

Brake bleeding - washing - inflating



BRAKE - CLUTCH BLEEDING

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PRESSURE SPRAYERS

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WASHING TANK

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TYRE INFLATOR

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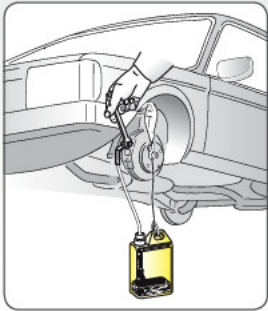


Brake-clutch bleeding equipment

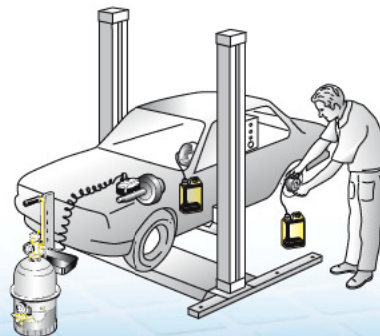
with 2 chambers

with 3 chambers

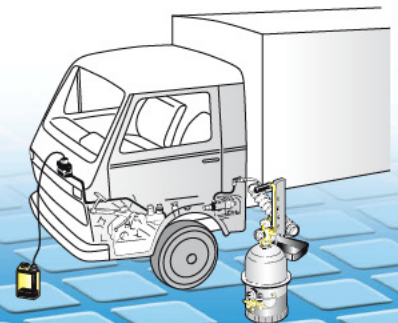
The simplified air-operated two-chamber or three chamber, brake bleeding device is suitable for bleeding the hydraulic brakes and clutches of all motor vehicles. Bleeding can be carried out in a few minutes by just one person. The brake-bleeding device is equipped with an elastic inner membrane which hermetically separates the oil from the air, thus avoiding the risk of emulsion. It is also suitable for systems with braking control and ABS (max. at 1 bar).



Article		10105	10205	10207	10705	10805	10807
Tank capacity	litres	5	5	5	5	5	5
Set of plugs	Art.	-	11001	11004	-	11001	11004
clutch bleeding tube	Art.	-	10802	10802	-	10802	10802
2 collection containers	Art.	10801	10801	10801	10801	10801	10801
Filler funnel		yes	yes	yes	yes	yes	yes
Max working pressure	bar	2	2	2	2	2	2
Tank max pressure	bar	2	2	2	10	10	10
Delivery hose length	m	3	3	3	3	3	3
Safety valve	bar	3	3	3	10	10	10
Packing	N° - m ³	1 - 0,065	1 - 0,065	1 - 0,065	1 - 0,065	1 - 0,065	1 - 0,065
Weight	kg	8,5	9,5	9,7	10,2	11,2	11,4
Dimensions (A - B - C)	cm	43 - 25 - 65	65 - 43 - 25	43 - 25 - 65	45 - 25 - 65	45 - 25 - 65	45 - 25 - 65



Braking system bleeding phase

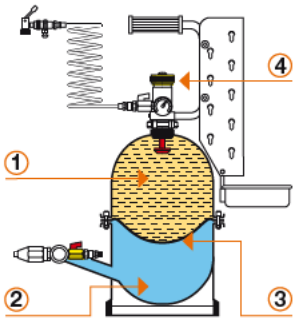


Truck clutch system bleeding phase



Brake bleeder operation

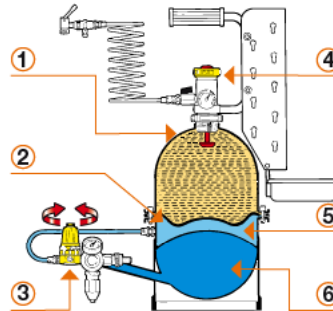
2 chambers operation



The brake-bleeding device is equipped with an elastic inner membrane (3) which hermetically separates the oil contained in the oil tank (1), from the air contained in the air "expansion" tank (2), thus avoiding the risk of emulsion (working pressure 1 - 2 bar controllable on the upper pressure gauge).

