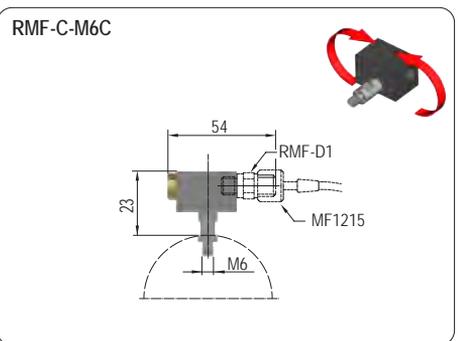
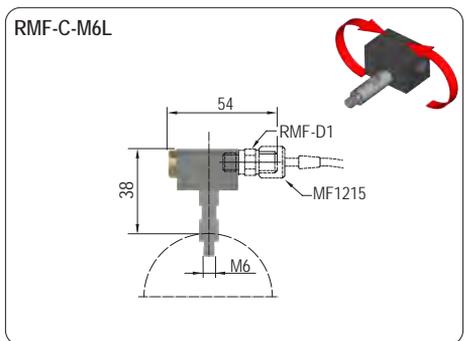
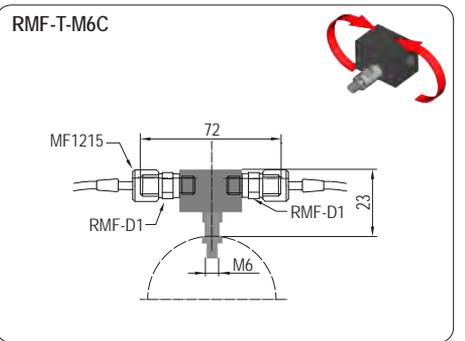
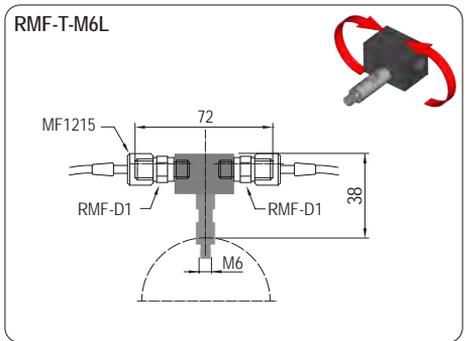
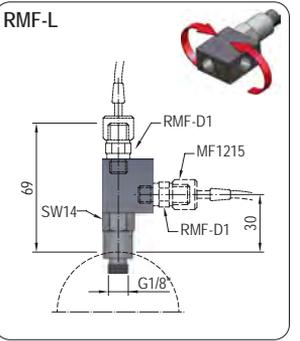
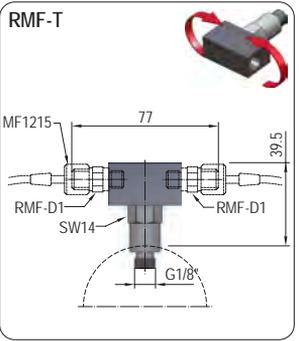
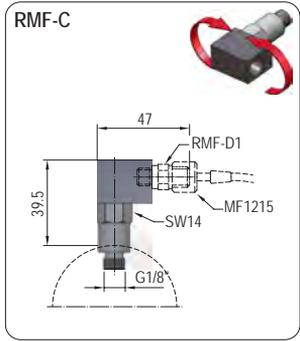
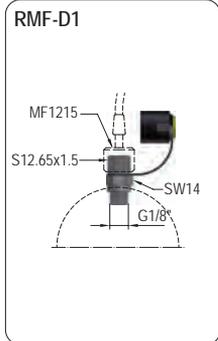


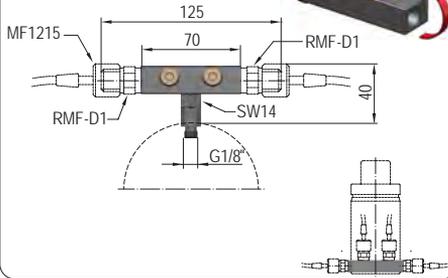


- i**
- MICRO
- TITAN
- TPH
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- TPK
- TPC
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- TPB
- TPHC
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- TPCT
- TPSL
- STOP CYLINDER
- STOP CYLINDER
- TPSR
- TPSRS
- TPNS
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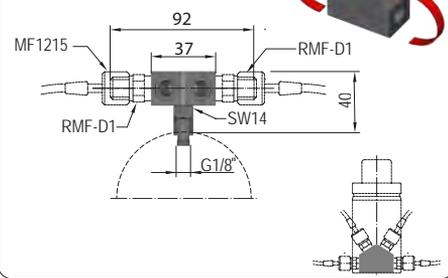




### RMF-M

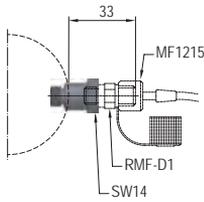


### RMF-MC



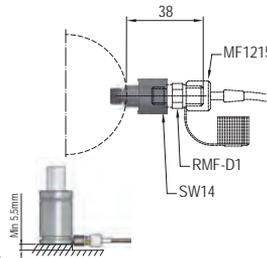
### RMF-R

G1/8 male - G1/8 female

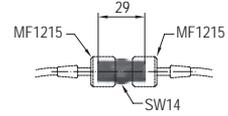


### RMF-R-M6

M6 male - G1/8 female



### RMF-FH



Installation sample  
Gas spring (linked) + RMF-T



Installation sample  
Gas spring (linked) + RMF-C



Installation sample  
Gas spring (linked) + RMF-L



Installation sample  
Gas spring (linked) + RMF-T-M6L



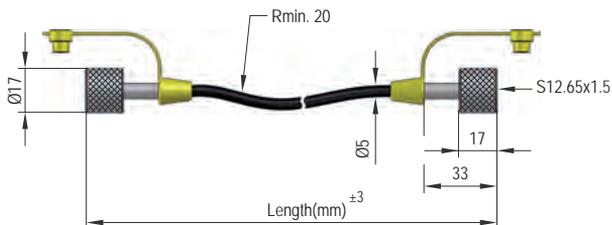
- i**
- MICRO
- TITAN
- TPH
- TPS
- TPSP
- TPF
- TPK
- TPC
- TPR
- TPB
- TPHC
- TPA
- TPG
- TPCT
- TPSL
- STOP CYLINDER
- STOP CYLINDER
- TPSR
- TPSRS
- TPNS
- TPHT
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**FLEXIBLE HOSE MF 1215-RR**


How to order

**MF1215-RR - 500**

Code	Length
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**TECHNICAL INFORMATION**

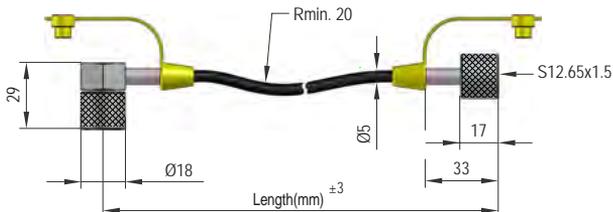
Max. working pressure	630 Bar
Max. working temperature	100 °C
Minimum length	100 mm

**FLEXIBLE HOSE MF 1215-RC**


How to order

**MF1215-RC - 350**

Code	Length
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**TECHNICAL INFORMATION**

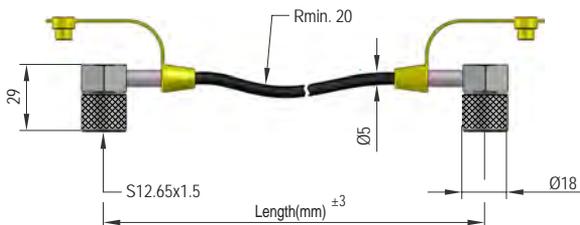
Max. working pressure	630 Bar
Max. working temperature	100 °C
Minimum length	120 mm

**FLEXIBLE HOSE MF 1215-CC**


How to order

**MF1215-CC - 250**

Code	Length
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**TECHNICAL INFORMATION**

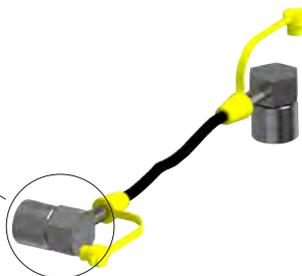
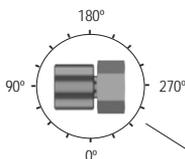
Max. working pressure	630 Bar
Max. working temperature	100 °C
Minimum length	120 mm

**FLEXIBLE HOSE Other Configurations**

How to order

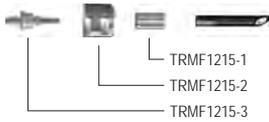
**MF1215-CC - 250 - 90°**

Code	Length	Angle
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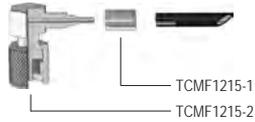




### STRAIGHT CONNECTION TRMF1215



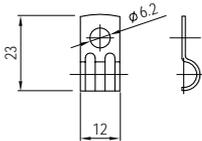
### ANGLE CONNECTION TCMF1215



### HOSE HMF1215



### FLANGE FOR HOSE FIXTURE BL-1



### HOSE INSTALLATION GUIDELINES

Avoid any type of damage on the hoses. Working with high pressure equipment is a serious task and should be done with a lot of respect. Accidents can be avoided with the necessary knowledge and caution.

