



PMG SOLUTIONS

DISCOVER OUR
PNEUMATIC
PRODUCTS



PMG Solutions designs and manufactures connectors for pneumatic technology. Our products provide simultaneous connection of 2 to 21 circuits of diameter 4-6-8-10.

Our families of connectors:

- Round connectors
- Bulkhead fittings
- Rectangular pneumatic connectors
- Rectangular electropneumatic connectors

Our bases:

- Connectable base, ISO size 1 and 2
- Connectable tap, single or double
- Cylinder base

Don't hesitate to contact us for specific requests



OUR PRODUCTS

CONNECTABLE DOUBLE TAP_____	P.4
CONNECTABLE SINGLE TAP_____	P.6
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RECTANGULAR ELECTROPNEUMATIC CONNECTOR____	P.18

CONNECTABLE DOUBLE TAP

2-slide modular unit

Allows for the isolation of one or two pneumatic circuits with a simple "push-pull" with drainage.



ADVANTAGES

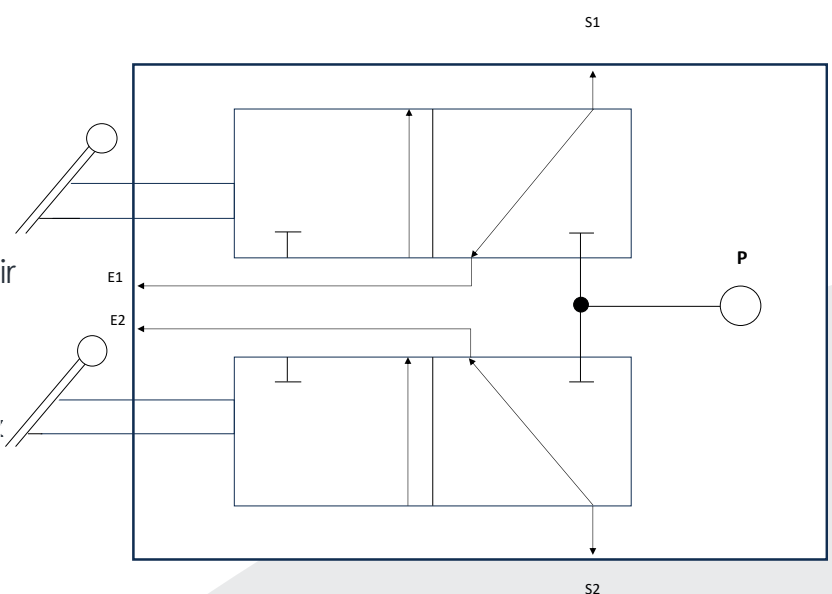
Modularity to allow for mounting of the desired number of taps.

CHARACTERISTICS

- Anodized blue aluminum alloy
- Pressure 12 bars – lubricated or dry air
- Power supply 1/2 gas
- Output (see choice table)
- Full flow
- Draining with sintered bronze silence:
- Mistake-proof assembly
- Option: padlockable function

SCHEMATIC DIAGRAM

Two 3/2 taps with push-pull control



Closing block

Ref: RBF 2T8
Code: P405

2-slide modular unit

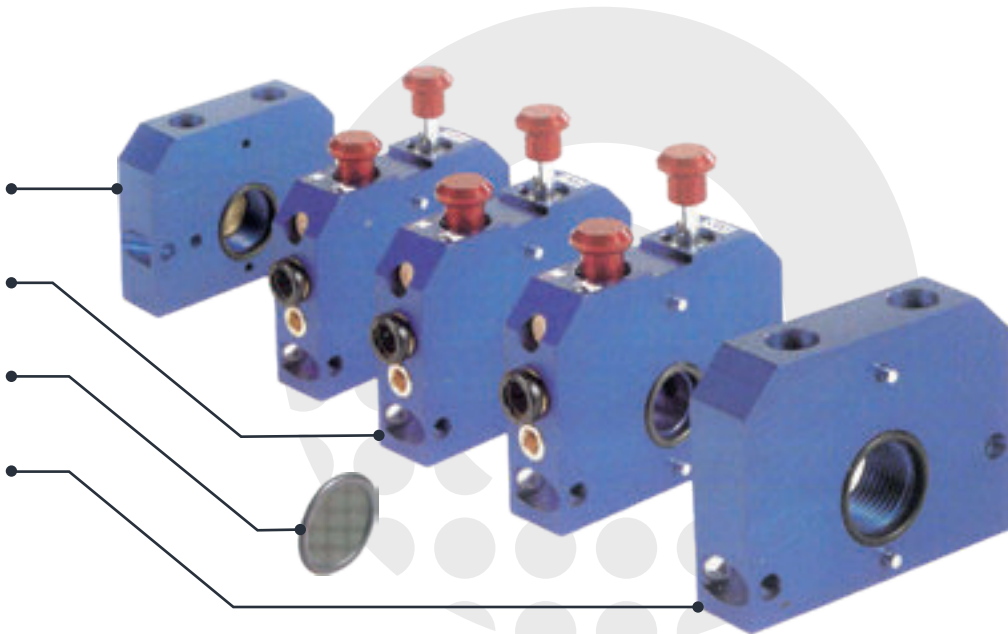
See choice table

Sealing plug

Ref: RBA0
Code: P312

Power supply

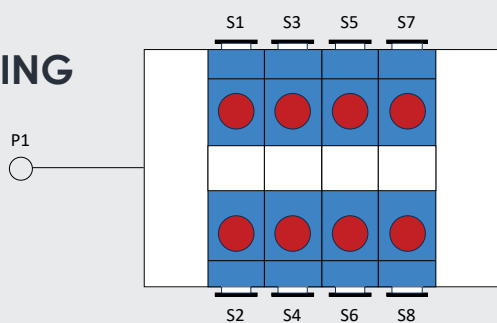
Ref: RBA 2T
Code: P404



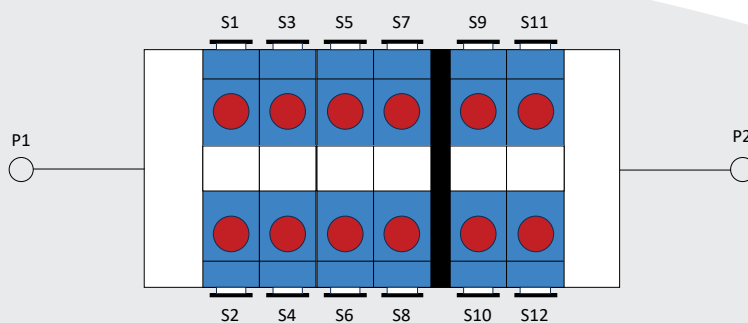
CHOICE OF A MODULE UNIT

Module Unit	Power Supply	Closing block	Accessories	Code	Encumbrance
RBM 2T8				P403	
RBM 2T6				P407	
RBM 2T4				P406	
RBM 2T 1/4 GAZ				P414	
RBM 2T 1/4 NTP				P424	
	RBA 2T			P404	
		RBF2T		P405	
			Padlock (Ref.C)	P310	
			Sealing plug (Ref.RBO)	P312	

MOUNTING

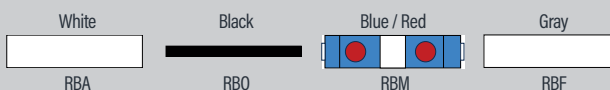


**Serial mounting
with common pressure**
S1 à S8 = P1



**Serial mounting
with 2 common pressures**
S1 à S8 = P1 / S9 à S12 = P2

Legend:



CONNECTABLE SINGLE TAP

1-slide module unit

It allows for the isolation of a pneumatic circuit with simple "push-pull" with drainage.



ADVANTAGES

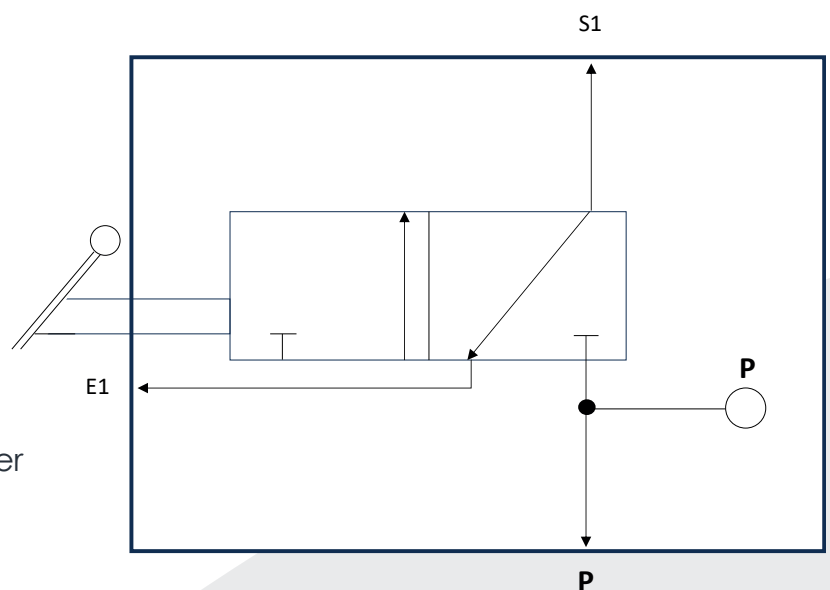
Modularity to allow for mounting of the desired number of taps.

