

NITROGAS



Gas link system

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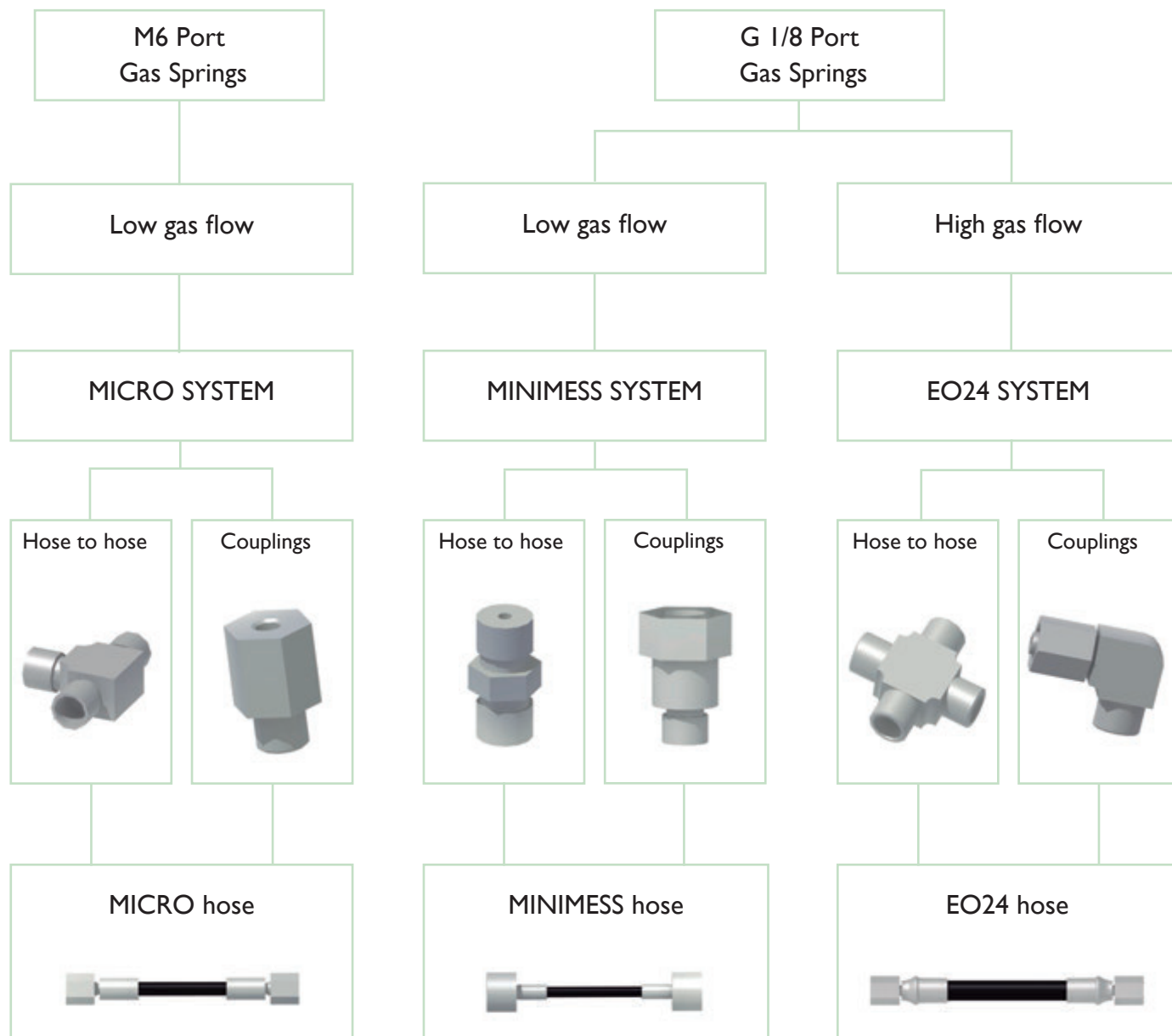
Complements

Support plates	20
identification plates	20

Gas link system

Linking system selection

NITROGAS offers various types of hoses, adapters and control panels to design a customized linked system. Those components are divided into 3 different systems: Micro Systems, EO24 Systems and Minimesh Systems.



The possibility of being or not connecting, as well as the connection type (M6 or G1/8) of each gas spring model is indicated in the catalog.