MICRO

TITAN

TPH

TPS

TPSP

TPF

TPK

TPC

TPR

TPB

TPHC

TPA

TPG

TPCT

TPSL

STOP CYLINDER

STOP CYLINDER

TPSR

TPSRS

TPNS

TPHT

STOP CYLINDER

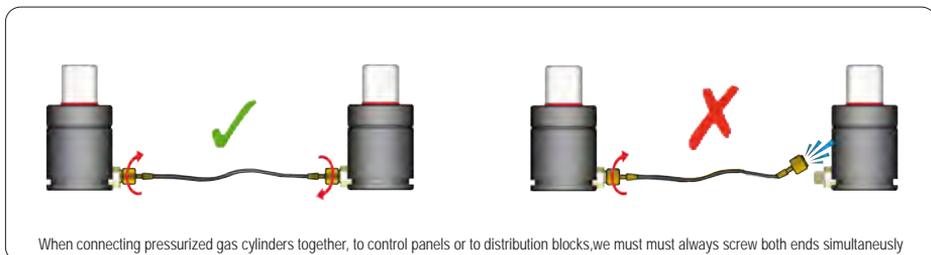
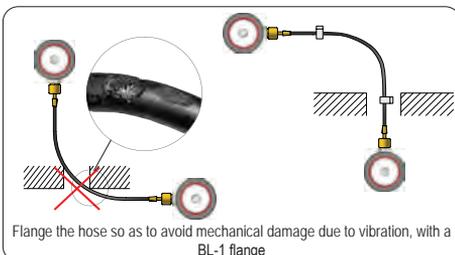
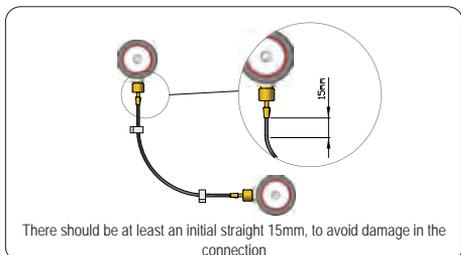
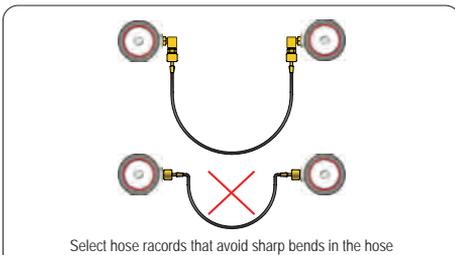
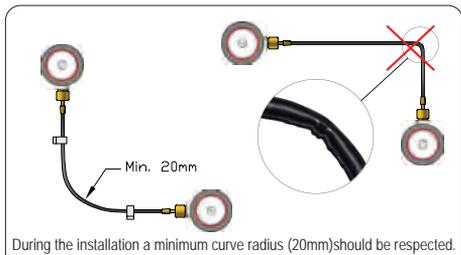
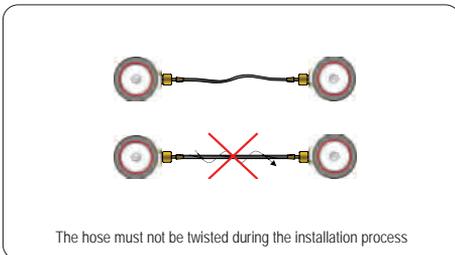
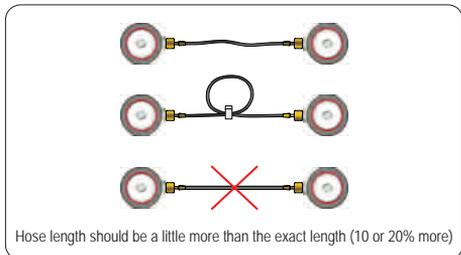
STOP CYLINDER

STOP CYLINDER

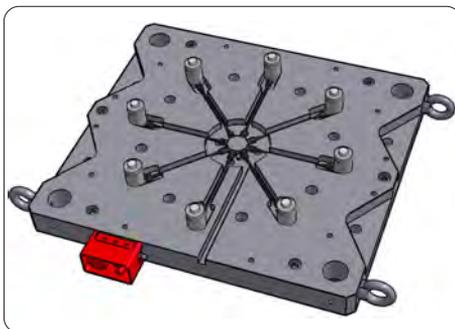
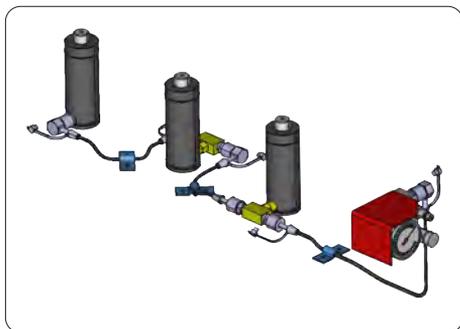
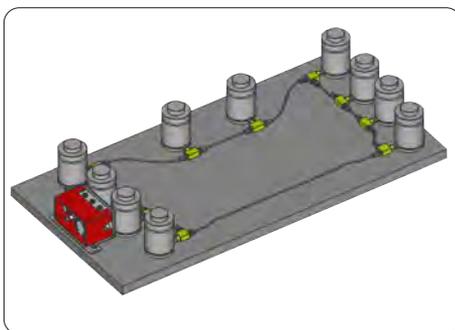
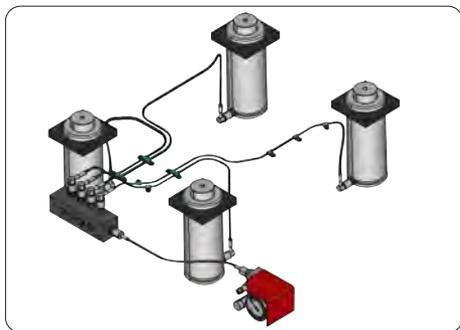
STOP CYLINDER

STOP CYLINDER

STOP CYLINDER



## EXAMPLES OF INTERCONNECTED GAS SPRINGS

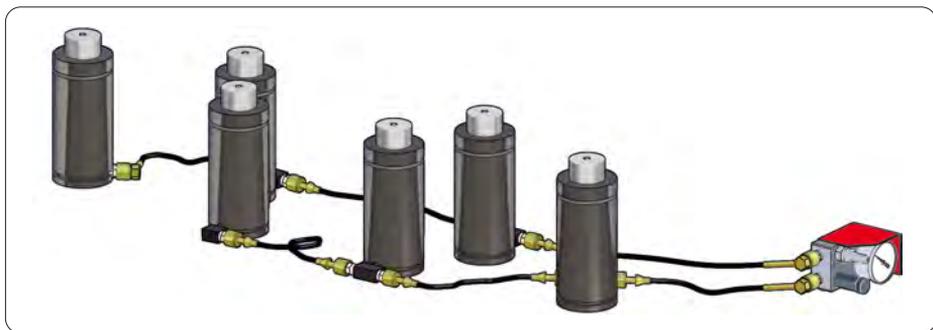
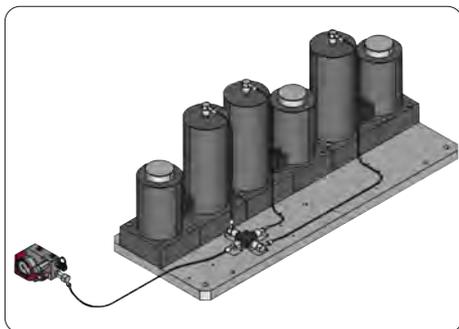
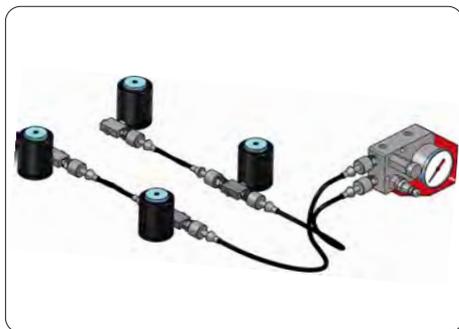
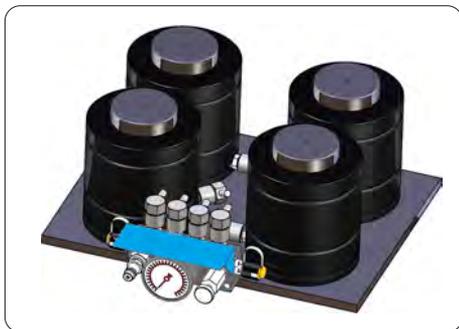
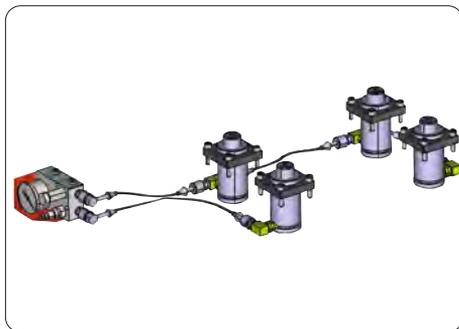
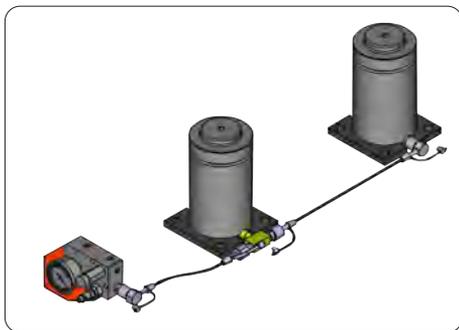

**PARTS LIST:**

- ▶ 6 off GAS SPRING TPS series
- ▶ 6 off racord RMF-T
- ▶ 12 off racord RMF-D1
- ▶ 1 off control panel P110
- ▶ 4 off MF1215-RR-200
- ▶ 1 off MF1215-RC-180
- ▶ 1 off MF1215-CC-600
- ▶ 1 off MF1215-CC-780



EXAMPLES OF INTERCONNECTED GAS SPRINGS

- i**
- MICRO
- TITAN
- TPH
- TPS
- TPSP
- TPF
- TPK
- TPC
- TPR
- TPB
- TPHC
- TPA
- TPG
- TPCT
- TPSL
- STOP CYLINDER
- STOP CYLINDER
- TPSR
- TPSRS
- TPNS
- TPHT
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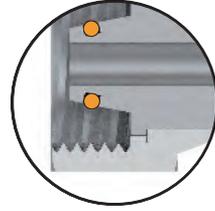
## Seal 24° series



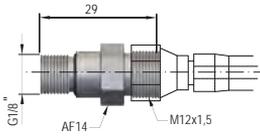
The new seal 24° series system, provides a completely sealed solution for connecting cylinder systems together. Standard G1/8 charging ports, in addition to the vast amount of racords and hose layouts available, always manages to find a solution for your need.