CHARACTERISTICS

- Anodized blue aluminum alloy
- Pressure 12 bars
- Power supply ½ gas
- Output (see choice table)
- Full flow
- Drainage with sintered bronze silencer
- Mistake-proof assembly
- Option: padlockable function

SCHEMATIC DIAGRAM

One 3/2 tap with push-pull control



Closing block

Ref: RBF1T
Code: P412

1-slide modular unit

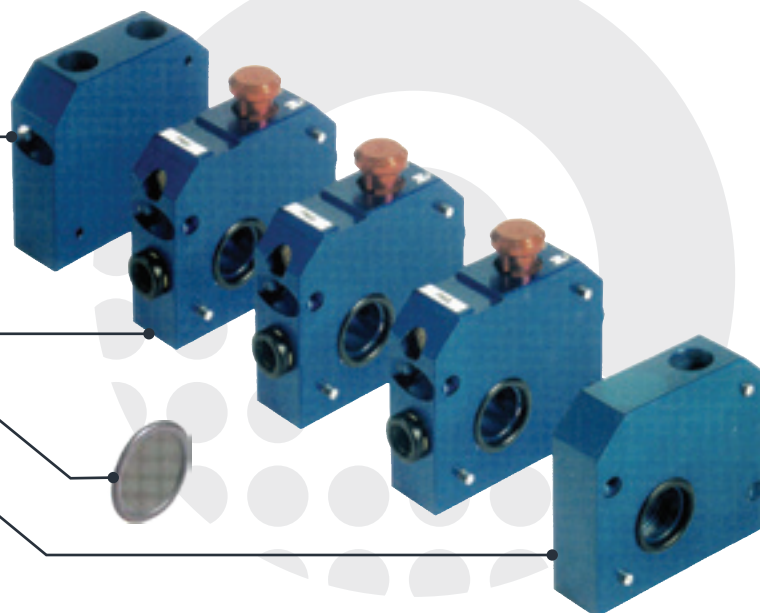
Voir tableau de choix

Sealing plug

Ref: RBO
Code: P312

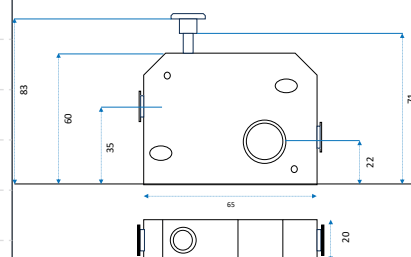
Power supply

Ref: RBA 1T
Code: P411

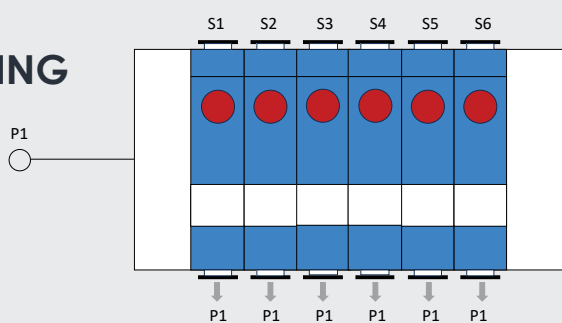


CHOICE OF A MODULAR UNIT

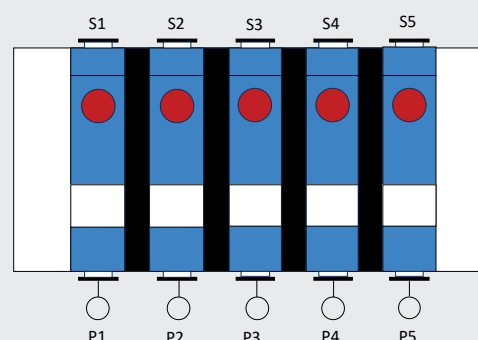
Module Unit	Power Supply	Closing block	Accessories	Code	Encumbrance
RBM 1T4				P415	
RBM 1T6				P416	
RBM 1T8				P410	
RBM 1T 1/4 GAZ				P421	
RBM 1T 1/4 NTP				P425	
	RBA 1T			P411	
		RBF1T		P412	
			Padlock (Ref.C)	P322	
			Sealing plug (Ref.RBO)	P312	



MOUNTING

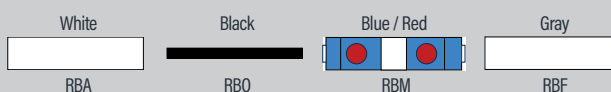


Serial mounting with common pressure
S1 à S6 = P1



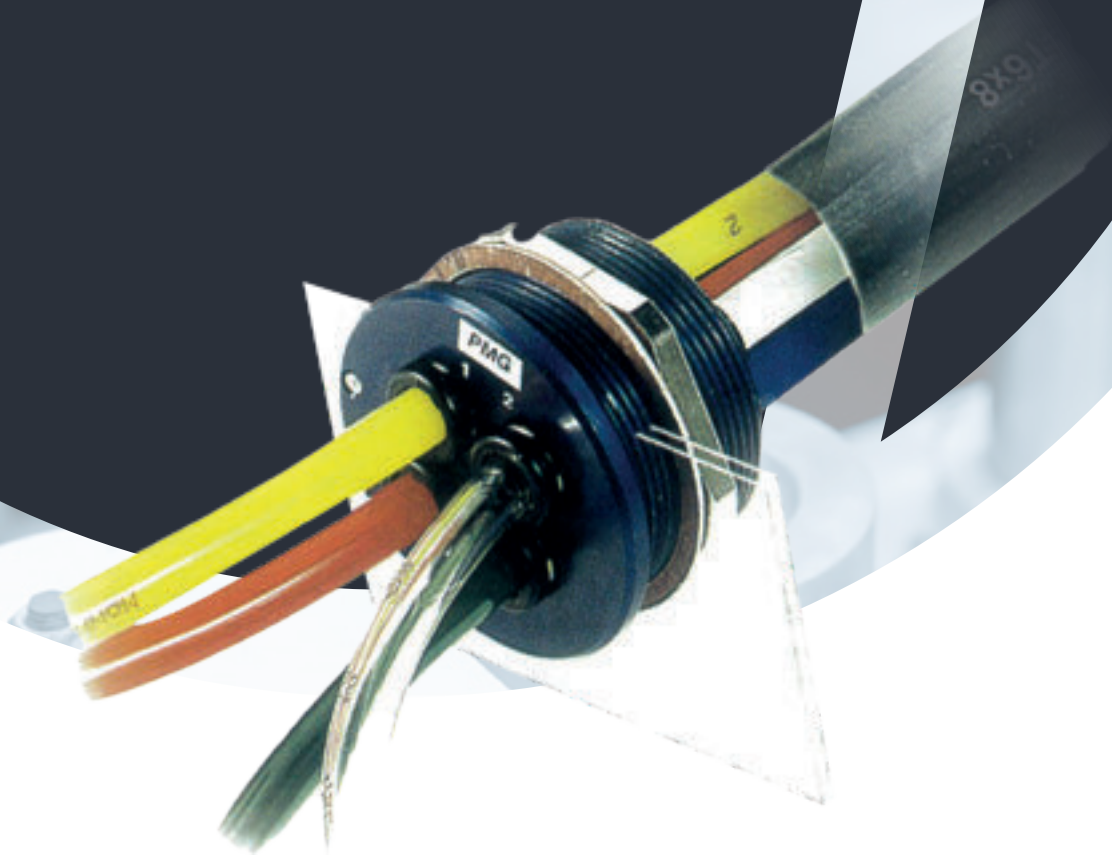
Parallel mounting without common pressure
S1 = P1 / S2 = P2 / S3 = P3 / S4 = P4 / S5 = P5

Legend:



BULKHEAD FITTING

Crossing of multiple partitions



CHARACTERISTICS

- Anodized blue aluminum alloy
- Pressure 12 bars
- Connectors which do not require any tools
- Mechanical maintaining of multi-tubes with long covers
- Full passage

