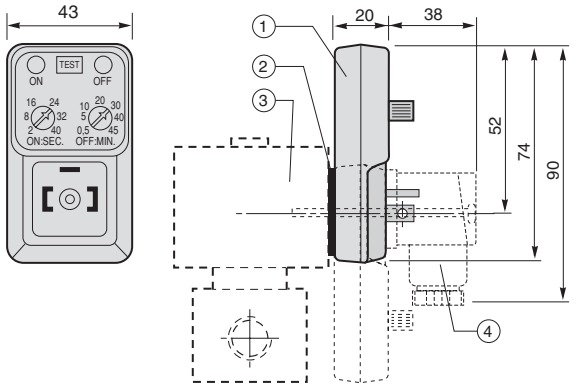
description	catalogue number
Electronic timer with auxiliary manual control for solenoid valve with ISO 4400 pin coil	**88122627**

(1) The pin arrangement of the timer enables rotation by increments of 180°C in relation to the solenoid valve to which it is connected.

INSTALLATION

- If the width of the solenoid valve permits, the timer can be rotated about the connection axis by 180° increments
- Take care to fit properly the coil/timer seal and the connector seal
- Observe maximum power rating
- ISO 4400/EN 175301-803, form A, connection

DIMENSIONS (mm), WEIGHT (kg)



1. Timer rotatable by 180° increments
2. Seal
3. Solenoid valve with ISO 4400 standardised pin coil
4. Connector rotatable by 90° increments (not supplied)

Weight: 0,054 (without connector)

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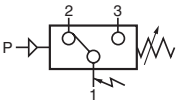
ADJUSTABLE PRESSURE SWITCH

with or without protection and status indicators
G 1/4 or subbase mounted body



Series **349**

GENERAL

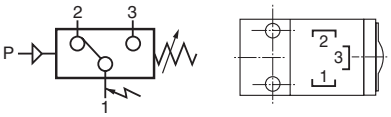
		WITHOUT	WITH
PROTECTION AND STATUS INDICATORS			
FLUID	:	Air or neutral gas, filtered, lubricated or dry	
PRESSURE SETTING	:	0,5 to 10 bar (0,2 - 6 bar on request)	
HYSTERESIS	:	0,4 bar at the beginning of adjustment range 1 bar at the end of adjustment range	
MAX. PRESSURE (PMA)	:	10 bar or 16 bar	
OPERATING TEMPERATURE	:	-10°C; +60°C	: 0°C, +60°C
MAX. VOLTAGE	:	250 V - AC/DC	: 24 V DC
CURRENT BREAKING CAPACITY	:	5 A - 250 V resistive	: 2 A - 24 V DC resistive
PROTECTION DEGREE	:	IP65	
MOUNTING POSITIONS	:	all positions	
MAX. SPEED	:	60 cycles per minute	

CONSTRUCTION

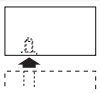
Bodies: PC (polycarbonate) / aluminium for 16 bar version
Nitrile (NBR) seals
Commutator (reversing switch) • at rest : contact 1 - 2 made
• at work : contact 1 - 3 made
Mechanical service life: 5.10^6 contacts
Pressure set by set screw and lock-nut



ELECTRICAL CONNECTION



SPECIFICATIONS

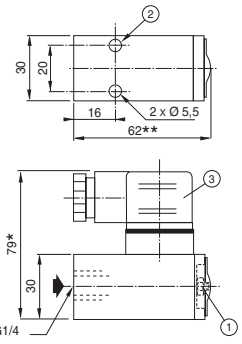
Type	Designation	Pressure setting (bar)	catalogue number Without protection	catalogue number With protection
	Adjustable pressure switch with side pneumatic connection, **tapped** G1/4	0,2 - 6 0,5 - 10 0,5 - 16	**34900015** **34900018** **34900021**	- **34900019** -
	Adjustable pressure switch with **subbase mounted** pneumatic connection (version adaptable on FRL)	0,5 - 10	**34900030**	**34900031**

DIMENSIONS AND WEIGHT

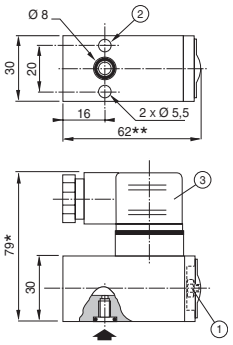
Weight: 110 g

Version **without** protection and status indicators

Tapped

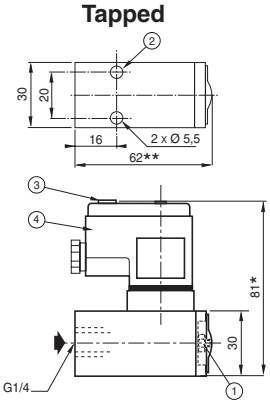


subbase mounted

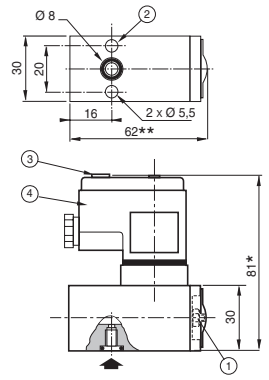


Version **with** protection and status indicators

Tapped

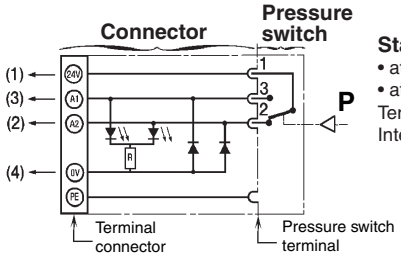


subbase mounted



(1) Pressure set screw (spanner for hexagon nuts: 3 mm)
(2) 2 holes Ø 5,5 for mounting
(3) ISO4400 size 30 connector, 4 terminals, rotatable by 90°
❊ +15 mm for connector clearance
❊❊ +2 mm for 0,5 - 16 bar version

ELECTRICAL DIAGRAM



Status indicated by two diodes :
• at rest : contact 1-2 made: orange diode lights
• at work : contact 1-3 made: red diode lights
Terminal connection for 1,5 mm² wire
Integrated interference blanking