Gas link system

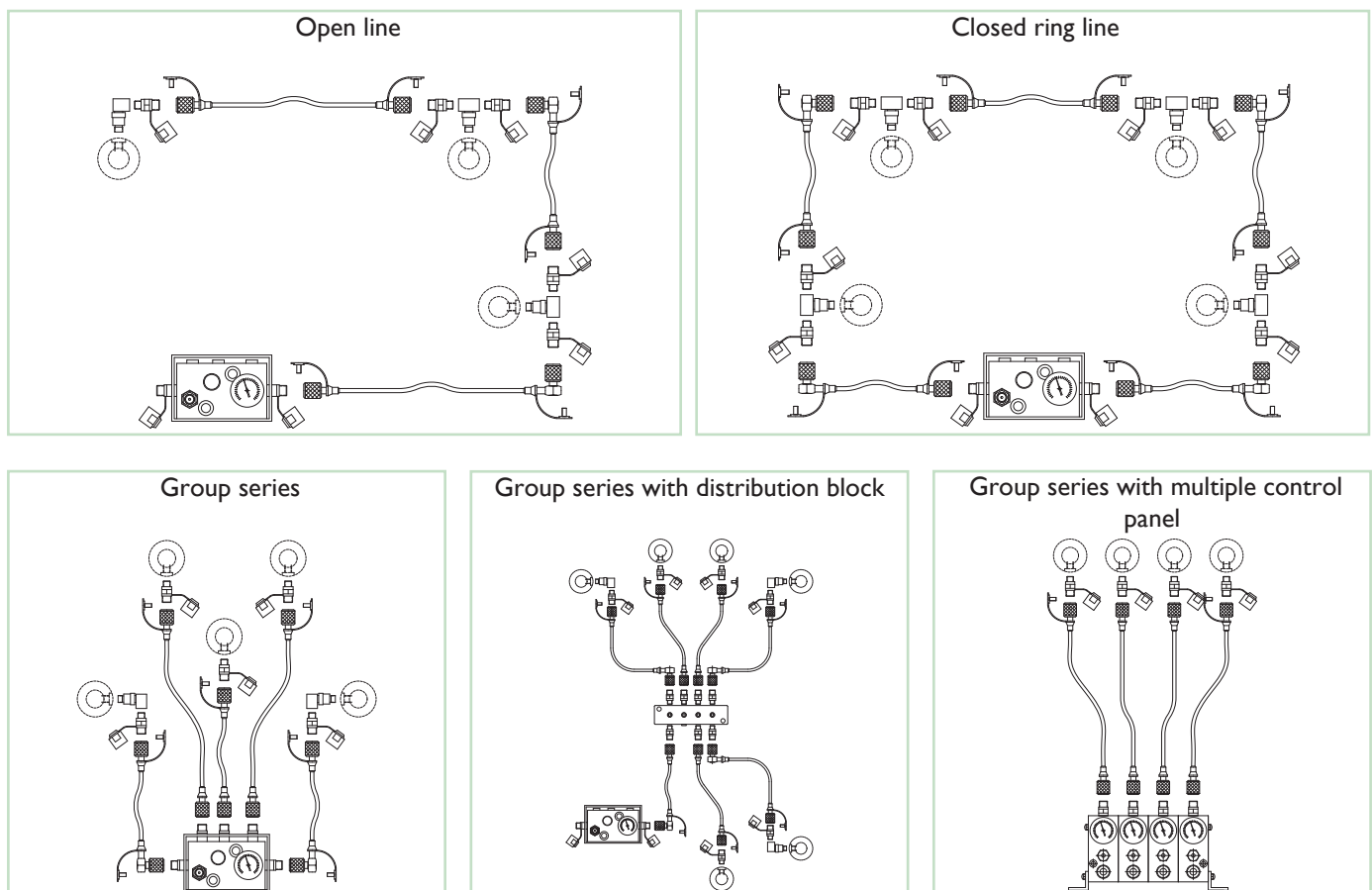
Safety standards

When looking for safety and optimum performance life in a hose system creation, it is important to consider the following points:

- Before converting gas springs from self-contained to linked mode and remove the valve, **ensure the gas spring is completely discharged**.
- Place the control panel in the tool where it will be protected from mechanical damage, and on a higher level than the gas springs to minimize loss of lubrication oil when discharging the gas.
- Use only nitrogen (N_2) gas. The use of other types of gas can result in personal injury or failure of the gas spring/control panel.
- Do not exceed the maximum pressures and temperatures given for the hoses and gas springs.
- All valves on the control panel should be closed during operation.
- All gas springs hosed together should be of the same size and model.

NITROGAS provides training courses on piping gas springs systems.

Mounting arrangement

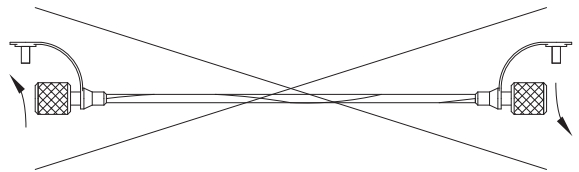
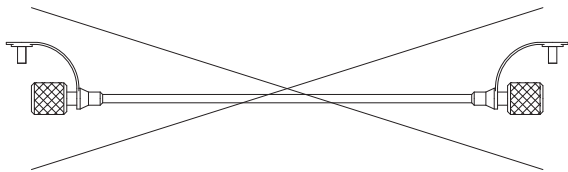


Gas link system

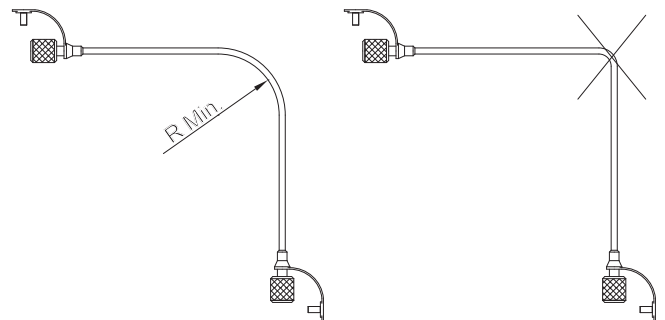
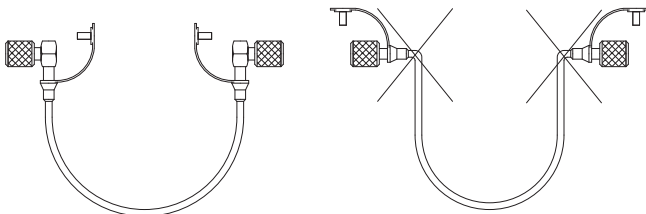
Specification for installation

Follow the instruction below to ensure functionality and maximum service life for hose connection. Ensure that all hoses and adaptors are perfectly clean before assembling.

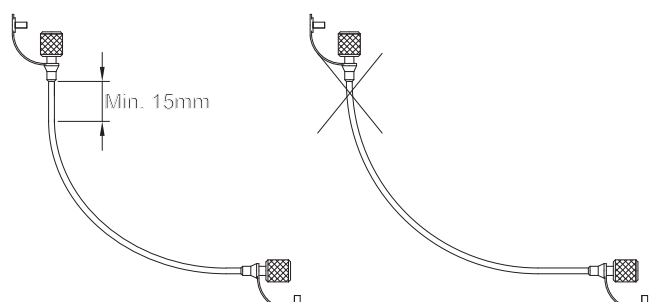
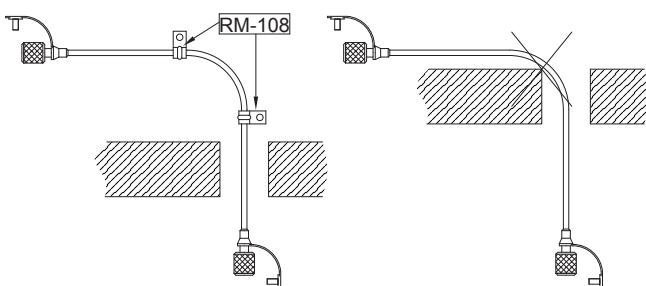
1. The hose length must provide a certain amount of play.
2. Do not twist the longitudinal marking during assembly.



3. Choose the appropriate fittings to avoid sharp bends in the hose.
4. Any bends in the hose must have at least the recommended minimum radius.