SCHEMATIC DIAGRAM



Bulkhead fitting ø 50

See choice table

Long cover ø 50

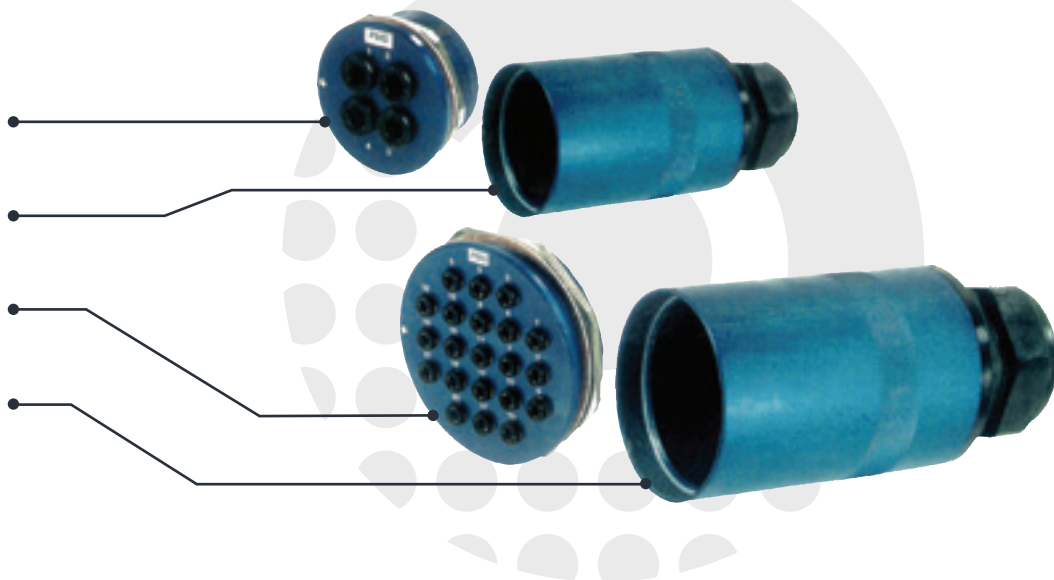
Ref: CPLT50
Code: P202

Bulkhead fitting ø 80

See choice table

Long cover ø 80

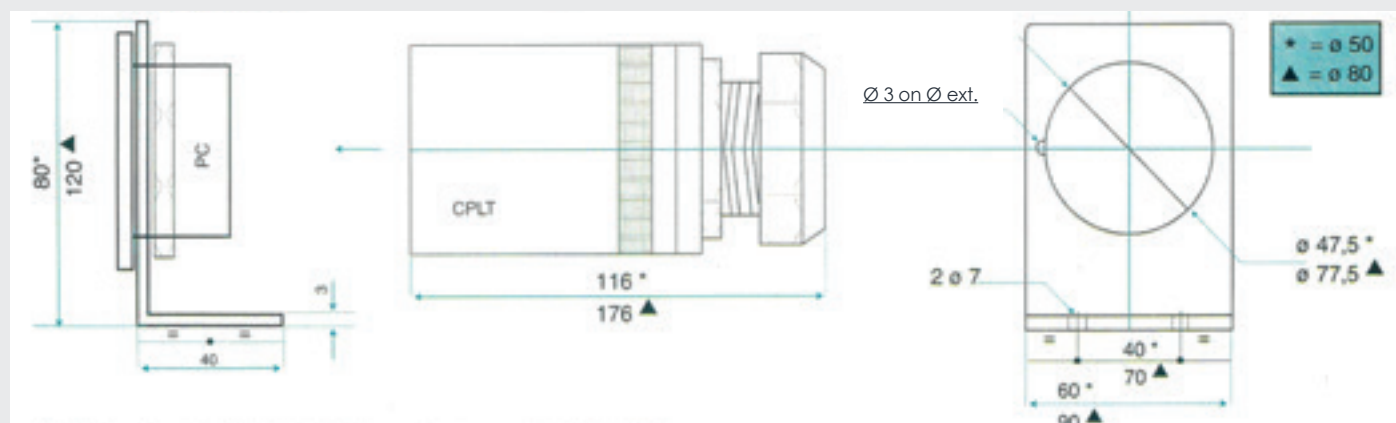
Ref: CPLT80
Code: P203



CHOICE OF A BULKHEAD FITTING

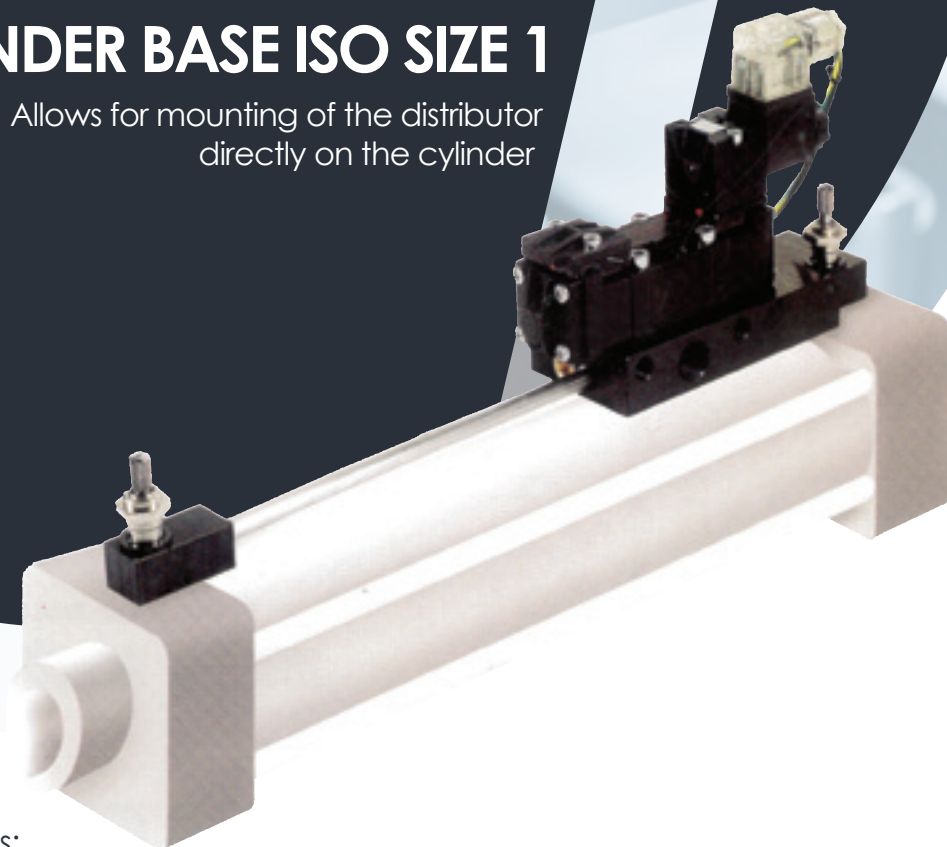
CHOICE OF A CONNECTOR							REFERENCES		
Number of cross pieces	ø exterior tube	ø of connector	ø of multitube	Size of the cable gland	Clamping capacity of the cable gland	Thickness of cabinet base support	Attachment bracket	«Bulkhead fitting PC»	«Turning long cover CPLT»
7	4	50	15,5	PG 29	25 to 15mm	1 to 8 mm	P 205	P 230	P 202
12	4	50	20,5	PG 29	25 to 15mm	1 to 8 mm	P 205	P 231	P 202
21	4	80	23,5	PG 29	25 to 15mm	1 to 8 mm	P 206	P 232	P 203
7	6	50	21,5	PG 29	25 to 15mm	1 to 12 mm	P 205	P 233	P 202
12	6	80	28,5	PG 42	38 to 25mm	1 to 12 mm	P 206	P 234	P 203
4	8	50	23	PG 29	25 to 15mm	1 to 12 mm	P 205	P 235	P 202
7	8	80	27,5	PG 42	38 to 25mm	1 to 12 mm	P 206	P 236	P 203
12	8	80	36,5	PG 42	38 to 25mm	1 to 12 mm	P 206	P 237	P 203
4	10	80	27,5	PG 42	38 to 25mm	1 to 15 mm	P 206	P 238	P 203
7	10	80	33,5	PG 42	38 to 25mm	1 à 15 mm	P 206	P 239	P 203