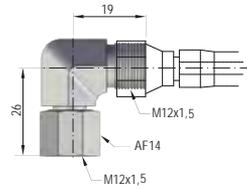
A-A detail



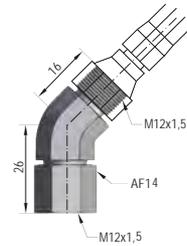
### RC24-1



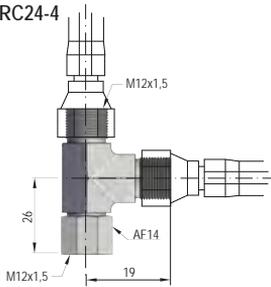
### RC24-2



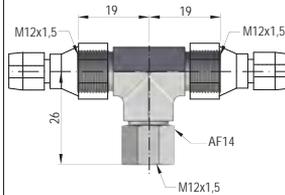
### RC24-3



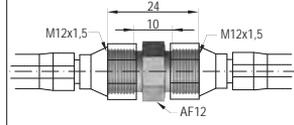
### RC24-4



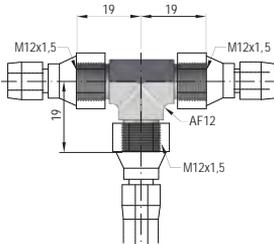
### RC24-5



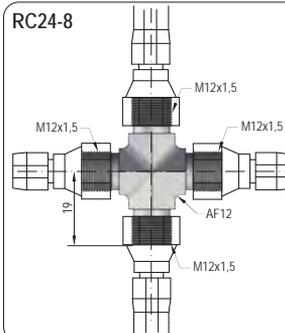
### RC24-6



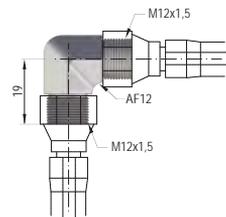
### RC24-7



### RC24-8



### RC24-9



**i**

MICRO

TITAN

TPH

TPS

TPSP

TPF

TPK

TPC

TPR

TPB

TPHC

TPA

TPG

TPCT

TPSL

STOP  
CYLINDER

STOP  
CYLINDER

TPSR

TPSRs

TPNS

TPHT

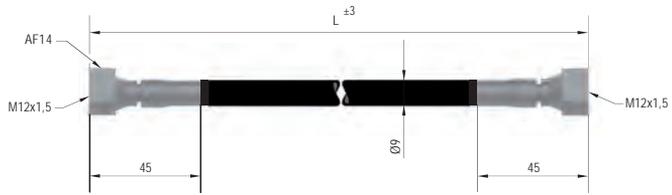


**H24-RR**

How to order

**H24-RR - 500**

Code Length

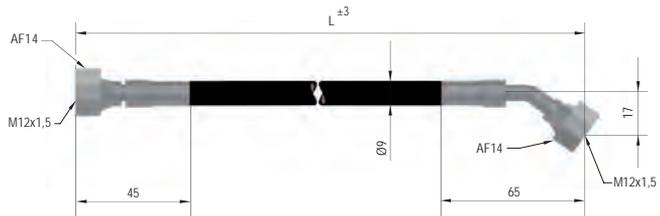


**H24-R45**

How to order

**H24-R45 - 600**

Code Length

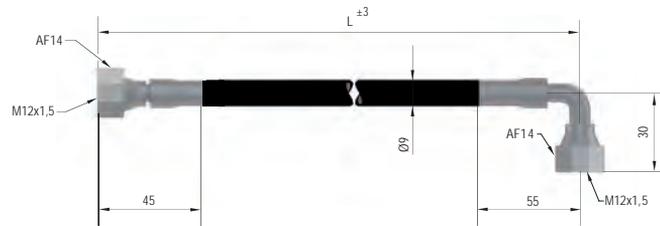


**H24-RC**

How to order

**H24-RC - 400**

Code Length

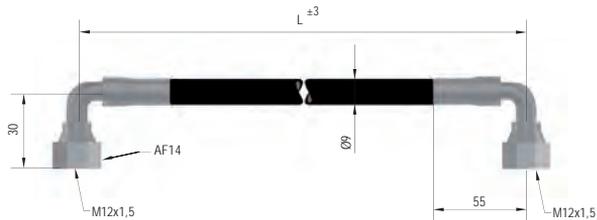


**H24-CC**

How to order

**H24-CC - 1000**

Code Length

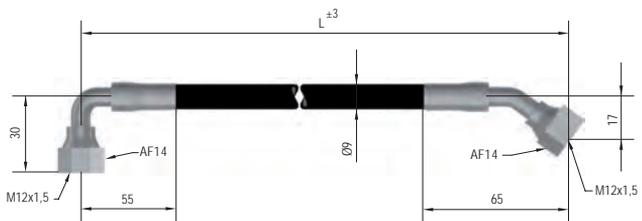


**H24-C45**

How to order

**H24-C45 - 800**

Code Length





## H24 - HOSE SPECIFICATIONS



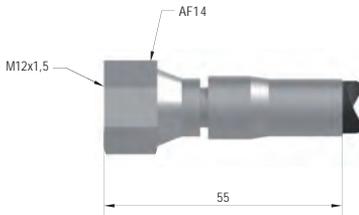
 5 mm

 9 mm

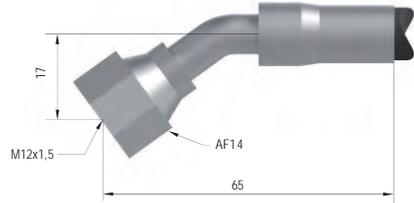
 350 bar

 40 mm

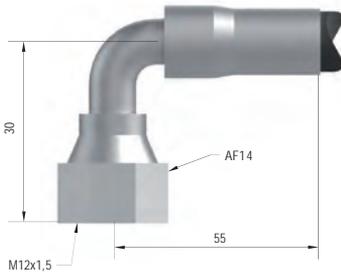
### H24-TR



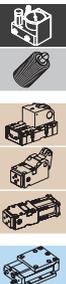
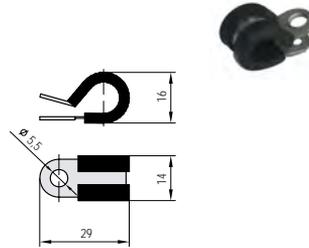
### H24-T45



### H24-TC



### FLANGE FOR HOSE FIXTURE BMP





i

MICRO

TITAN

TPH

TPS

TPSP

TPF

TPK

TPC

TPR

TPB

TPHC

TPA

TPG

TPCT

TPSL

STOP  
CYLINDER

STOP  
CYLINDER

TPSR

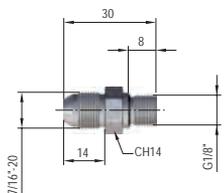
TPSRS

TPNS

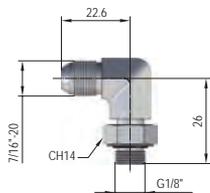
TPHT



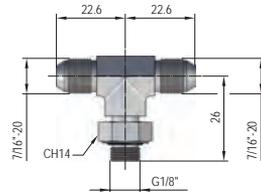
RCF-1



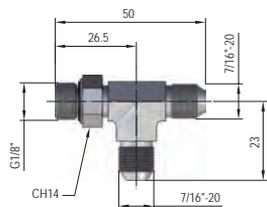
RCF-2



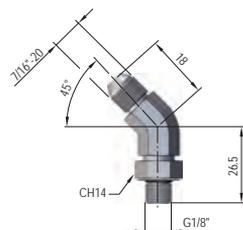
RCF-3



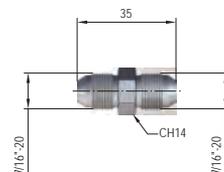
RCF-4



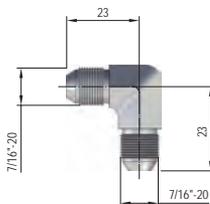
RCF-5



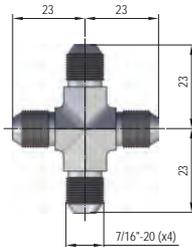
RCF-6



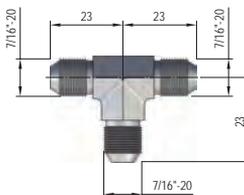
RCF-7



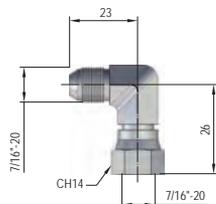
RCF-8



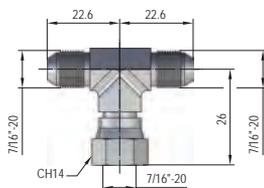
RCF-9



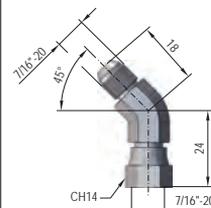
RCF-10



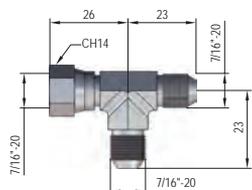
RCF-11



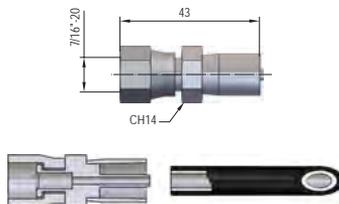
RCF-12



**RCF-13**



**RCF-14**



**MPF HOSE SPECIFICATIONS**



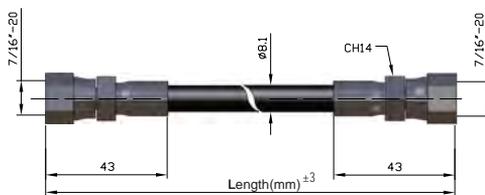
**MP HOSE**



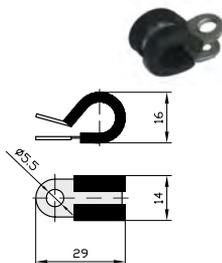
How to order

**MP-RR - 500**

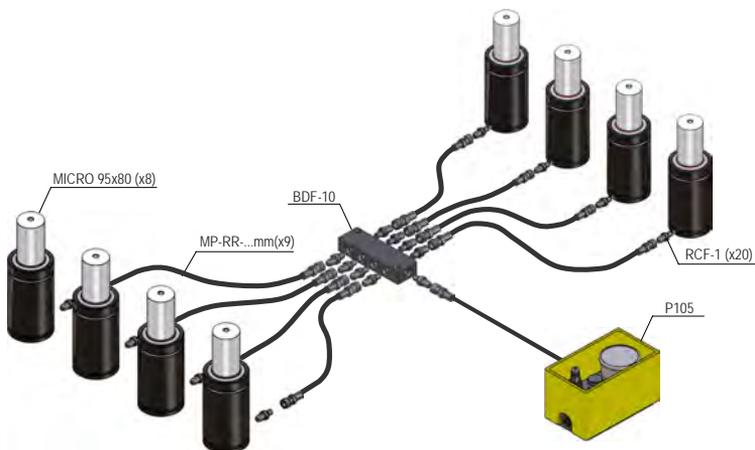
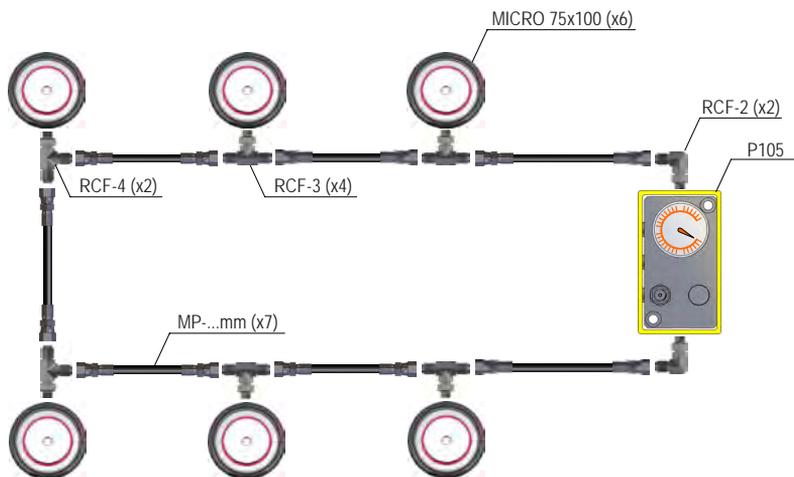
Code Length



**FLANGE FOR HOSE FIXTURE  
BMP**



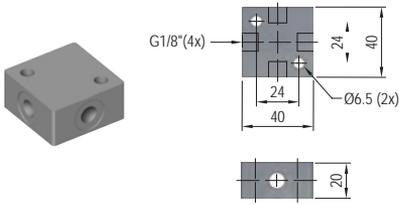
EXAMPLES OF INTERCONNECTED GAS SPRINGS  
JIC 37° SYSTEMS



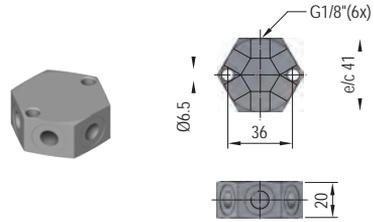
- i**
- MICRO
- TITAN
- TPH
- TPS
- TPSP
- TPF
- TPK
- TPC
- TPR
- TPB
- TPHC
- TPA
- TPG
- TPCT
- TPSL**
- STOP CYLINDER
- STOP CYLINDER
- TPSR
- TPSRS
- TPNS
- TPHT
- 
- 
- 
- 
-



