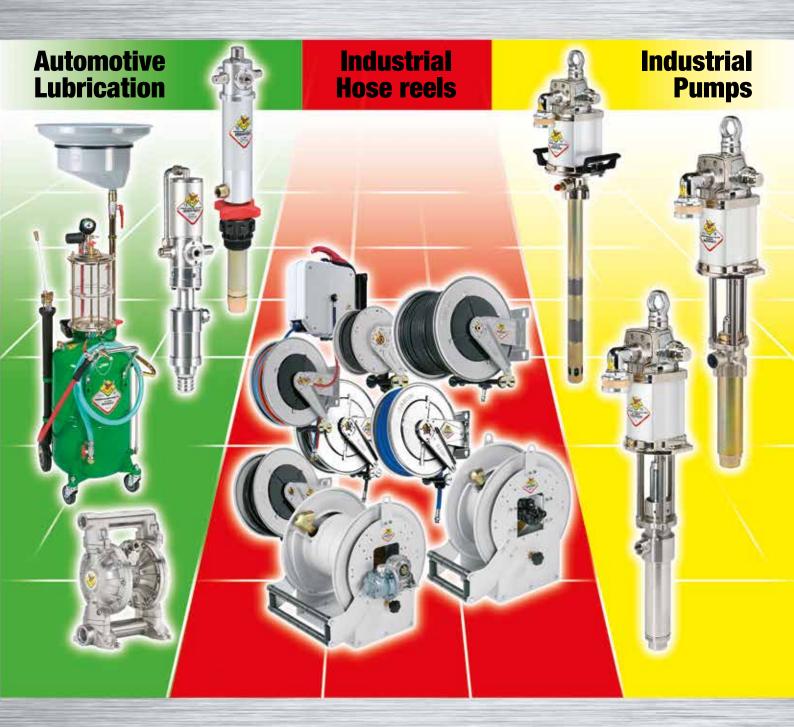
C E Made in Italy
DESIGNED AND MANUFACTURED
AT RAASM - ITALY



# **FLUIDS AND LUBRICATION EQUIPMENT**



technology, quality, functionality

Catalogue No 219

1st January 2011



General view of RAASM Area in San Zeno di Cassola - Vicenza



The starting point for the entire production cycle is the research and design of new solutions that will become cutting-edge products.















# **Automotive Iubrication**



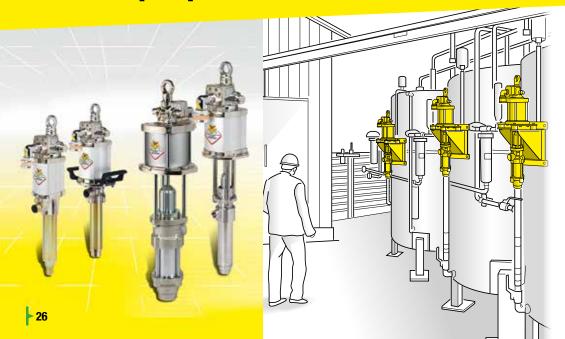
A wide variety of products for lubrication in the automotive, industrial, agricultural, marine and other sectors. Our products are designed to make work easier and quicker, according to the needs of our customers.

### **Industrial hose reels**



RAASM
hose reels
enable safe
and practical
management of any
type of hose for use with all
types of fluids.

# **Industrial pumps**



RAASM has created a wide range of industrial pumps to meet the most complex needs in application sectors such as industry, building, mining, shipyards, etc. This large range will certainly have the right pump for your application.



# **AUTOMOTIVE LUBRICATION**



31

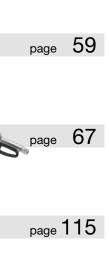
41

page

page

### **INDEX FAMILIES**









5 GREASE PUMPS AND ACCESSORIES

**6** SERVICE COLUMNS

page **133** 



HOSE REELS AND ACCESSORIES

page **143** 



8 INDUSTRIAL PUMPS AND ACCESSORIES

page **189** 



# FLUIDS AND LUBRICATION EQUIPMENT





# **Brake bleeding - washing - inflating**



### **BRAKE - CLUTCH BLEEDING**

page 32



#### PRESSURE SPRAYERS

page 36



**WASHING TANK** 

page 37



**TYRE INFLATOR** 

page 38



# Brake-clutch bleeding equipment

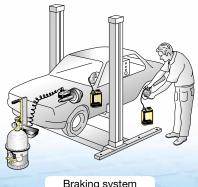
The simplified air-operated two-chamber or three chamber, brake bleeding device is suitable for bleeding the hydraulic brakes and clutches of all motor vehicles. Bleeding can be carried out in a few minutes by just one person. The brake-bleeding device is equipped with an elastic inner membrane which 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).