MOUNTING



CYLINDER BASE ISO SIZE 1

Allows for mounting of the distributor directly on the cylinder



ADVANTAGES

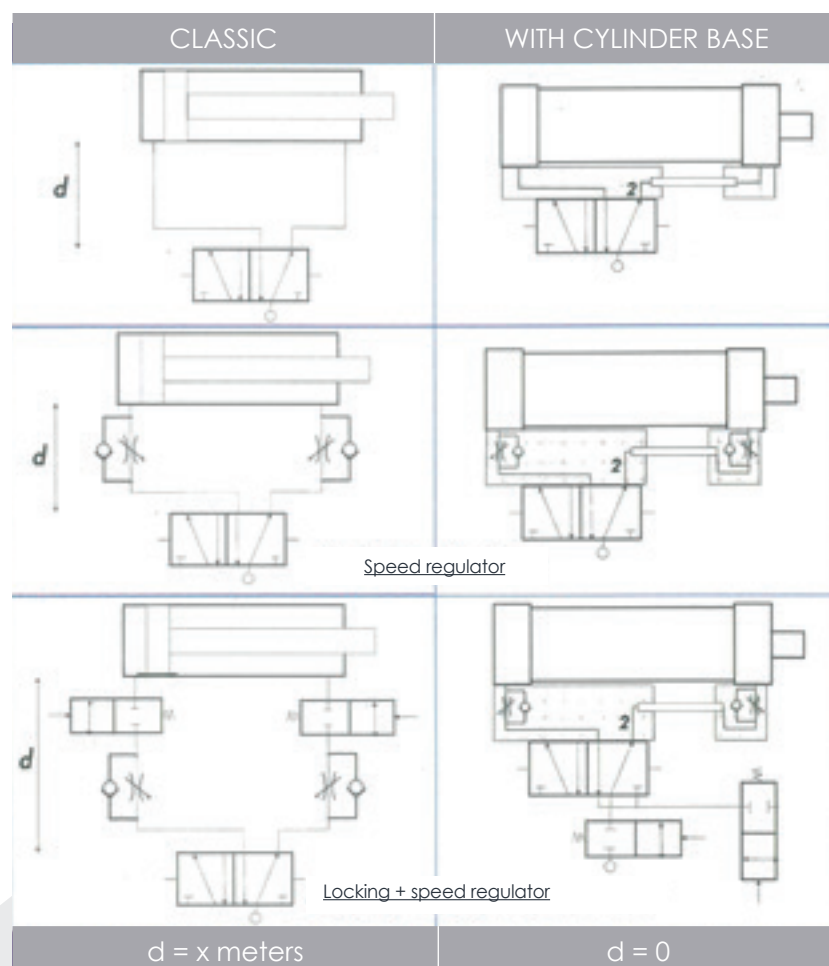
Coupling with the functions:

- Speed regulation > with flow restrictor
- Locking in position > with flap
- Position detection > with pressure drop sensor

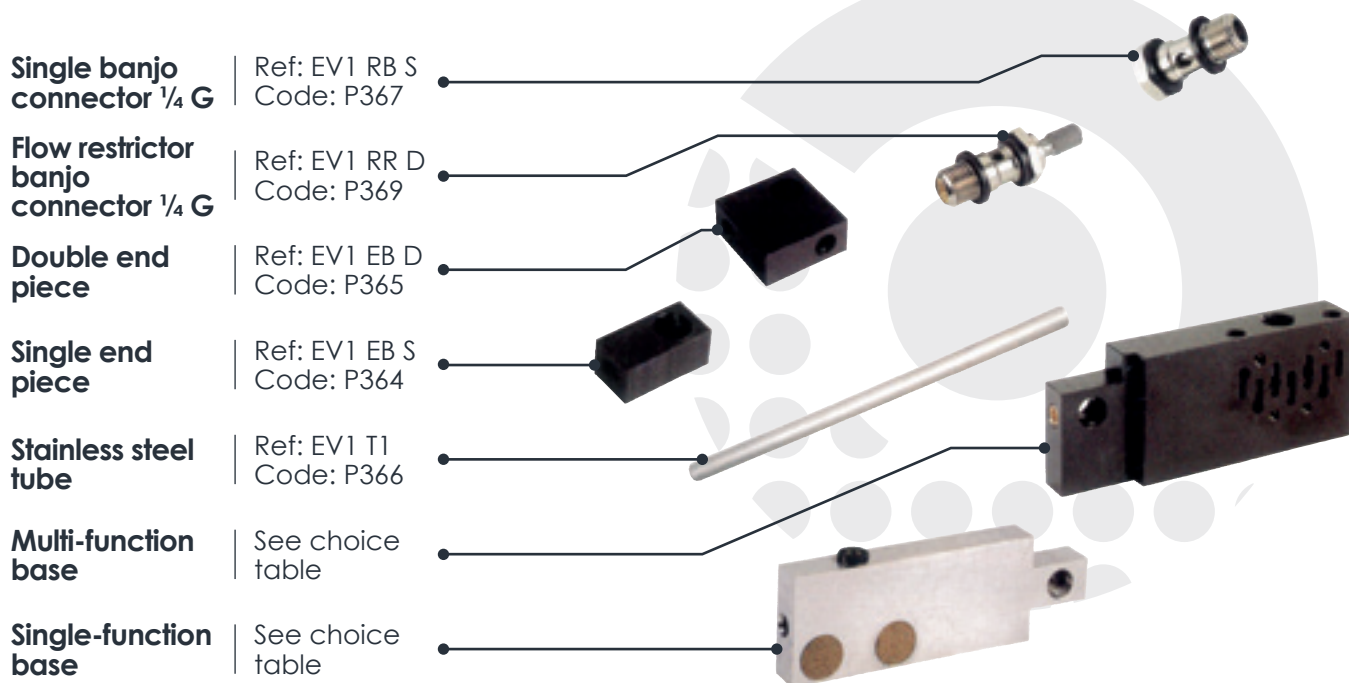
CHARACTERISTICS

	Cylinder base	
	Single-function	Multi-function
Black anodized aluminum alloy	X	X
Pressure 12 bars	X	X
Mounting on cylinder with single banjo	X	X
Mounting on cylinder with flow restrictor banjo	X	X
Collected exhaust 1/4"G or 3/8"G		X
Independent exhaust units 3/8"G (option)		X
Independent exhaust units with inline silencers	X	
Pilots - 12 - 14 - in 1/8"G		X
Feed opening .1. with quick disconnect ø8	X	
Feed opening .1. in 3/8"G		X
Outlet - 2 (see choice table)	X	X

SCHEMATIC DIAGRAM



Mounting with cylinders in parallel = contact us

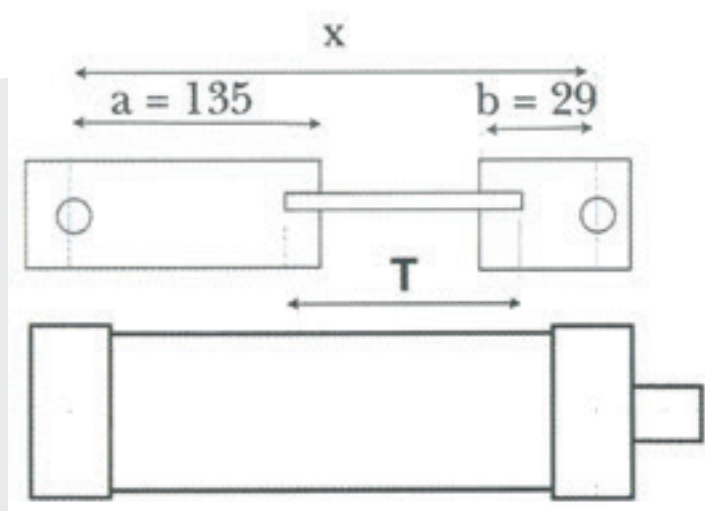


CHOICE OF A BASE

Single-function base	Ref.	Code
Outlet 2: seal	EV1 SJ	P360
Outlet 2: 1/4"G	EV1 S 1/4"G	P361

Embase Multifonction	Ref.	Code
Sortie 2 : joint	EV1 MJ	P362
Sortie 2 : 1/4"G	EV1 M 1/4"G	P363

MOUNTING

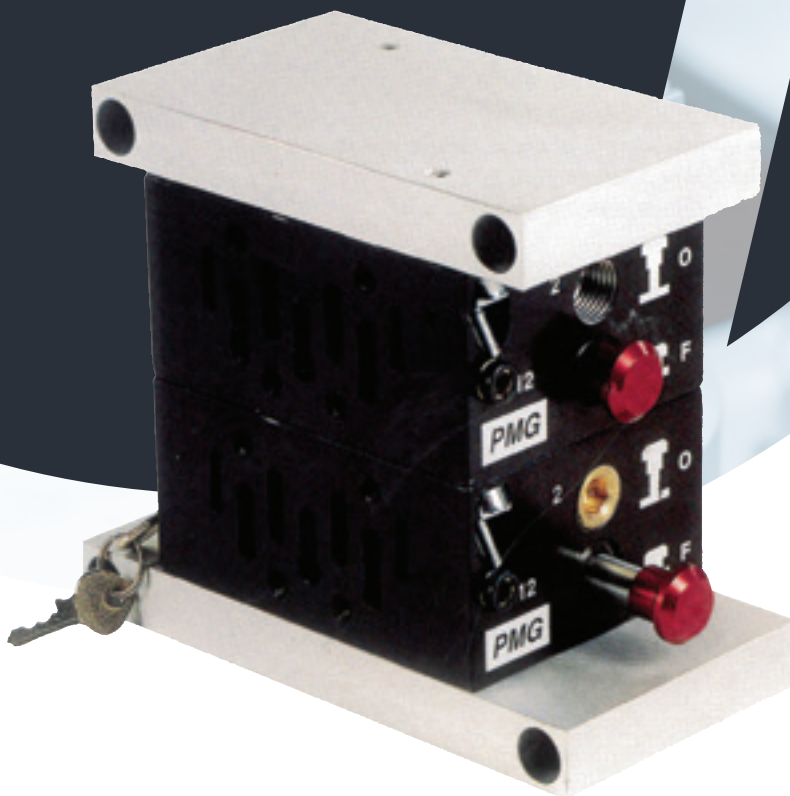


Conditions of use: $x > a + b$
Tube cut: $T = x - 136$

CONNECTABLE BASE ISO SIZE 1

At interruptible nominal pressure

Provides drainage of the actuator involved,
while maintaining connectivity.