(1) Pressure set screw (spanner for hexagon nuts: 3 mm)
(2) 2 holes Ø 5,5 for mounting
(3) Identification label holder
(4) ISO 4400 size 30 connector, 4 terminals (**not rotatable**)
❊ +15 mm for connector clearance
❊❊ +2 mm for 0,5 - 16 bar version

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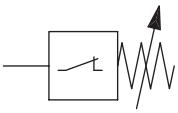
DIAPHRAGM PRESSURE SWITCHES

G1/8 - G1/4 external threaded body



Series **349**

GENERAL

Fluid	Air or neutral gas, filtered, lubricated or dry
Maximum allowable pressure (MAP)	16 bar
Control range	0 - 10 bar
Fluid temperature	-10°C to +60°C
Max. speed	60 cycles per minute
Hysteresis	0,2 bar at the beginning of control range
Mechanical service life	10^6 contacts
Mounting positions	All positions



CONSTRUCTION

Body	Steel
Seals	FPM (fluoroelastomer)
Pressure set	By set screw

ELECTRICAL CHARACTERISTICS

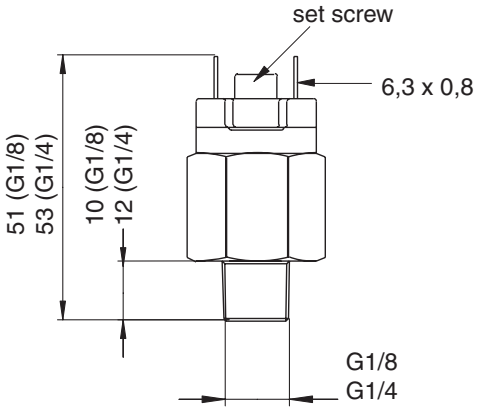
Max. switched voltage	48 V DC
Max. switched current	0,5 A
Electric contact	Plated silver

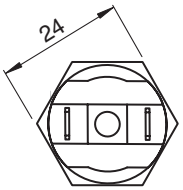
SPECIFICATIONS

designation		control range (bar)	maximum allowable pressure (MAP) (bar)	catalogue number
Diaphragm pressure switch, NC, adjustable, pneumatic connection	G 1/8	1 - 10	16	**34900048**
	G 1/4			**34900049**

DIMENSIONS (mm), WEIGHT (kg)

weight
0,065





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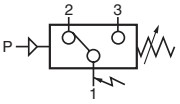
ELECTRONIC PRESSURE SWITCH

Hysteresis and comparator functions - Digital display

G1/8



Series **349**

GENERAL

FLUID	: air or neutral gas, filtered, not lubricated, free of condensate
CONNECTION	: G1/8
PRESSURE RANGE	: 0 to 10 bar
MAX. OVERPRESSURE	: 15 bar
OPERATING TEMPERATURE	: 0°C, +50°C (storage: -20°C, +60°C)
ELECTRICAL CONNECTION	: 4-pin M8 connector
SUPPLY VOLTAGE	: 12 to 24 volts, max. ripple 10%, reverse voltage protection
CONSUMPTION	: < 55mA
VOLTAGE SPIKE	: 350 V Peak, 1µs
ACCURACY	: +/- 200 mbar (2% of full range)
DIGITAL DISPLAY	: 3-digit - 7 segments - display frequency : 5 Hz
UNITS OF MEASURE	: bar - psi - MPa - kgf/cm^2
OUTPUTS	: 2 PNP outputs selectable NO or NC, max. load current 80 mA, 30 V, with overcurrent protection, status indication by LED
2 OUTPUT MODES	: - hysteresis 0 to 100 % of full range - window comparator: 2 limit values adjustable over full range
RESPONSE TIME	: < 2,5 ms - 24 ms - 192 ms - 768 ms
PROTECTION DEGREE	: IP65
VIBRATION RESISTANCE	: 10 to 55 Hz, 1.5 mm, XYZ, 2 hours
SHOCK RESISTANCE	: 980 m/s² (100G), XYZ



CARACTERISTICS

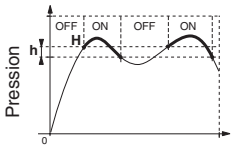
Recording of peak value and bottom value
Lockout feature

CONSTRUCTION

Polycarbonate body (PC)
NBR (nitrile) sealings

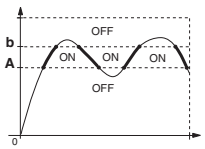
OPERATING

Hysteresis mode



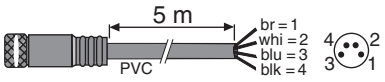
H =Switch point
h = hysteresis

Comparator mode



b = upper threshold
A = lower threshold

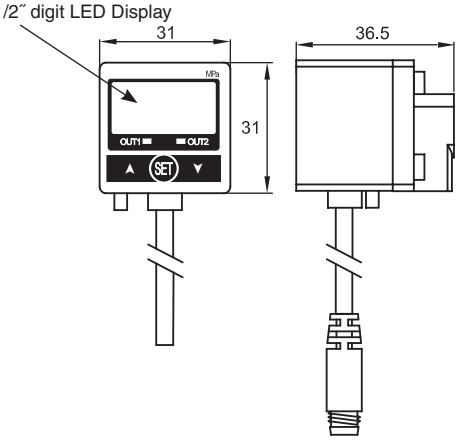
SPECIFICATIONS

description	catalogue number
electronic pressure switch with digital display adjustable from 0 to 10 bar, pneumatic connection **G1/8** (delivered with 2 brackets, 1 plug G1/8)	**34900050**
panel mounting kit for electronic presure switch 	**88100967**
straight female connector Ø M8, 4 wires, IP65, with 5 m PVC lead (other end plain) 	**88157771**

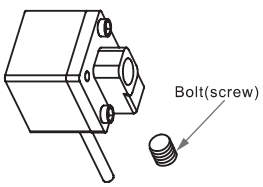
DIMENSIONS AND WEIGHT

Weight: 105 g

3 1/2″ digit LED Display



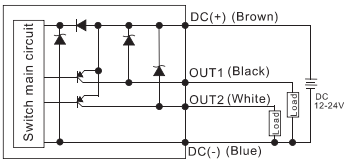
2 inlet pressure ports G1/8



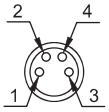
ELECTRICAL DIAGRAM

Pressure switch User connection

PNP output



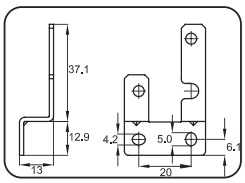
ELECTRICAL CONNECTION



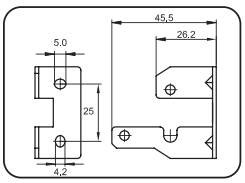
1 = brown (V +)
2 = white (output 2)
3 = blue (V -)
4 = black (output 1)