The oil tank (4) filler cap is equipped with a "reserve indicator" that signals when the fluid is finishing, and an air venting valve to be used in the device activation phase.

3 chambers operation



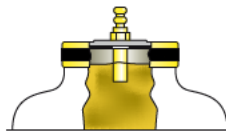
The brake-bleeding device is equipped with an elastic inner membrane (2) which hermetically separates the oil contained in the oil tank (1), from the air contained in the air "expansion" tank (5), thus avoiding the risk of emulsion. It is also equipped with a third air reserve tank (high pressure air 8-10 bar) (6) which, delivered by means of a pressure regulator (3), enables several bleeding operations to be carried out at a constant pressure without having to recharge the device.

The oil tank (4) filler cap is equipped with a "reserve indicator" that signals when the fluid is finishing, and an air venting valve to be used in the device activation phase.

Procedures for applying the connection plugs



Before bleeding it is important to fill the brake fluid reservoir by means of the brake bleeder quick-release connector.



The extended nozzle of the plug must be immersed in the fluid to avoid sprays or air and oil emulsions.



Connect the brake bleeding device to the reservoir by means of the quick-release connector.

LIST OF SCREW PLUGS FOR CARS

ALFA.....	A-D-L	JEEP.....	W	PEUGEOT.....	D-F-M
AUDI.....	D	KIA.....	D	PORSCHE.....	C-D
AUSTIN MORRIS.....	A-D-T	LAMBORGHINI.....	D-H-W	RENAULT.....	D-G-I-M
AUTOBIANCHI.....	B-H	LADA.....	H	ROVER.....	A-D-W
BMW.....	D-W	LANCIA.....	D-H	SAAB.....	D
CITROËN.....	D-E-I	LAND ROVER.....	T-W	SEAT.....	D-H
CHRYSLER.....	W	LEYLAND.....	A	SUBARU.....	U-W
DAEWOO.....	D-W	MASERATI.....	D-G-L	SUZUKI.....	D-W
FERRARI.....	D-G-H	MITSUBISHI.....	K-U	TALBOT.....	D-F
FIAT.....	A-B-D-H-I	MAZDA.....	D-W	TOYOTA.....	W
FORD.....	A-D-T	MERCEDES.....	D	TRIUMPH.....	T
HYUNDAI.....	W	MG.....	W	VAUXHALL.....	A
INOCENTI.....	A-D-L	NISSAN.....	W	VOLKSWAGEN.....	C-D
JAGUAR.....	L	OPEL.....	D-F	VOLVO.....	D-G-U

LIST OF SCREW PLUGS FOR TRUCKS

ASTRA.....	H	FIAT.....	A-B-D-F-H-I-P	RENAULT.....	D-F-I-X-Z
BEDFORD.....	A-G-L	FORD.....	D-G	SCANIA.....	D-G
BERLIET.....	D-F-T-X-Z	IVECO.....	D-H-L	VOLVO.....	R
DAF.....	D	MERCEDES.....	D		

LIST OF PRESSURE PLUGS FOR CARS

HONDA.....	Art. 11003/4, /6	MAZDA.....	Art. 11003/5, /9	SUZUKI.....	Art. 11003/7
KIA.....	Art. 11003/5, /8	OPEL.....	Art. 11003/3	LEXUS.....	Art. 11003/1
LEXUS.....	Art. 11003/1	ROVER.....	Art. 11003/6	TOYOTA.....	Art. 11003/1, /2