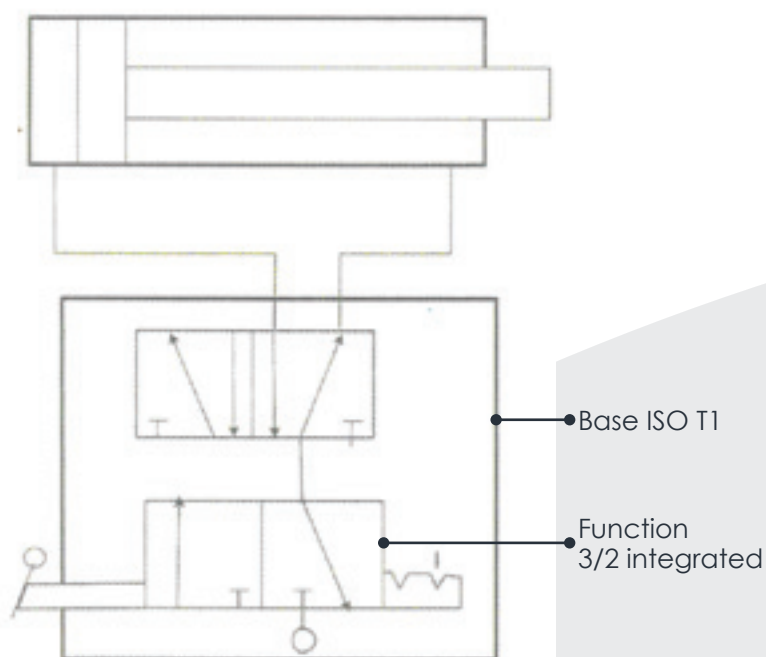
ADVANTAGES

Modularity to ensure assembly
of the desired number of taps

CHARACTERISTICS

- Black anodized aluminum alloy
- Collected exhaust
- Pressure 12 bars maximum –
lubricated or dry air
- Outlet (see choice table)
- Option: padlockable function

SCHEMATIC DIAGRAM



Bit sets 2x3/8G

Ref: JE1 2x3/8G
Code: P318

Base Iso T1

See choice
table

Closing plate

Ref: P01
Code: P304

Sealing plug

Ref: RB0
Code: P312

Bit sets 1x3/8G

Ref: JE1 1x3/8G
Code: P302

CHOICE OF A BASE

EXAMPLE

E - T - 1 - INF - 1

TYPE	E	ISO base
FUNCTION	T	Interruptible with slide
SIZE	1	ISO 1

Outlet 2 and 4

INF = Inférieures
(Lower)

LAT = Latérales
(Lateral)

DS = INF and LAT

Outlet 2 and 4

5: quick disconnects $\varnothing 4$

4: quick disconnects $\varnothing 6$

1: quick disconnects $\varnothing 8$

2: tapping 1/4 Gas

3: tapping 1/4 NPT

Base Iso T1 - Type outlet	Code
ET 1 INF 1	P300
ET 1 INF 2	P311
ET 1 INF 3	P319
ET 1 INF 4	P322
ET 1 INF 5	P323
ET 1 LAT 1	P301
ET 1 LAT 2	P314
ET 1 LAT 3	P320
ET 1 LAT 4	P324
ET 1 LAT 5	P325
ET 1 DS 1	P315
ET 1 DS 2	P316
ET 1 DS 3	P321
ET 1 DS 4	P326
ET 1 DS 5	P327

