

DROPS NOT LITERS!

MINIMAL
LUBRICATION
SYSTEMS

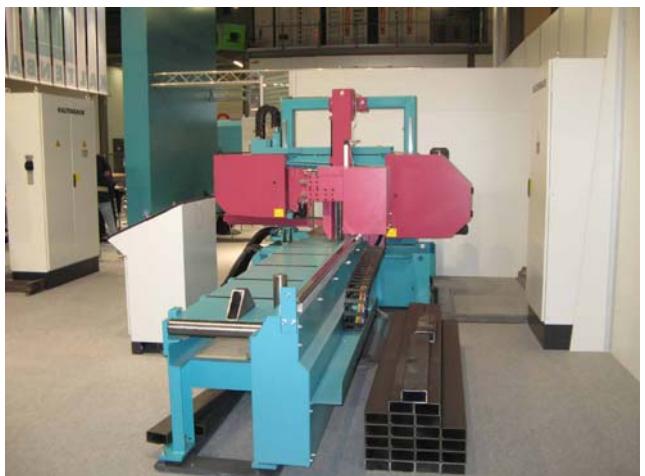
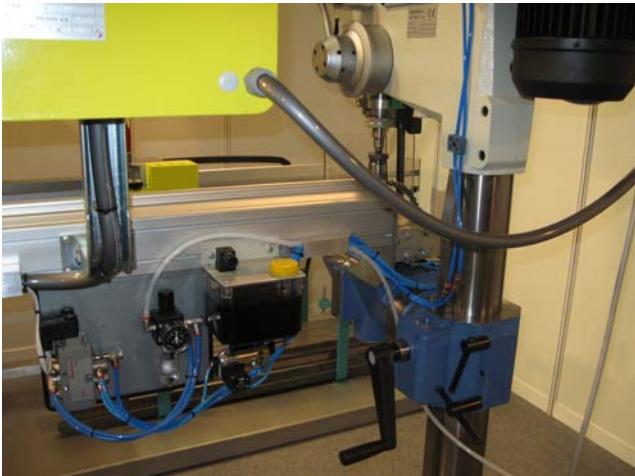


GOCCE NON LITRI!

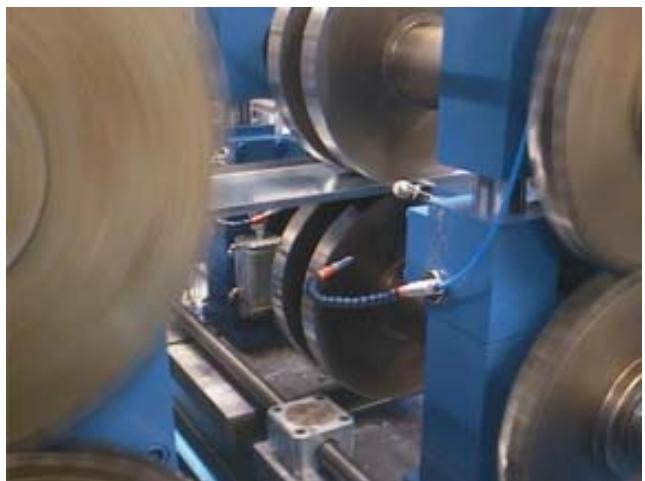
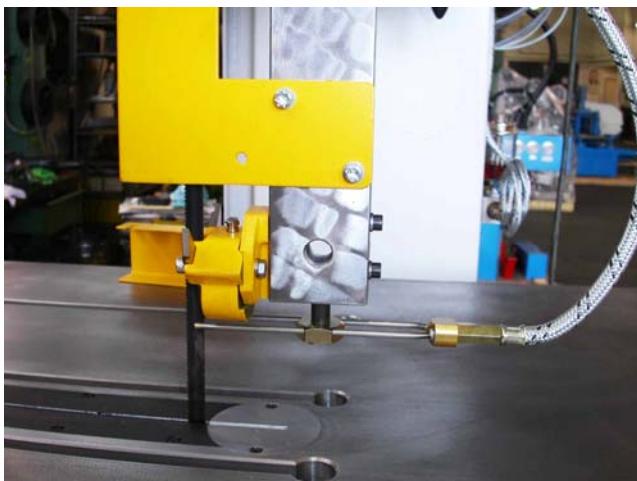


IMPIANTI
LUBRIFICAZIONE
MINIMALE





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INTRODUCTION

THE ILC MICRO-LUBRICATION SYSTEMS ARE DESIGNED FOR USE PRIMARILY IN THE VARIED METAL CUTTING AND FORMING PROCESSES TO ENABLE THE REPLACEMENT OF FLOOD AND WATER-SOLUBLE COOLANTS.

DUE TO THE WAY THE SYSTEMS DELIVER A PRECISE MINIMAL QUANTITY OF HEAVIER THAN AIR LUBRICATING OIL DROPLETS TO THE CUTTING EDGE VIA INDIVIDUALLY ADJUSTABLE PNEUMATIC PUMPS THERE IS NO MISTING EFFECT IN THE ATMOSPHERE. NO GENERATION OF FRICTION / HEAT BETWEEN THE WORK SURFACE AND THE TOOL CUTTING EDGE, AND THE LUBRICATING OIL IS CONSUMED IN THE MACHINING PROCESS. JUST A SMALL QUANTITY OF OIL DOES THE JOB AND HE IS NATURALLY CONSUMED IN THE CUTTING PROCESS, SO THERE IS NO HARMFUL MISTING OR HAZARDOUS WASTE DISPOSAL TO WORRY ABOUT AND THAT CAN MEAN HIGHER PRODUCTIVITY, SINCE YOU DO NOT SPEND TIME CLEANING PARTS OR DISPOSING OF USED COOLANTS.

THEY PREVENT HEAT BUILD-UP AND CONTROL HEAT DISTORTION, SO YOU GET A TRUER CUT AND CLEANER MACHINE OPERATION. SINCE TOOLS AND PARTS STAY AT ROOM TEMPERATURE DURING CUTTING OPERATION, TOOL LIFE IS DRAMATICALLY INCREASED AND MAINTENANCE AND REPLACEMENT COSTS ARE REDUCED. REDUCED HANDLING AND STORAGE OF HAZARDOUS MATERIALS MEANS A SAFER, CLEANER WORKING ENVIRONMENT. AND CLEAN-UP IS EASY, USING JUST SOAP AND HOT WATER (160 °F / 70 °C).

ADVANTAGES

A CLEANER SAFER WORKING ENVIRONMENT

HIGHER PRODUCTIVITY

INCREASED TOOL LIFE

BETTER SURFACE FINISH

COST REDUCTION

THE ABILITY TO MACHINE TO HIGHER TOLERANCES

LUBROREFRIGERANT CONSUMPTION REDUCTION 90% LOWER

NO COOLANT HANDLING OR DISPOSAL PROBLEMS

DRY CHIPS (SWARF)

LESS MACHINE DOWN TIME

INCREASED PRODUCTIVITY

SHORT PAY BACK TIME



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APPLICATIONS

PROVEN RESULTS IN THE FOLLOWING PRIMARY APPLICATIONS



BAND SAWING



CIRCULAR SAWING



MILLING



ENGRAVING



TAPPING



BORING



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DRILLING



BROACHING



TOOL AND CUTTER GRINDING



ROLLING



GEAR CUTTING



BENDING



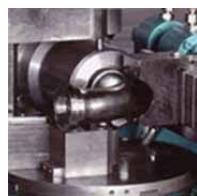
PUNCHING



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ROLLFORMING



PIPE BENDING



STAMPING



METAL SPINNING



BELTS AND COILS



MONO AND BI-RAILS CONVEYORS



CHAINS



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FOOD MACHINERY



PROTECTIVE COATING SPRAY



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THE UNIQUE ADVANTAGES OF LUBETOOL

LUBETOOLS REGULATE THE LUBRICANT SUPPLIED IN EXACT QUANTITIES ADJUSTABLE FROM 0 MM³ TO 41 MM³ – NO GUESSWORK.

100% PNEUMATICALLY CONTROLLED POSITIVE DISPLACEMENT PUMPS.

LUBRICANT IS CARRIED BY AIR, WITH PINPOINT ACCURACY. HAZARDOUS ATOMIZING AND “MIST” ARE ELIMINATED.

ALL PUMPS AND NOZZLE OPERATE INDEPENDENTLY FOR LUBRICANT.

ADDITIONAL PUMPS CAN BE ADDED IN THE FIELD. JUST ORDER A COMPLETE PUMP ASSEMBLY.

MINIMAL OR NO EQUIPMENT MODIFICATION IS REQUIRED FOR SYSTEM INSTALLATION.

A PNEUMATIC TIMING DEVICE (FREQUENCY GENERATOR) WITH A CONTROL RANGE.

EASY LUBRICANT AND AIR FLOW ADJUSTMENT.

DURABLE RESERVOIR.

STANDARD HOSE LENGTH IS 5 M. ADDITIONAL HOSE LENGTH AVAILABLE UPON REQUEST.

MULTIPLE NOZZLE TYPES AVAILABLE.

LUBETOOL WILL GET THE JOB DONE FOR YOU!

PRODUCTION RATES WILL INCREASE.

TOOL LIFE WILL IMPROVE.

HAZARDOUS AIRBORNE PARTICLES, WASTE DISPOSAL HASSLES AND PARTS CLEANING WILL BE ELIMINATED.

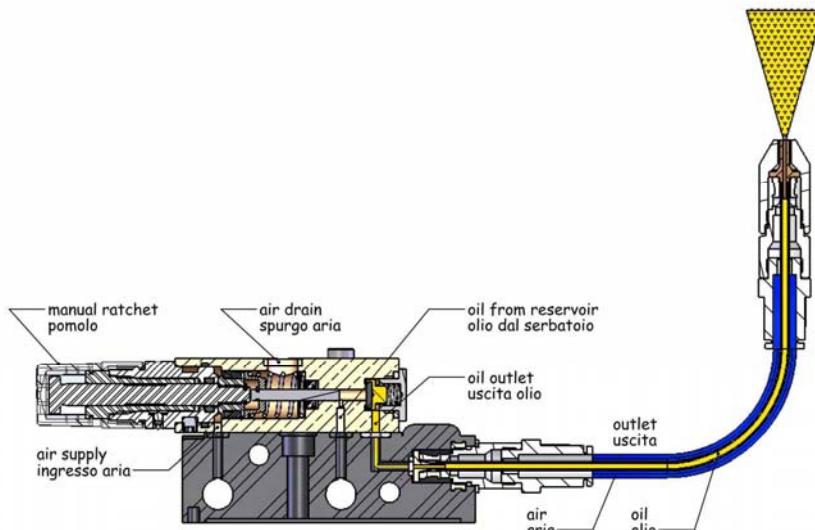


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**WORKING PRINCIPLE
DROPS INSTEAD OF LITERS!**

AN ADJUSTABLE POSITIVE DISPLACEMENT METERING PNEUMATIC PUMP DELIVERS A MINIMAL QUANTITY OF LUBRICANT ALONG A CAPILLARY TUBE FITTED INSIDE LENGTH OF THE AIR LINE TO THE NOZZLE HEAD. AT THIS POINT THE LUBRICANT DROPLET IS INTRODUCED INTO THE AIR STREAM AND TRANSPORTED TO THE CUTTING EDGE. THE LUBRICANT FORMS A THIN EVEN COAT ON THE CUTTING EDGE GREATLY REDUCING THE FRICTIONAL HEAT.

POSITIVE DISPLACEMENT METERING PNEUMATIC PUMP



OPERATION

WHEN THE COMPRESSED AIR AT A PRESSURE OF BETWEEN 5 (75 PSI) AND 10 (150 PSI) BAR IS PASSED TO THE PUMP IT ACTS ON THE TOP FACE OF THE PISTON. THE PISTON THEN OPERATES AND A PRECISE SET AMOUNT OF LUBRICANT IS DELIVERED THROUGH THE OUTLET TO THE DELIVERY PORT AND ALONG THE CAPILLARY TUBE. THE AIR IS THEN EXHAUSTED THE PISTON RE-SEATS UNDER SPRING PRESSURE AND THE METERING CHAMBER REFILLS WITH LUBRICANT. THE PUMP IS NOW RESET FOR ANOTHER DELIVERY CYCLE. THE STROKES PER MINUTE CAN BE ADJUSTED BETWEEN 3 EACH SECOND TO 1 EACH MINUTE VIA THE FREQUENCY GENERATOR BUT THESE CAN VARY SLIGHTLY DUE TO THE LUBRICANT USED AND THE AIR PRESSURE

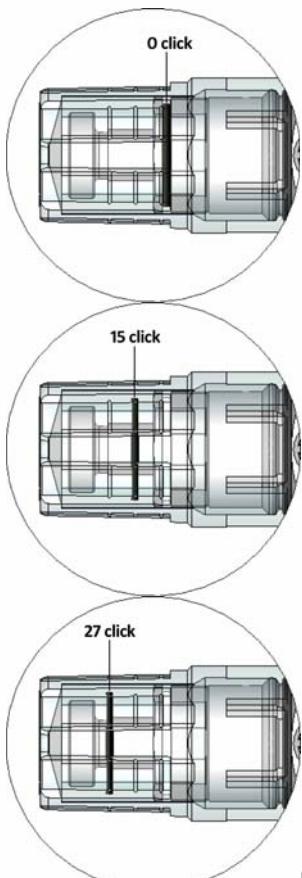
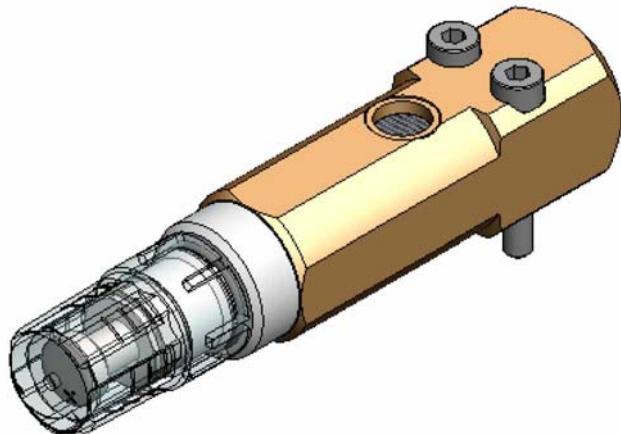
THE LUBRICANT DISCHARGE CAN ALSO BE ADJUSTED BY MEANS OF THE PUMPS' MANUAL RATCHET ADJUSTER TO GIVE A DISCHARGE BETWEEN 0 MM³ AND 41 MM³ PER STROKE.



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HOW TO ADJUST THE DISCHARGE PER STROKE

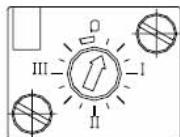
TURNING THE ADJUSTER CLOCKWISE WILL DECREASE THE PUMP DISCHARGE AND TURNING THE ADJUSTER COUNTER -CLOCKWISE WILL INCREASE THE PUMP DISCHARGE.