Screw connection plugs

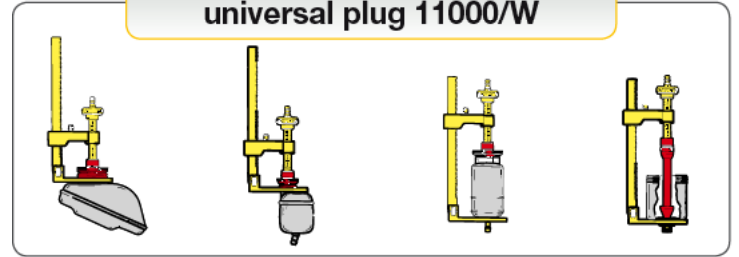


Art. 11001

Series of standard screw connection plugs, supplied with Art. 10205 or Art. 10805 (refer to page 32), consisting of:
 - 5 screw plugs: 11000/A/D/F/I/T
 - 1 universal plug 11000/W

Note: the above plugs can also be supplied individually. The universal plug 11000/W can be used on many types of cars and trucks in addition to those given in the plug list (refer to page 33)

Application examples of universal plug 11000/W

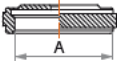
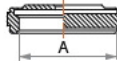

























Art. 11002

Series of special screw connection plugs, consisting of:
 11000/B/C/E/G/H/K/L/M/P/R/U/X/Y/Z

Note: the series of special plugs is only supplied by request

List of screw plugs supplyable individually

	Article	Plug series	Diameter (A) mm		Article	Plug series	Diameter (A) mm
	11000/A	type A	25		11000/M	type M	68,5
	11000/B	type B	21,5		11000/P	type P	77
	11000/C	type C	26,5		11000/R	type R	33,5
	11000/D	type D	43		11000/T	type T	44
	11000/E	type E	48		11000/U	type U	76
	11000/F	type F	52,5		11000/X	type X	44,5
	11000/G	type G	64		11000/Y	type Y	34,5
	11000/H	type H	41,5		11000/Z	type Z	58,5
	11000/I	type I	59		11000/W Universal plug W with 3 tapered plugs:	<ul style="list-style-type: none">  1) \varnothing 20 mm  2) \varnothing 28 mm  3) \varnothing 45 mm 	
	11000/K	type K	61,5				
	11000/L	type L	76,5				

Note: to choose the connection plug see the "Brake bleeder plug list" tables (refer to page 33)



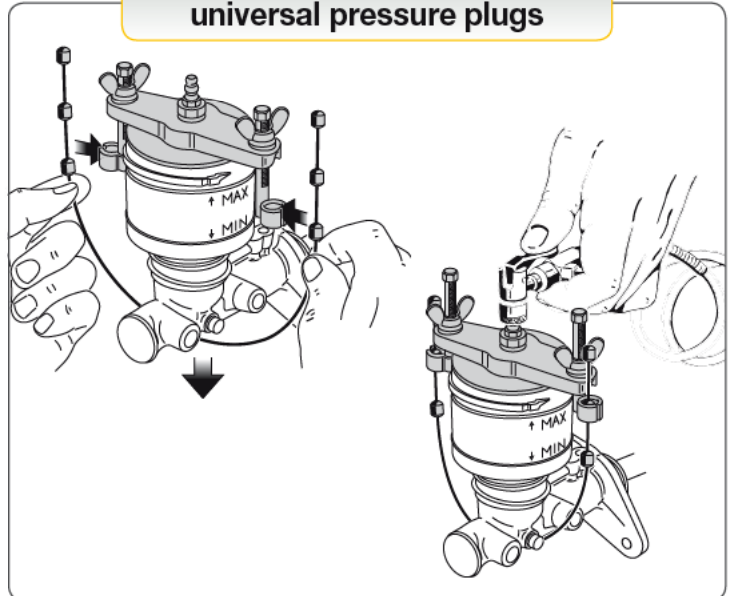
Pressure connection plugs

Art. 11004

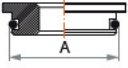












Adjustable universal bracket (Art.11003) with series of pressure plugs 11003/1/2/3/4/5/6/7/8/9