ACCESSOIRIES

BRACKET MOUNTING

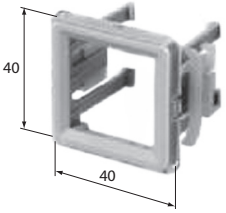


Bracket for vertical mounting

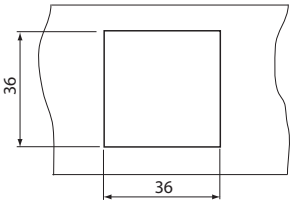


Bracket for horizontal mounting

PANEL MOUNTING KIT



Housing



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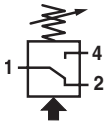
PNEUMATIC/ELECTRIC INTERFACE

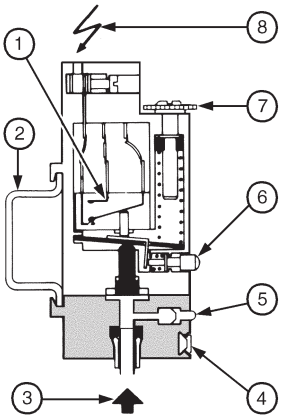
Ø4mm ext.fittings connection



3/2
Series
304

FEATURES

- *This interface will change a pneumatic signal into an electrical signal.*
- *Equipment can be fitted on standard symmetrical rail*



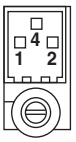
1. Standard microswitch 5A/230 V
2. Symmetrical rail EN 50022
3. Pneumatic signal
4. Marking tag
5. Visual indication of pneumatic input
6. Manual override
7. Adjustment of switching pressure 1 to 8 bar
8. Electrical signal : - common
   - normal closed contact
   - normal open contact

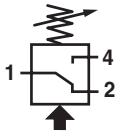


GENERAL

Switching pressure	Adjustable from 1 to 8 bar
Hysteresis	15% at 4 bar
Switching capability	5 A - 230 V (Resistive)
Ambient temperature	-10°C to +50°C
Electrical connections	3 screw terminals (**IP20**)
Maximum wire size	0,75 mm²

CONNECTIONS



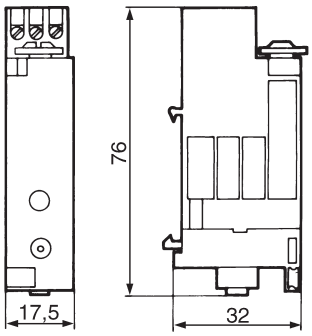


CHOICE OF EQUIPMENT

designation	code
pneumatic, electric interface with manual override	**30400009**
50 blank marking tags	**33400042**

DIMENSIONS (mm), WEIGHT (kg)

weight
0,048



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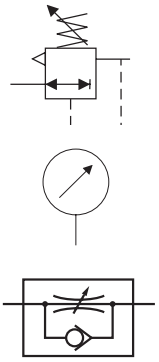
PRESSURE REGULATOR
PRESSURE GAUGE
FLOWRATE REDUCING-VALVE

Series
342-343-346
Type
MICRO 10

PRESSURE REGULATOR
- Board-mounting available (drilling 12,2 mm dia.)
- Control range 0,5 to 8 bar
- Body with two optional ØM5 side-outlets

PRESSURE GAUGE
Back coupling R1/8

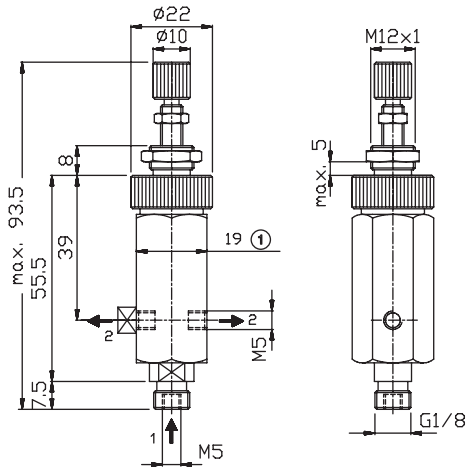
FLOWRATE REDUCING-VALVE
- In line, fitted ØM3
- Flowrate reducing-valve orientable, directly adjustable on cylinder, ØM3





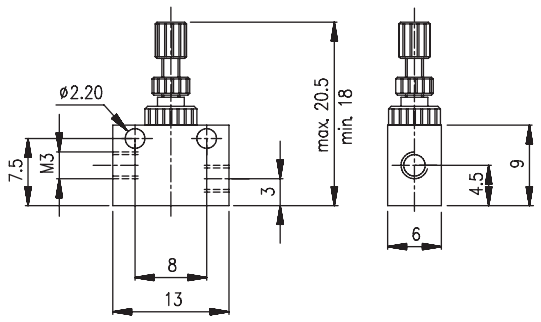
Description		Connection	Control range (bar)	Flow (l/min - ANR)	Allowable temperature	Materials	CODES
Pressure regulator		Input: female M5 or male G 1/8 Output: female 2 x M5	0,5 - 8 (p_{max} =16)	120 (with p_1=8 bar p_2=6 bar)	0°C, + 60°C	Body: Al + Brass Internals parts: Brass + Steel Seal: NBR (nitrile)	**34201802**
Pressure gauge Ø 40		R 1/8	0 - 10	–	-20°C, + 80°C	Body Black polyester	**34300014**
Reducing-valve for pressure gauge		G 1/8-M5	–	–	–	Nickeled brass	**34600372**
Flowrate reducing-valve	in line	M3	0 - 8	30	+ 5°C, + 50°C	Body: Nickeled brass Rod: Nickeled brass	**34600320**