5. Fix the hose correctly to avoid mechanical damage. We recommend using RM-108 clips to fix the hose.
6. The hose must have at least a minimum drop length.



Gas link system

Micro system

Hoses

Basic information	
Material	Polyamide
Dimension	External Ø 4.9 mm
	Internal Ø 2 mm
Min. bend radius	20 mm
Max. working pressure	630 bar
Min. burst pressure	1900 bar
Operating temperature	-40°C / +100°C
Minimum length	120 mm

LK I



Ordering example: LK I-Length in mm

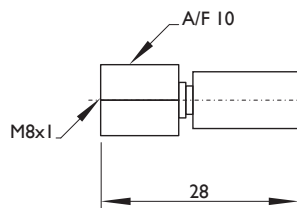
4 x LK I-750

Gas link system

Micro system

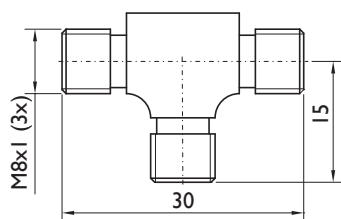
Terminals

TERM-LK

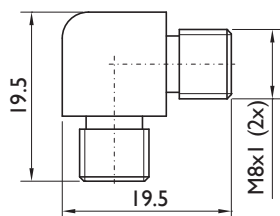


Hose to hose

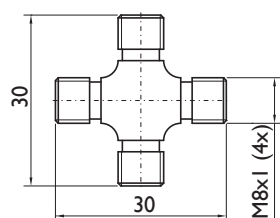
RC-605



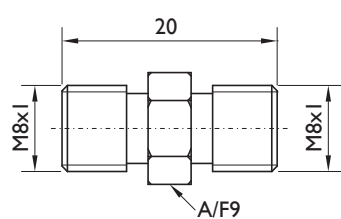
RC-606



RC-607

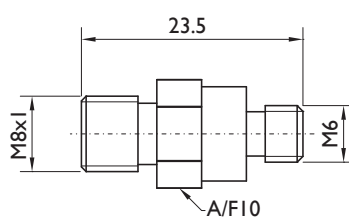


RM-609

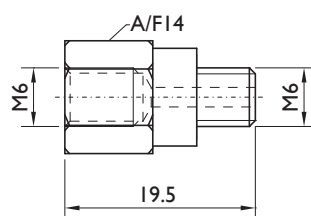


Couplings

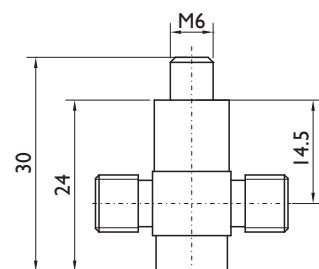
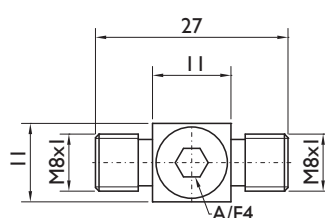
RM-601



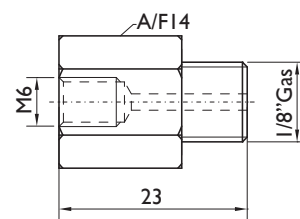
RM-603



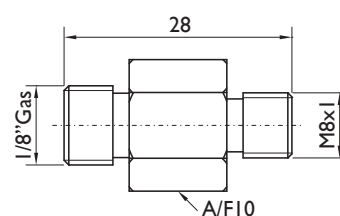
RM-605



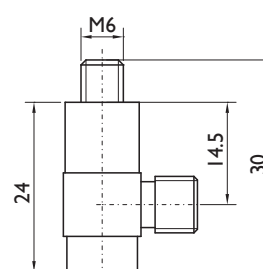
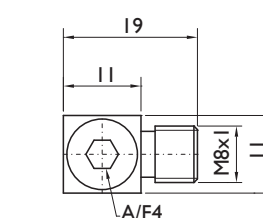
RM-602



RM-604



RM-606



Gas link system

EO24 system

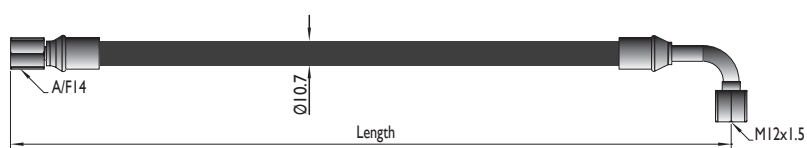
Hoses

Basic information	
Material	Polyamide
Dimension	External Ø 10.7 mm Internal Ø 4.8 mm
Min. bend radius	40 mm
Max. working pressure	345 bar
Min. burst pressure	1380 bar
Operating temperature	-40°C / +100°C
Minimum length	150 mm