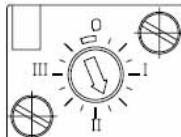
INCREMENTS	DISCHARGE / CYCLE
CLICK 0	39,00
CLICK 1	37,23
CLICK 2	35,47
CLICK 3	33,70
CLICK 4	31,93
CLICK 5	30,16
CLICK 6	28,40
CLICK 7	26,63
CLICK 8	24,86
CLICK 9	23,10
CLICK 10	21,33
CLICK 11	19,56
CLICK 12	17,79
CLICK 13	16,03
CLICK 14	14,26
CLICK 15	12,49
CLICK 16	10,73
CLICK 17	8,96
CLICK 18	7,19
CLICK 19	5,42
CLICK 20	3,66
CLICK 21	1,89
CLICK 22	0,12
CLICK 23	0,00
CLICK 24	0,00
CLICK 25	0,00
CLICK 26	0,00
CLICK 27	0,00



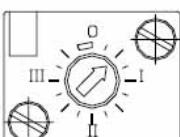
HOW TO ADJUST THE FREQUENCY GENERATOR WITH AIR AT 6 BAR (90 PSI)



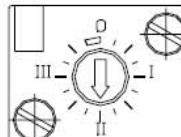
66 CICLI / MINUTO
66 STROKES / MINUTE



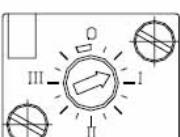
5 CICLI / MINUTO
5 STROKES / MINUTE



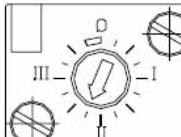
37 CICLI / MINUTO
37 STROKES / MINUTE



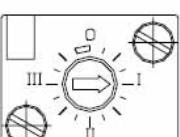
4 CICLI / MINUTO
4 STROKES / MINUTE



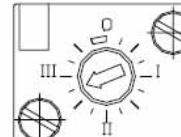
21 CICLI / MINUTO
21 STROKES / MINUTE



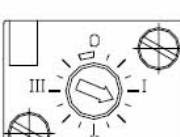
3 CICLI / MINUTO
3 STROKES / MINUTE



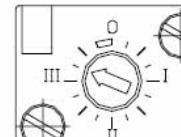
13 CICLI / MINUTO
13 STROKES / MINUTE



2 CICLI / MINUTO
2 STROKES / MINUTE



10 CICLI / MINUTO
10 STROKES / MINUTE



1 CICLO / MINUTO
1 STROKE / MINUTE



6 CICLI / MINUTO
6 STROKES / MINUTE

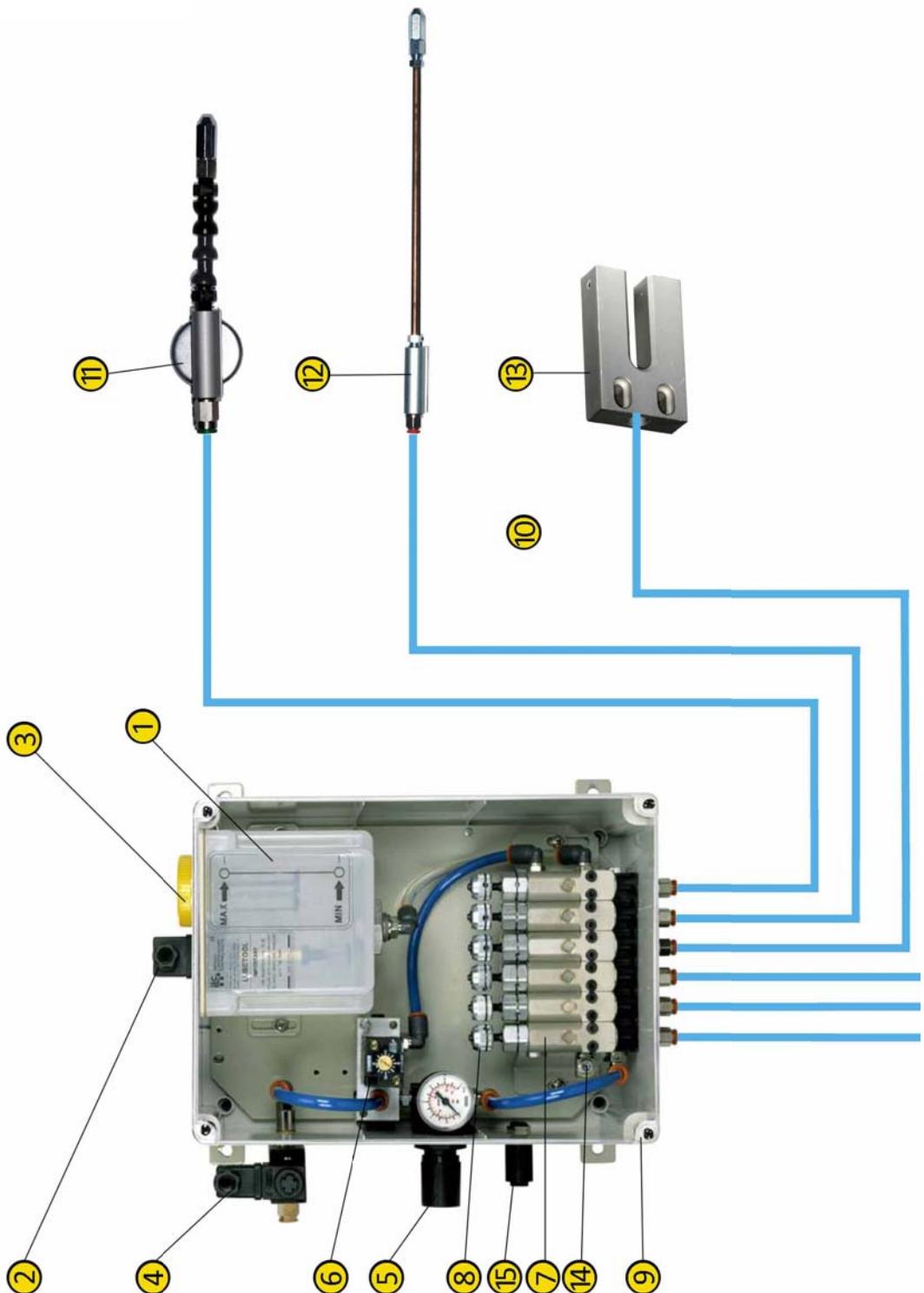
WITH THE AIR PRESSURE 5 BAR (75 PSI) THE VALUES HAVE TO BE
INCREASED OF ABOUT 7%

WITH THE AIR PRESSURE 7 BAR (105 PSI) THE VALUES HAVE TO
BE DECREASED OF ABOUT 4%

WITH THE AIR PRESSURE 8 BAR (120 PSI) THE VALUES HAVE TO
BE DECREASED OF ABOUT 8%



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INFORMATION AND OPERATING INSTRUCTIONS

1. LIQUID RESERVOIR: SEMITRSPARENT, NYLON IMPACT RESISTANT HAS A CAPACITY OF 1.2 L, 2.2 L OR 3.6 L

2. LOW LEVEL SWITCH: THE CONTACT CLOSE WHEN THE RESERVOIR IS EMPTY.

3. FILLER CUP: TO RE-FILL OIL IN THE RESERVOIR.

4. AIR SUPPLY: A SOLENOID VALVE WITH A COIL 24 V DC, 24 V AC, 115 V AC OR 230 V AC SUPPLY THE AIR IN THE SYSTEM. AIR PRESSURE SHOULD BE MIN 5 BAR (75 PSI) MAX 8 BAR (120 PSI). VERY IMPORTANT IS TO INSTALL A STANDARD PARTICLE FILTER (5 MICRON) TO ELIMINATE PARTICLES AND WATER FROM ENTERING THE SYSTEM. IF THERE IS PROBLEM WITH OIL IN THE AIR SYSTEM, WE SUGGEST RUNNING A COALESCING FILTER IN TANDEM WITH THE PARTICLE AIR FILTER.

5. AIR REGULATOR WITH GAUGE: THIS SWITCH ALLOWS THE FLOW OF AIR TO GO IN THE NOZZLES. TURN SWITCH CLOCKWISE TO TURN AIR ON, AND COUNTER-CLOCKWISE TO TURN AIR OFF. THE AIR PRESSURE HAS TO BE FROM 0.5 BAR (8 PSI) TO 3 BAR (45 PSI). WE SUGGEST 1.5 BAR (22 PSI).

6. FREQUENCY GENERATOR: THIS VALVE CONTROLS THE FREQUENCY AT WHICH THE PUMP CYCLE. TO INCREASE THE SPEED OF THE PUMPS, TURN SCREWDRIVER ADJUSTMENT COUNTER-CLOCKWISE.

7. PNEUMATIC PUMP: EACH STROKE GIVE AN EXACT AMOUNT OF OIL TO THE OUTLET.

8. OIL FLOW ADJUSTMENT: THE MANUAL RATCHETS REGULATE THE AMOUNT OF LUBRICANT THAT IS SUPPLIED WITH EACH STROKE OF THE PUMP (ADJUSTABLE FROM 0 MM³ TO 41 MM³ /STROKE).

9. BOX: DURABLE IMPACT-RESISTANT LOCKING PLASTIC BOX.

10. COAXIAL FEEDING LINE: TO SUPPLY OIL SEPARATE FROM AIR TO THE NOZZLE.

11. LOC-LINE MAGNETIC BASE NOZZLE

12. STEEL FIXED BASE NOZZLE

13. SAW SADDLE NOZZLE

14. AIR DRAIN: TO PURGE AIR FROM THE OIL SYSTEM

15. STRAINER EXHAUST AIR



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**LUBETOOL UCGF, UCGF-SE, AGGF AND AGGF-SE WITH
FREQUENCY GENERATOR**

THE INSIDE PNEUMATIC CIRCUIT GOES DIRECT TO THE AIR FEEDING LINES AND TO THE PUMPS (THROUGH THE FREQUENCY GENERATOR). WHEN THE SOLENOID VALVE IS ENERGIZED THE PUMPS CAN CYCLE (ADJUSTABLE WITH THE FREQUENCY GENERATOR) AND AIR IS SENT CONTINUOUSLY TO THE TOOL. THE SOLENOID VALVE HAS TO BE ENERGIZED BEFORE THE TOOL WILL BEGIN TO MACHINE AND SHUT DOWN WHEN THE TOOL WILL FINISH TO MACHINE.

**LUBETOOL UCSG, UCSG-SE, AGSG AND AGSG-SE WITHOUT
FREQUENCY GENERATOR**

THE UCSG TYPES NEED AN EXTERNAL DRIVE TO ADJUST THE FREQUENCY AT WHICH THE PUMPS CYCLE. THE INSIDE PNEUMATIC CIRCUIT GOES DIRECT TO THE AIR FEEDING LINES AND TO THE PUMPS. WHEN THE SOLENOID VALVE IS ENERGIZED THE PUMPS CAN CYCLE 1 TIME AND AIR IS SENT CONTINUOUSLY TO THE TOOLS. TO HAVE ANOTHER PUMP CYCLE THE SOLENOID VALVE HAVE TO BE DEENERGIZED AND AFTER ENERGIZED (MINIMUM PAUSE TIME IS 0.5 SECONDS).

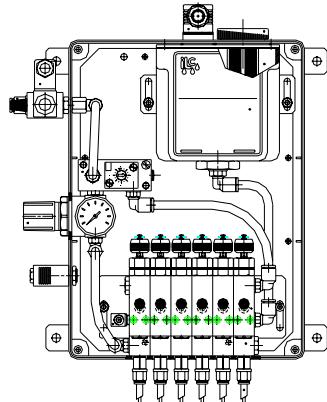
FEATURES

DISCHARGE	FROM 0 MM ³ TO 41 MM ³
PUMPS	FROM 1 TO 6
SOLENOID VALVE	24 V DC – 24 V AC – 115 V AC – 230 V AC
FROM 3 /SECOND TO 1 /MINUTE	
RESERVOIR	1.2 L
LUBRICANT	OIL MAX 800 cSt 40 °C
LOW LEVEL SWITCH	1 A 250 V AC – 220 V DC – 50 W
AIR PRESSURE	FROM 4 BAR TO 8 BAR
AIR CONSUMED AT 6 BAR/POINT	MIN: 60 L/M – MAX 100 L/M



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UCGF



THE UNIT IS SUPPLIED COMPLETE OF:

RESERVOIR 1.2 L

LOW LEVEL SWITCH: 1 A 250 V AC 200 V DC 50 W

PUMPS FROM 1 TO 6

5 M COAXIAL FEEDING LINES FOR EACH OUTLET (6 MM – 2.5 MM)

BOX ABS WITH TRANSPARENT FRONT DOOR

SOLENOID VALVE 24 V DC – 24 V AC – 115 V AC OR 230 V AC
THE VOLTAGE HAS TO BE ADD TO THE CODE. EXAMPLE
70.000.0.24VDC

AIR REGULATOR + PRESSURE GAUGE

FREQUENCY GENERATOR

ORDERING CODES

CODE	TYPE	NUMBER of PUMPS
70.000.0	UCGF – 1	1
70.000.1	UCGF – 2	2
70.000.2	UCGF – 3	3
70.000.3	UCGF – 4	4
70.000.4	UCGF – 5	5
70.000.5	UCGF – 6	6

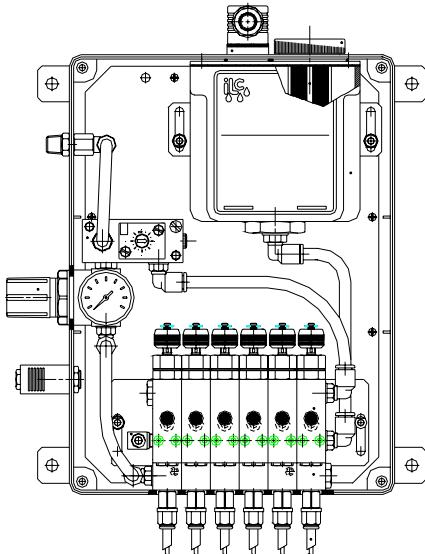
CODES TO ORDER SOLENOID VALVE COILS

14.660.1.R	14.660.2.R	14.660.3.R	14.660.4.R
24 V DC	115 V AC	230 V AC	24 V AC



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UCGF-SE



THE UNIT IS SUPPLIED COMPLETE OF:

RESERVOIR 1.2 L

LOW LEVEL SWITCH: 1 A 250 V AC 200 V DC 50 W

PUMPS FROM 1 TO 6

5 M COAXIAL FEEDING LINES FOR EACH OUTLET (6 MM – 2.5 MM)

BOX ABS WITH TRANSPARENT FRONT DOOR

AIR REGULATOR + PRESSURE GAUGE

FREQUENCY GENERATOR

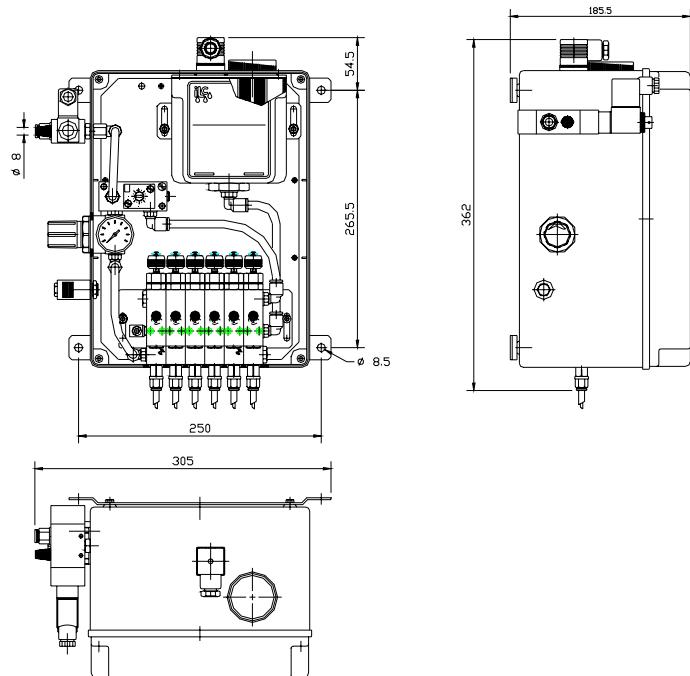
ORDERING CODES

CODE	TYPE	NUMBER of PUMPS
70.009.0	UCGF - SE - 1	1
70.009.1	UCGF - SE - 2	2
70.009.2	UCGF - SE - 3	3
70.009.3	UCGF - SE - 4	4
70.009.4	UCGF - SE - 5	5
70.009.5	UCGF - SE - 6	6

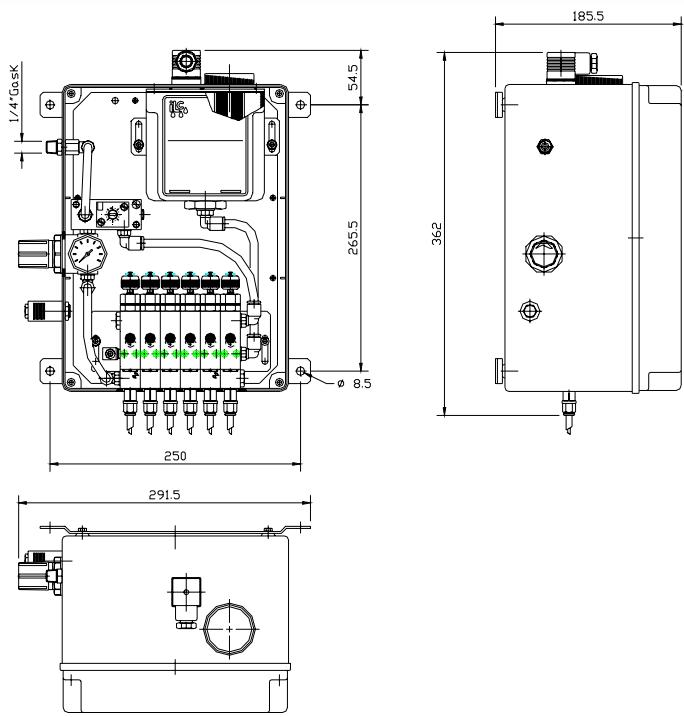


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OVERALL DIMENSION UCGF

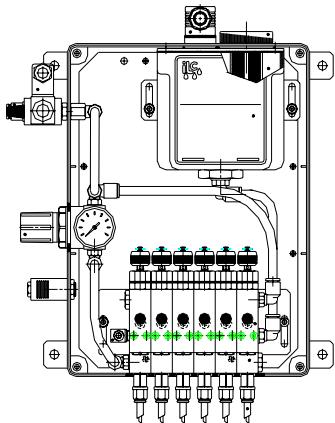


OVERALL DIMENSION UCGF - SE



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UCSG



THE UNIT IS SUPPLIED COMPLETE OF:

RESERVOIR 1.2 L

LOW LEVEL SWITCH: 1 A 250 V AC 200 V DC 50 W

PUMPS FROM 1 TO 6

5 M COAXIAL FEEDING LINES FOR EACH OUTLET (6 MM – 2.5 MM)

BOX ABS WITH TRANSPARENT FRONT DOOR

**SOLENOID VALVE 24 V DC – 24 V AC – 115 V AC OR 230 V AC
THE VOLTAGE HAS TO BE ADD TO THE CODE. EXAMPLE
70.001.0.24VDC**

AIR REGULATOR + PRESSURE GAUGE

ORDERING CODES

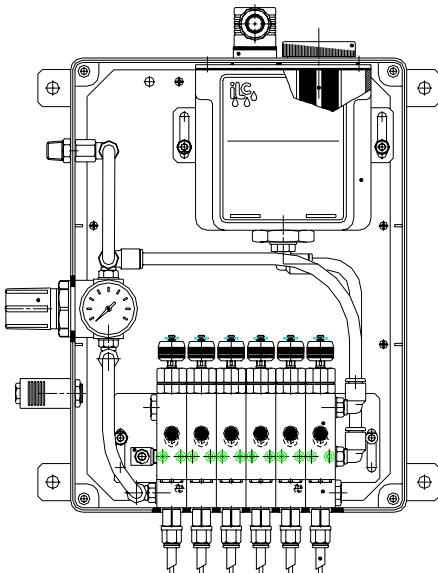
CODE	TYPE	NUMBER of PUMPS
70.001.0	UCSG - 1	1
70.001.1	UCSG - 2	2
70.001.2	UCSG - 3	3
70.001.3	UCSG - 4	4
70.001.4	UCSG - 5	5
70.001.5	UCSG - 6	6

CODES TO ORDER SOLENOID VALVE COILS

14.660.1.R	14.660.2.R	14.660.3.R	14.660.4.R
24 V DC	115 V AC	230 V AC	24 V AC



UCSG-SE



THE UNIT IS SUPPLIED COMPLETE OF:

RESERVOIR 1.2 L

LOW LEVEL SWITCH: 1 A 250 V AC 200 V DC 50 W

PUMPS FROM 1 TO 6

5 M COAXIAL FEEDING LINES FOR EACH OUTLET (6 MM – 2.5 MM)

BOX ABS WITH TRANSPARENT FRONT DOOR

AIR REGULATOR + PRESSURE GAUGE

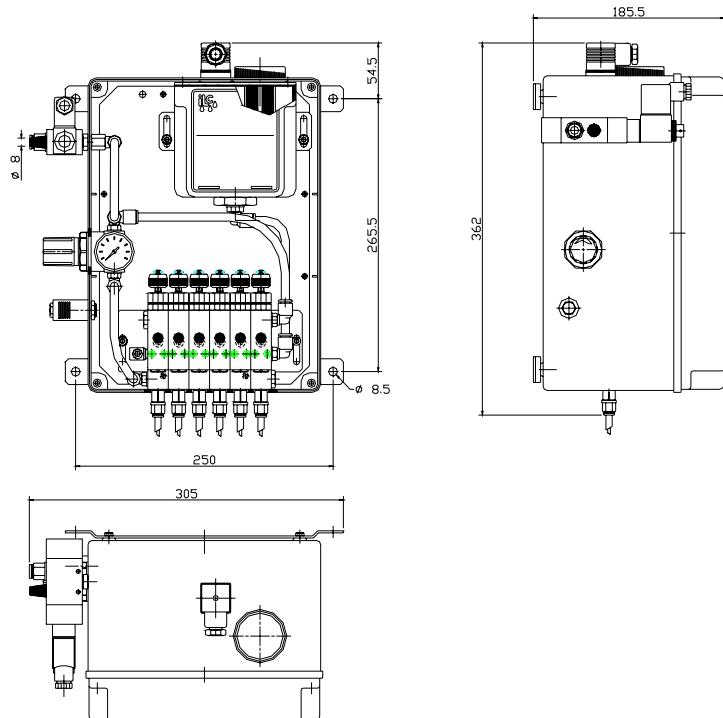
ORDERING CODES

CODE	TYPE	NUMBER of PUMPS
70.010.0	UCSG – SE – 1	1
70.010.1	UCSG – SE – 2	2
70.010.2	UCSG – SE – 3	3
70.010.3	UCSG – SE – 4	4
70.010.4	UCSG – SE – 5	5
70.010.5	UCSG – SE – 6	6

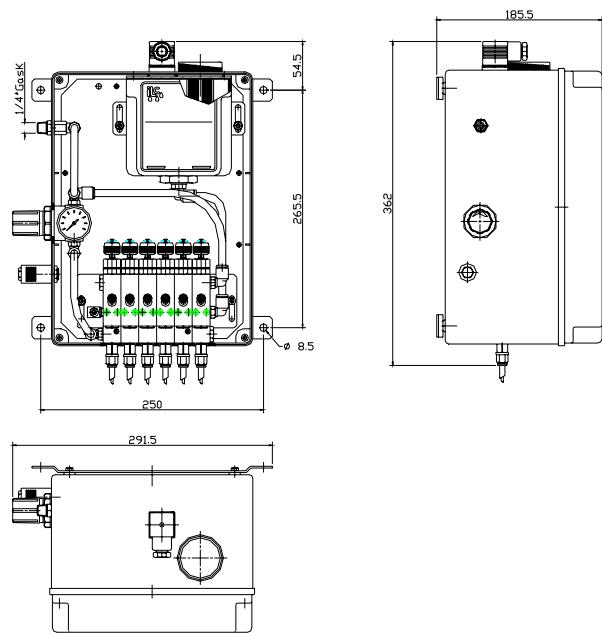


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OVERALL DIMENSION UCSG

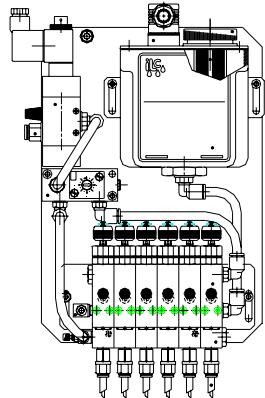


OVERALL DIMENSION UCSG - SE



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AGGF



THE UNIT IS SUPPLIED COMPLETE OF:

RESERVOIR 1.2 L

LOW LEVEL SWITCH: 1 A 250 V AC 200 V DC 50 W

PUMPS FROM 1 TO 6

5 M COAXIAL FEEDING LINES FOR EACH OUTLET (6 MM – 2.5 MM)

**SOLENOID VALVE 24 V DC – 24 V AC – 115 V AC OR 230 V AC
THE VOLTAGE HAS TO BE ADD TO THE CODE. EXAMPLE
70.006.0.24VDC**

AIR REGULATOR

FREQUENCY GENERATOR

ORDERING CODES

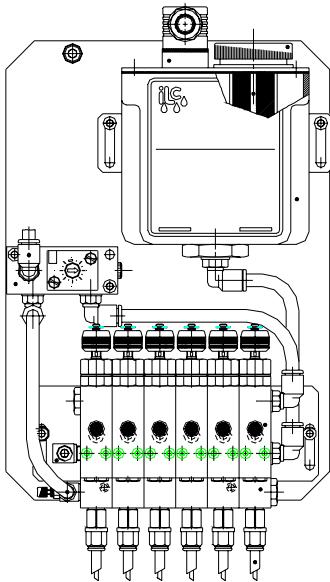
CODE	TYPE	NUMBER of PUMPS
70.006.0	AGGF - 1	1
70.006.1	AGGF - 2	2
70.006.2	AGGF - 3	3
70.006.3	AGGF - 4	4
70.006.4	AGGF - 5	5
70.006.5	AGGF - 6	6

CODES TO ORDER SOLENOID VALVE COILS

14.660.1.R	14.660.2.R	14.660.3.R	14.660.4.R
24 V DC	115 V AC	230 V AC	24 V AC



AGGF -SE



THE UNIT IS SUPPLIED COMPLETE OF:

RESERVOIR 1.2 L

LOW LEVEL SWITCH: 1 A 250 V AC 200 V DC 50 W

PUMPS FROM 1 TO 6

5 M COAXIAL FEEDING LINES FOR EACH OUTLET (6 MM – 2.5 MM)

AIR REGULATOR

FREQUENCY GENERATOR

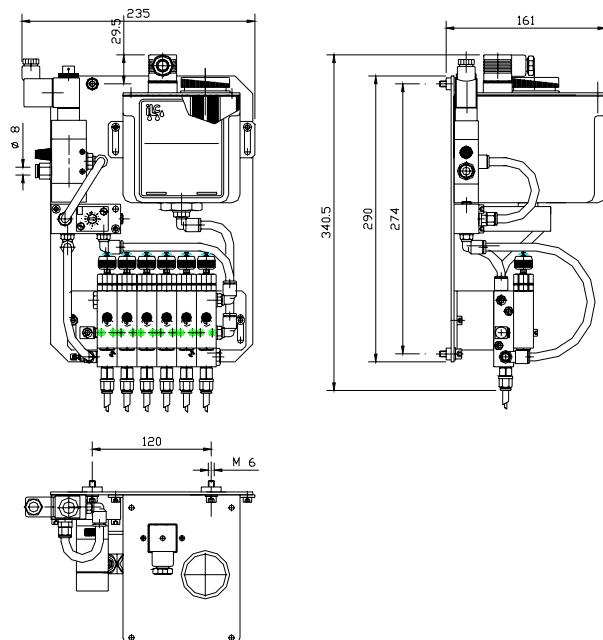
ORDERING CODES

CODE	TYPE	NUMBER of PUMPS
70.002.0	AGGF - SE - 1	1
70.002.1	AGGF - SE - 2	2
70.002.2	AGGF - SE - 3	3
70.002.3	AGGF - SE - 4	4
70.002.4	AGGF - SE - 5	5
70.002.5	AGGF - SE - 6	6

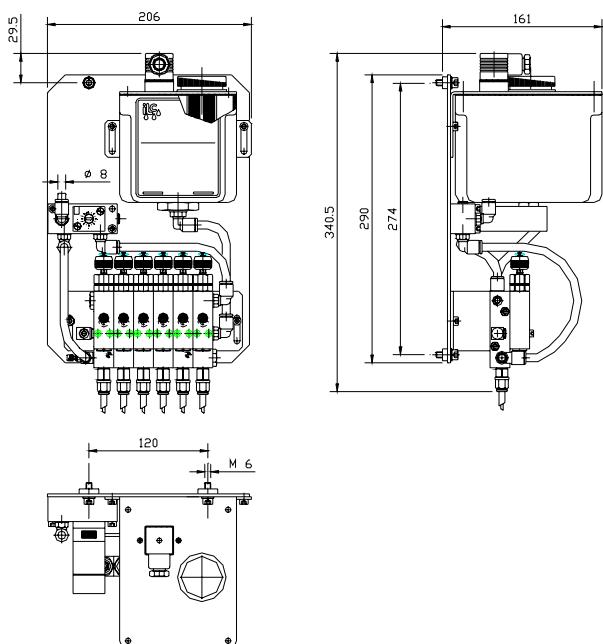


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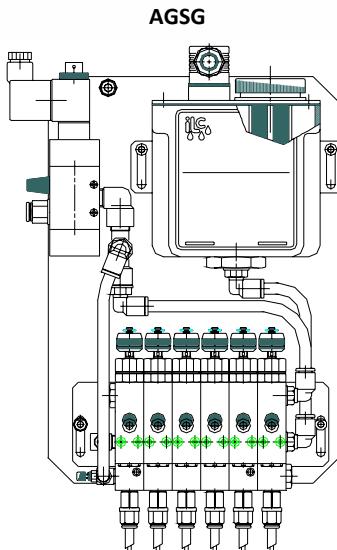
OVERALL DIMENSION AGGF



OVERALL DIMENSION AGGF - SE



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THE UNIT IS SUPPLIED COMPLETE OF:

RESERVOIR 1.2 L

LOW LEVEL SWITCH: 1 A 250 V AC 200 V DC 50 W

PUMPS FROM 1 TO 6

5 M COAXIAL FEEDING LINES FOR EACH OUTLET (6 MM – 2.5 MM)

**SOLENOID VALVE 24 V DC – 24 V AC – 115 V AC OR 230 V AC
THE VOLTAGE HAS TO BE ADD TO THE CODE. EXAMPLE
70.018.0.24VDC**

AIR REGULATOR

ORDERING CODES

CODE	TYPE	NUMBER of PUMPS
70.018.0	AGSG – 1	1
70.018.1	AGSG – 2	2
70.018.2	AGSG – 3	3
70.018.3	AGSG – 4	4
70.018.4	AGSG – 5	5
70.018.5	AGSG – 6	6

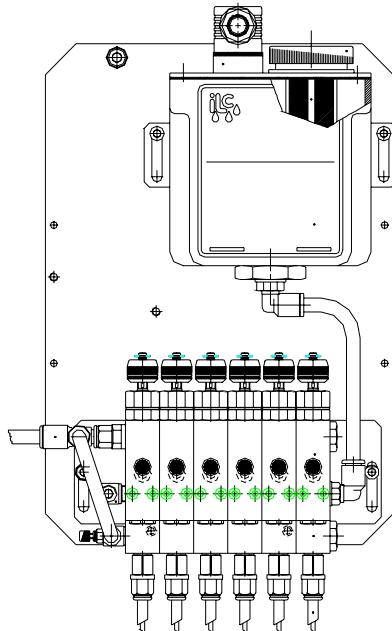
CODES TO ORDER SOLENOID VALVE COILS

14.660.1.R 24 V DC	14.660.2.R 115 V AC	14.660.3.R 230 V AC	14.660.4.R 24 V AC



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AGSG -SE



THE UNIT IS SUPPLIED COMPLETE OF:

RESERVOIR 1.2 L

LOW LEVEL SWITCH: 1 A 250 V AC 200 V DC 50 W

PUMPS FROM 1 TO 6

5 M COAXIAL FEEDING LINES FOR EACH OUTLET (6 MM – 2.5 MM)

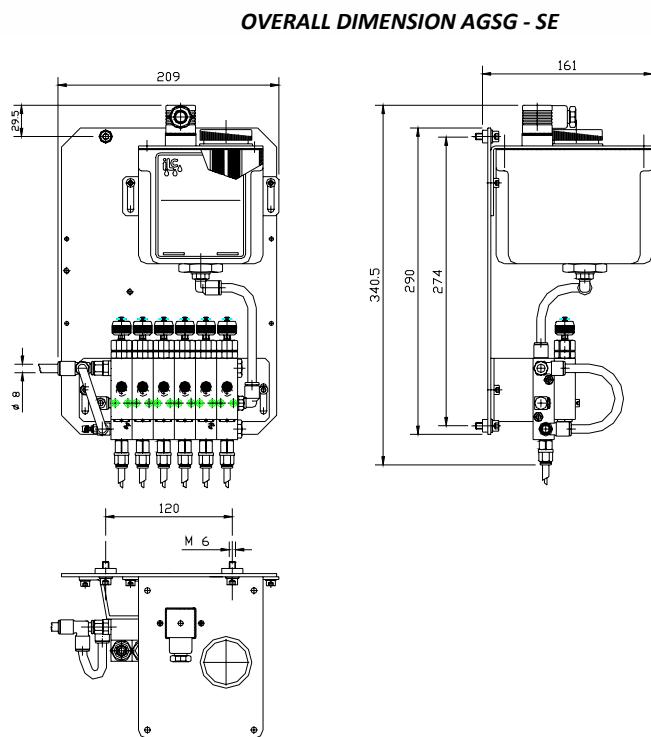
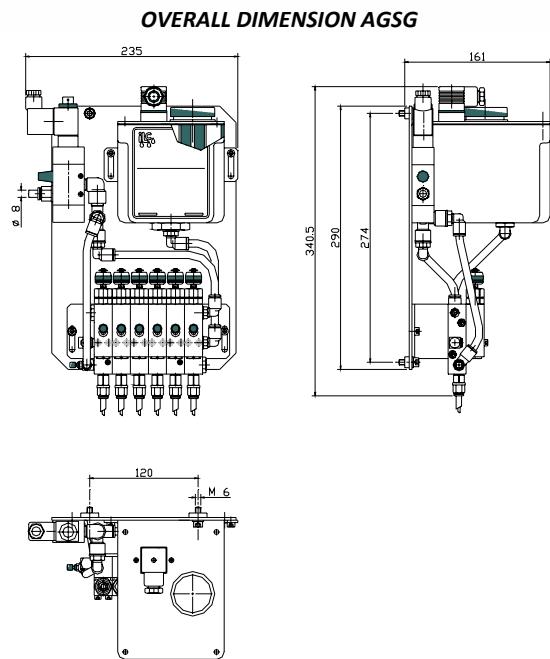
AIR REGULATOR