PRESSURE REGULATOR
Ø M5-G1/8

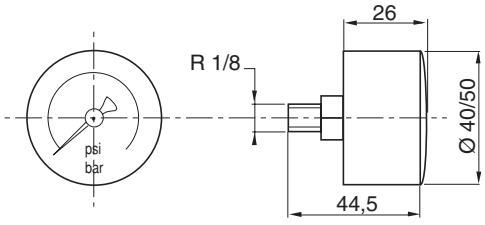


- Delivered with 1 screw-plug, M5 dia.
- Weight: 90 g
- (1): Dimensions on flats

FLOWRATE REDUCING-VALVE Ø M3 IN LINE
Weight: 10 g



PRESSURE GAUGE
Weight: 0,065 kg



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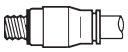
COUPLING-TYPE CONNECTORS

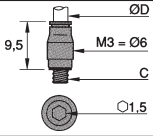
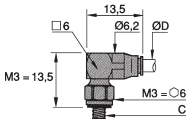
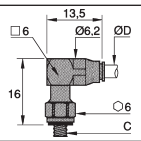
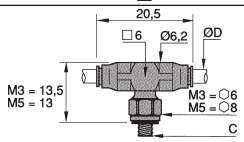
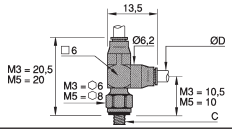
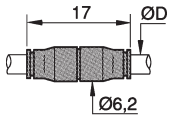
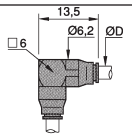
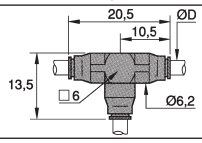
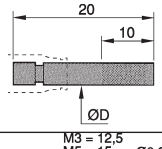
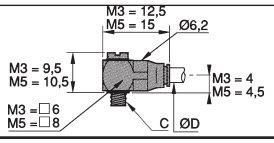
for flexibles tubes 3 mm outer dia.
Mounting Ø M3 - Ø M5



Series **346**
Type MICRO 10

COUPLING CONNECTORS

Material: Nickeled brass

Designation	Dimensions	Connector		CODES (by sets of 10 parts)
		Mounting ØC (mm)	Tube (out.Ø) ØD (mm)	
Straight male tapping		M3	3	**34600354**
Compact square with male tapping		M3	3	**34600356**
Raised square with male tapping		M3	3	**34600358**
Tee with centered male tapping		M3	3	**34600359**
		M5	3	**34600360**
Tee with end male tapping		M3	3	**34600361**
Equal double union		—	3	**34600363**
Equal square		—	3	**34600364**
Equal tee		—	3	**34600365**
Snap-in plug		—	3	**34600367***
Simple banjo connector		M3	3	**34600368**

* by set of 50 pieces

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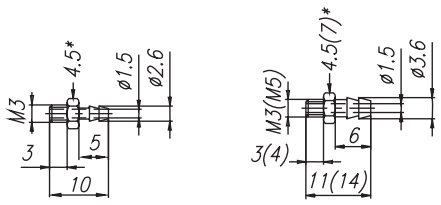
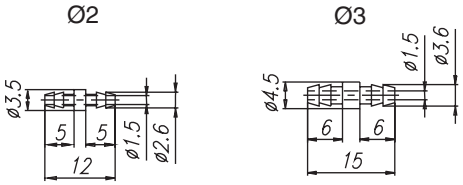
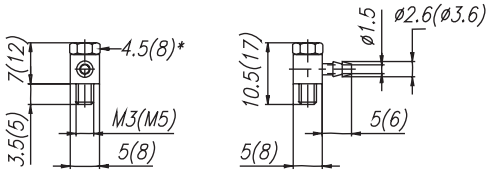
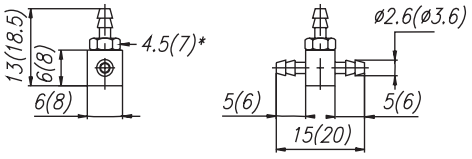
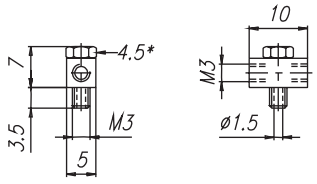
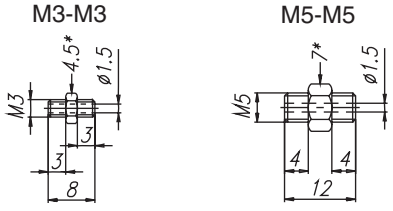
THREADED AND HOSE-CONNECTORS

Material: Nickeled brass

Designation	Dimensions	Connector		CODES (by sets of 10 parts)
		Mounting (mm)	Tube (out.Ø) ØD (mm)	
Straight male tapping	 ( ) : dimensions for M5 x 3 version (346 00 237)	M3	2	**34600235**
		M3	3	**34600236**
		M5	3	**34600237**
Equal double union		—	2	**34600238**
		—	3	**34600239**
Square with centered male tapping	 ( ) : dimensions for M5 x 3 version (346 00 241)	M3	2	**34600240**
		M5	3	**34600241**
Equal tee	 ( ) : dimensions for tube Ø3 (346 00 243)	—	2	**34600242**
		—	3	**34600243**
Female tee with centered male tapping		M3	—	**34600244**
Equal double male fitting		M3-M3	—	**34600245**
		M5-M5	—	**34600246**

* sizes across flats

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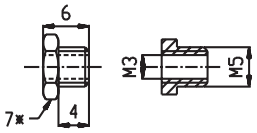
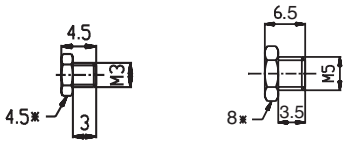
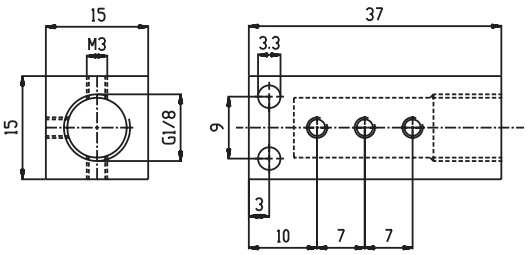
THREADED CONNECTORS