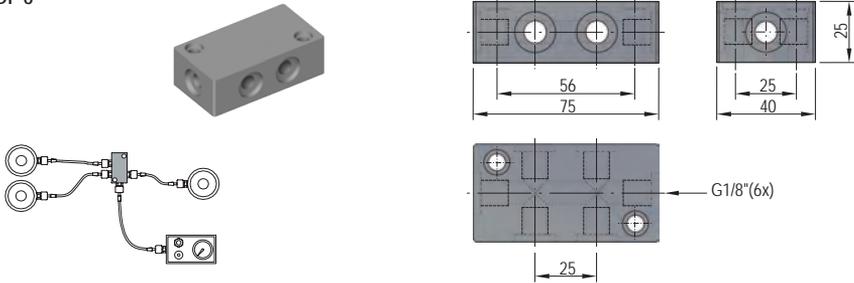
### DISTRIBUTION BLOCK BD 4



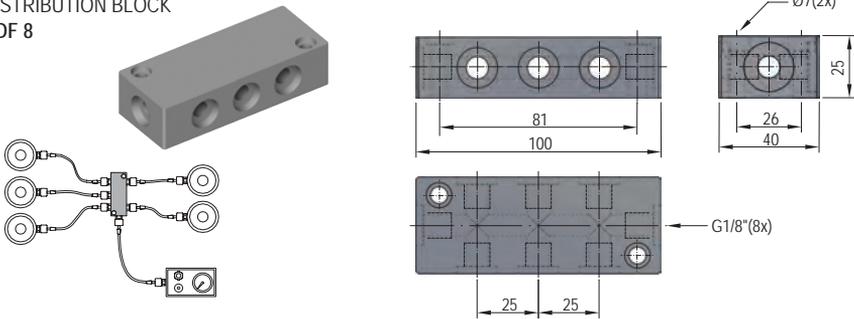
### DISTRIBUTION BLOCK BD 6 HEX



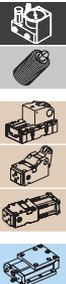
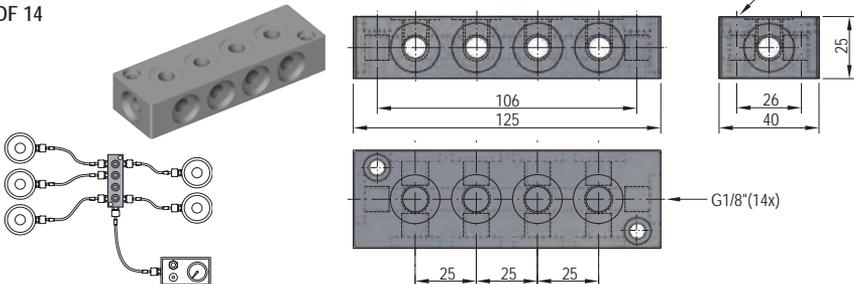
### DISTRIBUTION BLOCK BDF 6



### DISTRIBUTION BLOCK BDF 8



### DISTRIBUTION BLOCK BDF 14



**i**

MICRO

TITAN

TPH

TPS

TPSP

TPF

TPK

TPC

TPR

TPB

TPHC

TPA

TPG

TPCT

TPSL

STOP

STOP

TPSR

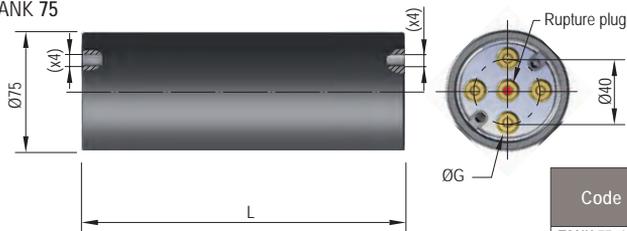
TPSRS

TPNS

TPHT

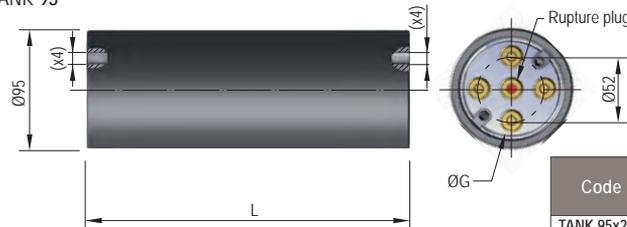




**TANK 75**


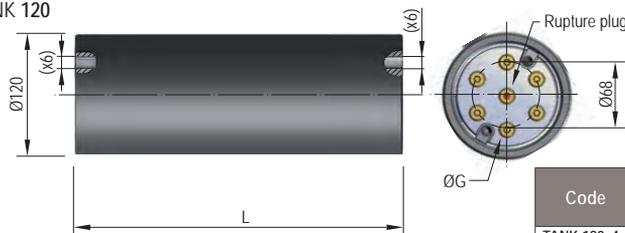
Code	Vol l	L mm	 P Bar	ØG
TANK 75x05	0,5	200	300 max!	G1/8"
TANK 75x1	1,0	360		G1/4"
TANK 75x05-1	0,5	200	300 max!	G1/4"
TANK 75x1-1	1,0	360		G1/4"

Use only with records and hoses JIC 37° / H24°

**TANK 95**


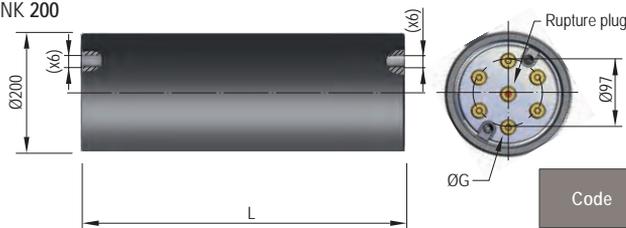
Code	Vol l	L mm	 P Bar	ØG
TANK 95x2	2,0	410	300 max!	G1/8"
TANK 95x3	3,0	650		G1/4"
TANK 95x2-1	2,0	410	300 max!	G1/4"
TANK 95x3-1	3,0	650		G1/4"

Use only with records and hoses JIC 37° / H24°

**TANK 120**


Code	Vol l	L mm	 P Bar	ØG
TANK 120x4	4,0	560	300 max!	G1/8"
TANK 120x5	5,0	690		G1/4"
TANK 120x4-1	4,0	560	300 max!	G1/4"
TANK 120x5-1	5,0	690		G1/4"

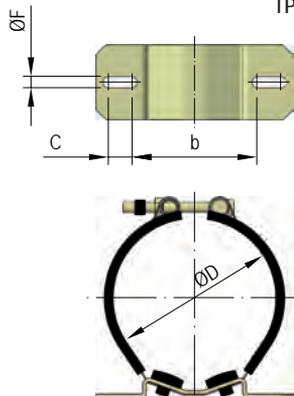
Use only with records and hoses JIC 37° / H24°

**TANK 200**


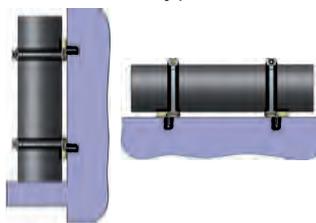
Code	Vol l	L mm	 P Bar	ØG
TANK 200x8	8,0	415	300 max!	G1/8"
TANK 200x10	10,0	500		G1/4"
TANK 200x8-1	8,0	415	300 max!	G1/4"
TANK 200x10-1	10,0	500		G1/4"

Use only with records and hoses JIC 37° / H24°

**TANK CLAMPS  
TPAT**



**Assembly possibilities**

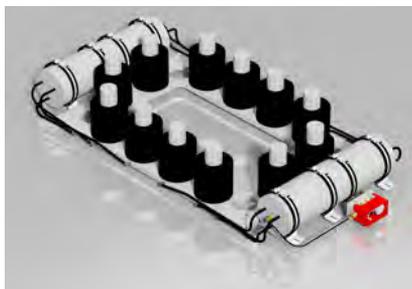


Code	Tank model	ØD mm	b mm	C mm	ØF mm
TPAT 75	TANK 75	75	85	8	9
TPAT 95	TANK 95	95	85	8	9
TPAT 120	TANK 120	120	100	18	9
TPAT 200	TANK 200	200	152	32	9

**Examples of application**



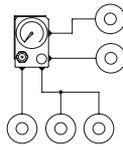
**Design & manufacture**



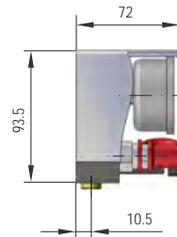
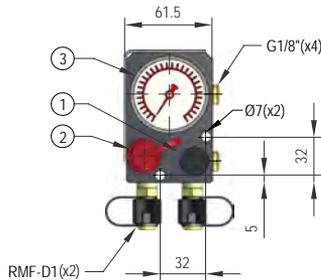


## MINI CONTROL PANEL P110

- i**
- MICRO
- TITAN
- TPH
- TPS
- TPSP
- TPF
- TPK
- TPC
- TPR
- TPB
- TPHC
- TPA
- TPG
- TPCT



Max. 4 connectors



1. Discharge VD-1 valve
2. Quick coupling for charging ERM
3. Pressure MP-1 gauge

Mini-control panel: this small-sized device is used for the permanent control of gas-spring pressure. It is equipped with a quick-fit socket for gas charging and a discharging valve for decompression. P110 control panels have up to 4 G1/8" outlets for a gas spring interconnection. Pressure gauge range is from 0 to 400 Bar.

- STOP CYLINDER
- STOP CYLINDER

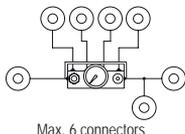
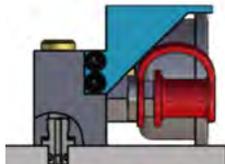
## COMPACT CONTROL PANEL P120

- TPSR
- TPSR
- TPNS
- TPHT

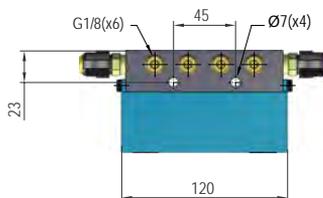
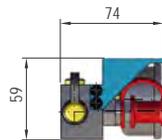
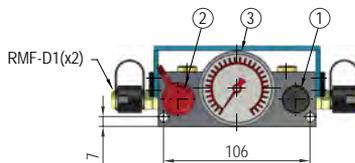
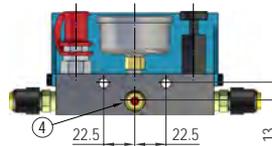


✓ EASY WAY TO USE WITH ECO-MANIFOLD SYSTEM!