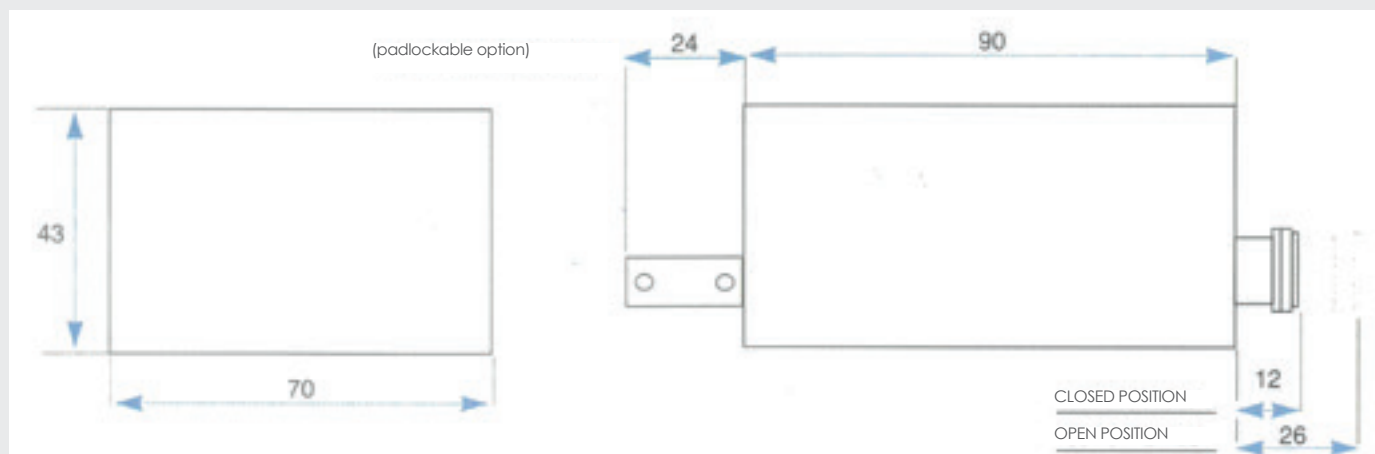
OPTIONS

Padlockable function
> Padlock

Ref: C

Code: P310

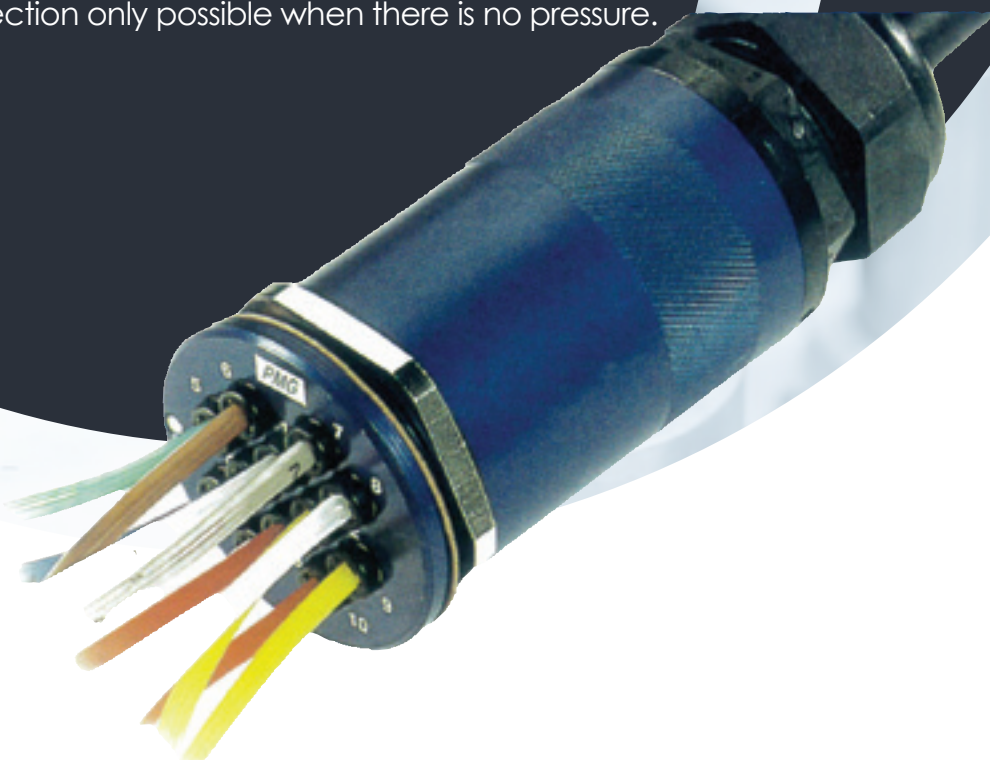
ENCUMBRANCE



ROUND PNEUMATIC CONNECTOR

Instant connection (ø 4-6-8-10) without tools

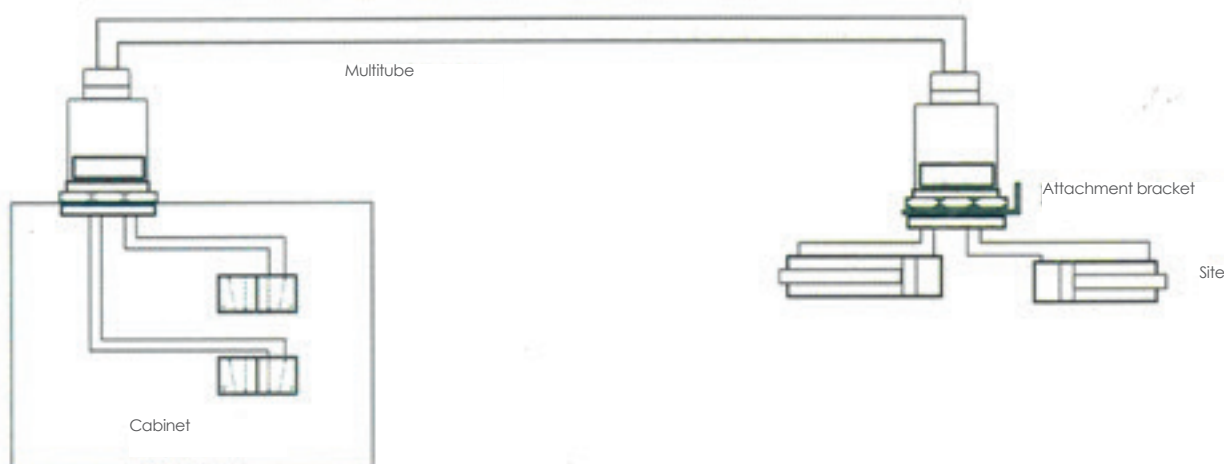
Allows for simultaneous connection of 2 to 21
pneumatic circuits of different diameters (4-6-8-10).
Disconnection only possible when there is no pressure.



CHARACTERISTICS

- Anodized blue aluminum alloy
- Pressure 12 bars
- Safety: disconnection impossible under pressure
- Mistake proof assembly
- Mechanical maintaining of multi-tubes with long covers
- Full passage

SCHEMATIC DIAGRAM



Cover base

Ref: ECA
See choice table

Cabinet base

Ref: EAR
See choice table

Short cover ø 50

Ref: CPC50
Code: P200

Short cover ø 80

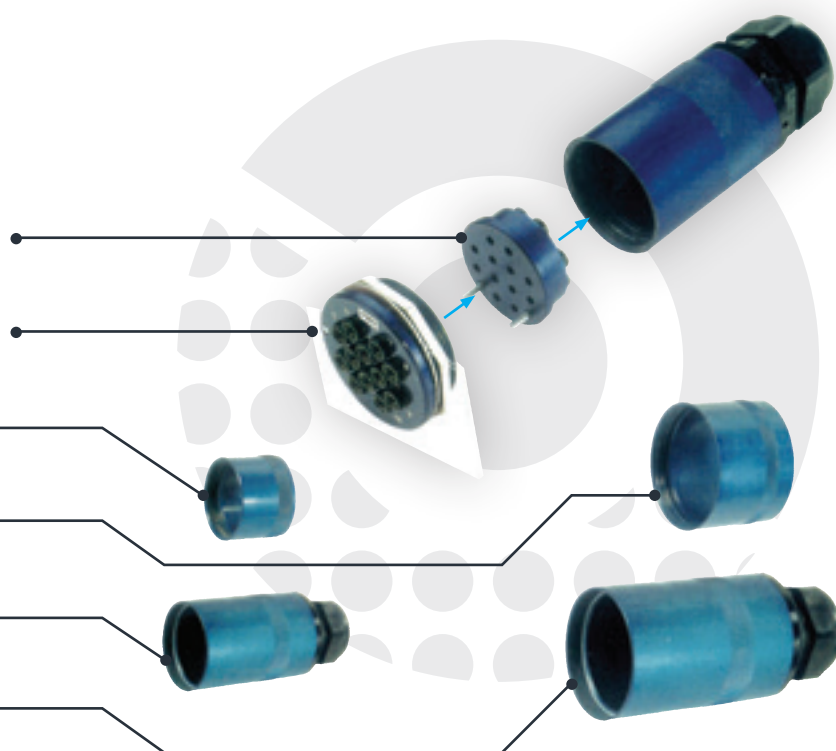
Ref: CPC80
Code: P201

Capot long ø 50

Ref: CPLT50
Code: P202

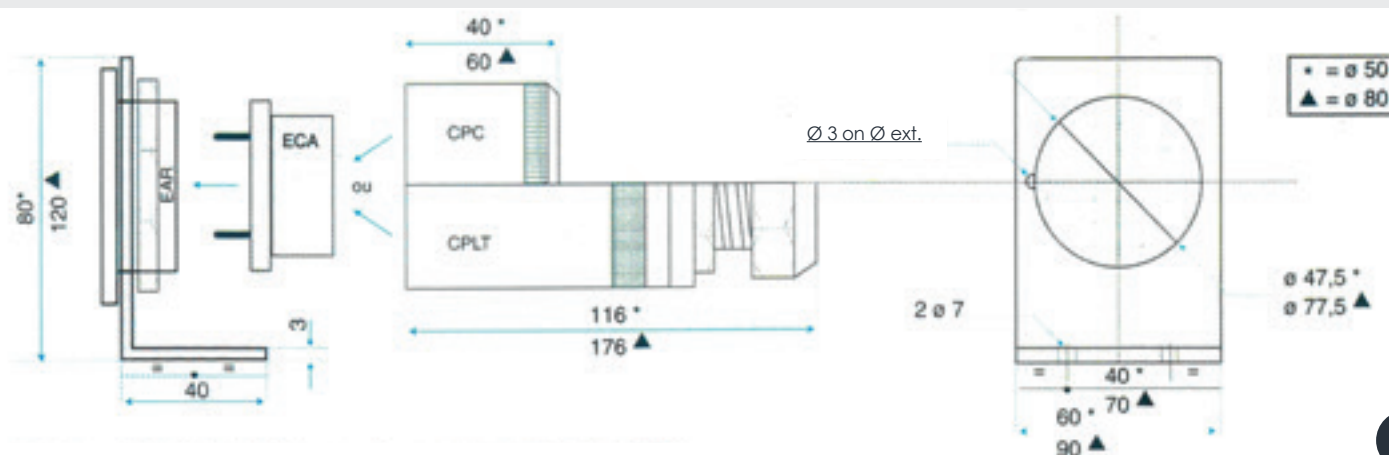
Capot long ø 80

Ref: CPLT80
Code: P203



CHOICE OF A CONNECTOR							REFERENCES				
No. of cross pieces	ø exterior tube	ø of the connector	ø of the multitube	Size of the cable gland	Clamping capacity of the cable gland	Thickness cabinet base support	Attachment bracket	Cabinet base EAR	Cover base ECA	Short cover CPC	Long cover CPLT
7	4	50	15,5	PG 29	25 to 15mm	1 to 4 mm	P 205	P 004	P 104	P 200	P 202
12	4	50	20,5	PG 29	25 to 15mm	1 to 4 mm	P 205	P 005	P 105	P 200	P 202
21	4	80	23,5	PG 29	25 to 15mm	1 to 6 mm	P 206	P 018	P108	P 201	P 203
7	6	50	21,5	PG 29	25 to 15mm	1 to 4 mm	P 205	P 009	P109	P 200	P 202
12	6	80	28,5	PG 42	38 to 25mm	1 to 4 mm	P 206	P 010	P110	P 201	P 203
2	8	50	19,5	PG 29	25 to 15mm	1 to 6 mm	P 205	P 011	P111	P 200	P 202
4	8	50	23	PG 29	25 to 15mm	1 to 4 mm	P 205	P 012	P112	P 200	P 202
7	8	80	27,5	PG 42	38 to 25mm	1 to 6 mm	P 206	P 013	P113	P 201	P 203
12	8	80	36,5	PG 42	38 to 25mm	1 to 6 mm	P 206	P 014	P114	P 201	P 203
2	10	50	23,5	PG 29	25 to 15mm	1 to 6 mm	P 205	P 015	P115	P 200	P 202
4	10	80	27,5	PG 42	38 to 25mm	1 to 6 mm	P 206	P 016	P116	P 201	P 203
7	10	80	33,5	PG 42	38 to 25mm	1 to 6 mm	P 206	P 017	P117	P 201	P 203