LD1



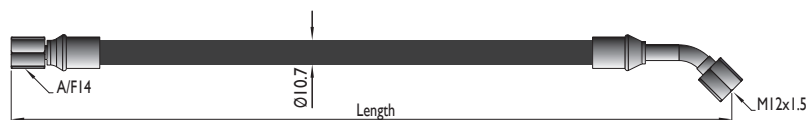
LD2



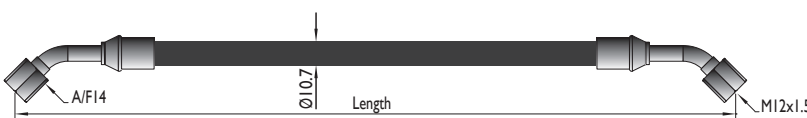
LD3



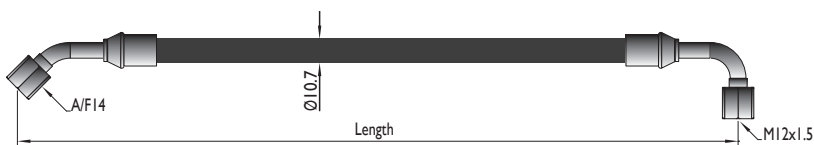
LD4



LD5



LD6



Ordering example: LD(1,2,3,4,5,6)-Length in mm

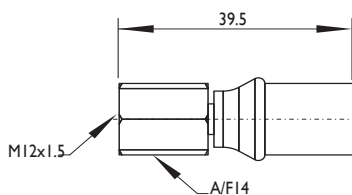
4 x LD1-750

Gas link system

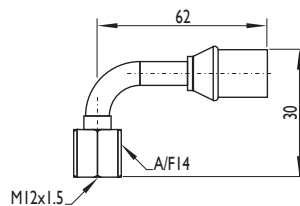
EO24 system

Terminals

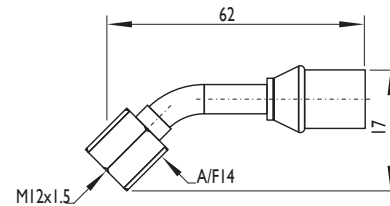
TERM-LDR



TERM-LDC

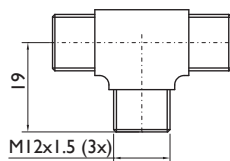


TERM-LDA

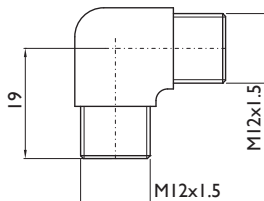


Hose to hose

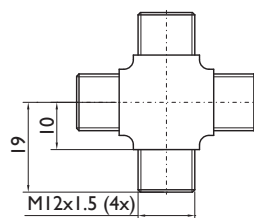
RC-505



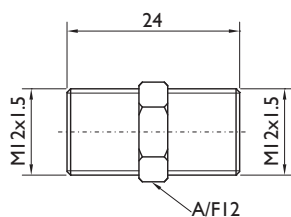
RC-506



RC-507

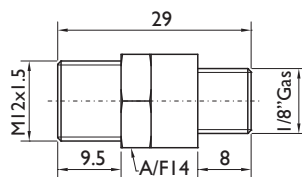


RM-509

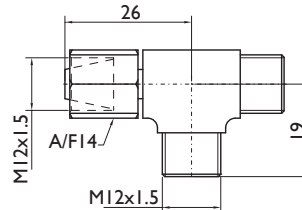


Couplings

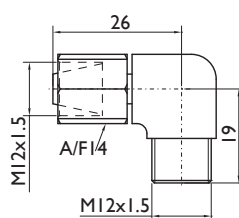
RM-501



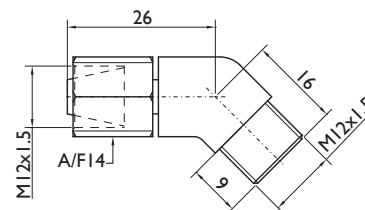
RM-504



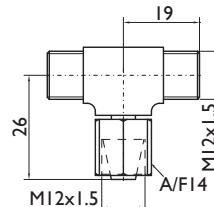
RM-506



RM-503



RM-505



Gas link system

Minimess system

Hoses

Basic information	
Material	Polyamide
Dimension	External Ø 4.9 mm
	Internal Ø 2 mm
Min. bend radius	20 mm
Max. working pressure	630 bar
Min. burst pressure	1900 bar
Operating temperature	-40°C / +100°C
Minimum length	150 mm