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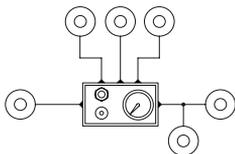
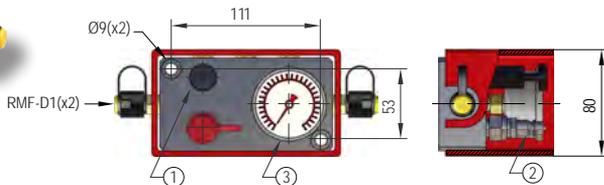
Max. 6 connectors



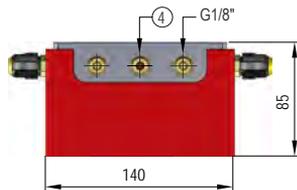
1. Discharge VD-1 valve
2. Quick coupling for charging ERM
3. Pressure MP-1 gauge
4. Eco-manifold port

Compact control panel: this compact-sized device is used for the permanent control of gas-spring pressure. It is equipped with a quick-fit socket for gas charging and a discharging valve for decompression. P120 control panels have up to 7 G1/8" outlets for a gas spring interconnection. Pressure gauge range is from 0 to 400 Bar.

## CONTROL PANEL P100



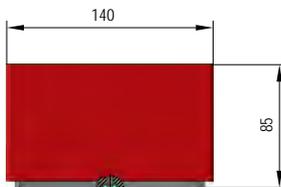
Max. 5 connectors



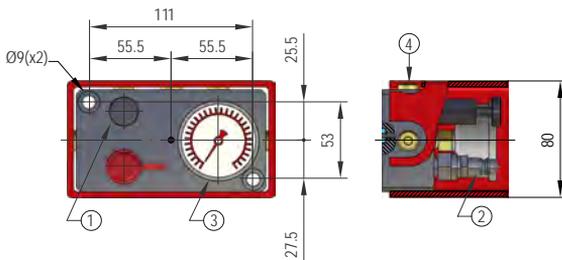
1. Discharge VD-1 valve
2. Quick coupling for charging ERM
3. Pressure MP-1 gauge
4. Over-pressure safety plug

Standard control panel. This device is used for permanently controlling gas spring pressure. It is equipped with a quick-fit socket and discharging valve for decompression. The P100 control panel has up to 5 G1/8 outlets for interconnecting gas springs. Pressure gauge range is from 0 to 400 Bar.

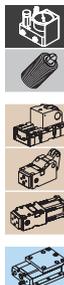
## CONTROL PANEL FOR MANIFOLD PLATE P100M



1. Discharge VD-1 valve
2. Quick coupling for charging ERM
3. Pressure MP-1 gauge
4. Over-pressure safety plug

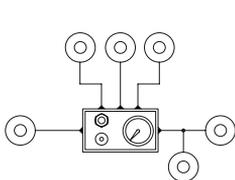
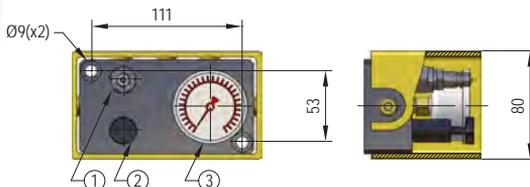


Standard control panel with a rear outlet for manifold plates: this device is used for the permanent control of gas springs interconnected by means of a manifold plate. It is equipped with a quick-fit socket for gas charging and a discharging valve for decompression. Pressure gauge range is from 0 to 400 Bar.

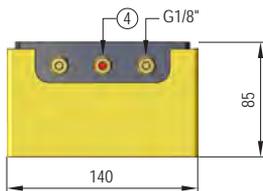


**CONTROL PANEL P105**

- i**
- MICRO
- TITAN
- TPH
- TPS
- TPSP
- TPF
- TPK
- TPC
- TPR
- TPB
- TPHC
- TPA
- TPG
- TPCT



Max. 5 connectors

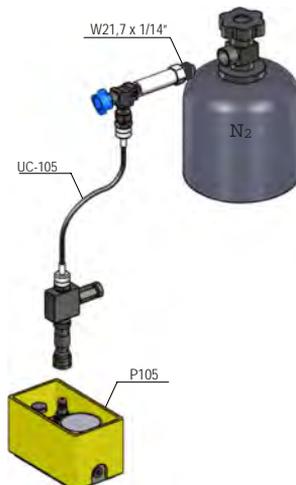


1. Quick coupling for charging ERMF
2. Discharging VD-1 valve
3. Pressure MP-1 gauge
4. Over-pressure safety plug

Standard control panel. This device is used for permanently controlling gas spring pressure. It is equipped with a quick-fit socket and discharging valve for decompression. The P105 control panel has up to 5 G1/8 outlets for interconnecting gas springs. Pressure gauge range is from 0 to 400 Bar.

**CHARGING UNIT FOT P105 CONTROL PANEL UC-105**

- TPSL
- STOP CYLINDER
- STOP CYLINDER
- TPSR
- TPSRS
- TPNS
- TPHT
- 
- 
- 
- 
- 



The UC-105 charging unit is a charging device for gas springs that are interconnected through P105 or PM201-F control panels.

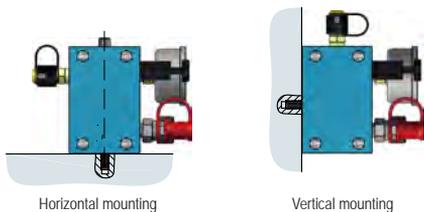
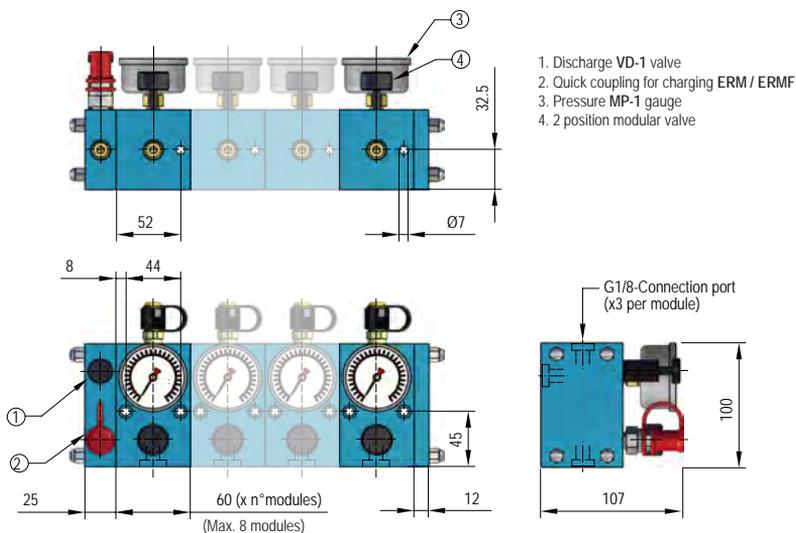
## MULTIPLE CONTROL PANEL PM201



This is the PM201 modular multiple control panel, for controlling linked systems or single gas springs with different working pressure in the same tool, or only to check the pressure individually, for better control.

Each module is manufactured in aluminium and includes pressure gauge and open-closed valve.

A maximum of 8 modules can be connected together with a common filling quick coupling.



### How to order

PM201	-	<b>3</b>		<b>C</b>
Code		Number of modules (Max. 8)		Filling valve

Filling valve type:  
 PM201 - ... - C ERM quick coupling  
 PM201 - ... - F ERMF quick coupling

**CHARACTERISTICS:** each module has three G1/8 outlets for interconnection. The control panel can be assembled on its lower base or on its back. Each model has pressure gauge with a range from 0 to 400 Bar.



**CONTROL PANEL FOR ECO-FANIFOLD PLATES P110 M**

**i**

MICRO

TITAN

TPH

TPS

TPSP

TPF

TPK

TPC

TPR

TPB

TPHC

TPA

TPG

TPCT

TPSL

STOP

STOP

TPSR

TPSRS

TPNS

TPHT

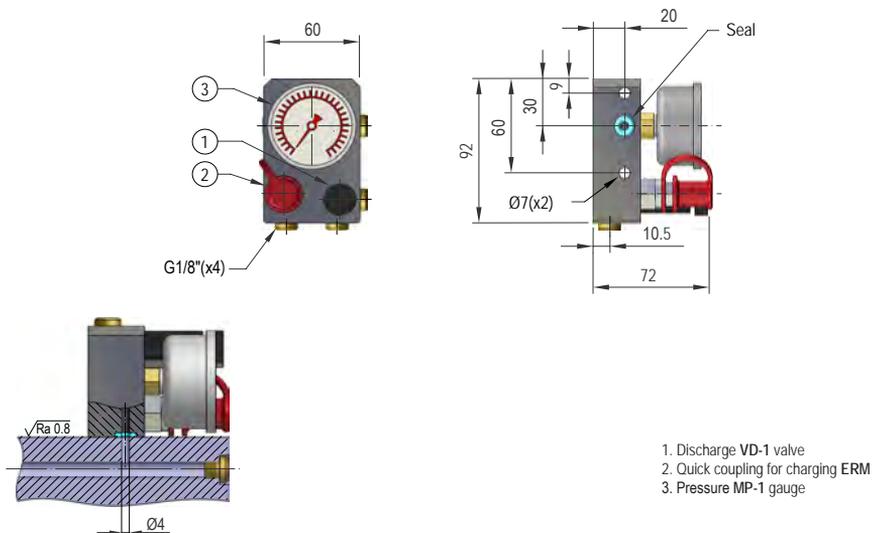
TPHT

TPHT

TPHT

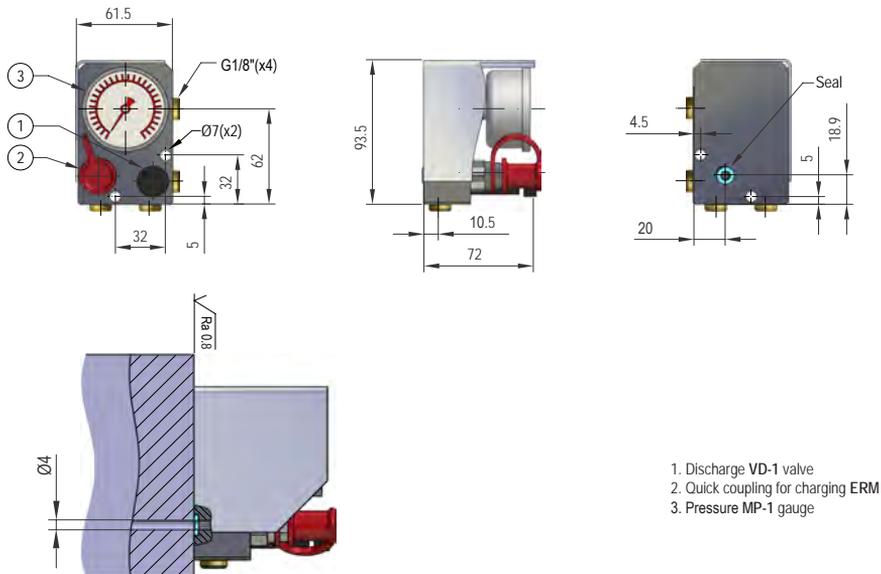
TPHT

TPHT



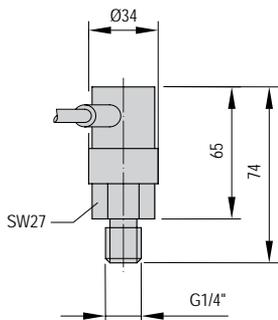
Mini control panel with a side outlet for manifold plates: this device is used for the permanent control of gas springs interconnected by means of a manifold plate. It is equipped with a quick-fit socket for gas charging and a discharging valve for decompression. Pressure gauge range is from 0 to 400 Bar

**CONTROL PANEL FOR ECO-FANIFOLD PLATES P110 EC**

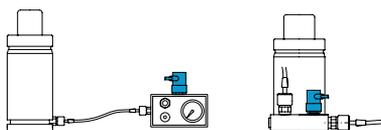
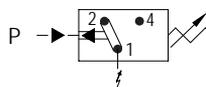


Mini control panel with a rear outlet for manifold plates: this device is used for the permanent control of gas springs interconnected by means of a manifold plate. It is equipped with a quick-fit socket for gas charging and a discharging valve for decompression. Pressure gauge range is from 0 to 400 Bar.