ORDERING CODES

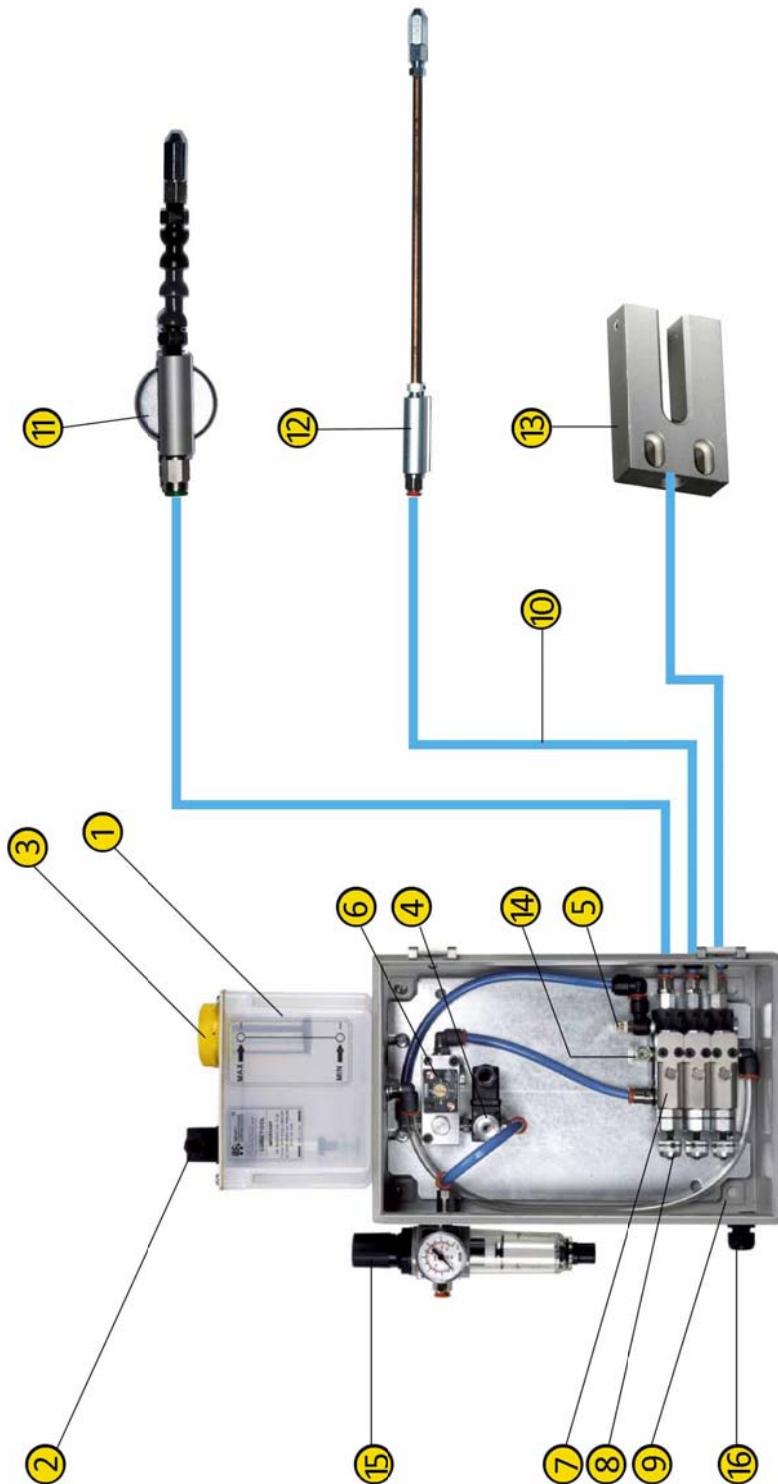
CODE	TYPE	NUMBER of PUMPS
70.003.0	AGSG - SE - 1	1
70.003.1	AGSG - SE - 2	2
70.003.2	AGSG - SE - 3	3
70.003.3	AGSG - SE - 4	4
70.003.4	AGSG - SE - 5	5
70.003.5	AGSG - SE - 6	6



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INFORMATION AND OPERATING INSTRUCTIONS

1. LIQUID RESERVOIR: SEMITRSPARENT, NYLON IMPACT RESISTANT HAS A CAPACITY OF 1.2 L, 2.2 L OR 3.6 L

2. LOW LEVEL SWITCH: THE CONTACT CLOSE WHEN THE RESERVOIR IS EMPTY.

3. FILLER CUP: TO RE-FILL OIL IN THE RESERVOIR.

4. AIR SUPPLY: A SOLENOID VALVE WITH A COIL 24 V DC, 24 V AC, 115 V AC OR 230 V AC SUPPLY THE AIR IN THE SYSTEM. AIR PRESSURE SHOULD BE MIN 5 BAR (75 PSI) TO MAX 8 BAR (120 PSI). IT IS VERY IMPORTANT TO INSTALL A STANDARD PARTICLE FILTER (5 MICRON) TO ELIMINATE PARTICLES AND WATER FROM ENTERING THE SYSTEM. IF THERE IS PROBLEM WITH OIL IN THE AIR SYSTEM, WE SUGGEST RUNNING A COALESCING FILTER IN TANDEM WITH THE PARTICLE AIR FILTER.

5. AIR REGULATOR: THIS SWITCH ALLOWS THE FLOW OF AIR TO GO IN THE NOZZLES. TURN SWITCH CLOCKWISE TO TURN AIR ON, AND COUNTER-CLOCKWISE TO TURN AIR OFF. THE AIR PRESSURE HAS TO BE FROM 0.5 BAR (8 PSI) TO 3 BAR (45 PSI). WE SUGGEST 1.5 BAR (22 PSI).

6. FREQUENCY GENERATOR: THIS VALVE CONTROLS THE FREQUENCY AT WHICH THE PUMP CYCLE. TO INCREASE THE SPEED OF THE PUMPS, TURN SCREWDRIVER ADJUSTMENT COUNTER-CLOCKWISE.

7. PNEUMATIC PUMP: EACH STROKE GIVE AN EXACT AMOUNT OF OIL TO THE OUTLET.

8. OIL FLOW ADJUSTMENT: THE MANUAL RATCHETS REGULATE THE AMOUNT OF LUBRICANT THAT IS SUPPLIED WITH EACH STROKE OF THE PUMP (ADJUSTABLE FROM 0 MM³ TO 41 MM³ /STROKE).

9. BOX: DURABLE IMPACT-RESISTANT LOCKING METALLIC BOX.

10. COAXIAL FEEDING LINE: TO SUPPLY OIL SEPARATE FROM AIR TO THE NOZZLE.

11. LOC-LINE MAGNETIC BASE NOZZLE

12. STEEL FIXED BASE NOZZLE

13. SAW SADDLE NOZZLE

14. AIR DRAIN: TO PURGE AIR FROM THE OIL SYSTEM

15. PRESSURE REDUCER WITH GAUGE

16. CABLE GLAND



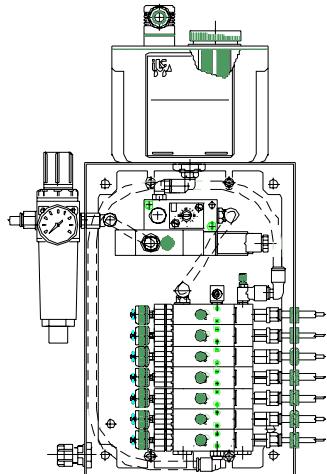
**LUBETOOL MC-EL-3P-4P-5P-6P-7P, MC-EL-3M-4M-5M-6M-7M,
MC-EL-2P E MC-EL-2M**
THEY ARE SUPPLIED COMPLETE OF METALLIC BOX

FEATURES	
<i>DISCHARGE</i>	<i>FROM 0 MM³ TO 41 MM³</i>
<i>PUMPS</i>	<i>FROM 1 TO 7</i>
<i>SOLENOID VALVE</i>	<i>24 V DC – 24 V AC – 115 V AC – 230 V AC</i>
<i>STROKES</i>	<i>FROM 3 /SECOND TO 1 /MINUTE</i>
<i>RESERVOIR</i>	<i>1.2 L, 2.2 L OR 3.6 L</i>
<i>LUBRICANT</i>	<i>OIL MAX 800 cSt 40 °C</i>
<i>LOW LEVEL SWITCH</i>	<i>1 A 250 V AC – 220 V DC – 50 W</i>
<i>AIR PRESSURE</i>	<i>FROM 4 BAR TO 8 BAR</i>
<i>AIR CONSUME AT 6 BAR/POINT</i>	<i>MIN: 60 L/M – MAX 100 L/M</i>



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MC-EL-3P-4P-5P-6P-7P



THE UNIT IS SUPPLIED COMPLETE OF:
RESERVOIR 1.2 L OR 2.2 L
LOW LEVEL SWITCH: 1 A 250 V AC 200 V DC 50 W
3-4-5-6-7 PUMPS
5 M COAXIAL LINES FOR EACH OUTLET (6 MM – 2.5 MM)
METALLIC BOX
SOLENOID VALVE
AIR REGULATOR
FREQUENCY GENERATOR
AIR REDUCER + GAUGE

ORDERING CODES

CODE	TYPE	CODE	TYPE
70.050.7	MC-EL-3P-1.2	70.050.7.SL	MC-EL-3P-1.2-SL
70.050.8	MC-EL-3P-2.2	70.050.8.SL	MC-EL-3P-2.2-SL
70.051.3	MC-EL-4P-1.2	70.051.3.SL	MC-EL-4P-1.2-SL
70.051.4	MC-EL-4P-2.2	70.051.4.SL	MC-EL-4P-2.2-SL
70.051.5	MC-EL-5P-1.2	70.051.5.SL	MC-EL-5P-1.2-SL
70.051.6	MC-EL-5P-2.2	70.051.6.SL	MC-EL-5P-2.2-SL
70.051.7	MC-EL-6P-1.2	70.051.7.SL	MC-EL-6P-1.2-SL
70.051.8	MC-EL-6P-2.2	70.051.8.SL	MC-EL-6P-2.2-SL
70.054.0	MC-EL-7P-1.2	70.054.0.SL	MC-EL-7P-1.2-SL
70.054.1	MC-EL-7P-2.2	70.054.1.SL	MC-EL-7P-2.2-SL

SL: THE UNIT WILL BE DELIVERED WITHOUT LOW LEVEL SWITCH

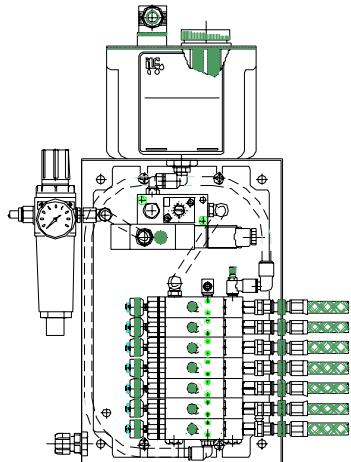
CODES TO ORDER SOLENOID VALVE COILS

14.660.1.R	14.660.2.R	16.660.3.R	14.660.4.R
24 V DC	115 V AC	230 V AC	24 V AC



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MC-EL-3M-4M-5M-6M-7M



THE UNIT IS SUPPLIED COMPLETE OF:

RESERVOIR 1.2 L OR 2.2 L

LOW LEVEL SWITCH: 1 A 250 V AC 200 V DC 50 W

3-4-5-6-7 PUMPS

COAXIAL FEEDING LINES (METALLIC COVERING) MUST BE ORDERED SEPARATELY WITH 8 MM TERMINAL. SEE PAGE 101

METALLIC BOX

SOLENOID VALVE

AIR REGULATOR

FREQUENCY GENERATOR

AIR REDUCER + GAUGE

ORDERING CODES

CODE	TYPE	CODE	TYPE
70.053.1	MC-EL-3M-1.2	70.053.1.SL	MC-EL-3M-1.2-SL
70.053.2	MC-EL-3M-2.2	70.053.2.SL	MC-EL-3M-2.2-SL
70.053.4	MC-EL-4M-1.2	70.053.4.SL	MC-EL-4M-1.2-SL
70.053.5	MC-EL-4M-2.2	70.053.5.SL	MC-EL-4M-2.2-SL
70.053.6	MC-EL-5M-1.2	70.053.6.SL	MC-EL-5M-1.2-SL
70.053.7	MC-EL-5M-2.2	70.053.7.SL	MC-EL-5M-2.2-SL
70.053.8	MC-EL-6M-1.2	70.053.8.SL	MC-EL-6M-1.2-SL
70.053.9	MC-EL-6M-2.2	70.053.9.SL	MC-EL-6M-2.2-SL
70.054.4	MC-EL-7M-1.2	70.054.4.SL	MC-EL-7M-1.2-SL
70.054.5	MC-EL-7M-2.2	70.054.5.SL	MC-EL-7M-2.2-SL

SL: THE UNIT WILL BE DELIVERED WITHOUT LOW LEVEL SWITCH

CODES TO ORDER SOLENOID VALVE COILS

14.660.1.R	14.660.2.R	14.660.3.R	14.660.4.R
24 V DC	115 V AC	230 V AC	24 V AC

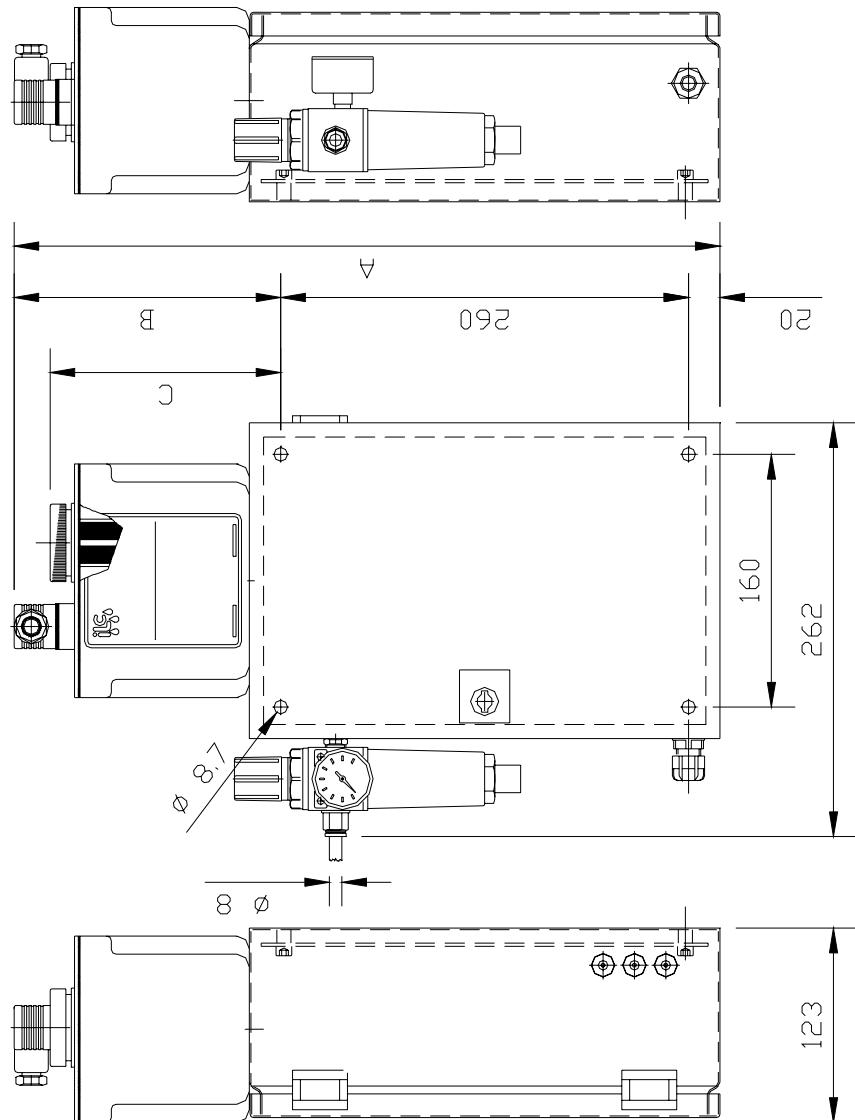


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OVERALL DIMENSION

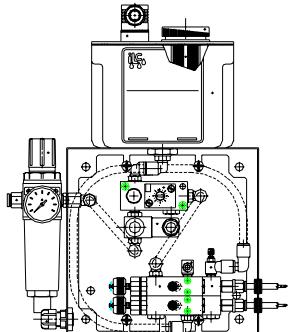


RESERVOIR	A	B	C
1.2 L	450	170	147
2.2 L	502	222	199



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MC-EL-2P



THE UNIT IS SUPPLIED COMPLETE OF:

RESERVOIR 1.2 L OR 2.2 L

LOW LEVEL SWITCH: 1 A 250 V AC 200 V DC 50 W

PUMPS FROM 1 TO 2

5 M COAXIAL FEEDING LINES FOR EACH OUTLET (6 MM – 2.5 MM)

METALLIC BOX

THE SOLENOID VALVE HAS TO BE ORDERED SEPARATELY
CODE 14.660.0



AIR REGULATOR

AIR REDUCER + GAUGE
FREQUENCY GENERATOR

ORDERING CODES

CODE	TYPE	NUMBER of PUMPS
70.050.3	MC-EL-2P-1.2-1	1
70.050.4	MC-EL-2P-2.2-1	1
70.050.5	MC-EL-2P-1.2-2	2
70.050.6	MC-EL-2P-2.2-2	2
70.050.3.SL	MC-EL-2P-1.2-1-SL	1
70.050.4.SL	MC-EL-2P-2.2-1-SL	1
70.050.5.SL	MC-EL-2P-1.2-2-SL	2
70.050.6.SL	MC-EL-2P-2.2-2-SL	2

SL MEANS THAT THE UNIT WILL BE DELIVERED WITHOUT LOW LEVEL SWITCH

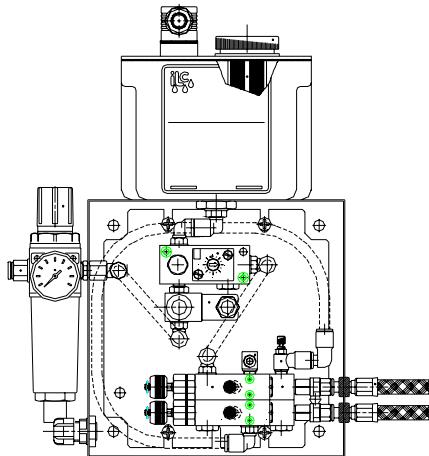
CODES TO ORDER SOLENOID VALVE COILS

14.660.1.R	14.660.2.R	14.660.3.R	14.660.4.R
24 V DC	115 V AC	230 V AC	24 V AC



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MC-EL-2M



THE UNIT IS SUPPLIED COMPLETE OF:

RESERVOIR 1.2 L OR 2.2 L

LOW LEVEL SWITCH: 1 A 250 V AC 200 V DC 50 W

PUMPS FROM 1 TO 2

COAXIAL FEEDING LINES (METALLIC COVERING). MUST BE ORDERED SEPARATELY WITH 8 MM TERMINAL. SEE PAGE 101

METALLIC BOX

THE SOLENOID VALVE HAS TO BE ORDERED SEPARATELY

CODE 14.660.0

AIR REGULATOR

AIR REDUCER + GAUGE

FREQUENCY GENERATOR

ORDERING CODES

CODE	TYPE	NUMBER of PUMPS
70.050.1	MC-EL-2M-1.2-1	1
70.051.1	MC-EL-2M-2.2-1	1
70.050.2	MC-EL-2M-1.2-2	2
70.051.2	MC-EL-2M-2.2-2	2
70.050.1.SL	MC-EL-2M-1.2-1-SL	1
70.051.1.SL	MC-EL-2M-2.2-1-SL	1
70.050.2.SL	MC-EL-2M-1.2-2-SL	2
70.051.2.SL	MC-EL-2M-2.2-2-SL	2

SL: THE UNIT WILL BE DELIVERED WITHOUT LOW LEVEL SWITCH

CODES TO ORDER SOLENOID VALVE COILS

14.660.1.R	14.660.2.R	14.660.3.R	14.660.4.R
24 V DC	115 V AC	230 V AC	24 V AC

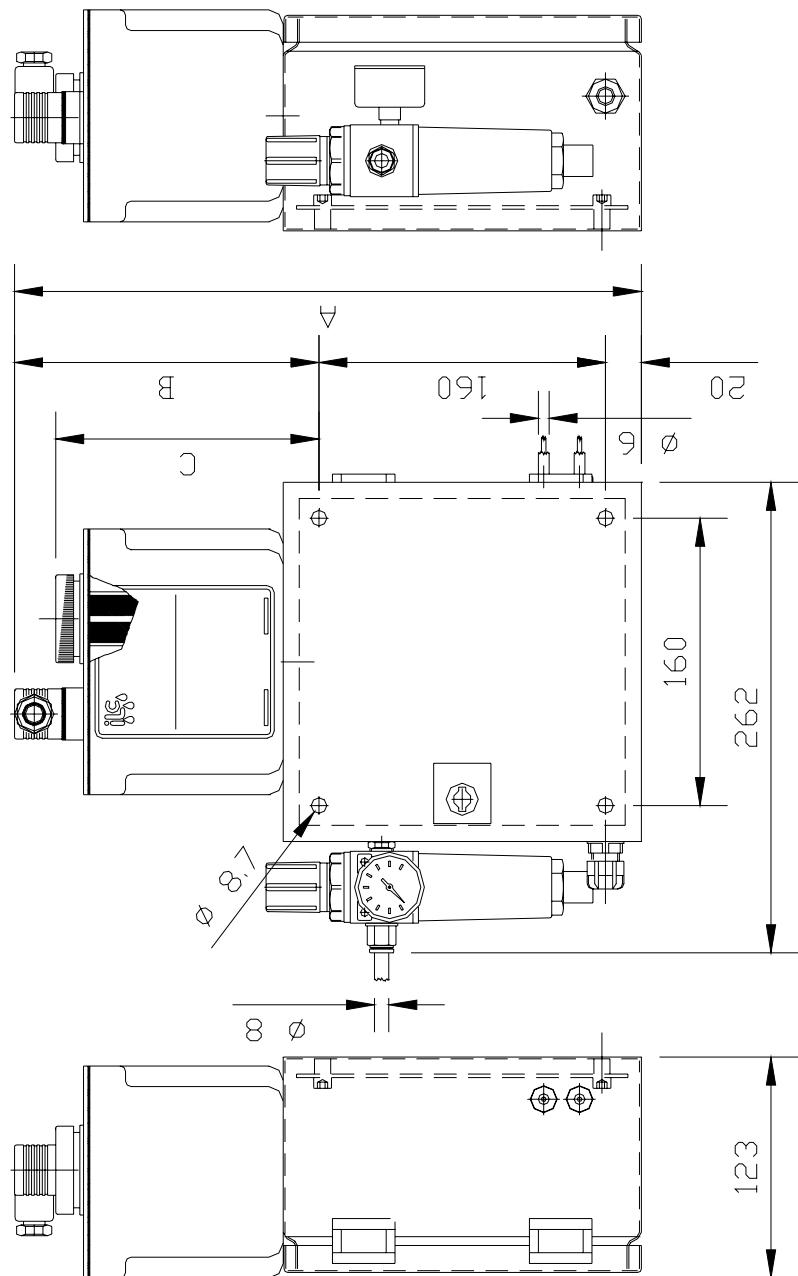


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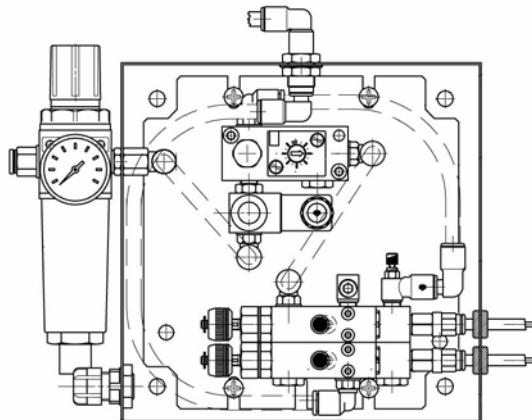
OVERALL DIMENSION



RESERVOIR	A	B	C
1.2 L	350	170	147
2.2 L	402	222	199



MC-EL-2P-SS



THE UNIT IS SUPPLIED COMPLETE OF:

PUMPS FROM 1 TO 2

5M COAXIAL FEEDING LINES EVERY OUTLET (6 MM – 2.5 MM)

METALLIC BOX

THE SOLENOID VALVE HAS TO BE ORDERED SEPARATELY

CODE 14.660.0

AIR REGULATOR

AIR REDUCER + GAUGE

FREQUENCY GENERATOR

RESERVOIR HAS TO BE ORDERED SEPARATELY (SEE PAG. 88)

ORDERING CODES

CODE	TYPE	NUMBER of PUMPS
70.719.1	MC-EL-1P-SS	1
70.718.6	MC-EL-2P-SS	2

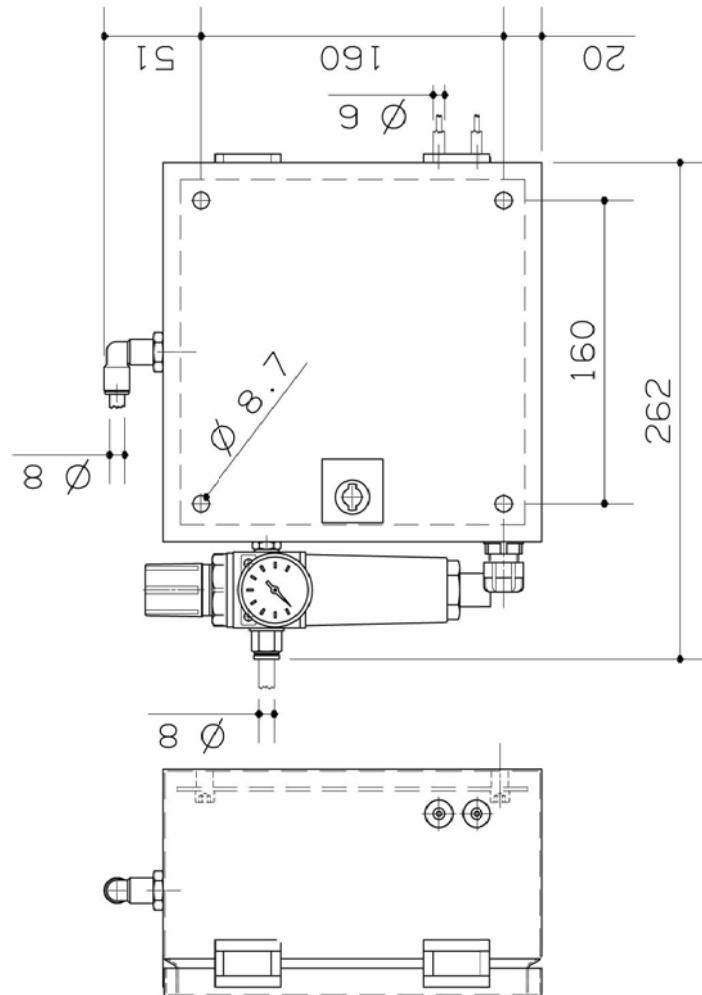
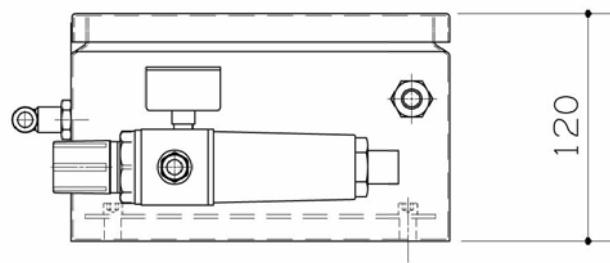
CODES TO ORDER SOLENOID VALVE COILS

14.660.1.R 24 V DC	14.660.2.R 115 V AC	14.660.3.R 230 V AC	14.660.4.R 24 V AC



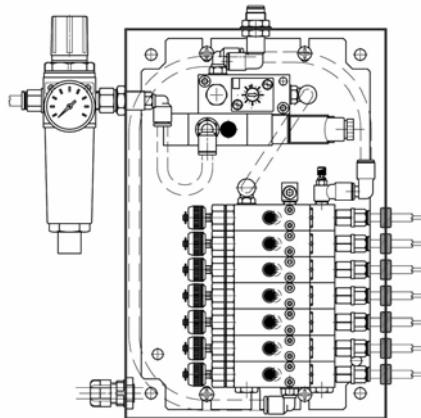
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MC-EL-3P-4P-5P-6P-7P



THE UNIT IS SUPPLIED COMPLETE OF:

PUMPS FROM 3 TO 7

5M COAXIAL FEEDING LINES EVERY OUTLET (6 MM – 2.5 MM)

METALLIC BOX

THE SOLENOID VALVE HAS TO BE ORDERED SEPARATELY

CODE 14.660.0

AIR REGULATOR

AIR REDUCER + GAUGE

FREQUENCY GENERATOR

RESERVOIR HAS TO BE ORDERED SEPARATELY (SEE PAG. 88)

ORDERING CODES

CODE	TYPE	NUMBER of PUMPS
70.705.3	MC-EL-3P	3
70.705.4	MC-EL-4P	4
70.705.5	MC-EL-5P	5
70.705.6	MC-EL-6P	6
70.705.7	MC-EL-7P	7