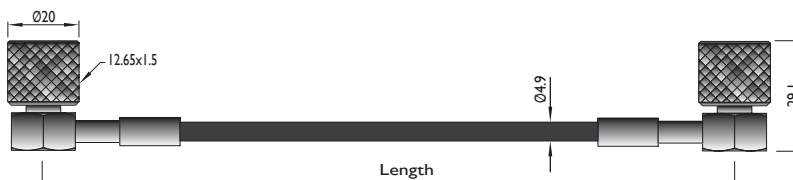
LM1



LM2



LM3



Ordering example: LM(1,2,3)-Length in mm

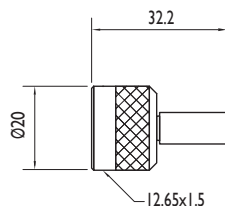
4 x LM1-750

Gas link system

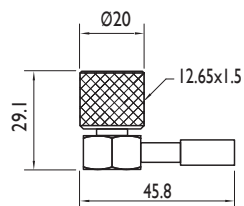
Minimess system

Terminals

TERM-RECTO

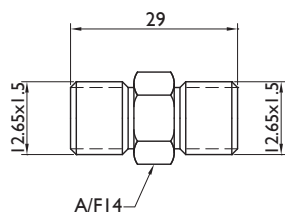


TERM-CODO



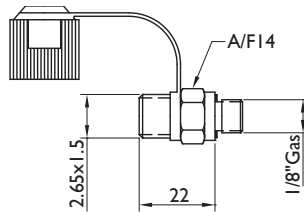
Hose to hose

RM-109

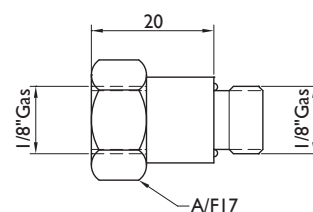


Couplings

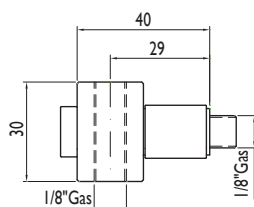
RM-101



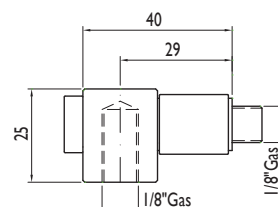
RM-103



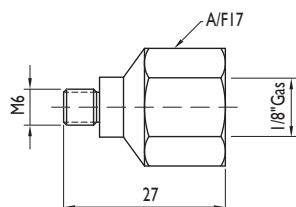
RM-105



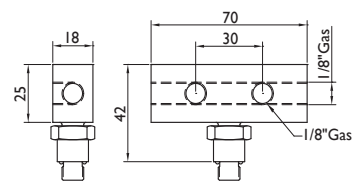
RM-106



RM-201



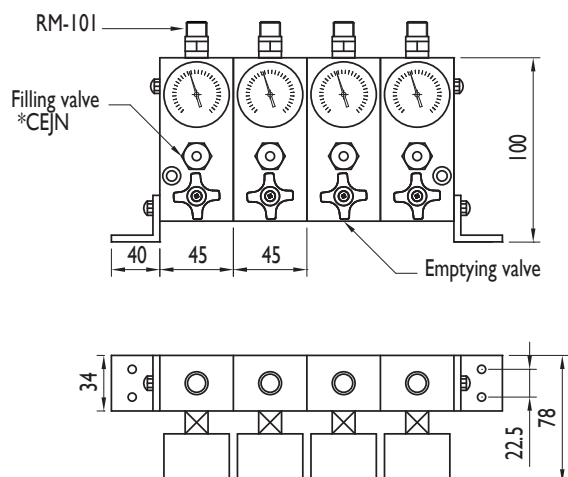
MP-125



Gas link system

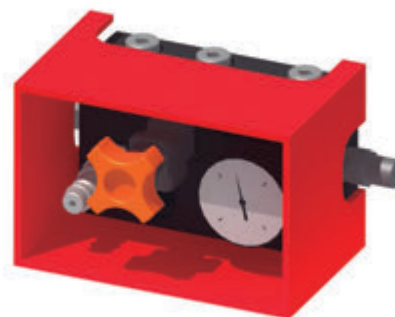
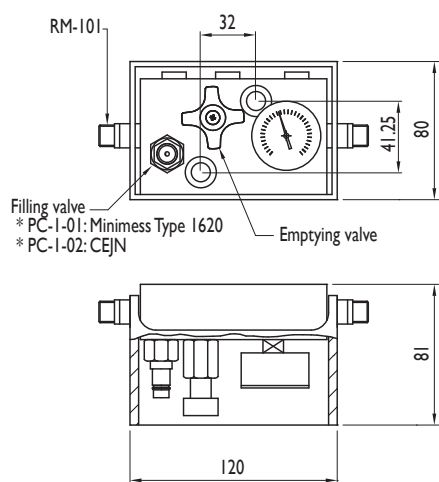
Control panels

PCM-8



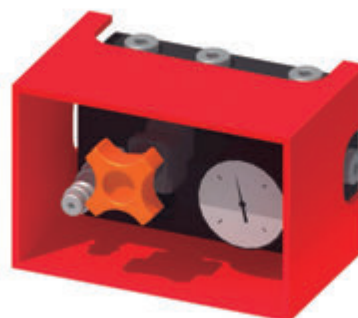
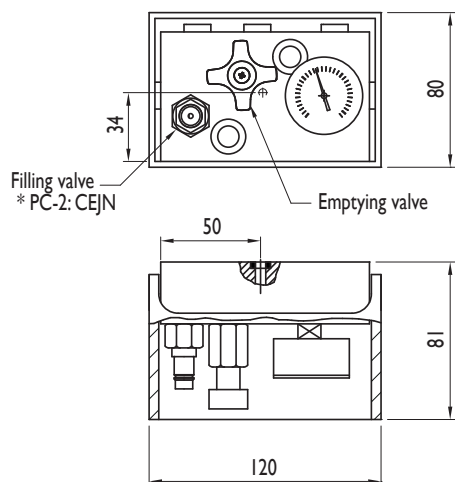
Minimess

PC-I



Minimess

PC-2

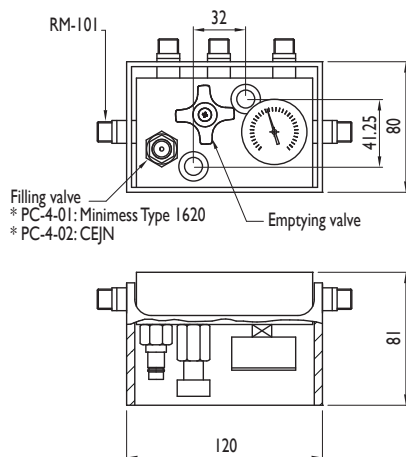


Minimess

Gas link system

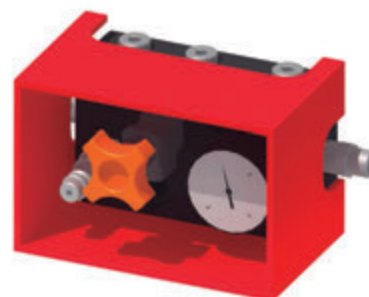
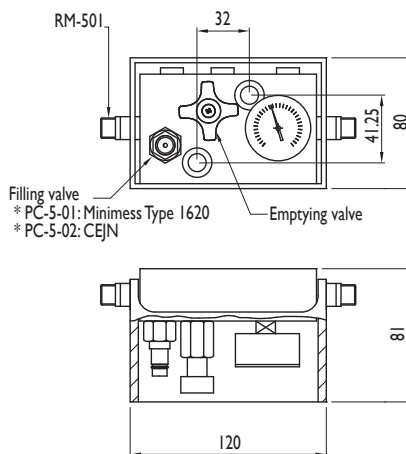
Control panels

PC-4



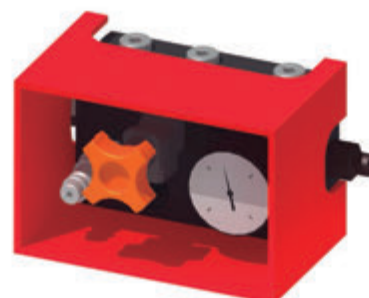
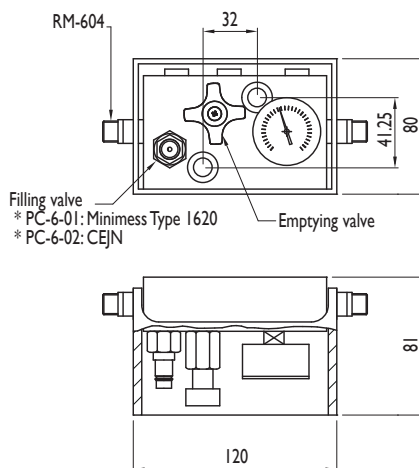
Minimes