Material: Nickeled brass

Designation	Dimensions	Connection	**CODES** (by 10 parts packages)
Adapter male M5 - female M3		M3-M5	**34600247**
Hexagon male plugs		M3	**34600248**
		M5	**34600249**
Plastic washer		M3	**34600250**
		M5	**34600251**
Distributing connector (9 or 12 ports)		G1/8 + 9 Ø M3	**34600252****
		G1/8 + 12 Ø M3	**34600253****

* sizes across the flats

** Supplied per unit

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CONNECTORS

EN 175301-803, industry standard form B (11 mm)
ISO 4400 / EN 175301-803, form A (18 mm)
sizes 22 and 30

Series **881**

FEATURES

- *Spade connector sizes 22 and 30 to fit standardised three-pin moulded coils:*
  - size 22, EN 175301-803, industry standard form B (11 mm), for coil types CM5, CM22, C22A, EMX and BMX
  - size 30, ISO 4400 / EN 175301-803 form A (18 mm), for coil types CM6, CMXX, CM12, CM25, C25A, CM30, CM40, ANX, AMX, JMX, FNX and FMX
- *The connectors are available in three versions: standard rotatable version with or without integrated visual LED indicator and electrical protection, or version with non-rotatable 3-core moulded-in cable, 2 m long*
- *The standard connector size 30 is provided with a removable lid allowing access to the wiring for easy checking of power supply without unplugging the connector and without interrupting operation of the solenoid valve*



GENERAL

Connector specification	
size 22 (11 mm)	EN 175301-803 industry standard form B
size 30 (18 mm)	ISO 4400 / EN 175301-803, form A
Max. operating temperature	-40°C to +80°C (-40°C to +125°C [1] with silicone seal) [version with moulded-in cable -5°C to +70°C]

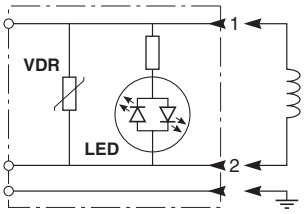
CONSTRUCTION

Standard version	PA (polyamide), glass-fibre reinforced
Enclosure with LED and protection	PA
Enclosure with PVC cable	PA (polyamide), glass-fibre reinforced
Seals	NBR [option for size 30: VMQ (silicone)]

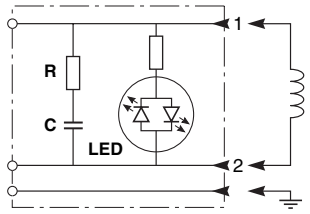
ELECTRICAL CHARACTERISTICS

	Size 22	**Size 30**
Number of contacts	2 + common earth	2 + common earth
Distance between contacts	**11 mm**	**18 mm**
Contact resistance	≤ 4 m Ω	≤ 4 m Ω
Connector	Spade plug	Spade plug
Electrical safety	IEC 335	IEC 335
Electrical enclosure protection	IP65 (EN 60529)	IP65 (EN 60529)
Number of wires (with cable)	3	3

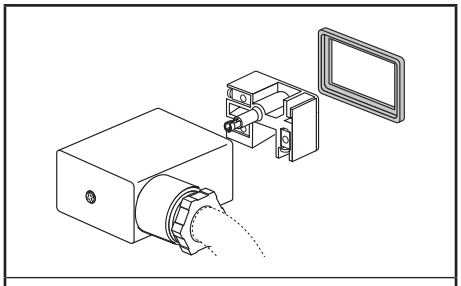
LED indicator and electrical protection diagrams



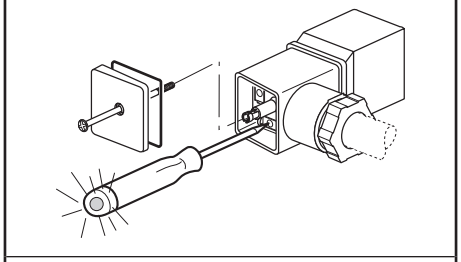
connector size 22



connector size 30



rotatable connector size 22



standard rotatable connector size 30 with power supply control

VDR Varistor absorbing the self-inductance of the coil.
RC RC circuit absorbing the self-inductance of the coil.
LED Green light-emitting diode, bidirectional, signalling the presence of voltage across the coil terminals.

SPECIFICATIONS

description	cable length	cable O.D.		wire cross-section	max. voltage	type	catalogue number		
		size 22	size 30	(mm^2)	(V)		size 22 NBR	size 30 NBR	size 30 VMQ [1]
Rotatable connector									
standard, without LED indicator	-	6-8 mm	6-10 mm	1,5	250	01-02	**88122404**	**88122602**	**88122625**
with integrated LED indicator and electrical protection	-	6-8 mm	8-10 mm	1,5	12	01-02	-	**88122611**	-
					24		**88122405**	**88122603**	-
					48		**88122406**	**88122604**	-
					115		**88122407**	**88122605**	-
					230		**88122410**	**88122608**	-
Non-rotatable connector with cable									
without LED indicator	2 m	-		1,5	250	03-04	**88122413**	**88122612**	-

[1] For use within class H temperature limits.

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INSTALLATION

- The connectors can be mounted in any position without affecting operation

ORDERING EXAMPLES:

88122404
88122602
basic number

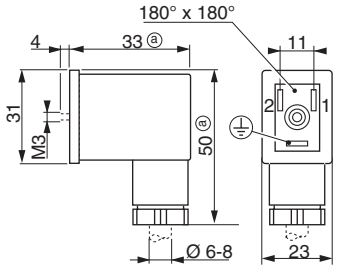
DIMENSIONS (mm), WEIGHT (kg)



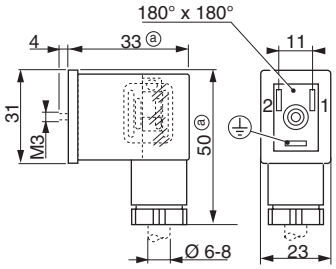
TYPE 01

Size 22 (11 mm)
EN 175301-803 industry standard form B
IP65

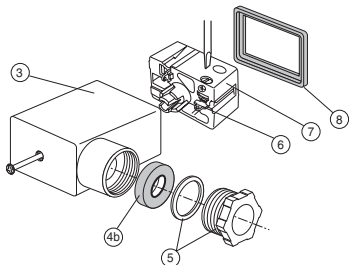
88122404



88122405/406/407/410



88122404/405/406/407/410



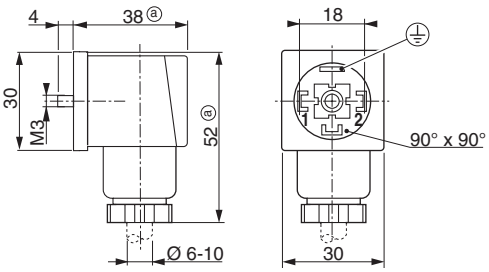
(a) Max. dimension.