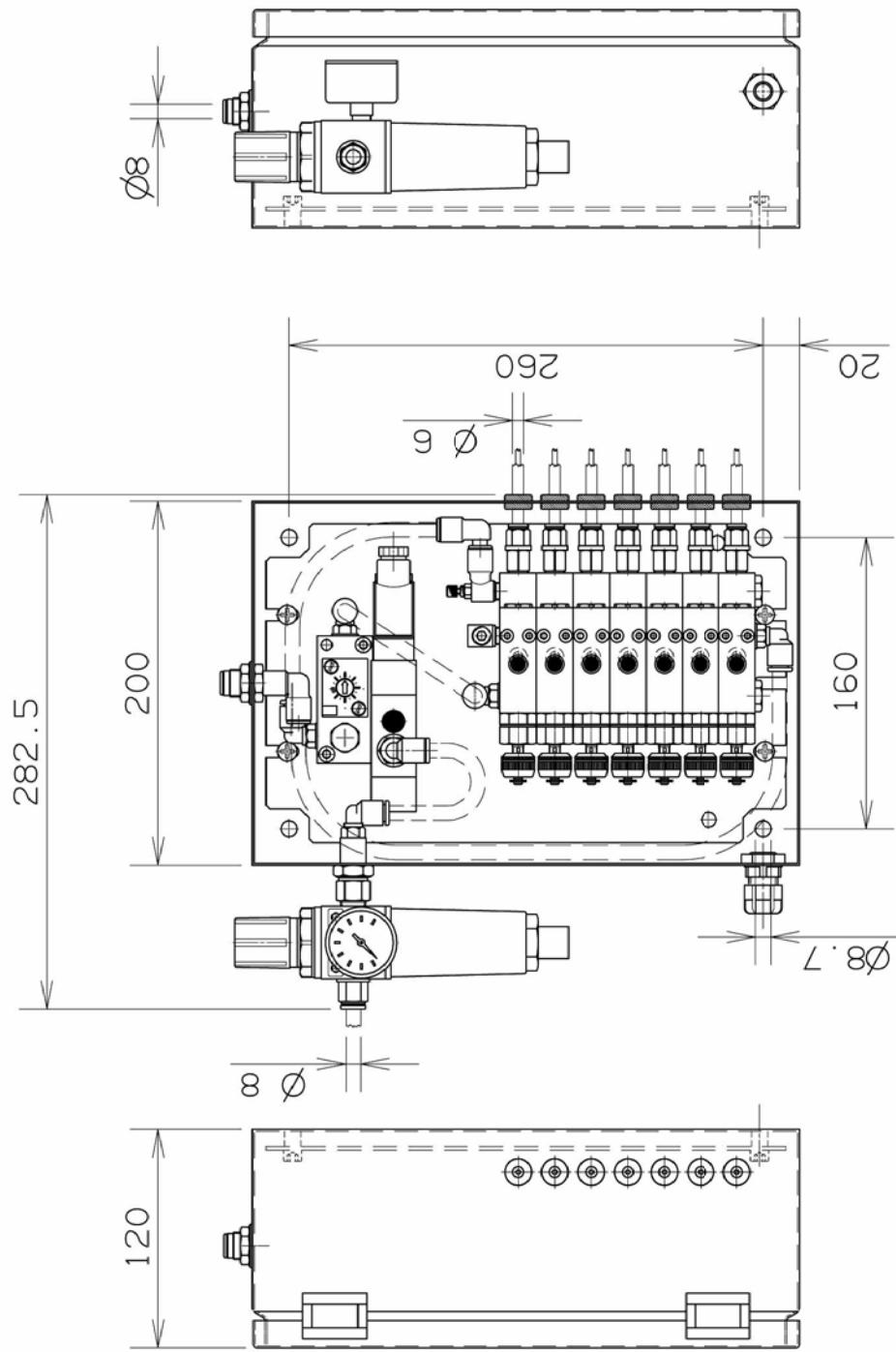
CODES TO ORDER SOLENOID VALVE COILS

14.660.1.R	14.660.2.R	14.660.3.R	14.660.4.R
24 V DC	115 V AC	230 V AC	24 V AC



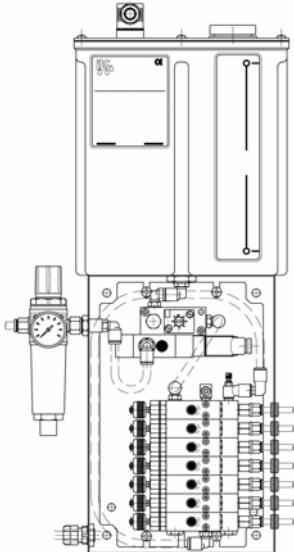
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OVERALL DIMENSION



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MC-EL-6L-3P-4P-5P-6P-7P-8P



THE UNIT IS SUPPLIED COMPLETE OF:

LOW LEVEL SWITCH: 1 A 250 V AC 200 V DC 50 W

PUMPS FROM 3 TO 8

5M COAXIAL FEEDING LINES EVERY OUTLET (6 MM – 2.5 MM)

METALLIC BOX

THE SOLENOID VALVE HAS TO BE ORDERED SEPARATELY

CODE 14.660.0

AIR REGULATOR

AIR REDUCER + GAUGE

FREQUENCY GENERATOR

ORDERING CODES

CODE	TYPE	NUMBER of PUMPS	CODE	TYPE	NUMBER of PUMPS
70.704.3	MC-EL-6L-3P	3	70.704.3.SL	MC-EL-6L-3P-SL	3
70.704.4	MC-EL-6L-4P	4	70.704.4.SL	MC-EL-6L-4P-SL	4
70.704.5	MC-EL-6L-5P	5	70.704.5.SL	MC-EL-6L-5P-SL	5
70.704.6	MC-EL-6L-6P	6	70.704.6.SL	MC-EL-6L-6P-SL	6
70.704.7	MC-EL-6L-7P	7	70.704.7.SL	MC-EL-6L-7P-SL	7
70.730.7	MC-EL-6L-8P	8	70.730.7.SL	MC-EL-6L-8P-SL	8

SL: THE UNIT WILL BE DELIVERED WITHOUT LOW LEVEL SWITCH

CODES TO ORDER SOLENOID VALVE COILS

14.660.1.R	14.660.2.R	14.660.3.R	14.660.4.R
24 V DC	115 V AC	230 V AC	24 V AC

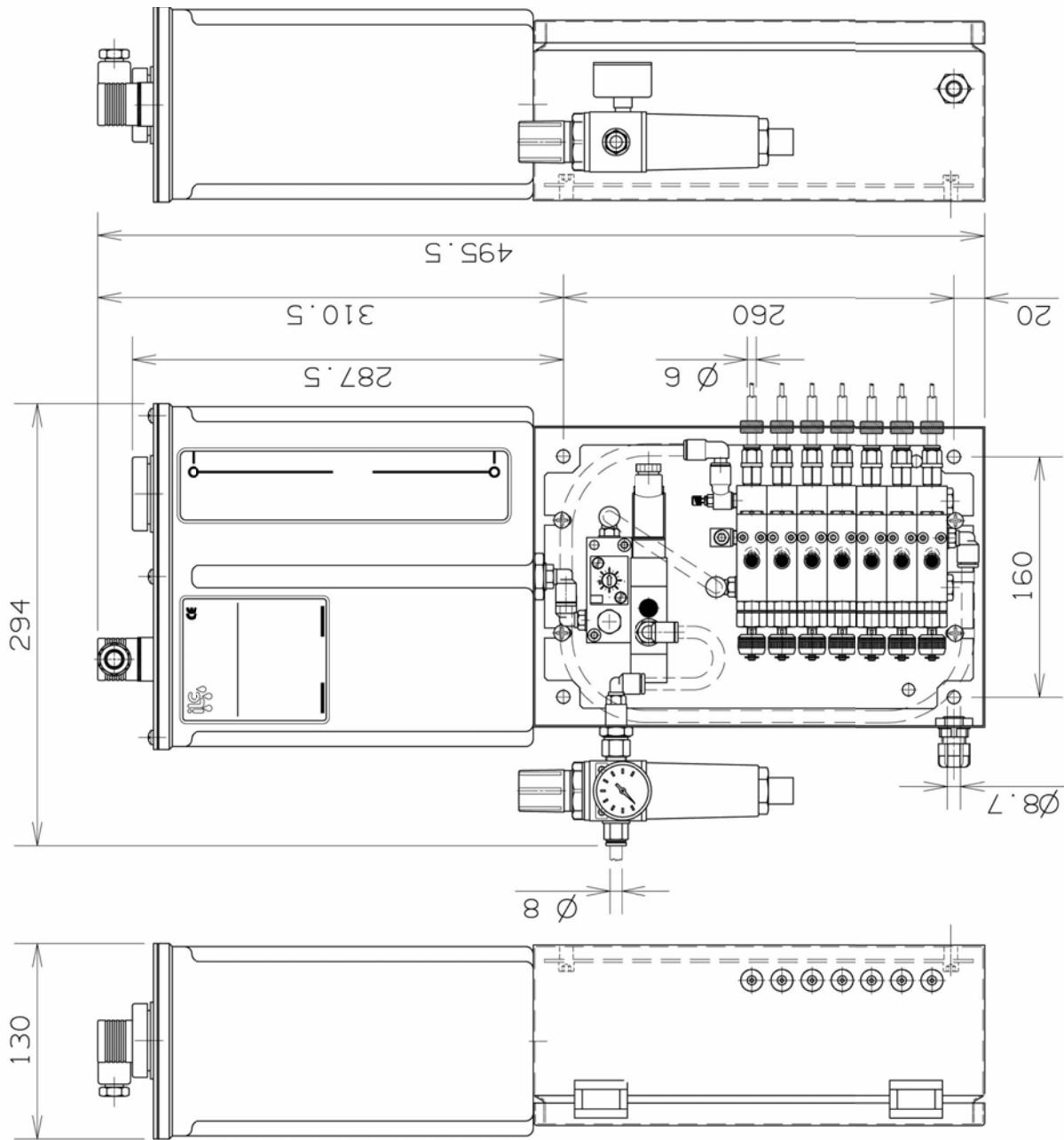


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LUBETOOL MINI-GF-EL, MINI-GF, MINI-SG-EL, MINI-SG, MINI-035-WFG E MINI-035-FG

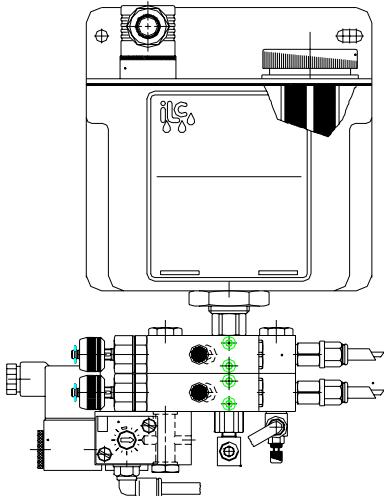
THEY ARE SUPPLIED WITHOUT BOX

FEATURES	
<i>DISCHARGE</i>	<i>FROM 0 MM³ TO 41 MM³</i>
<i>PUMPS</i>	<i>FROM 1 TO 2</i>
<i>SOLENOID VALVE</i>	<i>24 V DC – 24 V AC – 115 V AC – 230 V AC</i>
<i>STROKES</i>	<i>FROM 3 /SECOND TO 1 /MINUTE</i>
<i>RESERVOIR</i>	<i>0.5 L, 1.2 L, 2.2 L OR 3.6 L</i>
<i>LUBRICANT</i>	<i>OIL MAX 800 cSt 40 °C</i>
<i>LOW LEVEL SWITCH</i>	<i>1 A 250 V AC – 220 V DC – 50 W</i>
<i>AIR PRESSURE</i>	<i>FROM 4 BAR TO 8 BAR</i>
<i>AIR CONSUME AT 6 BAR/POINT</i>	<i>MIN: 60 L/M – MAX 100 L/M</i>



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1-413-788-LUBE (5823)**

MINI-GF-EL



THE UNIT IS SUPPLIED COMPLETE OF:

RESERVOIR 1.2 L, 2.2 L OR 3.6 L

LOW LEVEL SWITCH: 1 A 250 V AC 200 V DC 50 W

PUMPS FROM 1 TO 2

5 M COAXIAL FEEDING LINES FOR EACH OUTLET (6 MM – 2.5 MM)

**SOLENOID VALVE 24 V DC – 24 V AC – 115 V AC OR 230 V AC
THE VOLTAGE HAS TO BE ADD TO THE CODE. EXAMPLE
70.015.0.24VDC**

AIR REGULATOR

FREQUENCY GENERATOR

CODES FOR ORDER

CODE	TYPE	PUMPS NUMBER	CODE	TYPE	PUMPS NUMBER
70.015.0	MINI-GF-EL-1/1.2 L	1	70.015.0.SL	MINI-GF-EL-1/1.2 L-SL	1
70.020.0	MINI-GF-EL-2/1.2 L	2	70.020.0.SL	MINI-GF-EL-2/1.2 L-SL	2
70.015.1	MINI-GF-EL-1/2.2 L	1	70.015.1.SL	MINI-GF-EL-1/2.2 L-SL	1
70.020.1	MINI-GF-EL-2/2.2 L	2	70.020.1.SL	MINI-GF-EL-2/2.2 L-SL	2
70.015.2	MINI-GF-EL-1/3.6 L	1	70.015.2.SL	MINI-GF-EL-1/3.6 L-SL	1
70.020.2	MINI-GF-EL-2/3.6 L	2	70.020.2.SL	MINI-GF-EL-2/3.6 L-SL	2

SL: L'UNITA' E' FORNITA SENZA LIVELLO ELETTRICO SL: THE UNIT WILL BE DELIVERED WITHOUT LOW LEVEL SWITCH

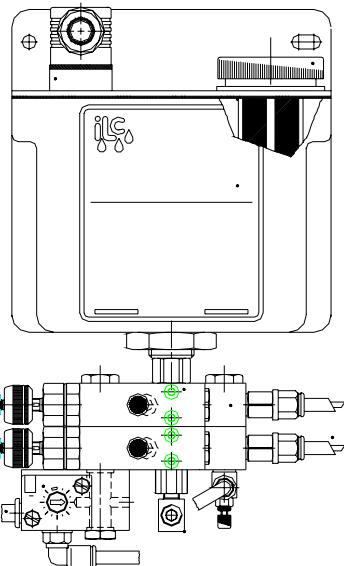
CODES TO ORDER SOLENOID VALVE COILS

14.660.1.R 24 V DC	14.660.2.R 115 V AC	14.660.3.R 230 V AC	14.660.4.R 24 V AC
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MINI-GF



THE UNIT IS SUPPLIED COMPLETE OF:

RESERVOIR 1.2 L, 2.2 L OR 3.6 L

LOW LEVEL SWITCH: 1 A 250 V AC 200 V DC 50 W

PUMPS FROM 1 TO 2

5 M COAXIAL FEEDING LINES FOR EACH OUTLET (6 MM – 2.5 MM)

AIR REGULATOR

FREQUENCY GENERATOR

CODES FOR ORDER

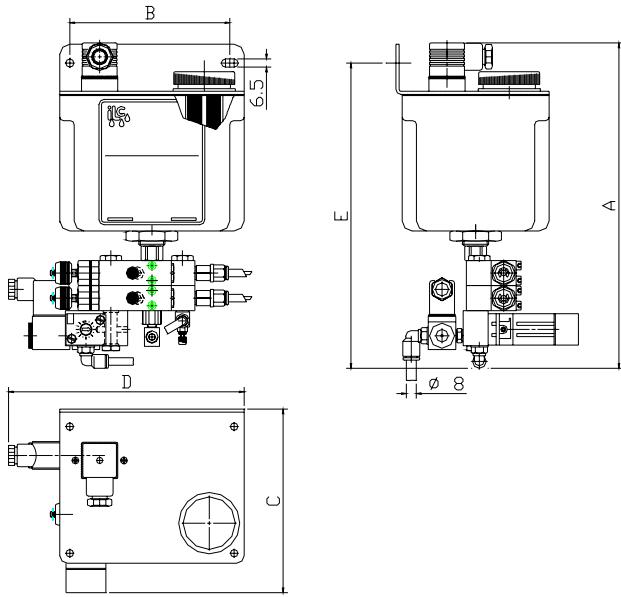
CODE	TYPE	PUMPS NUMBER	CODE	TYPE	PUMPS NUMBER
70.004.0	MINI-GF-1/1.2 L	1	70.004.0.SL	MINI-GF-1/1.2 L-SL	1
70.004.1	MINI-GF-2/1.2 L	2	70.004.1.SL	MINI-GF-2/1.2 L-SL	2
70.004.2	MINI-GF-1/2.2 L	1	70.004.2.SL	MINI-GF-1/2.2 L-SL	1
70.004.3	MINI-GF-2/2.2 L	2	70.004.3.SL	MINI-GF-2/2.2 L-SL	2
70.004.4	MINI-GF-1/3.6 L	1	70.004.4.SL	MINI-GF-1/3.6 L-SL	1
70.004.5	MINI-GF-2/3.6 L	2	70.004.5.SL	MINI-GF-2/3.6 L-SL	2

SL MEANS THAT THE UNIT WILL BE DELIVERED WITHOUT LOW LEVEL SWITCH



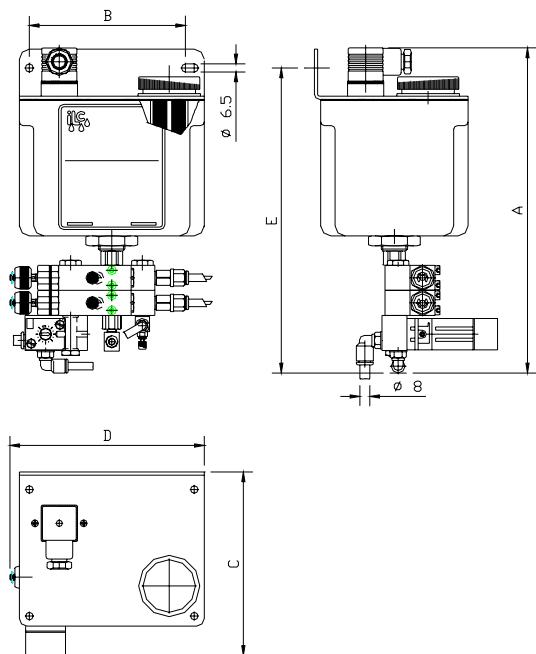
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OVERALL DIMENSION MINI-GF-EL