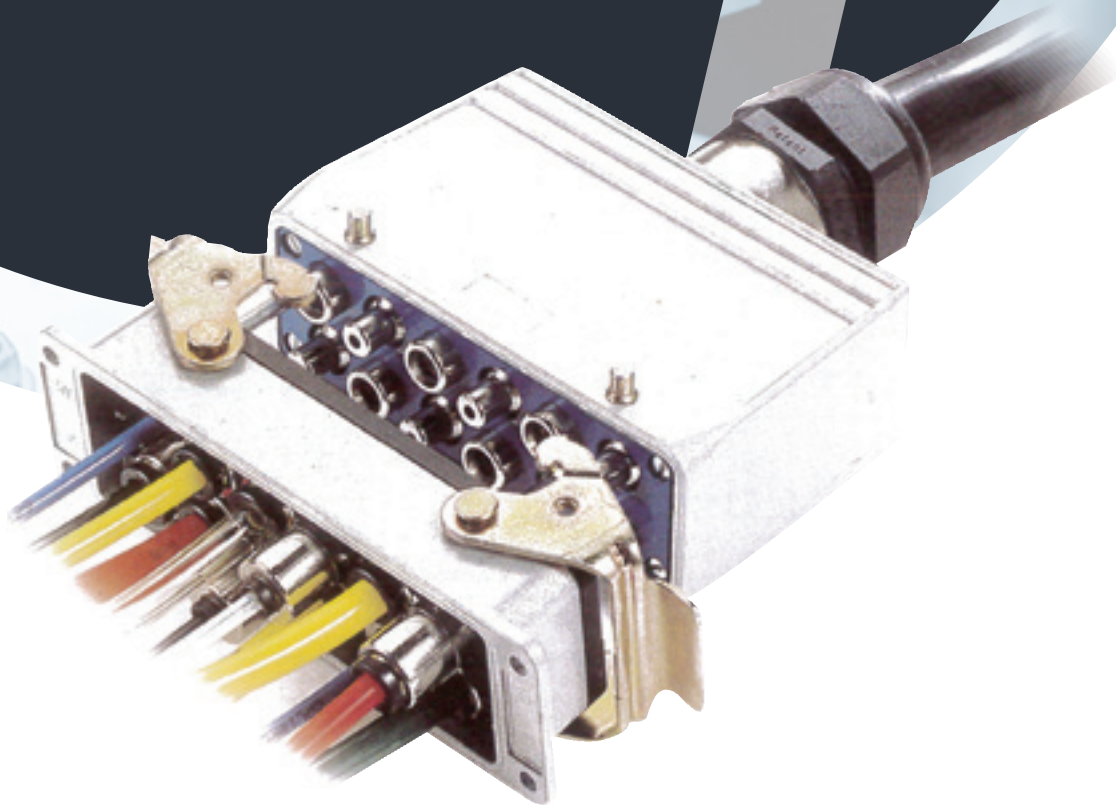
MOUNTING



RECTANGULAR PNEUMATIC CONNECTOR

Adjustable (ø 4-6-8) without tools

Allows for the simultaneous connection of 12 circuits of different diameters (4-6-8). Allows for selective disconnection under pressure as a function of the choice of the inserts.



ADVANTAGES

Composition of the disconnect according to your choice (without tools)

- Mounting of inserts with pins
 - Mounting of inserts of different cross sections on one track
 - Total diversity of inserts 4-6-8.
- Allows for selective disconnection under pressure as a function of the choice of the female inserts

CHARACTERISTICS

- Anodized aluminum alloy and nickel-plated brass for the inserts
- From 1 to 12 full passage tubes or with flap (ø 4-6-8)
- Standardized connectors
- Rectangular cutting with die
- Pressure 12 bars
- Mistake-proof assembly