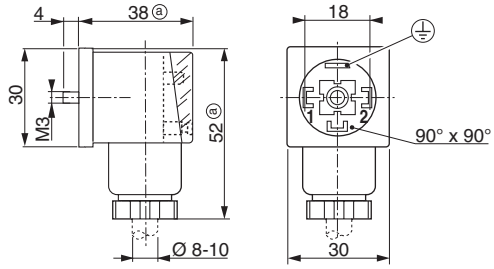
TYPE 02

Size 30 (18 mm)
ISO 4400 / EN 175301-803, form A
IP65

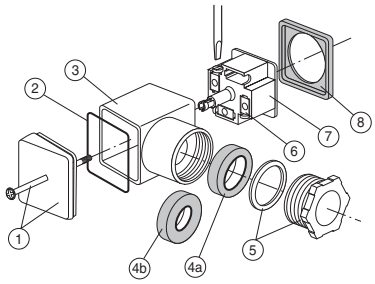
88122602/625



88122611/603/604/605/608



88122602/625



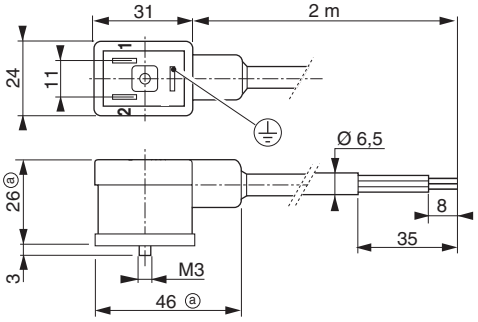
(a) Max. dimension.



TYPE 03

Size 22, flying leads (11 mm)
EN 175301-803 industry standard form B
IP65
(non-rotatable terminal holder)

88122413

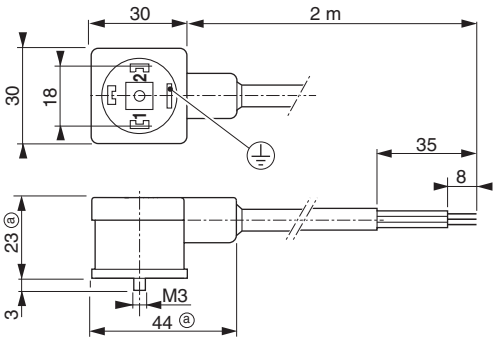




TYPE 04

Size 30, flying leads (18 mm)
ISO 4400 / EN 175301-803, form A
IP65
(non-rotatable terminal holder)

88122612



(a) Max. dimension.

type	L (m)	weight (1) without LED indicator	weight (1) with LED indicator
01	-	0,025	0,025
02	-	0,030	0,032
03	2	0,150	-
04	2	0,155	-

(1) Including seals and screws.

sizes 03 and 04	
brown wire	terminal 1 (+)
blue wire	terminal 2 (-)
green/yellow wire	earth

1. Fastening screw / cover
2. Cover seal
3. Enclosure
4. **88122602/625:**
   2 seals
   for cable dia. 8 to 10 mm (4a)
   or cable dia. 6 to 8 mm (4b)
   88122611/603/604/605/608:
   1 seal for cable dia. 8 to 10 mm (4a)
   88122404/405/406/407/410:
   1 seal for cable dia. 6 to 8 mm (4b)
5. Stuffing box washer and nut
6. Cable connection terminal
7. Terminal holder
8. Connector seal

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CONNECTORS

EN 175301-803, industry standard form C (9,4 mm)
EN 175301-803, form C (8 mm)
size 15

Series **881**

FEATURES

- *Spade connector size 15 to fit standardised three-pin moulded coils:*
  - EN 175301-803, industry standard form C (9,4 mm), for coil type CM15 (series 202), DMX and series 302, 630, 519, 520, 521 and 578 (MEGA)
  - EN 175301-803, form C (8 mm), for series 302, 630 and 202
- *The connectors are available in three versions: standard rotatable version, or version with non-rotatable 3-core moulded-in cable, 2 m or 5 m long, with or without integrated visual LED indicator and electrical protection*



GENERAL

Connector specification	
size 15, 9,4 mm pin spacing	EN 175301-803, industry standard form C
size 15, 8 mm pin spacing	EN 175301-803, form C
Max. operating temperature	-25°C to +60°C [version with moulded-in cable -25°C to +60°C]

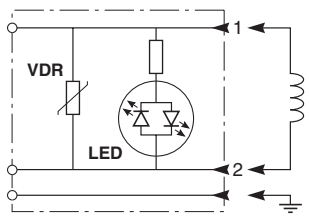
CONSTRUCTION

Standard version	PA (polyamide), glass-fibre reinforced
Enclosure with LED and protection	PA or PP
Enclosure with PVC cable	PP (polypropylene), glass-fibre reinforced
Seals	NBR

ELECTRICAL CHARACTERISTICS

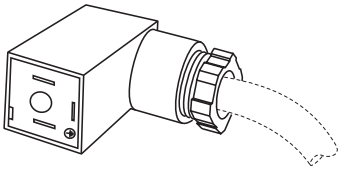
	Size 15	**Size 15**
Number of contacts	2 + common earth (1)	2 + common earth
Distance between contacts	**9,4 mm**	**8 mm**
Contact resistance	≤ 4 m Ω	≤ 4 m Ω
Connector	Spade plug	Spade plug
Electrical safety	IEC 335	IEC 335
Electrical enclosure protection	IP65 (EN 60529)	IP65 (EN 60529)
Number of wires (with cable)	3	3

LED indicator and electrical protection diagrams

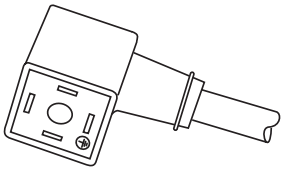


connector

VDR Varistor absorbing the self-inductance of the coil.
LED Green light-emitting diode, bidirectional, signalling the presence of voltage across the coil terminals.