PUMPS	RESERVOIR	A	B	C	D	E
1	1.2 L	240	129	146	190	224
2	1.2 L	260	129	146	190	244
1	2.2 L	292	129	146	190	276
2	2.2 L	312	129	146	190	296
1	3.6 L	287	173	153	230	271
2	3.6 L	307	173	153	230	291

OVERALL DIMENSION MINI-GF



PUMPS	RESERVOIR	A	B	C	D	E
1	1.2 L	260	129	147	155	244
2	1.2 L	280	129	147	155	264
1	2.2 L	312	129	147	155	296
2	2.2 L	332	129	147	155	316
1	3.6 L	307	173	153	230	291
2	3.6 L	327	173	153	230	311

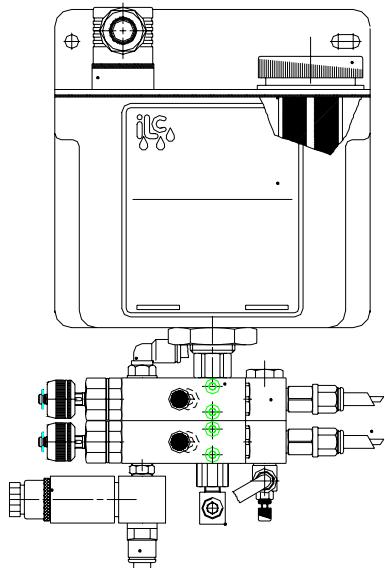


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MINI-SG-EL



THE UNIT IS SUPPLIED COMPLETE OF:

RESERVOIR 1.2 L, 2.2 L OR 3.6 L

LOW LEVEL SWITCH: 1 A 250 V AC 200 V DC 50 W

PUMPS FROM 1 TO 2

5 M COAXIAL FEEDING LINES FOR EACH OUTLET (6 MM – 2.5 MM)

SOLENOID VALVE 24 V DC – 24 V AC – 115 V AC OR 230 V AC

THE VOLTAGE HAS TO BE ADD TO THE CODE. EXAMPLE

70.017.0.24VDC

AIR REGULATOR

CODES FOR ORDER

CODE	TYPE	PUMPS NUMBER	CODE	TYPE	PUMPS NUMBER
70.017.0	MINI-SG-EL-1/1.2 L	1	70.017.0.SL	MINI-SG-EL-1/1.2 L-SL	1
70.017.1	MINI-SG-EL-2/1.2 L	2	70.017.1.SL	MINI-SG-EL-2/1.2 L-SL	2
70.017.2	MINI-SG-EL-1/2.2 L	1	70.017.2.SL	MINI-SG-EL-1/2.2 L-SL	1
70.017.3	MINI-SG-EL-2/2.2 L	2	70.017.3.SL	MINI-SG-EL-2/2.2 L-SL	2
70.017.4	MINI-SG-EL-1/3.6 L	1	70.017.4.SL	MINI-SG-EL-1/3.6 L-SL	1
70.017.5	MINI-SG-EL-2/3.6 L	2	70.017.5.SL	MINI-SG-EL-2/3.6 L-SL	2

SL: THE UNIT WILL BE DELIVERED WITHOUT LOW LEVEL SWITCH

CODES TO ORDER SOLENOID VALVE COILS

14.660.1.R	14.660.2.R	14.660.3.R	14.660.4.R
24 V DC	115 V AC	230 V AC	24 V AC

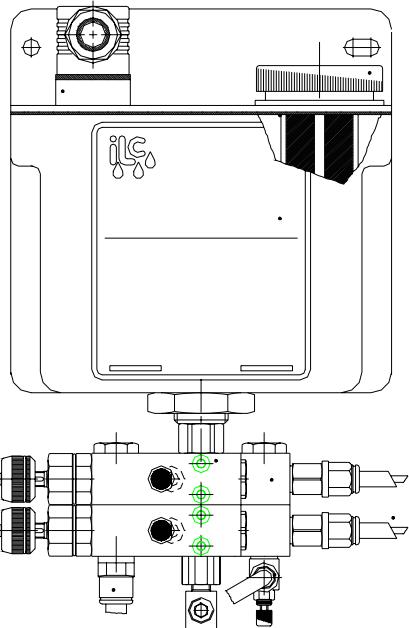


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1-413-788-LUBE (5823)

MINI-SG



THE UNIT IS SUPPLIED COMPLETE OF:

RESERVOIR 1.2 L, 2.2 L OR 3.6 L

LOW LEVEL SWITCH: 1 A 250 V AC 200 V DC 50 W

PUMPS FROM 1 TO 2

5 M COAXIAL FEEDING LINES FOR EACH OUTLET (6 MM – 2.5 MM)

AIR REGULATOR

CODES FOR ORDER

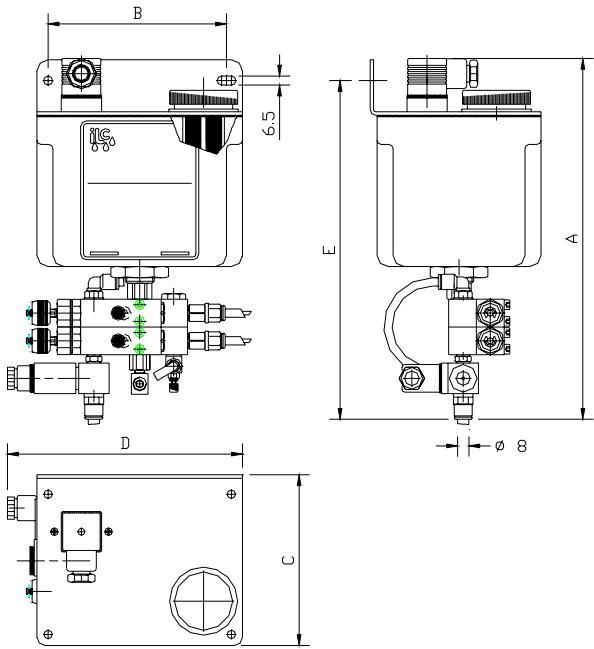
CODE	TYPE	PUMPS NUMBER	CODE	TYPE	PUMPS NUMBER
70.005.0	MINI-SG-1/1.2 L	1	70.005.0.SL	MINI-SG-1/1.2 L-SL	1
70.005.1	MINI-SG-2/1.2 L	2	70.005.1.SL	MINI-SG-2/1.2 L-SL	2
70.005.2	MINI-SG-1/2.2 L	1	70.005.2.SL	MINI-SG-1/2.2 L-SL	1
70.005.3	MINI-SG-2/2.2 L	2	70.005.3.SL	MINI-SG-2/2.2 L-SL	2
70.005.4	MINI-SG-1/3.6 L	1	70.005.4.SL	MINI-SG-1/3.6 L-SL	1
70.005.5	MINI-SG-2/3.6 L	2	70.005.5.SL	MINI-SG-2/3.6 L-SL	2

SL MEANS THAT THE UNIT WILL BE DELIVERED WITHOUT LOW LEVEL SWITCH



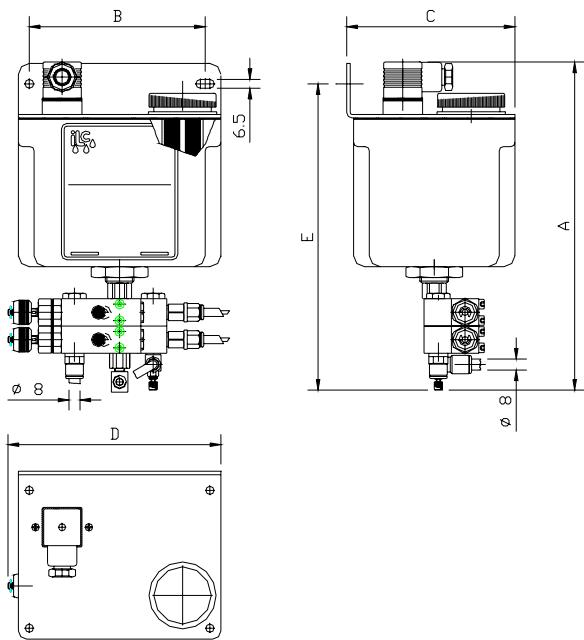
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OVERALL DIMENSION MINI-SG-EL



PUMPS	RESERVOIR	A	B	C	D	E
1	1.2 L	240	129	123	170	224
2	1.2 L	260	129	123	170	244
1	2.2 L	292	129	123	170	276
2	2.2 L	312	129	123	170	296
1	3.6 L	287	173	135	230	271
2	3.6 L	307	173	135	230	291

OVERALL DIMENSION MINI-SG

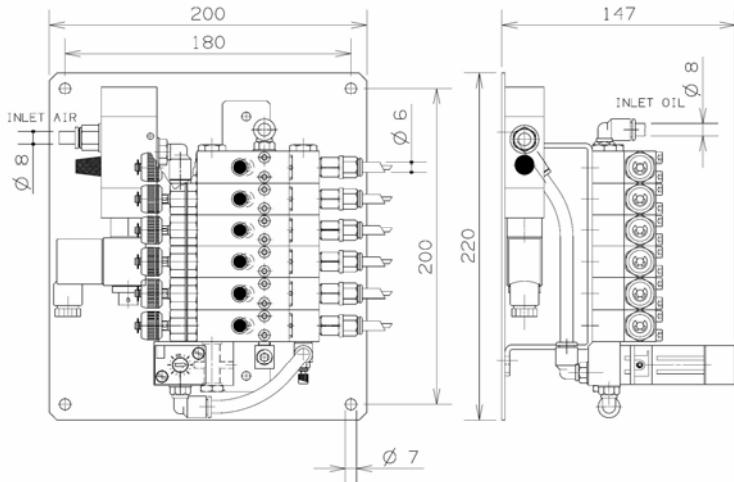


PUMPS	RESERVOIR	A	B	C	D	E
1	1.2 L	220	129	123	155	204
2	1.2 L	240	129	123	155	224
1	2.2 L	272	129	123	155	256
2	2.2 L	292	129	123	155	276
1	3.6 L	215	173	135	230	251
2	3.6 L	235	173	135	230	271



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MINI-GF-EL-SS



THE UNIT IS SUPPLIED COMPLETE OF:

PUMPS FROM 1 TO 2

5M COAXIAL FEEDING LINES EVERY OUTLET (6 MM – 2.5 MM)

THE SOLENOID VALVE HAS TO BE ORDERED SEPARATELY

CODE 14.660.0

AIR REGULATOR

AIR REDUCER + GAUGE

FREQUENCY GENERATOR

RESERVOIR HAS TO BE ORDERED SEPARATELY (SEE PAG. 88)

CODES FOR ORDER

CODE	TYPE	PUMPS NUMBER
70.716.1	MINI-GF-EL-1P-SS	1
70.716.2	MINI-GF-EL-2P-SS	2
70.716.3	MINI-GF-EL-3P-SS	3
70.716.4	MINI-GF-EL-4P-SS	4
70.716.5	MINI-GF-EL-5P-SS	5
70.716.6	MINI-GF-EL-6P-SS	6

CODES TO ORDER SOLENOID VALVE COILS

14.660.1.R 24 V DC	14.660.2.R 115 V AC	14.660.3.R 230 V AC	14.660.4.R 24 V AC

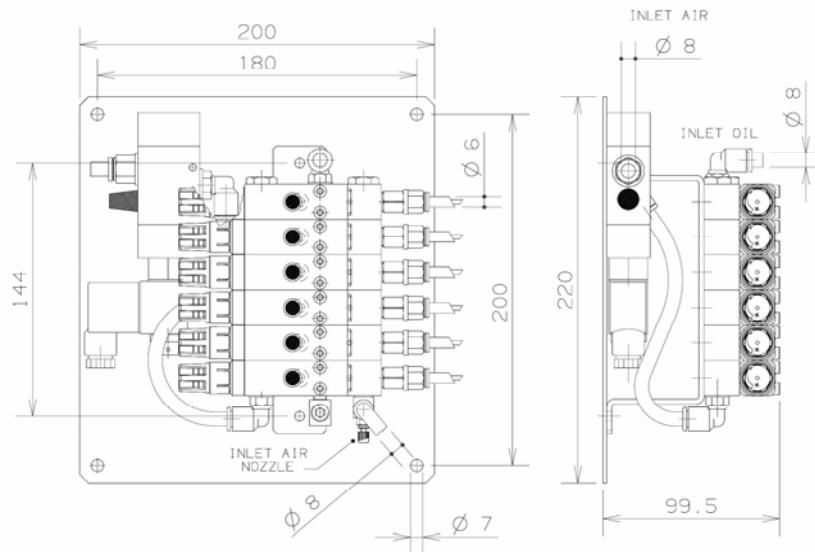


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1-413-788-LUBE (5823)

MINI-SG-EL-SS



THE UNIT IS SUPPLIED COMPLETE OF:

PUMPS FROM 1 TO 2

5M COAXIAL FEEDING LINES EVERY OUTLET (6 MM – 2.5 MM)

THE SOLENOID VALVE HAS TO BE ORDERED SEPARATELY

CODE 14.660.0

AIR REGULATOR

AIR REDUCER + GAUGE

RESERVOIR HAS TO BE ORDERED SEPARATELY (SEE PAG. 88)

CODES FOR ORDER

CODE	TYPE	PUMPS NUMBER
70.716.1.SG	MINI-SG-EL-1P-SS	1
70.716.2.SG	MINI-SG-EL-2P-SS	2
70.716.3.SG	MINI-SG-EL-3P-SS	3
70.716.4.SG	MINI-SG-EL-4P-SS	4
70.716.5.SG	MINI-SG-EL-5P-SS	5
70.716.6.SG	MINI-SG-EL-6P-SS	6

CODICI PER ORDINARE BOBINE DELL'ELETTROVALVOLA – CODES TO ORDER SOLENOID VALVE COILS

14.660.1.R 24 V DC	14.660.2.R 115 V AC	14.660.3.R 230 V AC	14.660.4.R 24 V AC
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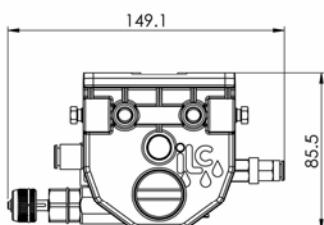
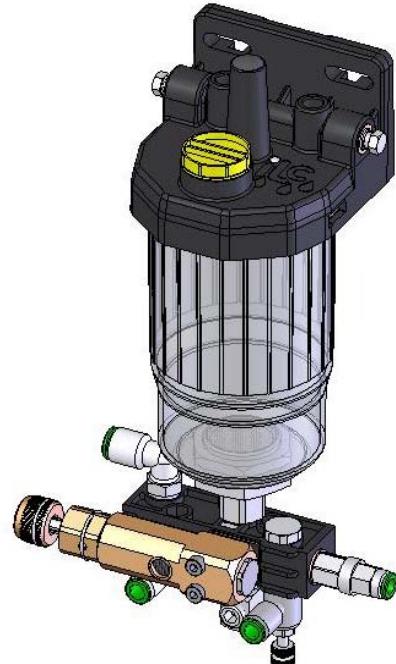
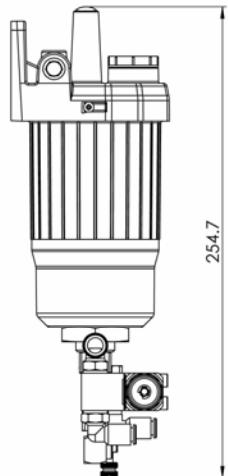
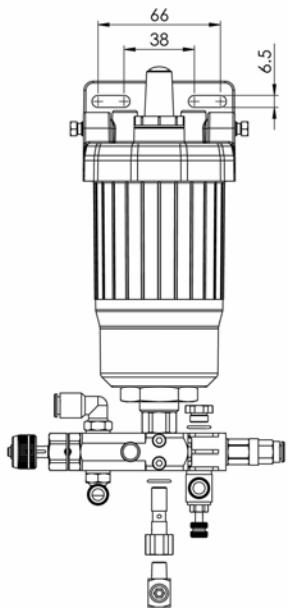