Protective cover

Ref: CPC12
Code: M9500055

Cover

Ref: CRX 12 PG42
Code: P450

Cover

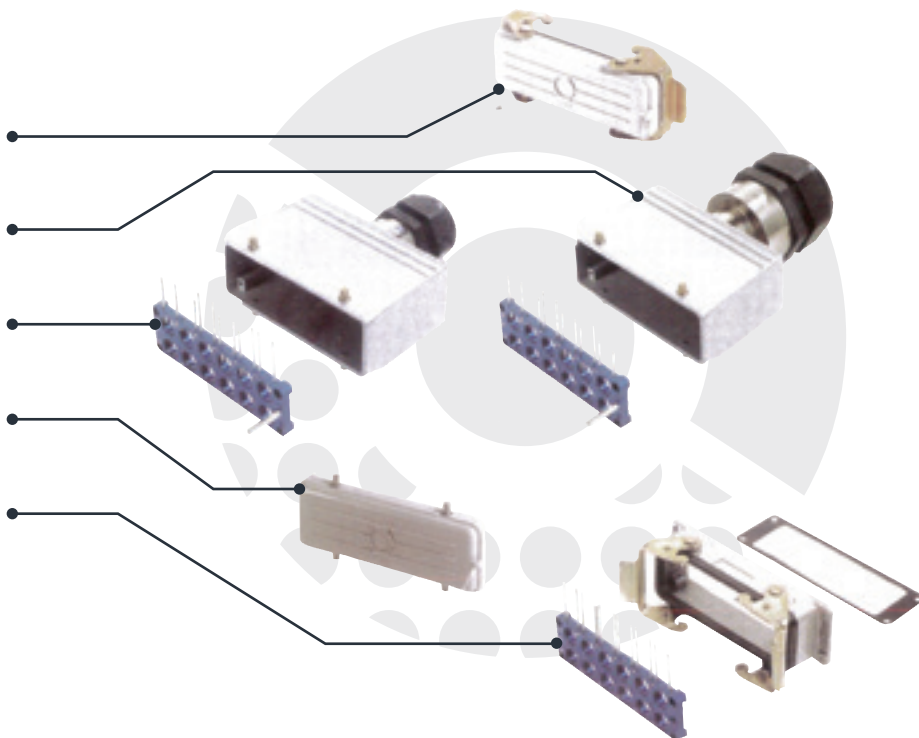
Ref: CRX 12 PG29
Code: P451

Protective cover

Ref: CPE12
Code: M9500052

Base

Ref: ERX12
Code: P452



MALE INSERTS

Ref: IM4
Code: P453

Ref: IM6
Code: P454

Ref: IM8
Code: P455



FEMALE INSERTS

Ref: IF4
Code: P456

Ref: IF6
Code: P457

Ref: IF8
Code: P458



SELF-SEALABLE FEMALE

Ref: IFA4
Code: P459

Ref: IFA6
Code: P460

Ref: IFA8
Code: P461



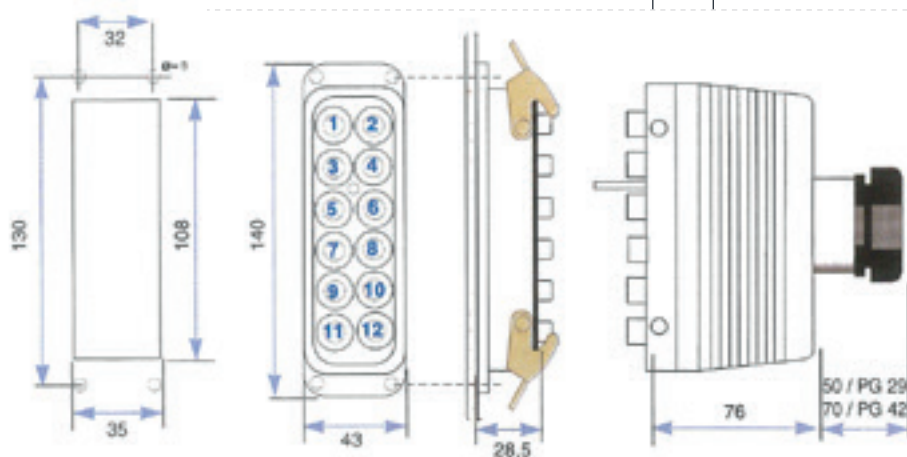
ENCUMBRANCE

Clamping capacity of the cable glands

PG 29	de ø 15 to 25
PG 42	de ø 25 to 38

Impossibility of mounting in a cover

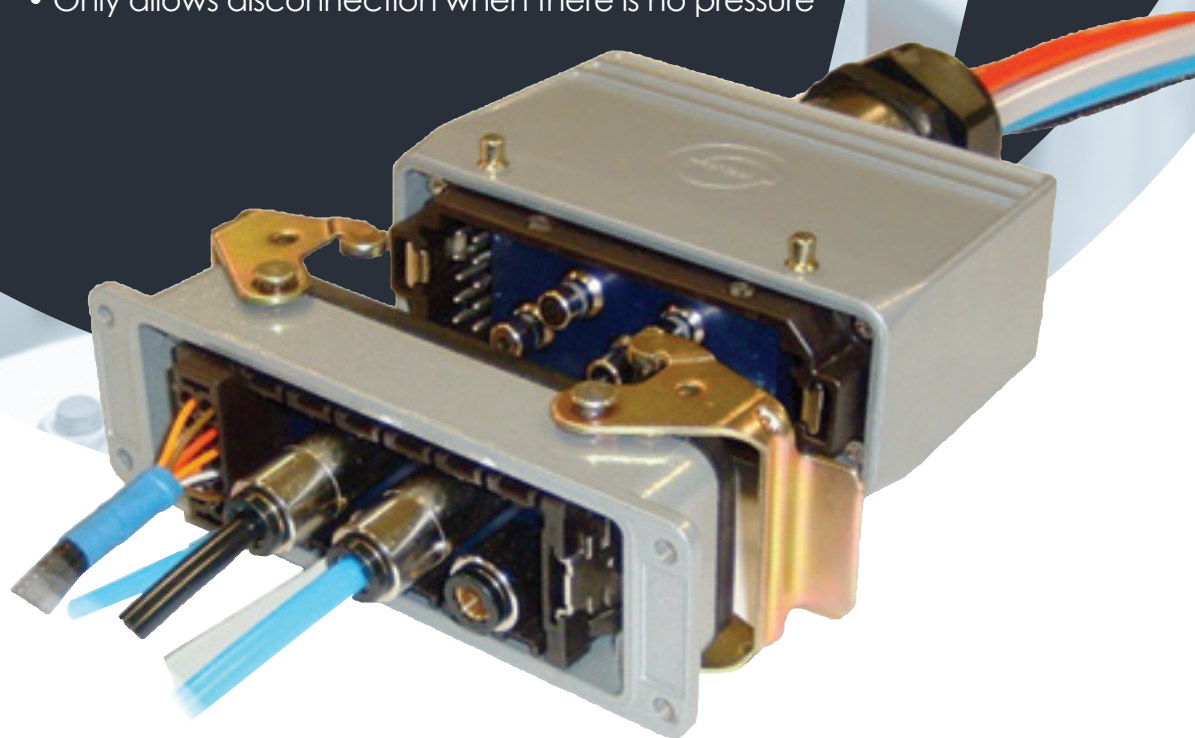
		Tube ø8
Male Insert	IM	1-2-11-12
Female Insert	IF	1-2-11-12
Self-Sealable Female Insert	IFA	1-2-3-4-9-10-11-12



RECTANGULAR ELECTROPNEUMATIC CONNECTOR

Adjustable

- Provides simultaneous connection of
- 12 pneumatic circuits of various diameters (4-6-8)
 - electrical signals (see table)
 - Only allows disconnection when there is no pressure



Protective cover

Ref: CPC12
Code: M9500055

Cover

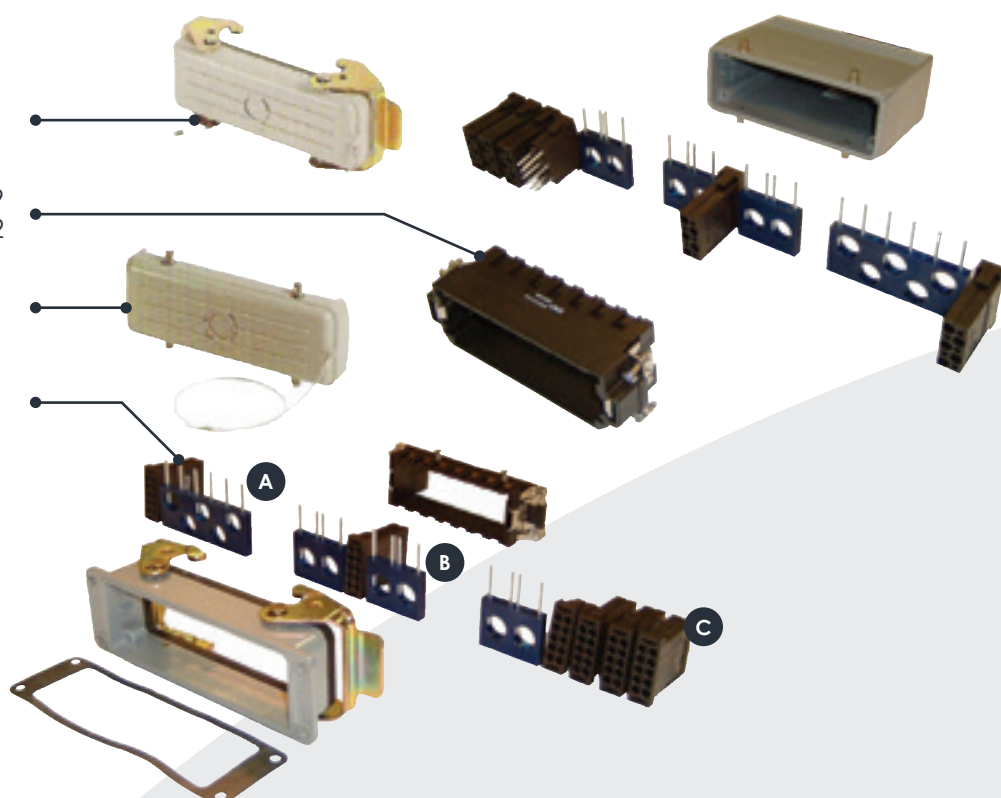
Ref: CRX 12 PG29
Ref: CRX 12 PG42

Protective cover

Ref: CPE12
Code: M9500052

Base

Ref: ERX 12
Code: P452



COMPOSITION OF THE CONNECTOR OF YOUR CHOICE

COVER (PG ø 29 or 42)			BASE			
Pneumatic Part	Electrical part	Protection	Version	Pneumatic Part	Electrical part	Protection
5 passages ø 4, 6 or 8 male, female, self-sealable - Réf CRX12 PG 29 / 5PP - Réf CRX12 PG 42 / 5PP	1 module: 5,10, or 20 insert contacts male or female	"Cover Ref M9500055"	A	5 passages ø 4, 6 or 8 male, female, self-sealable - Réf ERX12 / 5PP	1 module: 5,10, or 20 insert contacts male or female	Cover Ref M9500052
4 passages ø 4, 6 or 8 male, female, self-sealable - Réf CRX12 PG 29 / 4PP - Réf CRX12 PG 42 / 4PP	1 module: 5,10, or 20 insert contacts male or female		B	4 passages ø 4, 6 or 8 male, female, self-sealable - Réf ERX12 / 4PP	1 module: 5,10, or 20 insert contacts male or female	
2 passages ø 4, 6 or 8 male, female, self-sealable - Réf CRX12 PG 29 / 2PP - Réf CRX12 PG 42 / 2PP	1 à 4 modules: 5,10, or 20 insert contacts male or female		C	2 passages ø 4, 6 or 8 male, female, self-sealable - Réf ERX12 / 2PP	1 à 4 modules: 5,10, or 20 insert contacts male or female	

COMPOSITION OF THE VARIOUS ELEMENTS OF THE CONNECTOR

PNEUMATIC PART			INSERTS				
Designation	Reference	Code		ø			
Bases and insert supports, pneumatic and electric	ERX 12 / 2 PP	P462	Male	4	IM 4	P453	
	ERX 12 / 4 PP	P463		6	IM 6	P454	
	ERX 12 / 5 PP	P464		8	IM 8	P455	
Cover PG 29 and insert supports, pneumatic and electric	CRX 12 PG 29 / 2PP	P465	Female	4	IF 4	P456	
	CRX 12 PG 29 / 4PP	P466		6	IF 6	P457	
	CRX 12 PG 29 / 5PP	P467		8	IF 8	P458	
Cover PG 42 and insert supports, pneumatic and electric	CRX 12 PG 42 / 2PP	P468	Self-sealable	4	IFA 4	P459	
	CRX 12 PG 42 / 4PP	P469		6	IFA 6	P460	
	CRX 12 PG 42 / 5PP	P470		8	IFA 8	P461	
			Protective cover base		CPE 12	M9500052	
			Protective cover base		CPC12	M9500055	

ELECTRICAL PART							
Modules			Crimp Contacts				
Inserts	Ref	Code	ø	Type	ø of connection	Ref	Code
5 male contacts 400V-/20A	M5M	P471	2,5mm	male turned	0,75 - 1 mm²	CMT 2,5 - 1	P477
					female turned	CMT 2,5 - 1,5	P478
					male turned	CMT 2,5 - 2,5	P479
5 female contacts 400V-/20A	M5F	P472		female turned	0,75 - 1 mm²	CFT 2,5 - 1	P480
					male stamped	CFT 2,5 - 1,5	P481
					female stamped	CFT 2,5 - 2,5	P482
10 male contacts 250V-/10A	M10M	P473	1,6mm	male turned	0,75 - 1 mm²	CMT 1,6 - 0,5	P483
					1,5 mm²	CMT 1,6 - 1	P484
					2,5 mm²	CFT 1,6 - 1,5	P485
10 female contacts 250V-/10A	M10F	P473		female turned	0,75 - 1 mm²	CFT 1,6 - 0,5	P486
					1,5 mm²	CFT 1,6 - 1	P487
					2,5 mm²	CFT 1,6 - 1,5	P488
20 contacts mâle 250V-/10A	M20M	P475	1mm	male stamped	0,80 - 0,2 mm²	CME 1 - 0,2	P489
					0,2 - 0,52 mm²	CME 1,6 - 0,5	P490
20 male contacts 250V-/10A"	M20F	P476		female stamped	0,80 - 0,2 mm²	CFE 1 - 0,2	P491
					0,2 - 0,52 mm²	CFE 1,6 - 0,5	P492



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