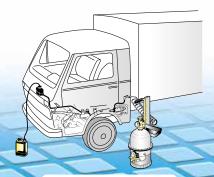


Article		10105	10205	10207	10705	10805	10807
Tank capacity	litres	5	5	5	5	5	5
Set of plugs	Art.	-	11001	11004	-	11001	11004
clutch bleeding tube	Art.	-	10802	10802	-	10802	10802
2 collection containers	Art.	10801	10801	10801	10801	10801	10801
Filler funnel		yes	yes	yes	yes	yes	yes
Max working pressure	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° - m³	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	43 - 25 - 65	43 - 25 - 65	45 - 25 - 65	45 - 25 - 65	45 - 25 - 65





Braking system bleeding phase

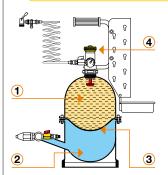


Truck clutch system bleeding phase

# Brake bleeder operation



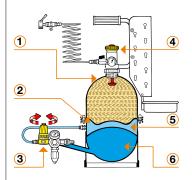
### 2 chambers operation



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 quickrelease 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.

11000/ LIST OF SCREW PLUGS FOR CARS							
ALFAA-D-L	JEEP	W	PEUGEOTD-F-M				
AUDID	KIA	_	PORSCHE				
AUSTIN MORRISA-D-T	LAMBORGHINI	D-H-W	RENAULTD-G-I-M				
AUTOBIANCHIB-H	LADA	H	ROVERA-D-W				
BMWD-W	LANCIA	D-H	SAABD				
CITROËND-E-I	LAND ROVER	T-W	SEAT				
CHRYSLERW	LEYLAND	A	SUBARUU-W				
DAEWOOD-W	MASERATI	D-G-L	SUZUKID-W				
FERRARID-G-H	MITSUBISHI	K-U	TALBOTD-F				
FIATA-B-D-H-I	MAZDA	D-W	TOYOTAW				
FORDA-D-T	MERCEDES	D	TRIUMPHT				
HYUNDAIW	MG	W	VAUXHALLA				
INOCENTIA-D-L	NISSAN	W	VOLKSWAGEN				
JAGUARL	OPEL	D-F	VOLVOD-G-U				

11000/ LIST OF SCREW PLUGS FOR TRUCKS						
ASTRAH	FIATA-B-D-F-H-I-P	RENAULTD-F-I-X-Z				
BEDFORDA-G-L	FORD	SCANIAD-G				
BERLIETD-F-T-X-Z	IVECOD-H-L	VOLVOR				
DAFD	MERCEDESD					

11003/ LIST OF PRESSURE PLUGS FOR CARS					
HONDAArt. 11003/4, /6	MAZDAArt. 11003/5, /9	SUZUKIArt. 11003/7			
KIA Art. 11003/5, /8	OPEL	TOYOTAArt. 11003/1, /2			
LEXUS Art. 11003/1	ROVERArt. 11003/6				

# **Screw connection plugs**

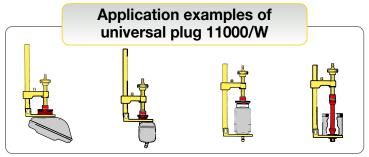


#### Art. 11001

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)





Art. 11002

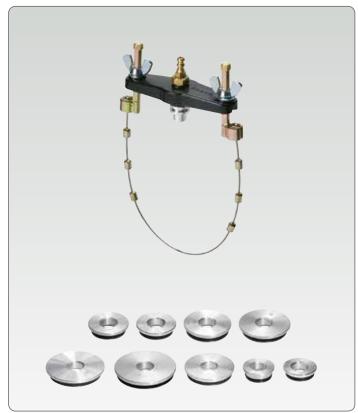
**Series of special screw connection plugs,** consinting of: 11000/B/C/E/G/H/K/L/M/P/R/U/X/Y/Z

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

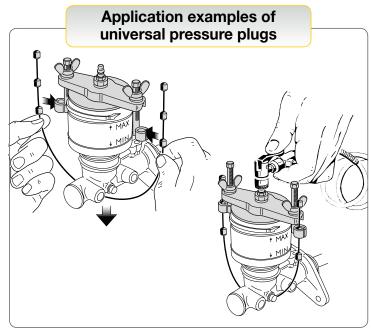
List of screw plugs suppliable individually							
A	Article	Plug series	Diameter (A) mm	A	Article	Plug series	Diameter (A) mm
*	11000/A	type A	25	4	11000/M	type M	68,5
<b>&amp;</b>	11000/B	type B	21,5	4	11000/P	type P	77
4	11000/C	type C	26,5	<b>&amp;</b>	11000/R	type R	33,5
<u></u>	11000/D	type D	43	4	11000/T	type T	44
	11000/E	type E	48		11000/U	type U	76
	11000/F	type F	52,5	4	11000/X	type X	44,5
4	11000/G	type G	64	•	11000/Y	type Y	34,5
	11000/H	type H	41,5	4	11000/Z	type Z	58,5
4	11000/I	type I	59		11000/W	ua W with 2 to	aporod pluge:
4	11000/K	type K	61,5		Offiversal pr	ug <b>W</b> with 3 to	ım
4	11000/L	type L	76,5	4		2) ø 28 m 3) ø 45 m	