Application examples of universal pressure plugs



List of pressure plugs suppliable individually

	Article	Plug series	Diameter (A) mm	Article	Description
	11003/1	pressure	42,2 42,5		11003 Adjustable universal bracket for pressure plugs.
	11003/2	pressure	42,8		
	11003/3	pressure	53,8 54		
	11003/4	pressure	56		10801 Brake fluid collection containers, complete with transparent tube and 90° flexible attachment for connection to the bleeder valve.
	11003/5	pressure	65,7		
	11003/6	pressure	74,2		
	11003/7	pressure	58,8		10802 Clutch bleeding connection tube, length 600 mm.
	11003/8	pressure	33,7		
	11003/9	pressure	35,8		

Note: to choose the connection plug see the "Brake bleeder plug list" tables (refer to page 33)



Non-toxic pressure sprayers

Painted carbon steel

Stainless steel AISI 304

Devices for the non-toxic spraying of low viscosity detergent liquids, such as lubrication oils and similar. Suitable for washing motor vehicles, graphiting, lubricating, delivering dismantling oils, etc. Filled to 3/4 their capacity with the required liquid and pressurised with air at 6 - 8 bar, they work independently without requiring continuous connection to the compressed air line.



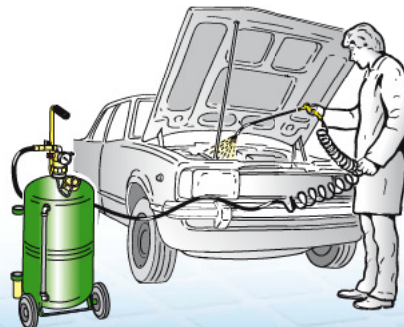
Art. 24891
Antisplash funnel



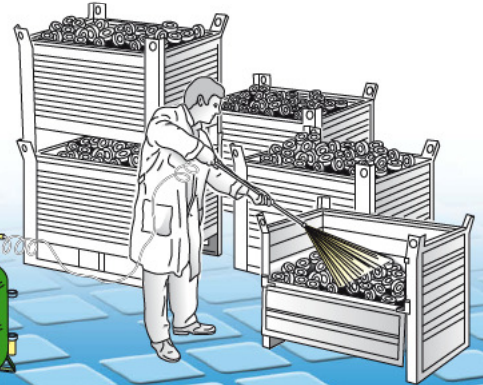
Article		22017	22024	23024	23025
Tank capacity	litres	16	24	24	24
Delivery hose length	m	5	5	5	5
Max working pressure	bar	10	8	8	8
Gun length	m	0,65	0,65	0,65	0,65
Safety valve	bar	10	8	8	8
Level gauge		yes	yes	yes	yes
Spray gun	Art.	24805	24805	24806	24806
Spray nozzle	Art.	24801	24801	24801	24801
Antisplash funnel	Art.	24891	24891	24891	24891
Packing	N° - m ³	1 - 0,080	1 - 0,090	1 - 0,090	1 - 0,090
Weight	kg	9,8	13	12,8	12,8
Dimensions (A - B - C)	cm	25,5 - 22,5 - 95	28 - 33 - 92	28 - 33 - 92	28 - 33 - 92

Caution: do not use with flammable or corrosive liquids

Attention: stainless steel pressure sprayers may also use aggressive fluids (such as some acid solutions) if only compatible with the materials composing the device



Spraying of detergent for washing engines



Spraying antioxidant, oil, diesel oil on mechanical parts

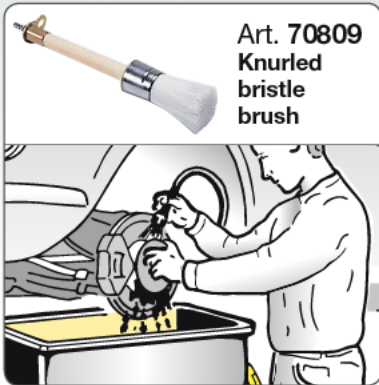


Washing tank

Universal washing tank for quick washing of mechanical parts and components in general.