rotatable connector 9,4 mm or 8 mm



non-rotatable connector with cable

SPECIFICATIONS

description	cable length	cable O.D.	wire cross-section (mm²)	max. voltage (V)	type	catalogue number size 15 9,4 mm	catalogue number size 15 8 mm
Rotatable connector							
standard, without LED indicator	-	4-6 mm	0,6	250 V	01-02	**88143581**	**88130211**
Non-rotatable connector with cable							
without LED indicator	2 m	-	0,6	250 V	03	**88143567**	(2)
with integrated LED indicator and electrical protection	2 m	-	0,6	24 V	04	**88143580**	-
	5 m					**88143593**	-

(1) Version with 3 pins + earth, see our catalogue Fluid Automation Pneumatic Components, page P575.
(2) Contact us

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OPTIONS

- Connectors with cable, 5 m long, contact us

INSTALLATION

- The connectors can be mounted in any position without affecting operation

ORDERING EXAMPLES:

88143581
88130211
basic number

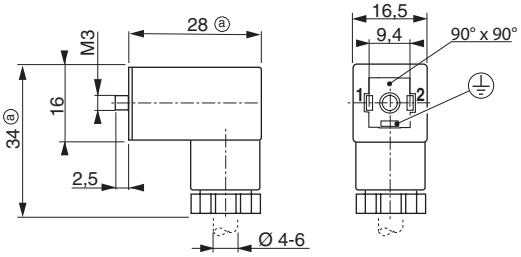
DIMENSIONS (mm), WEIGHT (kg)



TYPE 01

Size 15, 9,4 mm
EN 175301-803, industry standard form C
IP65

88143581



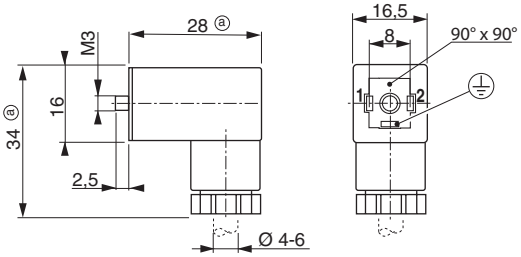
ⓐ Max. dimension.



TYPE 02

Size 15, 8 mm
EN 175301-803, form C
IP65

88130211

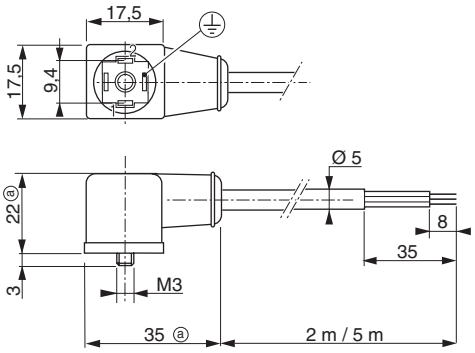




TYPE 03

Size 15, flying leads, without LED indicator
EN 175301-803, industry standard form C (9,4 mm)
IP65
(non-rotatable terminal holder)

88143567



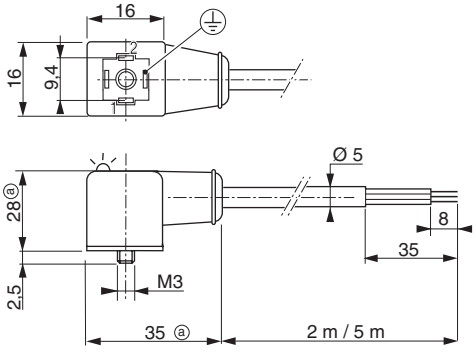
ⓐ Max. dimension.



TYPE 04

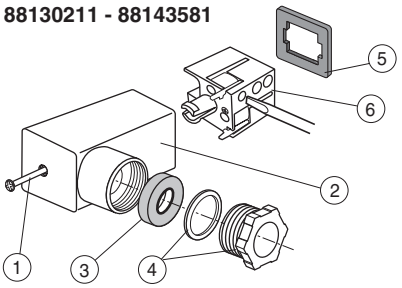
Size 15, flying leads, with LED indicator
EN 175301-803, industry standard form C (9,4 mm)
IP65
(non-rotatable terminal holder)

88143580/593



ⓐ Max. dimension.

88130211 - 88143581



1. Fastening screw
2. Enclosure
3. Seal for cable dia. 4 to 6 mm
4. Stuffing box washer and nut
5. Connector seal
6. Terminal holder
7. Cable connection terminal

type	L (m)	weight (1) without LED indicator	weight (1) with LED indicator
01 - 02	-	0,015	-
03	2	0,100	-
04	2	-	0,100
	5	-	0,220

(1) Including seals and screws.

sizes 03 and 04	
brown wire	terminal 1 (+)
blue wire	terminal 2 (-)
green/yellow wire	earth

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MODULE OF VISUAL INDICATION (LED) AND ELECTRICAL PROTECTION

Size 15

Series **881**

GENERAL

The built-in module of visual indication (LED) and electrical protection can be fitted on any solenoid valve or spool valve equipped with 2 terminals + 1 earth, size 15, among the following :

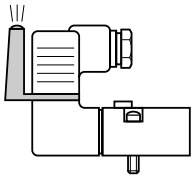
- Spool valve 5/2 - 5/3 Ø M5 - series 519
- Spool valve 5/2 - 5/3 G 1/8 - series 520
- Spool valve 5/2 - 5/3 G 1/4 - series 521



MOUNTING

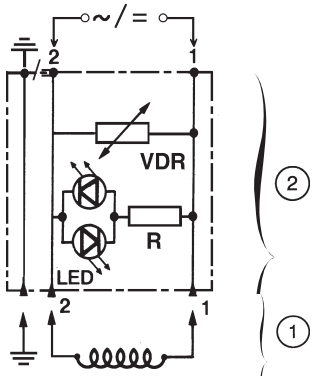


Mounting of the module between the connector and the solenoid valve (rotatable x 180°)



ELECTRICAL CHARACTERISTICS AND SPECIFICATIONS

VOLTAGE	:	24 V DC / 24V-115V-230V AC 50/60 Hz
AMBIENT TEMPERATURE	:	-15°C to +50°C (see appropriate limits for each product)
CONNECTION	:	on coil terminals, hold position by means of the connector size 15.
NUMBER OF TERMINALS	:	2 terminals + earths (2 earths are symetrical to allow module reversal)
CONSUMPTION	:	0,25 W (24V) - 0,40 W (115V) - 0,75 W (230V)
PROTECTION	:	IP65



LED - green luminous diode, bi-directional to check voltage on coil terminals (24V AC/DC, 115V AC, 230 V AC).