## PRESSURE SWITCH PS-1



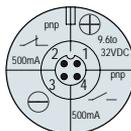
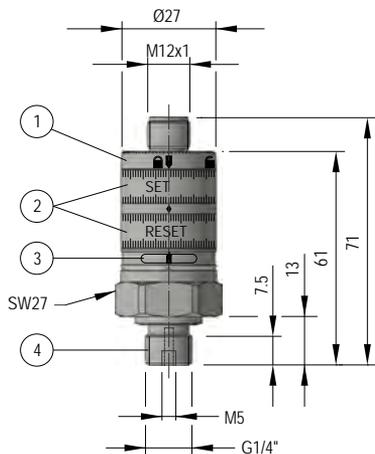
✓ LOWEST COST PRESSURE SWITCH



### TECHNICAL INFORMATION

Work field	50 - 200 Bar
Working temperature	-30°C - +100°C
Operation voltage	4A / 250V
Operating frequency	< 200min <sup>-1</sup>
Mechanical life	10 <sup>6</sup> operating cycles
IP protection	IP 65

## PRESSURE SWITCH PS-2



✓ LOW COST PRESSURE SWITCH FOR PRESSURE CONTROL IN LINKED GAS SPRINGS SYSTEM

✓ EASY TO CONNECT TO THE CONTROL PANEL

- ① Locking ring
- ② Setting ring (manually adjustable after unlocking)
- ③ Green LED: supply voltage OK  
Yellow LED: Set1 value reached, output = ON
- ④ Tightening torque 25Nm

### TECHNICAL INFORMATION

Work field	0 - 400 Bar
Working temperature	-25°C - +80°C
Operation voltage	9.6 to 32 VDC, <25mA
Operating frequency	< 100Hz
Mechanical life	50 <sup>6</sup> operating cycles
IP protection	IP 67
Wiring terminations	4 pin M12 electrical connector

## ELECTRONIC PRESSURE SWITCH PS-5

**i**

MICRO

TITAN

TPH

TPS

TPSP

TPF

TPK

TPC

TPR

TPB

TPHC

TPA

TPG

TPCT

TPSL

 STOP  
CYLINDER

 STOP  
CYLINDER

TPSR

TPSRS

TPNS

TPHT

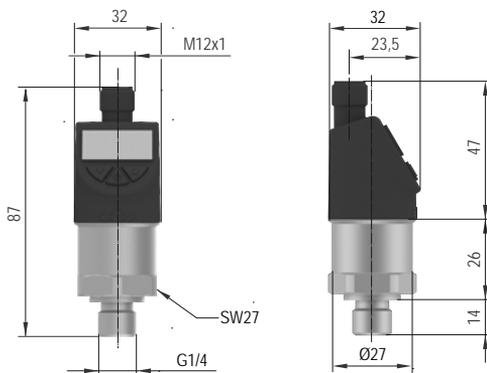


PS-5 pressure switch offers a high level of operating comfort. Their distinguishing characteristic is a slim and compact size, this makes installing easy due to the little space required. It is equipped with a G1/4 inch connection with an outside thread and it can support pressures UP to +600bar.

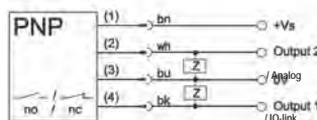
The display can be parameterised such that the light goes green when the value is within the defined pressure and red if not, this allows to determine if the system is operating correctly.

Following installation, the display head can be rotated through 335° and the display tilted electronically though 180°, so that the pressure display is always aligned towards the user.

Among other things, the switching points, release positions, output logic and time delay can be programmed via the membrane keyboard.



### 4-pin



Output 2, selectable between switching, analog and alarm output

### Socket M12 connector, 4-pin



Straight



Angle

### TECHNICAL INFORMATION

Output signal	PNP - Analog (4-20 mA / DC 0-10V) - IO-link (optional)
Switching outputs	OUT1 / OUT2
Pressure range	600 Bar
Operating voltage	15 - 32V DC, <600 mA
Output current (max. load)	250 mA
Switching time	1s
Repeat accuracy	± 0.1% of span
Operating temperature	-25°C - +85°C
IP protection	IP 65
Connection	M12-connector, 4-pin

## CHARGING UNIT FOR AUTONOMOUS GAS SPRINGS UC-102



**UC-102-1 (SPAIN)**

Thread type to N2 bottle - M21,7x1,814 right

**UC-102-2 (GERMANY)**

Thread type to N2 bottle - RH-24,32x1,814 right

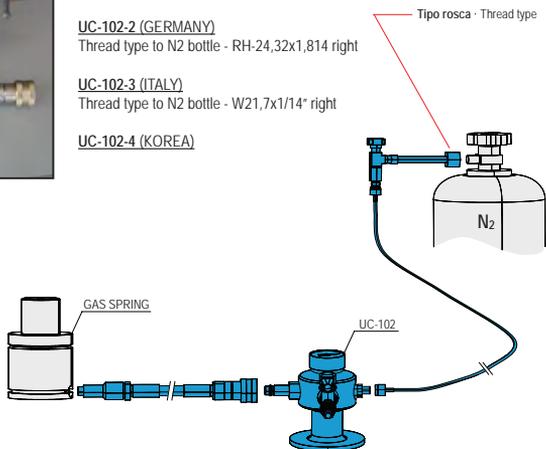
**UC-102-3 (ITALY)**

Thread type to N2 bottle - W21,7x1/14" right

**UC-102-4 (KOREA)**

How to order

UC-102	-	2
Code		Type



The UC-102 charging unit is a charging device for autonomous gas springs. It is supplied with G1/8, M6A, M6-C and M8 hoses and charging couplings.

## CHARGING UNIT FOR CONTROL PANEL UC-103



**UC-103-1 (SPAIN)**

Thread type to N2 bottle - M21,7x1,814 right

**UC-103-2 (GERMANY)**

Thread type to N2 bottle - RH-24,32x1,814 right

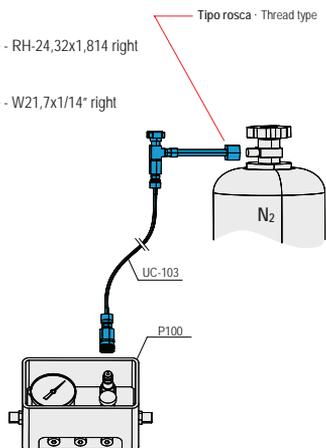
**UC-103-3 (ITALY)**

Thread type to N2 bottle - W21,7x1/14" right

**UC-103-4 (KOREA)**

How to order

UC-103	-	1
Code		Type



The UC-103 charging unit is a charging device for gas springs that are interconnected through a control panel.



**CONTROLUNIT FOR AUTONOMOUS GAS SPRING UC-101.1**
**i**

MICRO

TITAN

TPH

TPS

TPSP

TPF

TPK

TPC

TPR

TPB

TPHC

TPA

TPG

TPCT

TPSL

STOP

CYLINDER

STOP

CYLINDER

TPSR

TPSRS

TPNS

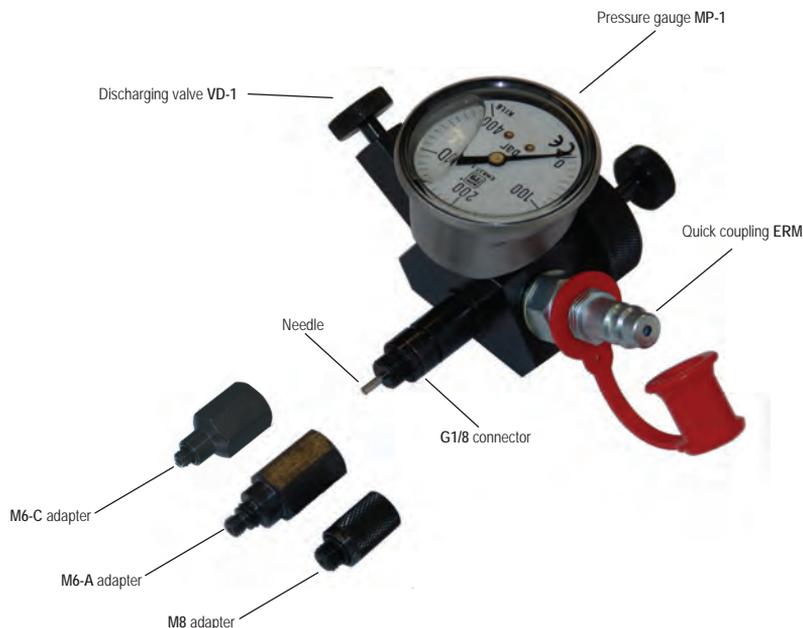
TPHT



The UC 101.1 control unit will allow for charging for all gas springs and also pressure control for gas springs by means of a G1/8 charging port. During pressure-checking operations, there is an approximate 10% gas loss.

✓ FOR GAS SPRING PRESSURE MONITORING BY MEANS OF A G1/8 CHARGING PORT

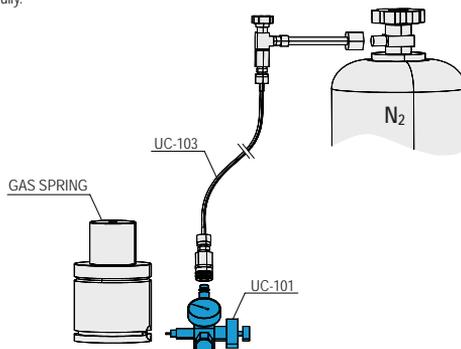
✓ FOR ALL GAS SPRINGS (UC-103 NECESSARY)


**UC-101.1 instructions for use as a charging unit**
**For gas springs with a G1/8" charging port**

- Step 1: Unscrew the G1/8" spindle half-way until the needle goes in fully.
- Step 2: Screw the gas spring on to the G1/8" connector.