The low-pressure pneumatic system enables:

- continuous liquid detergent flow with brush for thorough washing
- washing by dipping, with the parts dipped in the liquid detergent in the tank.



Art. 70809
Knurled
bristle
brush

Important: do not use corrosive liquids with flashpoint below 55°C, that can give off toxic and harmful fumes.
Use specific chemical products for washing mechanical parts, according to the instructions supplied by the manufacturer

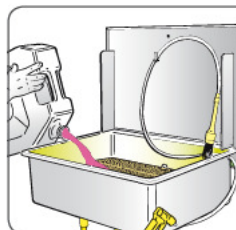
removable
cover



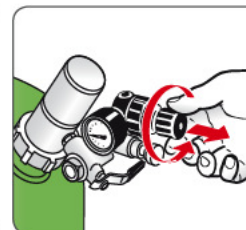
Article		70365
Tank capacity	litres	65
Washing tank capacity	litres	50
Max working pressure	bar	0,5
Required quantity of liquid	litres	50
Max blowing gun pressure	bar	12
Knurled bristle brush	Art.	70809
Packing	N° - m ³	2 - 0,290
Weight	kg	47,1
Dimensions (A - B - C)	cm	51 - 67 - 107



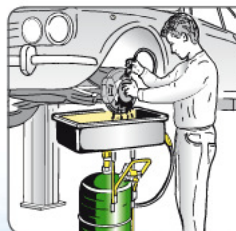
Details and advantages



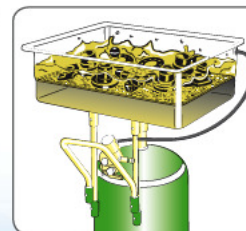
For correct use, add 48 - 52 litres of detergent liquid



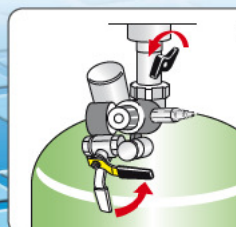
The pneumatic systems works at low pressure **0,5 bar**, consuming very little air



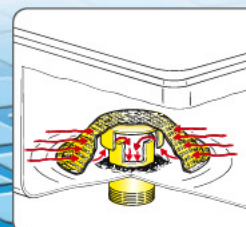
Washing with brush, with continuous liquid flow