VDR - Varistat absorbing back EMF of coil

① Coil for mini pilot/solenoid valve/spool valve size 15

② Module of visual indication and electrical protection

CONSTRUCTION

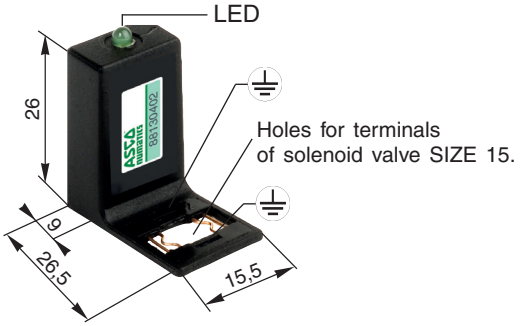
Body in glass-filled polyamide (PA + FG)
Electronic components encapsulated in compound

RANGE SPECIFICATION

Description		CODES
Module of visual indication (LED) and electrical protection	24V AC/DC	**88130401**
	115V AC	**88130402**
	230V AC	**88130403**

DIMENSIONS AND WEIGHT

Weight : 5 g



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CONNECTORS

ISO 4400 / EN 175301-803, form A
size 30
with protection by TRANSIL and LED display

Series
881



FEATURES

- *The main advantages of a connector with protection by TRANSIL are:*
  - *No polarisation*
  - *Overvoltage suppression*
  - *Shorter response time*
  - *Excellent protection of the PLC or control system by indicating loss of automatic control in the event of a fault*
  - *Label-holder provided for identification*
- *Spade connector to fit standardised three-pin moulded coils:*
  - *size 30, ISO 4400 / EN 175301-803 form A, for coil types CM6, CMXX, CM12, CM25, C25A, CM30, CM40, ANX, AMX, JMX, FNX and FMX*
- *The connectors, which have LED displays, are provided with 2/3/5 m leads and with stripped conductors ends*

GENERAL

	General purpose	Automobile industry
Connector specification	ISO 4400 / EN 175301-803, form A	ISO 4400 / EN 175301-803, form A
Max. operating temperature	-5°C to +70°C	-5°C to +70°C

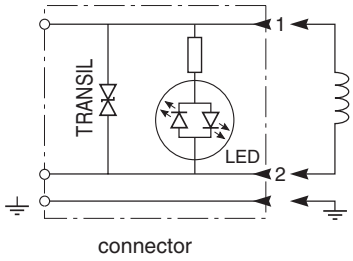
CONSTRUCTION

Boby and cover	PA, glass fibre reinforced	PA, glass fibre reinforced
Cable	PVC	CNOMO E03.40.150.N
Seals	NBR	NBR

ELECTRICAL CHARACTERISTICS

Voltage	115 V AC/DC	24 V AC/DC
Peak voltage	< 246 V	< 49,9 V
Rated current	10 A	10 A
Number of contacts	2 + 2 common earths (1)	2 + 2 common earths (1)
Distance between contacts	**18 mm**	**18 mm**
Contact resistance	≤ 4 m Ω	≤ 4 m Ω
Connection	Flying lead	Flying lead
Electrical safety	IEC 335	IEC 335
Electrical enclosure protection	IP65 (EN 60529)	IP65 (EN 60529)
Number of wires (with cable)	3	3

LED indicator and electrical protection diagram



LED Green light-emitting diode, bidirectional, signalling the presence of voltage across the coil terminals.

SPECIFICATIONS

description	cable length	wire cross-section (mm²)	max. voltage (V)	type	catalogue number
General purpose					
cable with stripped ends	3 m	0,75	115	01	**88122618**
	5 m				**88122619**
Automobile industry, CNOMO lead resistant to cutting fluid					
cable with stripped ends	2 m	1	24	02	**88122620**
	5 m				**88122621**

(1) The two common earth terminals enable rotation of the connector by 180° increments.

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INSTALLATION

- The connectors can be mounted in any position without affecting operation

ORDERING EXAMPLES:

88122618
88122620
basic number

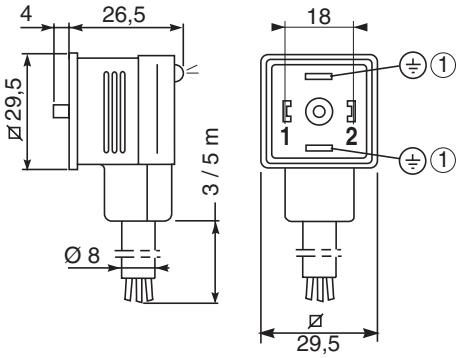
DIMENSIONS (mm), WEIGHT (kg)



TYPE 01-02

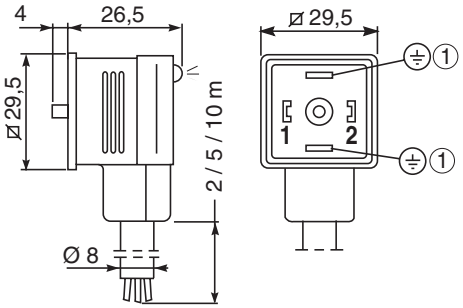
Size 30, flying leads
ISO 4400 / EN 175301-803, form A
IP65

Type 01: **88122618 / 88122619**



type 01	
brown wire	terminal 1
blue wire	terminal 2
green/yellow wire	earth

Type 02: **88122620 / 88122621**



type 02	
black wire	terminal 1
black wire	terminal 2
green/yellow wire	earth

type	L (m)	weight (1)
01	3	0,225
	5	0,375
02	2	0,150
	5	0,375

(1) Including seal and screw.

(1) The 2 common earth terminals enable rotation of the connector by 180° increment.

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