**For gas springs with a M6 or M8 thread**

- Step 1: Screw an M6-A or M8 adaptor (as necessary) onto the G1/8" connector thread. If necessary, also screw in a M6-B or M6-C adaptor to the M6-A adaptor.
- Step 2: Screw the gas spring in the charging tool on to the M6-A or M6-B or M6-C or M8 connector (as necessary).
- Step 3: Plug the UC-103 charging hose into the quick coupling fitting.
- Step 4: Slowly open the valve in the UC-103 charging hose until the desired pressure is attained in the pressure gauge. Close the valve.
- Step 5: The gas spring valve closes automatically. In order to evacuate remaining pressure in the charging unit, turn the screw of the waste valve slowly until the remaining pressure is released (when the pressure gauge shows 0 bar). Turn the waste valve screw back to its initial position.
- Step 6: Take the gas spring out of the tool.





## CONTROL UNIT FOR AUTONOMOUS GAS SPRING UC-101.1

i

MICRO

TITAN

TPH

TPS

TPSP

TPF

TPK

TPC

TPR

TPB

TPHC

TPA

TPG

TPCT

TPSL

STOP

CYLINDER

TPSR

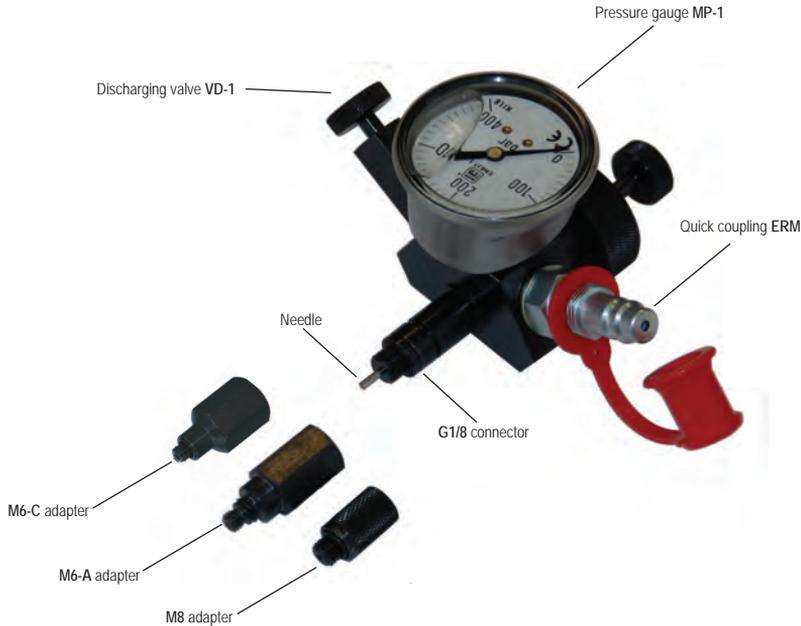
TPSRS

TPNS

TPHT

The UC 101.1 control unit will allow for charging for all gas springs and also pressure control for gas springs by means of a G1/8 charging port. During pressure-checking operations, there is an approximate 10% gas loss.

- ✓ FOR GAS SPRING PRESSURE MONITORING BY MEANS OF A G1/8 CHARGING PORT
- ✓ FOR ALL GAS SPRINGS (UC-103 NECESSARY)



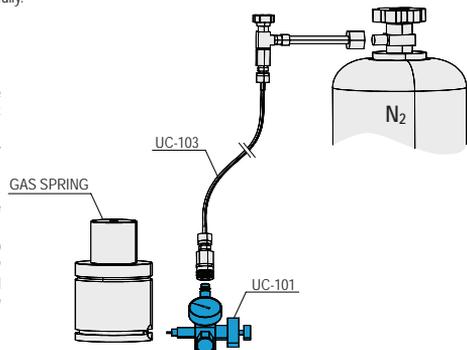
### UC-101.1 instructions for use as a charging unit

#### For gas springs with a G1/8" charging port

- Step 1: Unscrew the G1/8" spindle half-way until the needle goes in fully.
- Step 2: Screw the gas spring on to the G1/8" connector.

#### For gas springs with a M6 or M8 thread

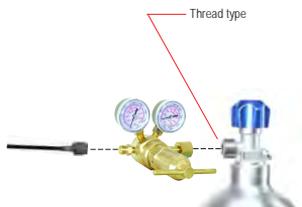
- Step 1: Screw an M6-A or M8 adaptor (as necessary) onto the G1/8" connector thread. If necessary, also screw in a M6-B or M6-C adaptor to the M6-A adaptor.
- Step 2: Screw the gas spring in the charging tool on to the M6-A or M6-B or M6-C or M8 connector (as necessary).
- Step 3: Plug the UC-103 charging hose into the quick coupling fitting.
- Step 4: Slowly open the valve in the UC-103 charging hose until the desired pressure is attained in the pressure gauge. Close the valve.
- Step 5: The gas spring valve closes automatically. In order to evacuate remaining pressure in the charging unit, turn the screw of the waste valve slowly until the remaining pressure is released (when the pressure gauge shows 0 bar). Turn the waste valve screw back to its initial position.
- Step 6: Take the gas spring out of the tool.



## HIGH PRESSURE NITROGEN REGULATOR PR-1



- ✓ Single stage construction with 2 gauges
- ✓ The nitrogen regulator with safety relief valve is set for safe operation



How to order

PR-1	-	2
Code		Thread type

### PR-1 (SPAIN)

Thread type to N2 bottle - M21,7x1,814 right

### PR-2 (GERMANY)

Thread type to N2 bottle - RH-24,32x1,814 right

### TECHNICAL INFORMATION

Max. Inlet pressure	315 Bar
Max. delivery pressure	210 Bar
Weight	2 Kg

## CHARGING & CHECKING STAND SAMPLE



For further information, do not hesitate to get in touch with our technical department



+34 945 121 845

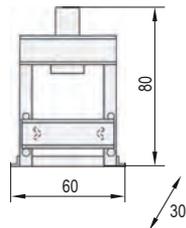
+34 945 250 827

support@tecapres.com



**i**
**UM-102 PRESS (TABLETOP VERSION)**

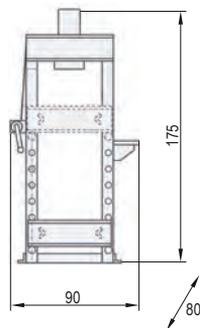
This is a specific small-sized tool for measuring gas spring force. It is quick and simple to use, and reliable.


**TECHNICAL INFORMATION**

Power AC	85V - 265V AC 50/60 Hz
Measuring capacity	0 - 10Ton
Resolution	5 daN
Maximum gas spring height	380 mm
Press weight	53 Kg

**UM-103 PRESS (STANDING VERSION)**

This is a specific large-sized tool for measuring gas spring force. It is quick and simple to use, and reliable. Available in two versions, to measure up to 10Ton, and up to 23Ton.


**TECHNICAL INFORMATION**

Power AC	85V - 265V AC 50/60 Hz
Resolution	5 daN
Maximum gas spring height	800 mm
Press weight	180 Kg

**MODEL**
**MEASURING CAPACITY**

UM-103-10	0 - 10Ton
UM-103-23	0 - 23Ton

How to order

**UM-103 - 10**

Code

Capacity

- MICRO
- TITAN
- TPH
- TPS
- TPSP
- TPF
- TPK
- TPC
- TPR
- TPB
- TPHC
- TPA
- TPG
- TPCT
- TPSL
- STOP CYLINDER
- STOP CYLINDER
- TPSR
- TPSRS
- TPNS
- TPHT
- 
- 
- 
- 
- 

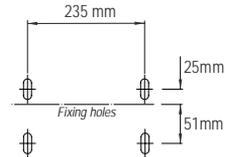
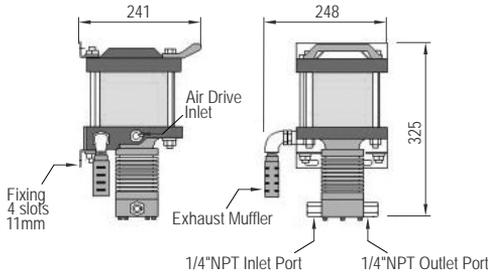


## NITROGEN GAS BOOSTER TPN2-AA30

The TPN2-AA30 nitrogen gas charger allows for an optimum use of nitrogen bottles until a residual pressure of 20 bar is reached. Simple and safe to use, it has been designed to charge or complete gas charging for gas springs or manifold systems.

The TPN2-AA30 charger uses pressurised air (nominal working pressure 7 Bar) and is composed of a hydro-mechanic pump, the piston accumulator for the compression of nitrogen, inlet and release decompression valves.

The system is assembled on a base with handles for easy transportation.

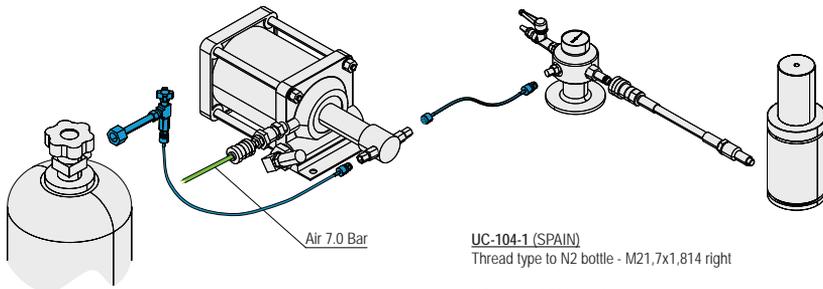


- ✓ Control of maximum pressure by means of inexpensive air drive pressure regulators
- ✓ Single acting, single stage air pressure amplifier with pressure outputs up to 4500 psi (310 bar).
- ✓ Maximum Po ("Stall")=Pa x Ratio

### TECHNICAL INFORMATION

Min. air drive pressure	2,8 Bar
Max. air drive pressure	10,3 Bar
Min. inlet gas pressure	6,9 Bar
Max. inlet gas pressure	300 Bar
Max. outlet pressure	200 Bar
Max. compression ratio	30:1
Weight	12 Kg

## CHARGING EQUIPMENT FOR BOOSTER UC-104



How to order

UC-104 - 2

Code Thread type

### UC-104-1 (SPAIN)

Thread type to N2 bottle - M21,7x1,814 right

### UC-104-2 (GERMANY)

Thread type to N2 bottle - RH-24,32x1,814 right

### UC-104-3 (ITALY)

Thread type to N2 bottle - W21,7x1/14" right

### UC-104-4 (KOREA)

UC-104 charging equipment is made up of different connection lines and fittings with which to Connect the nitrogen cylinder tank bottle to the TPN2-AA30 booster, and this, in turn, is connected to the UC-102 charging unit.