PC-5



EO24

PC-6

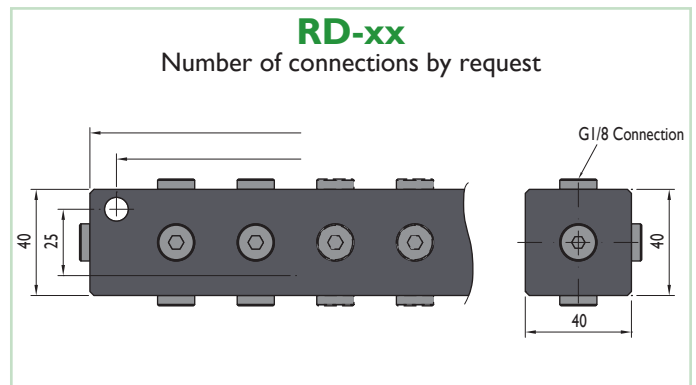
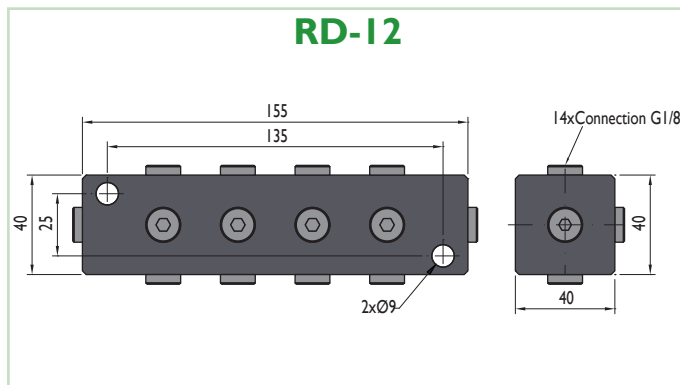
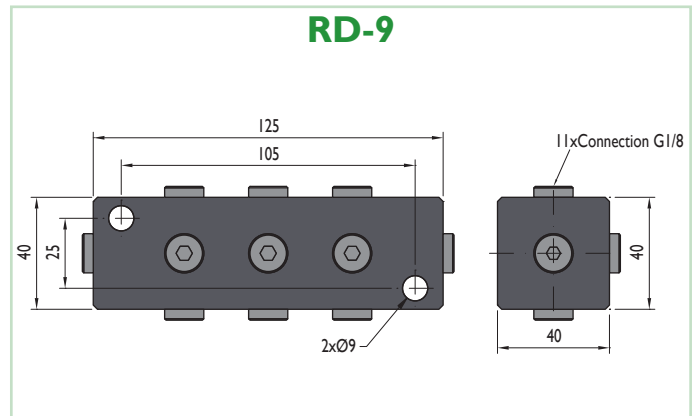
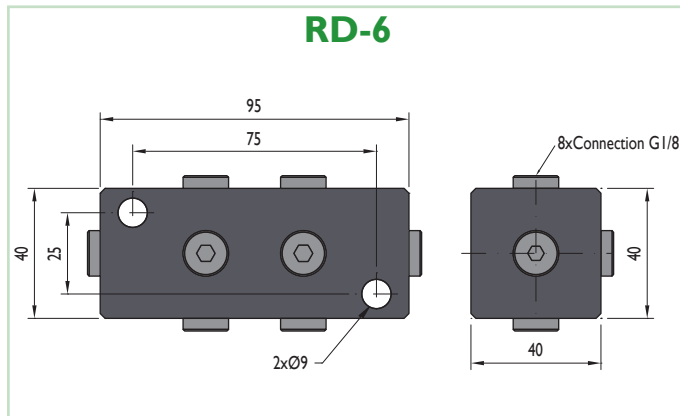
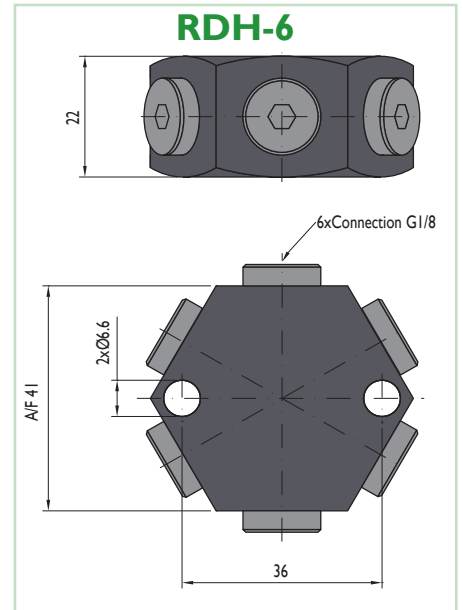
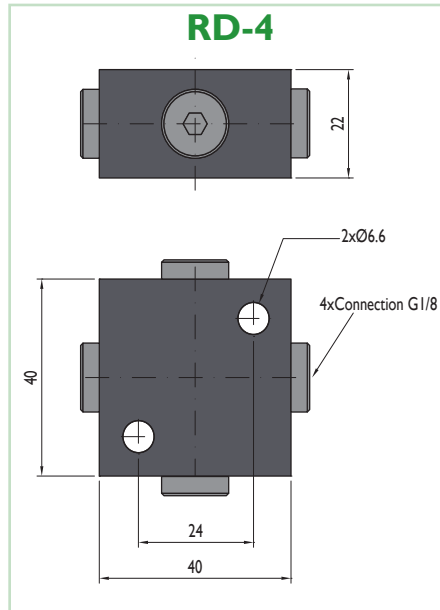
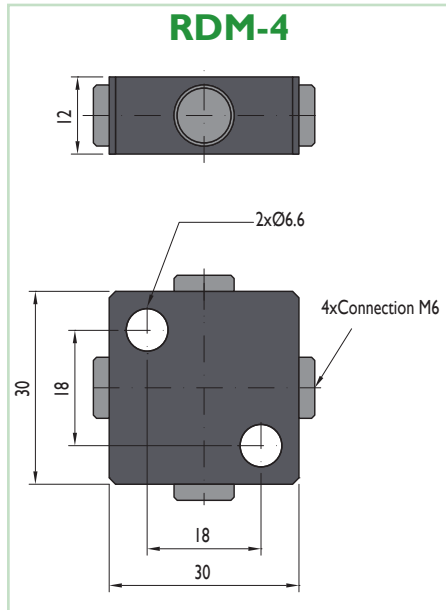


Micro

Gas link system

Distribution blocks

Distribution blocks simplify piping to multiple cylinders with a uniform system pressure. NITROGAS offers distribution blocks with M6 and G 1/8 connection.