# **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



List of pressure plugs suppliable individually							
A	Article	Plug series	Diameter (A) mm		Article	Description	
0	11003/1	pressure	42,2 42,5				
9	11003/2	pressure	42,8		11003	Adjustable universal bracket for pressure plugs.	
0	11003/3	pressure	53,8 54				
(6)	11003/4	pressure	56	a		Brake fluid collection	
	11003/5	pressure	65,7		10801	containers, complete with transparent tube and 90° flexible attachment for connection to the bleeder	
0	11003/6	pressure	74,2			valve.	
0	11003/7	pressure	58,8				
9	11003/8	pressure	33,7	<b>1</b>	10802	Clutch bleeding connection tube, length 600 mm.	
9	11003/9	pressure	35,8				



# Non-toxic pressure sprayers

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.





		THE PARTY OF			
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
	√° - m³	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

Attention: do not use with flammable or corrosive liquids

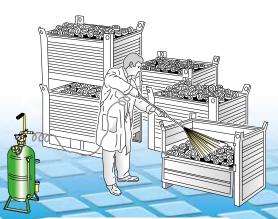
Attention: stainless steel pressure sprayers may also use aggressive fluids (such as some acid solutions) if only compatible with the materials composing the device

polished





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.



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

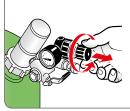
Article	70365
Tank capacity litres	65
Washing tank capacity litres	50
Max working pressure bar	0,5
Required quantity of liquid litres	50
Max blowing gun pressure bar	12
Knurled bristle brush Art.	70809
Packing N° - m <sup>3</sup>	2 - 0,290
Weight kg	47,1
Dimensions (A - B - C) cm	51 - 67 - 107



### **Details and advantages**



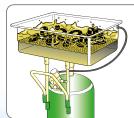
For correct use, add 48 - 52 litres of detergent liquid



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



Decanting filter/screen



# Portable tyre inflator

litres

bar

bar

bar

bar

°C

m

Art. N° - m<sup>3</sup>

kg

cm

# 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** 

Tank capacity

Max tank pressure

**Calibrated safety valve** 

Max working pressure

Working temperature Inflating hose length

Inflating gun Automatic charger

> Packing Weight

Manometer ø 50 tank pressure

Manometer working pressure

Dimensions (A - B - C)

EEC approval certificate	not type- approved	type- approved	not type- approved	type- approved	
52013	52015	53016	52024	53024	
13	13	13	24	24	
10	10	10	8	8	
10	10	10	8	8	
0 - 10	0 - 10	0 - 10	0 - 10	0 - 10	
7	7	7	7	7	
0 - 10 bar	0 - 10 bar	0 - 10 bar	0 - 10 bar	0 - 10 bar	
supplied with	supplied with	supplied with	supplied with	supplied with	
the inflating	the inflating	the inflating	the inflating	the inflating	
group	gun	gun	gun	gun	
-20° +60°	-20° +60°	-20° +60°	-20° +60°	-20° +60°	
1,2	1,2	1,2	1,2	1,2	
with twin air valve	standard	standard	standard	standard	
52020	- 1 - 0,088	- 1 - 0,088	1 - 0,090	1 - 0,090	
1 - 0,088 8,8	6,5	6,5	1 - 0,090	1 - 0,090	
0,0 31 - 31 - 75	31 - 31 - 60	31 - 31 - 60	28 - 33 - 86	28 - 33 - 86	
01 - 01 - 70	01-01-00	01-01-00	20 - 00 - 00	20 - 00 - 00	