Dip washing, with parts placed in the tank



Brush or dip wash management unit



Decanting filter/screen



Portable tyre inflator

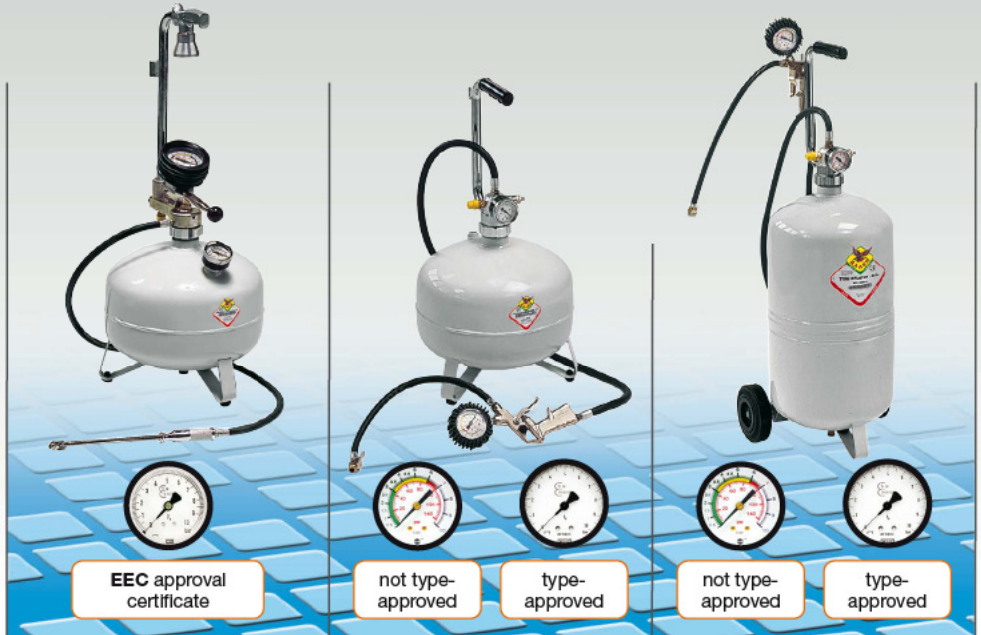
automatic charging

standard charging

Type-approved tyre inflator for checking and restoring the pressure of any type of tyre.

13 litres tank is available with standard or automatic charger, whereas 24 litres tank is available only with standard charger.

Tyre pressure checking and inflation operations are carried out with the gun equipped with pressure gauge ø 60 mm with scale 0 - 10 bar.

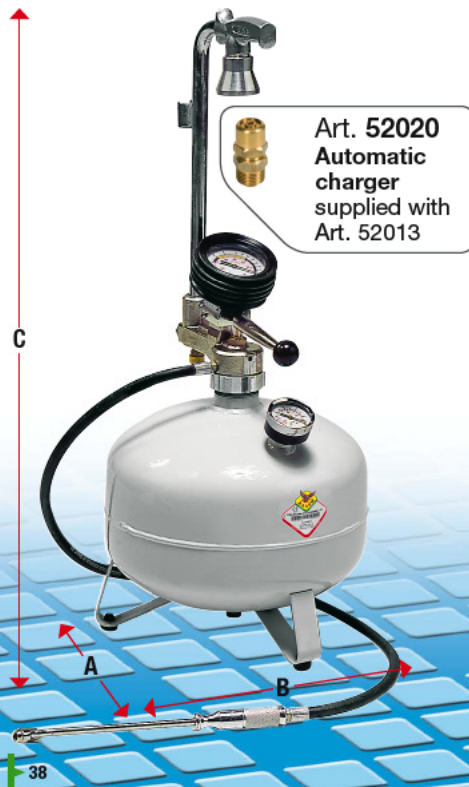


Article		52013	52015	53016	52024	53024
Tank capacity	litres	13	13	13	24	24
Max tank pressure	bar	10	10	10	8	8
Calibrated safety valve	bar	10	10	10	8	8
Manometer ø 50 tank pressure	bar	0 - 10	0 - 10	0 - 10	0 - 10	0 - 10
Max working pressure	bar	7	7	7	7	7
Manometer working pressure		0 - 10 bar supplied with the inflating group	0 - 10 bar supplied with the inflating gun	0 - 10 bar supplied with the inflating gun	0 - 10 bar supplied with the inflating gun	0 - 10 bar supplied with the inflating gun
Working temperature	°C	-20° +60°	-20° +60°	-20° +60°	-20° +60°	-20° +60°
Inflating hose length	m	1,2	1,2	1,2	1,2	1,2
Inflating gun		with twin air valve	standard	standard	standard	standard
Automatic charger	Art.	52020	-	-	-	-
Packing	N° - m ³	1 - 0,088	1 - 0,088	1 - 0,088	1 - 0,090	1 - 0,090
Weight	kg	8,8	6,5	6,5	10	10
Dimensions (A - B - C)	cm	31 - 31 - 75	31 - 31 - 60	31 - 31 - 60	28 - 33 - 86	28 - 33 - 86

Note: type-approved for public use

Note: not type-approved for public use

Note: not type-approved for public use

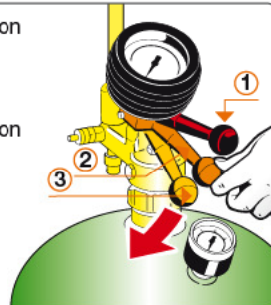


Art. 52020 Automatic charger supplied with Art. 52013

Details and advantages

The tyre inflation and deflating operations are done with single 3-position lever