Maintenance

Charging equipment

EC-100



Loading equipment

CP-218 1/8



Pressure tester regulator

ED-150



Hose for loading equipment

RP-106



Pressure regulator

Quick coupling

Female

Male



Quick disconnect CEJN adapter

DF-01

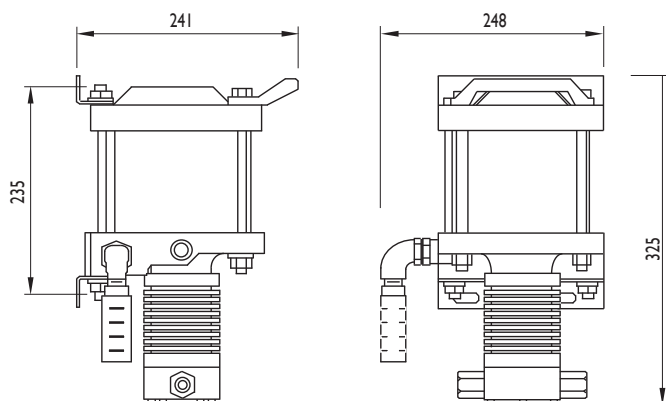


Leak detector spray

Maintenance

Booster

MUPE-30-SA



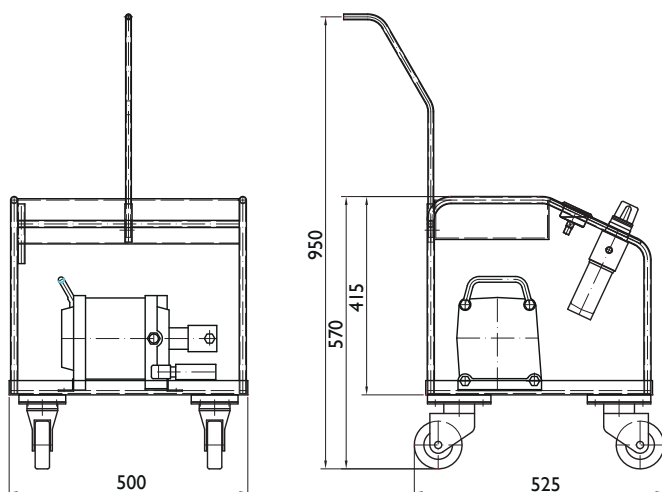
Basic information

Pressure medium	N ₂
Drive compressed air	3-10 bar
Stall pressure formula	30x Air pressure
Max. outlet pressure	300 bar

Characteristics

Pressure multiplier

MULT_COMPACTO



Basic information

Pressure medium	N ₂
Drive compressed air	3-10 bar
Stall pressure formula	30x Air pressure
Max. outlet pressure	300 bar

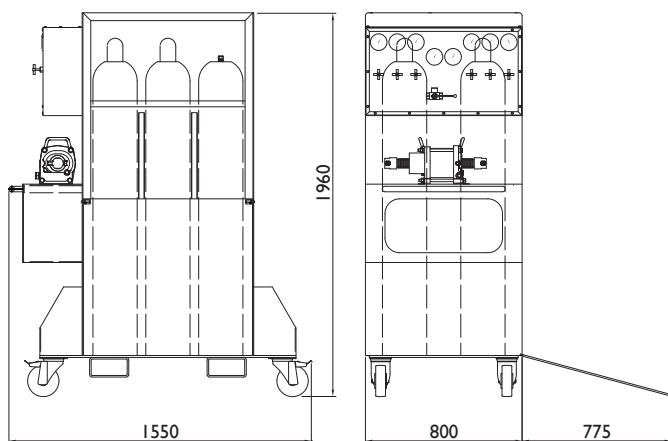
Characteristics

Compact pressure multiplier
Easily transportable

Maintenance

Booster

CARRO CARGA



Basic information

Pressure medium	N ₂
Drive compressed air	3-10 bar
Stall pressure formula	30x Air pressure
Max. outlet pressure	200 bar

Characteristics

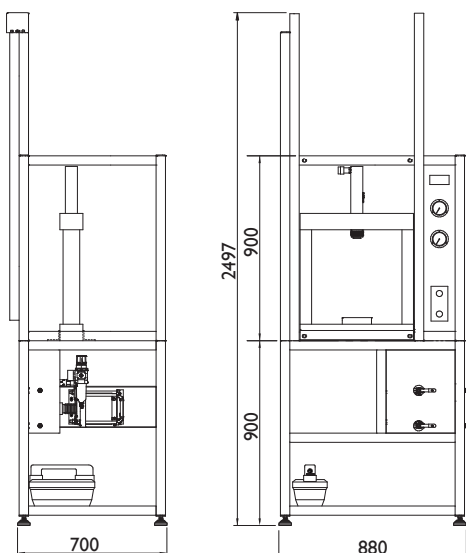
Nitrogen charging cart with pressure multiplier

6 bottles capacity

With security mechanism: The multiplier stops if the load pressure reaches 200 bar

Easily transportable

P_MULT



Basic information

Pressure medium	N ₂
Drive compressed air	3-10 bar
Stall pressure formula	30x Air pressure
Max. outlet pressure	300 bar

Characteristics

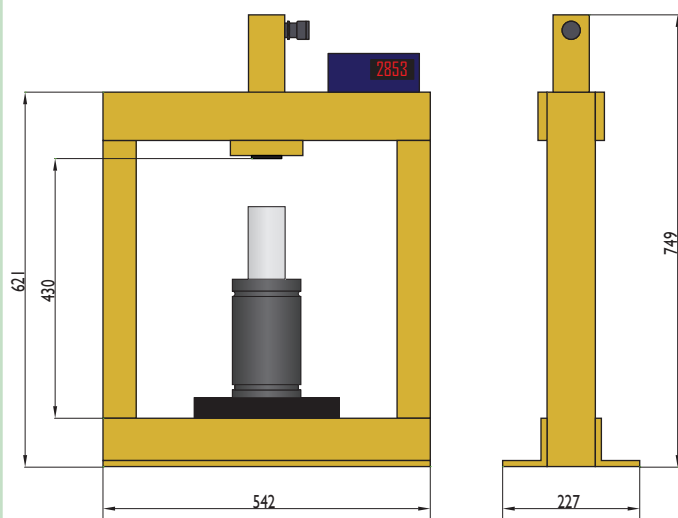
Press with integrated pressure multiplier