Note: type-approved for public use

Note: not type-approved for public use Note: not type-approved for public use



### **Details and advantages**

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

1 idle

2 deflation

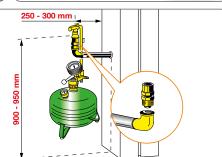
3 inflation





# **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 Ø 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.





**Article** 

Length tube

Diameter of tube

Length tube connection

Inlet connection thread

Max working pressure

Working temperature

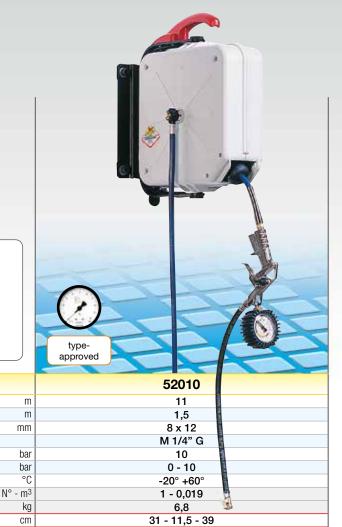
**Packing** 

Weight

Manometer ø 60 working pressure

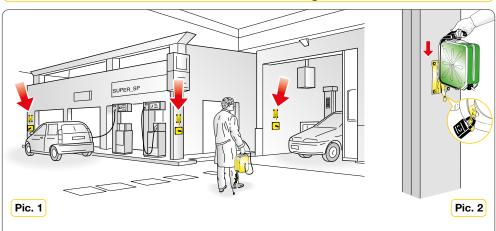
Dimensions (A - B - C)

Art. **89001**Bayonet
hooking
support





#### **Details and advantages**

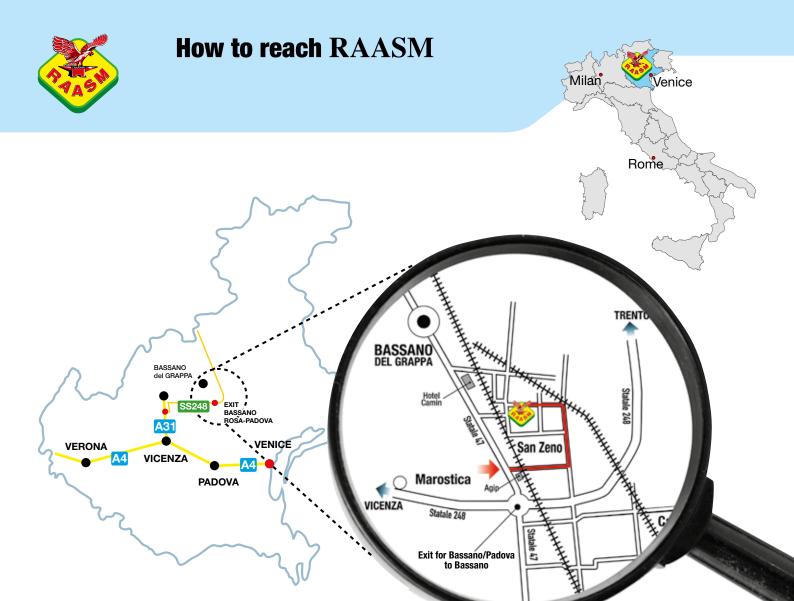


**Pic. 1** The inflation hose reel is provided with **a wall bracket** with automatic bayonet hooking (Art. 89001) enabling **very quick and easy** installation or shifting.

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.





### by plane

With regular flights, the nearest airports are those Venice Tessera, Verona Villafranca and Treviso.

- FROM VENICE TESSERA
   Bassano can be reached by train:
   Venice Padova Cittadella
   Bassano del Grappa.
- FROM VERONA VILLAFRANCA Bassano can be reached by train: Dossobuono - Verona - Vicenza Cittadella - Bassano del Grappa.
- FROM TREVISO
  Bassano can be reached by train:
  Treviso Castelfranco Cassola.



### by train

RAASM can be reached also by train, getting off at Bassano del Grappa station.

- BOLZANO: Bolzano Verona Vicenza - Cittadella - Bassano del Grappa.
- MILAN: Milan Verona Vicenza Cittadella Bassano del Grappa.
- BOLOGNA: Bologna Padova Cittadella Bassano del Grappa.
- TRIESTE UDINE: Trieste Udine Codroipo - Treviso - Castelfranco Bassano del Grappa.

RAASM is approx. 3 km from the Train Station.



# by own transport

Arriving by car from the north or west, with Verona as the reference point take the A4 Motorway towards Vicenza - Valdastico. At the Dueville exit head for Bassano del Grappa.

If arriving from the south, with Padova as the reference point take State Road 47 towards Cittadella Bassano del Grappa.



# THREE WORDS TO DESCRIBE RAASM

# Technology

The starting point for the entire production cycle is the research and development of cutting-edge new solutions which lead to the development of high quality products, fully produced in **Italy.** 



# Quality

The quality of our product manufacturing has always been our absolute priority. To reach this goal rigorous testing accompanies every phase of the manufacturing process.





# Functionality

RAASM offers the most complete range of lubrication products suited to many sectors.

Our aim is to always be available to provide solutions to our customers.



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Authorized distributor



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