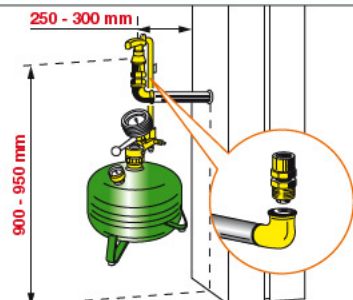
- ① idle
- ② deflation
- ③ inflation



Tyre pressure control and/or inflation operations are carried out with the inflating gun

INSTALLATION MEASURES for Art. 52013

In order to have the tyre inflator always ready for use, just place it on the automatic charger as shown in the illustration





The inflator hose reel

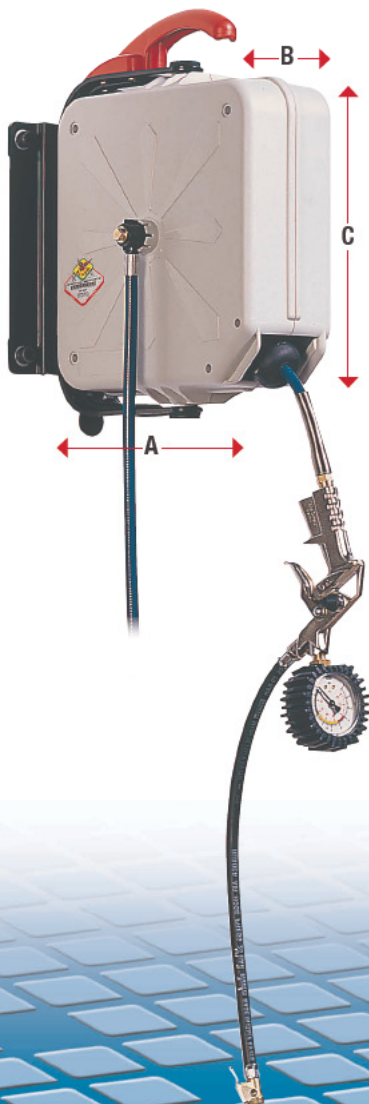
Inflation system with hose reel for checking and restoring the pressure of any type of tyre by means of the inflation gun equipped with pressure gauge \varnothing 60 mm with scale 0 - 10 bar. Constant connection to the compressed air system makes the inflation system always ready for use. The hose reel is equipped with a system for quick hooking to the wall support to facilitate possible moving.



Art. 89001
Bayonet
hooking
support



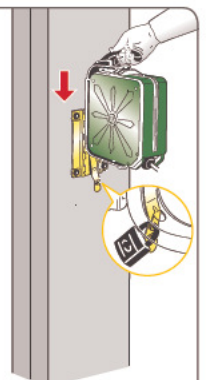
Article	52010	
Length tube	m	11
Length tube connection	m	1,5
Diameter of tube	mm	8 x 12
Inlet connection thread		M 1/4" G
Max working pressure	bar	10
Manometer \varnothing 60 working pressure	bar	0 - 10
Working temperature	$^{\circ}$ C	-20 $^{\circ}$ +60 $^{\circ}$
Packing	N $^{\circ}$ - m 3	1 - 0,019
Weight	kg	6,8
Dimensions (A - B - C)	cm	31 - 11,5 - 39



Details and advantages



Pic. 1



Pic. 2

Pic. 1 The inflation hose reel is provided with a **wall bracket** with automatic bayonet hooking (Art. 89001) enabling **very quick and easy** installation or shifting.

The ease of this operation enables - also for safety reasons - the hose reel to be put away in a closed place at the end of the working day.

Also, the application of a wall support for every service point, either inside or outside, facilitates quick shifting and application of the hose reel in the workstation required by the operator.

Pic. 2 To prevent removal or theft of the hose reel it can be locked with a bolt or padlock.