Load protected cab

Includes test press P-I 17

Maintenance

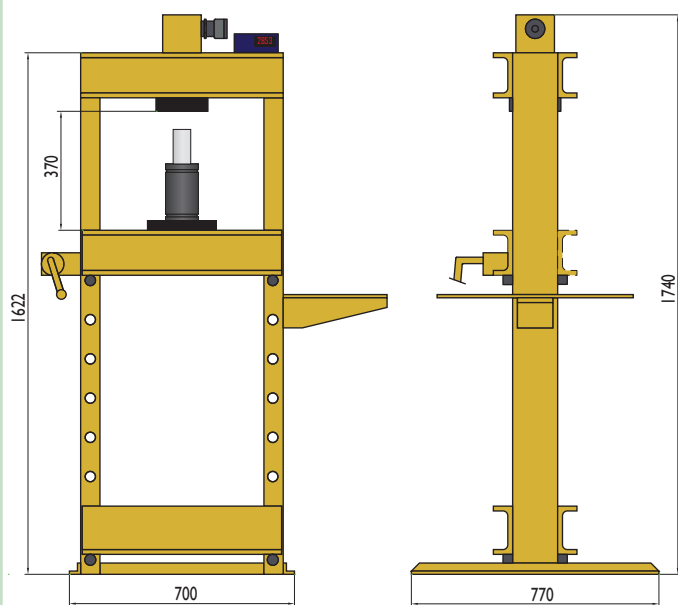
P-117



Basic information

Capacity	Maximum force	10 ton
	Maximum stroke	156 mm
Pusher	Manual/Pneumatic	
Cell gauge	Digital	

P-118



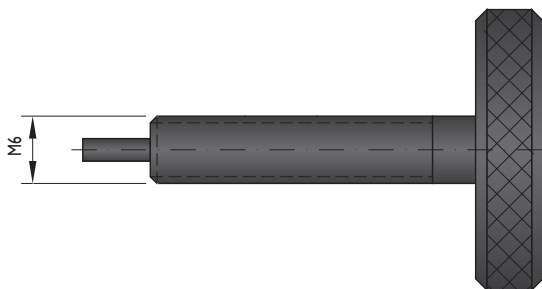
Basic information

Capacity	Maximum force	25 ton
	Maximum stroke	158 mm
Pusher	Manual/Pneumatic	
Cell gauge	Digital	

Maintenance

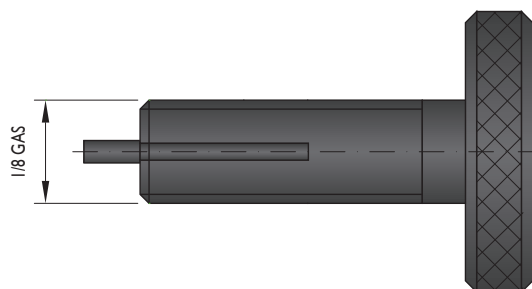
Tools

BD-M6-I13



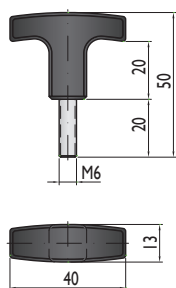
M6 unload nozzle

BD-1/8-I14



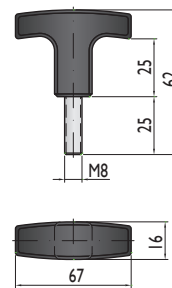
Gas 1/8 unload nozzle

ER-01 (M6)



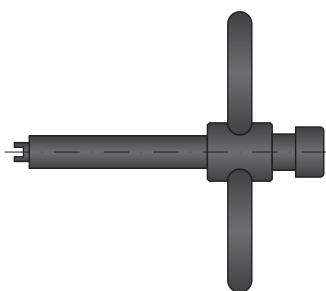
Extractor

ER-02 (M8)



Extractor

T-I16



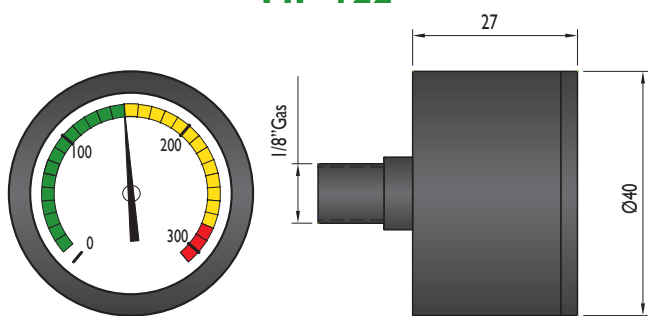
Valve extraction key

Transport system



Request more information about the required transport system depending on the gas spring model.

MP-I22



Pressure gauge

PLM-01



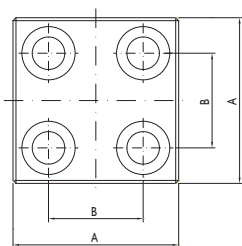
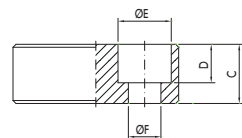
Hose crimping press

Dimensions

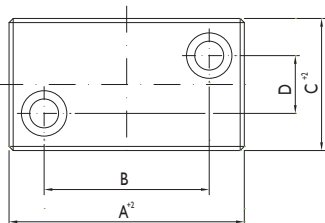
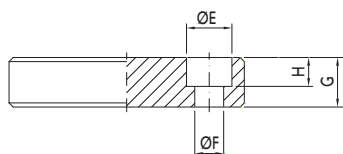
Length	260 mm
Width	200 mm
Height	145 mm
Weight	19 kg

Complements

Support plates



	A mm	B mm	C mm	D mm	E mm	F mm
SPC-150						
SPC-250	40	21	15	10	15	9
SPC-500						
SPC-750	56	32	20	13	18	11
SPC-1500						
SPC-3000	90	67	20	13	18	11
SPC-5000						
SPC-7500	140	110	20	13	18	11
SPC-10000						



	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm
SPV-150	50	32	25	8	11	7	12	7
SPV-250								
SPV-500	55	40	30	14	11	7	12	7
SPV-750	70	48	35	14	15	9	15	9
SPV-1500	75	56	50	30	15	9	15	9
SPV-3000	85	66	60	40	15	9	15	9
SPV-5000	100	72	80	56	18	11	20	11
SPV-7500	110	85	100	75	18	11	20	11
SPV-10000	130	100	110	80	18	11	20	11

Identification plates

125

25

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Protect against knocks, heat, dirt, etc...

ATTENTION: Utility fitted with gas springs in:

Model _____ Stroke _____

Quantity _____ Useful stroke _____

Force per cylinder _____ daN

Total working force _____ daN

Loading pressure _____ Bar

NITROGAS recommends identifying tools containing high pressure nitrogen gas springs to ensure the proper handling of the gas springs.

Reference	Language
PI-119-1	Spanish
PI-119-2	English
PI-119-3	German
PI-119-4	French

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nitrogas@nitrogas.com
www.nitrogas.com

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