**i**

MICRO  
TITAN  
TPH  
TPS  
TPSP  
TPF  
TPK

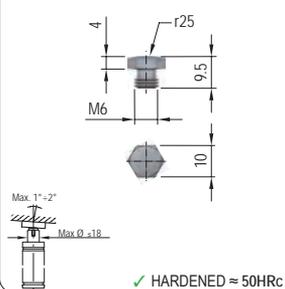
TPC  
TPR  
TPB  
TPHC  
TPA  
TPG  
TPCT

TPSL  
STOP  
CYLINDER  
STOP  
CYLINDER

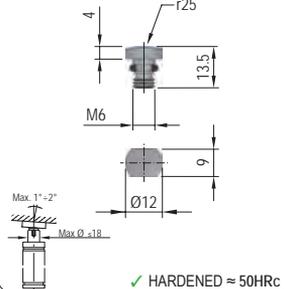
TPSR  
TPSR3  
TPNS



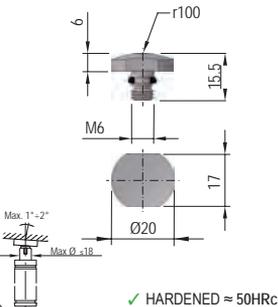
### THRUST PLATE TPSC-M6



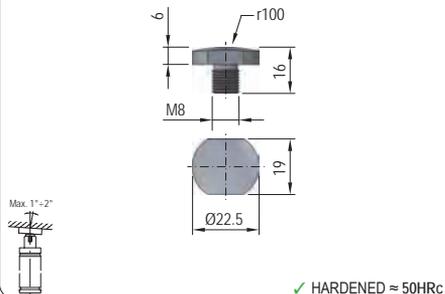
### THRUST PLATE TPSC-M6OR



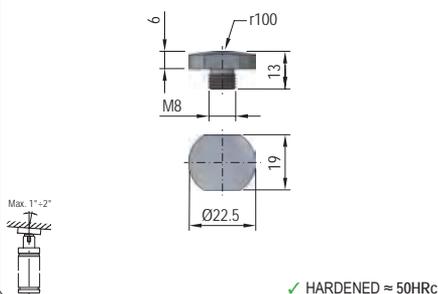
### THRUST PLATE TPSC-M6OR-2



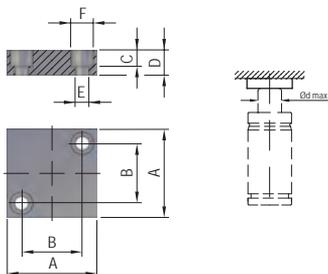
### THRUST PLATE TPSC-M8L



### THRUST PLATE TPSC-M8C



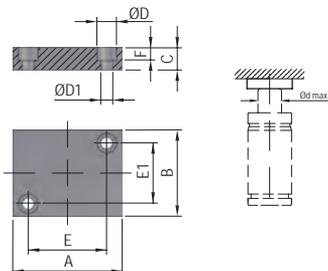
### PRESS PLATE TPSP



Code	Ød mm	A mm	B mm	C mm	D mm	E mm	F mm
TPSP 22	22	40	21	10	15	9	15
TPSP 36	36	56	32	13	20	11	20
TPSP 65	65	71	48	13	20	11	20
TPSP 95	95	84	60	13	25	11	25

✓ HARDENED ≈ 50Hrc

### PRESS PLATE TPSPR



Code	Ød mm	A mm	B mm	C mm	ØD1 mm	ØD mm	E mm	E1 mm	F mm
TPSPR-1	15	50	25	12	7	11	32	8	7
TPSPR-2	20	55	30	12	7	11	40	14	7
TPSPR-3	25	70	35	15	9	15	48	14	9
TPSPR-4	36	75	50	15	9	15	56	30	9
TPSPR-5	50	85	60	15	9	15	66	40	9
TPSPR-6	65	100	80	20	11	18	72	56	11
TPSPR-7	80	110	100	20	11	18	85	75	11

✓ HARDENED ≈ 50Hrc



## TIP-1 IDENTIFICATION PLATE

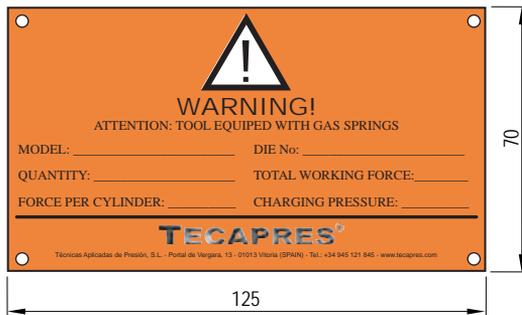


How to order

TIP-1	-	DE
Code		Language

- |              |                 |                |
|--------------|-----------------|----------------|
| ES - Spanish | PT - Portuguese | CH - Chinese   |
| EN - English | SK - Slovakian  | KR - Korean    |
| DE - German  | DK - Danish     | PL - Polish    |
| FR - French  | SE - Sweden     | HU - Hungarian |
| IT - Italian | CZ - Czech      |                |

## TIP-2 IDENTIFICATION PLATE



How to order

TIP-2	-	EN
Code		Language

- |              |                 |                |
|--------------|-----------------|----------------|
| ES - Spanish | PT - Portuguese | CH - Chinese   |
| EN - English | SK - Slovakian  | KR - Korean    |
| DE - German  | DK - Danish     | PL - Polish    |
| FR - French  | SE - Sweden     | HU - Hungarian |
| IT - Italian | CZ - Czech      |                |



**i**

MICRO

TITAN

TPH

TPS

TPSP

TPF

TPK

TPC

TPR

TPB

TPHC

TPA

TPG

TPCT

TPSL

STOP  
CYLINDER

STOP  
CYLINDER

TPSR

TPSRS

TPNS

TPHT



FILLING VALVE  
TPFV1



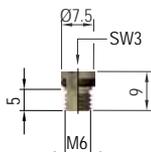
FILLING VALVE  
TPFV3



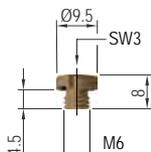
FILLING VALVE  
TPFV5



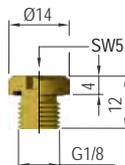
THREADED PLUG  
M6-1



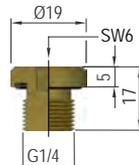
THREADED PLUG  
M6-2



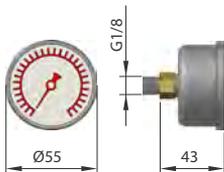
THREADED PLUG  
G1/8



THREADED PLUG  
G1/4

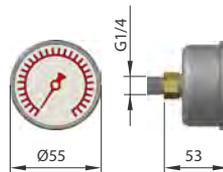


PRESSURE GAUGE  
MP-1



TECHNICAL INFORMATION	
Scale	0 - 400 Bar
Resolution	5 Bar
Maximum pressure	400 Bar

PRESSURE GAUGE  
MP-2



TECHNICAL INFORMATION	
Scale	0 - 400 Bar
Resolution	5 Bar
Maximum pressure	400 Bar

MALE QUICK-COUPLING  
FOR CONTROL PANEL



ERM

ERMF

FEMALE QUICK-COUPLING  
FOR CONTROL PANEL



ERH

ERHF

DISCHARGING VALVE  
FOR CONTROL PANEL



VD-1

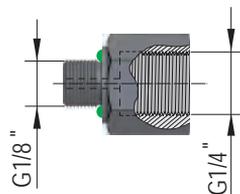
**METAL RUBBER WASHER  
G1/8**



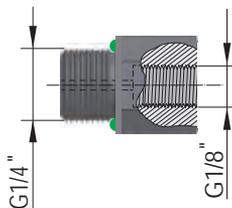
**METAL RUBBER WASHER  
G1/4**



**ADAPTER  
TP-100**



**ADAPTER  
TP-101**



**OVERPRESSURE  
M6 RUPTURE PLUG  
TP-102**



**OVERPRESSURE  
G1/8 RUPTURE PLUG  
TP-103**

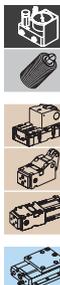


**TEMPERATURE STICKER  
TP-104**



This sticker is designed to track the correct working temperature of the cylinder ensuring that it is not exceeded and guaranteeing optimal operation.

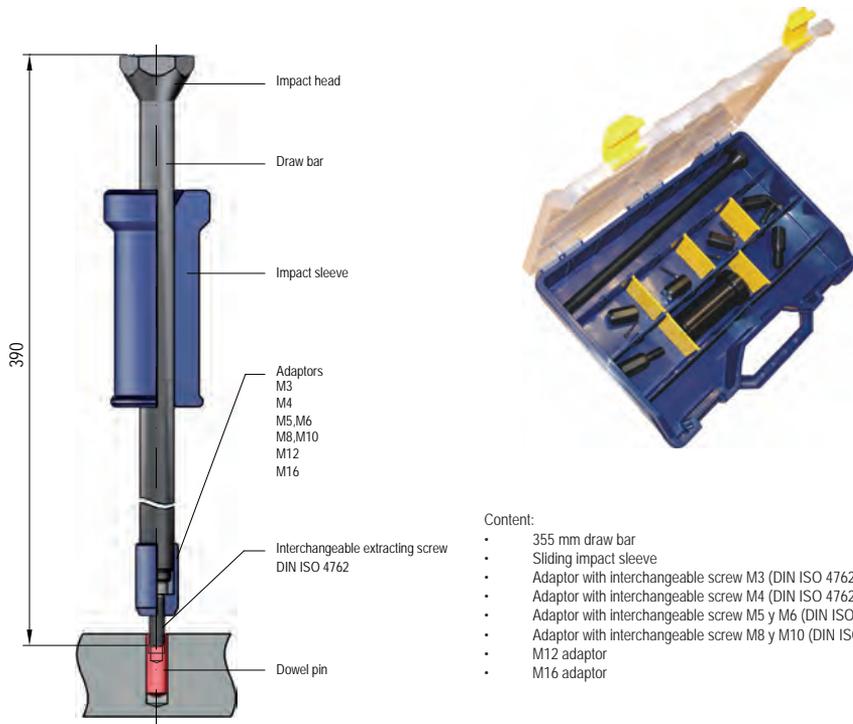
These temperature indicators are made on adhesive paper, where each point is made of a heat-sensitive material and calibrated based on the temperature it marks. Subsequently, a transparent polyester is overlaid, which acts as a protector against water, steam or oil. This allows the indicator to be used in places susceptible to receiving water or grease.



- i**
- MICRO
- TITAN
- TPH
- TPS
- TPSP
- TPF
- TPK
- TPC
- TPR
- TPB
- TPHC
- TPA
- TPG
- TPCT
- TPSL
- STOP CYLINDER
- STOP CYLINDER
- TPSR
- TPSRS
- TPNS
- TPHT
- 
- 
- 
- 
- 



## DOWEL PIN EXTRACTOR EXP-01



**Content:**

- 355 mm draw bar
- Sliding impact sleeve
- Adaptor with interchangeable screw M3 (DIN ISO 4762)
- Adaptor with interchangeable screw M4 (DIN ISO 4762)
- Adaptor with interchangeable screw M5 y M6 (DIN ISO 4762)
- Adaptor with interchangeable screw M8 y M10 (DIN ISO 4762)
- M12 adaptor
- M16 adaptor

## CRIMPING PRESS PMES-01



- ✓ Transportable compact hydraulic manual pump for flexible hoses MF1215
- ✓ Indicator of measuring for maximum pressure

**INFORMATION**

Dimensions	25x28x25 cm
Weight	12,3 Kg