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MINI-035-WFG



CODE

70.055.0

RESERVOIR 0.5 L

THE UNIT IS SUPPLIED COMPLETE OF:

RESERVOIR 0.5 L

1 PUMP

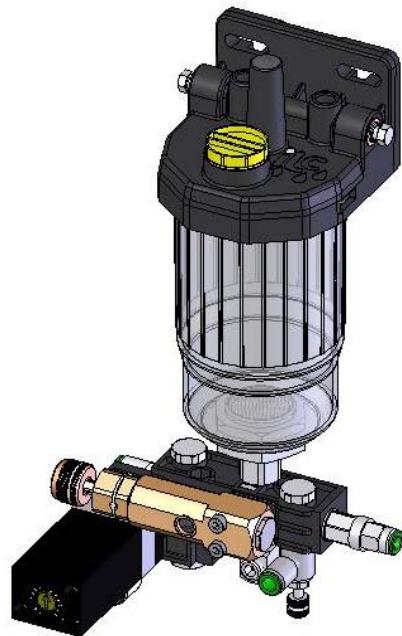
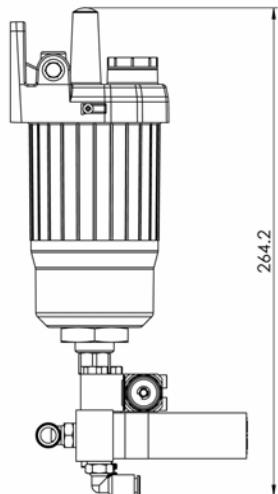
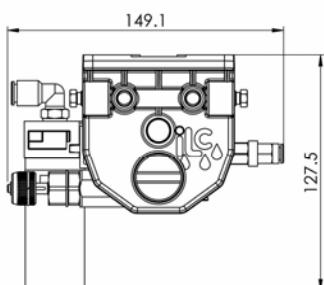
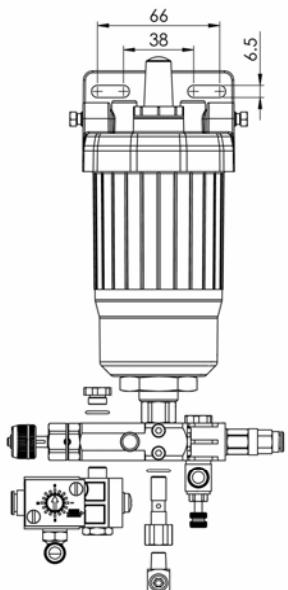
5 M COAXIAL FEEDING LINES FOR EACH OUTLET (6 MM – 2.5 MM)

AIR REGULATOR



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MINI-035-FG



CODE

70.055.1

RESERVOIR 0.5 L

THE UNIT IS SUPPLIED COMPLETE OF:

RESERVOIR 0.5 L

1 PUMP

5 M COAXIAL FEEDING LINES FOR EACH OUTLET (6 MM – 2.5 MM)

AIR REGULATOR

FREQUENCY GENERATOR



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LUBETOOL MIX

THEY WERE DESIGNED TO LUBRICATE WITH TWO LIQUIDS

FEATURES	
<i>DISCHARGE</i>	<i>FROM 0 MM³ TO 41 MM³</i>
<i>PUMPS</i>	<i>FROM 3 TO 4</i>
<i>SOLENOID VALVE</i>	<i>24 V DC – 24 V AC – 115 V AC – 230 V AC</i>
<i>STROKES</i>	<i>FROM 3 /SECOND TO 1 /MINUTE</i>
<i>RESERVOIR</i>	<i>1.2 L, 2.2 L</i>
<i>LUBRICANT</i>	<i>OIL MAX 800 cSt 40 °C</i>
<i>LOW LEVEL SWITCH</i>	<i>1 A 250 V AC – 220 V DC – 50 W</i>
<i>AIR PRESSURE</i>	<i>FROM 4 BAR TO 8 BAR</i>
<i>AIR CONSUME AT 6 BAR/POINT</i>	<i>MIN: 60 L/M – MAX 100 L/M</i>



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MIX WITH PLASTIC CONTAINER

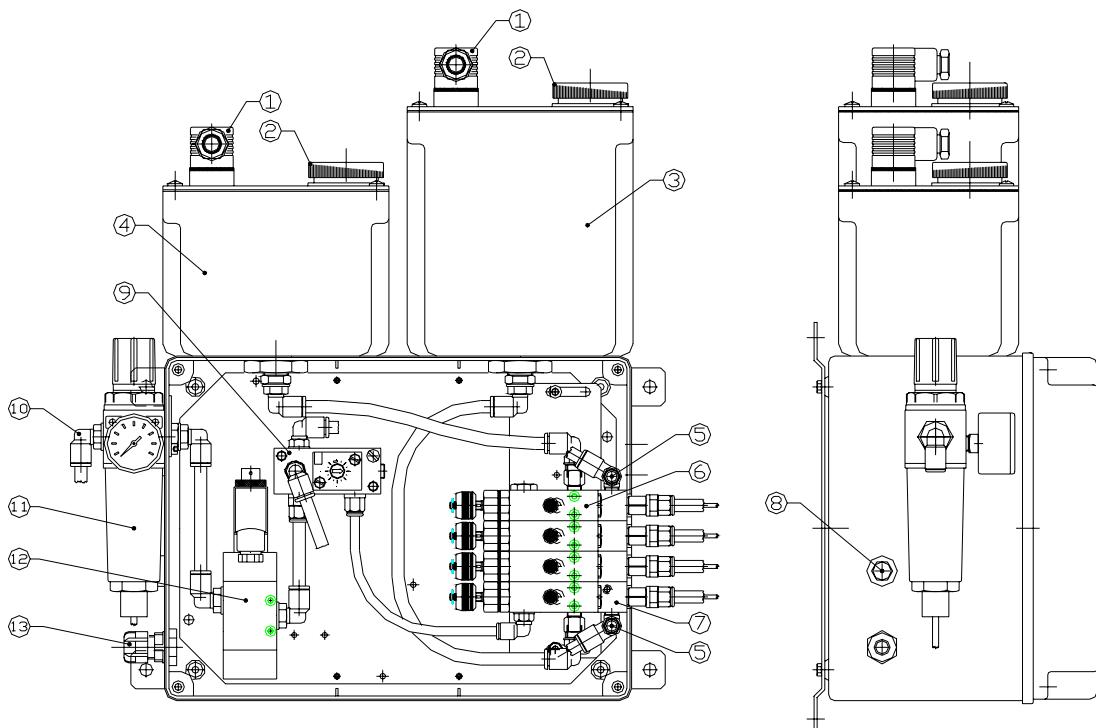
THIS SYSTEM IS USED IN CASE OF HIGH PRODUCTION, TO CUT HIGH DIAMETERS AND WHERE IS NECESSARY TO USE THE MICRO LUBRICATION TOGETHER WITH THE TRADITIONAL LUBRICATION.

A LINE SEND OIL TO BE SPRAYED FRONTALLY ON THE TEETH AND A SECOND LINE SEND EMULSION TO BE SPRAYED ON THE SIDES. AS A RESULT THERE IS AN HIGH CUT QUALITY AND A LONG LIFE TOOL.

THE UNIT NEED A UNIQUE DRIVE BECAUSE THE TWO LINES ARE WORKING IN THE SAME TIME AND THE TWO RESERVOIRS ARE SEPARATE.

THE STANDARD UNIT IS COMPLETE WITH 5 M COAXIAL HOSES.

ON REQUEST IT IS POSSIBLE TO HAVE DIFFERENT SOLUTION.



CODES FOR ORDER

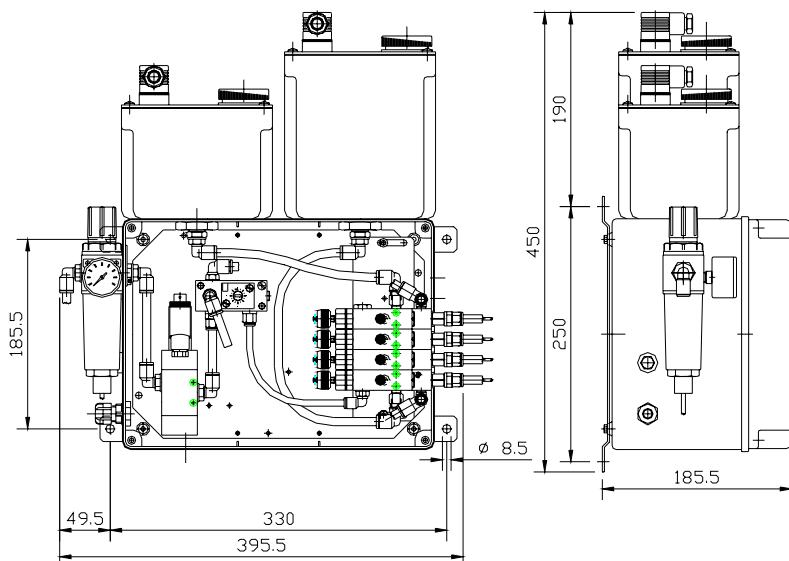
CODE	TYPE
70.060.3	MIX 1 (OIL) + 2 (EMULSION)
70.060.4	MIX 2 (OIL) + 2 (EMULSION)



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THE UNIT IS SUPPLIED COMPLETE OF:	
1	LOW LEVEL SWITCHES
2	FILLER CUPS + STRAINER
3	RESERVOIR 2.2 L FOR EMULSION
4	RESERVOIR 1.2 L FOR OIL
5	AIR REGULATORS
6	3 OR 4 PUMPS
7	3 OR 4 PUMP BASES
8	STRAINER EXAUST AIR
9	FREQUENCY GENERATOR
10	AIR INLET FITTINGS PUSH-IN 8 MM
11	PRESSURE REDUCER WITH GAUGE
12	SOLENOID VALVE 24 V DC – 24 V AC – 115 V AC OR 230 V AC THE VOLTAGE HAS TO BE ADD TO THE CODE. EXAMPLE 70.060.3.24VDC
13	CABLE GLAND
	5 M COAXIAL HOSE FOR EACH OUTLET (6 MM –2.5 MM)

OVERALL DIMENSION



CODES TO ORDER SOLENOID VALVE COILS

14.660.1.R	14.660.2.R	14.660.3.R	14.660.4.R
24 V DC	115 V AC	230 V AC	24 V AC



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MIX WITH METALLIC BOX

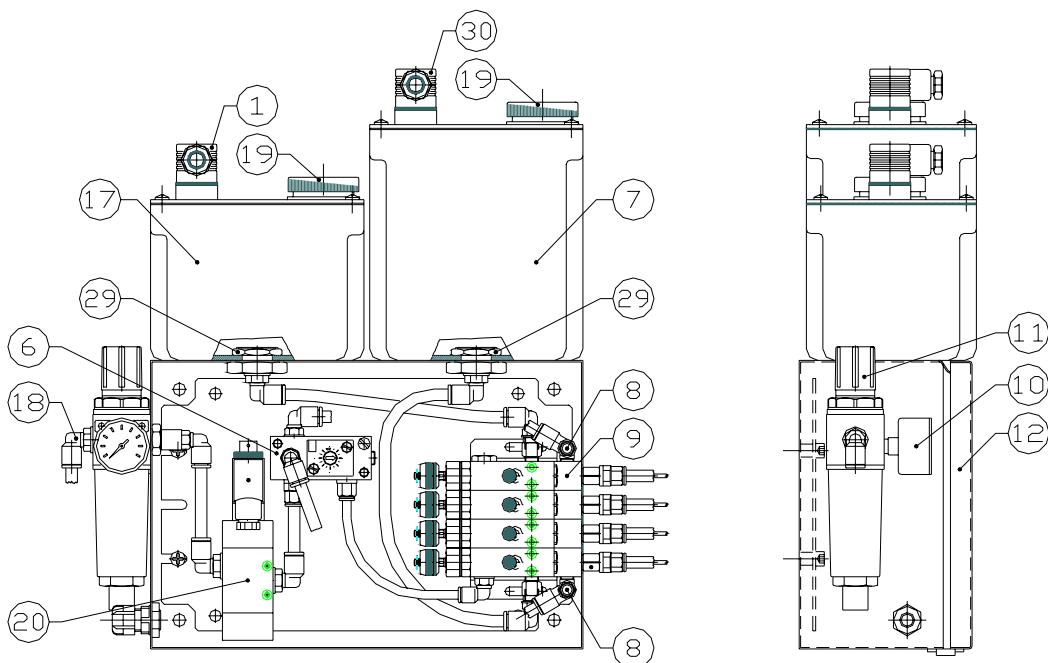
THIS SYSTEM IS USED IN CASE OF HIGH PRODUCTION, TO CUT HIGH DIAMETERS AND WHERE IS NECESSARY TO USE THE MICRO LUBRICATION TOGETHER WITH THE TRADITIONAL LUBRICATION.

A LINE SEND OIL TO BE SPRAYED FRONTALLY ON THE TEETH AND A SECOND LINE SEND EMULSION TO BE SPRAYED ON THE SIDES. AS A RESULT THERE IS AN HIGH CUT QUALITY AND A LONG LIFE TOOL.

THE UNIT NEED A UNIQUE DRIVE BECAUSE THE TWO LINES ARE WORKING IN THE SAME TIME AND THE TWO RESERVOIRS ARE SEPARATE.

THE STANDARD UNIT IS COMPLETE WITH 5 M COAXIAL HOSES.

ON REQUEST IT IS POSSIBLE TO HAVE DIFFERENT SOLUTION.



CODES FOR ORDER

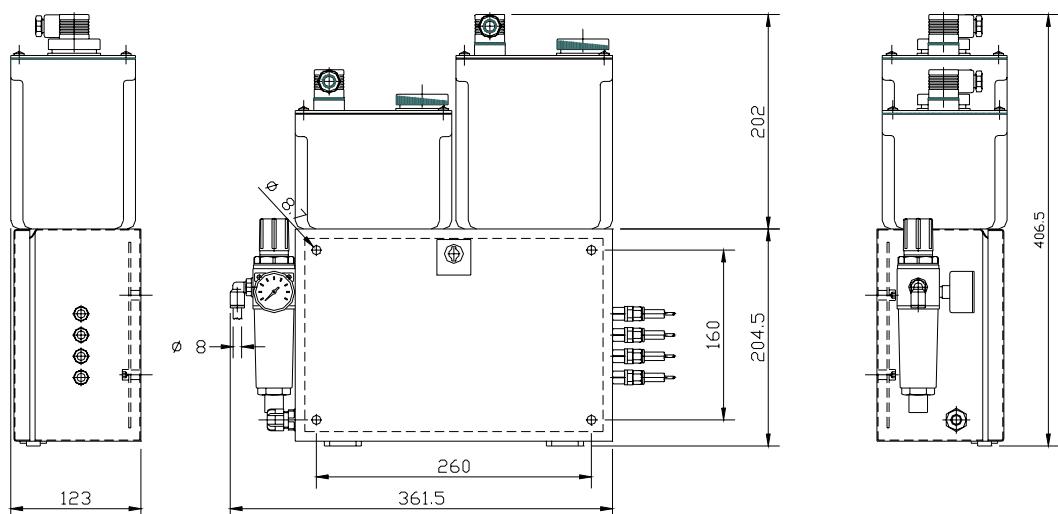
CODE	TYPE
70.071.2	MIX 1 (OIL) + 2 (EMULSION)
70.071.3	MIX 2 (OIL) +2 (EMULSION)



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THE UNIT IS SUPPLIED COMPLETE OF:	
1-30	LOW LEVEL SWITCHES
19	FILLER CUPS + STRAINER
7	2.2 L EMULSION RESERVOIR
17	1.2 L OIL RESERVOIR
12	METALLIC BOX
9	PUMPS + BASES
29	SUCTION STRAINER
8	AIR REGULATOR
6	FREQUENCY GENERATOR
18	AIR INLET FITTINGS PUSH-IN 8 MM
10-11	PRESSURE REDUCER WITH GAUGE
20	SOLENOID VALVE 24 V DC – 24 V AC – 115 V AC OR 230 V AC THE VOLTAGE HAS TO BE ADD TO THE CODE. EXAMPLE 70.071.2.24VDC
5 M COAXIAL HOSE FOR EACH OUTLET (6 MM – 2.5 MM)	

OVERALL DIMENSION



CODES TO ORDER SOLENOID VALVE COILS

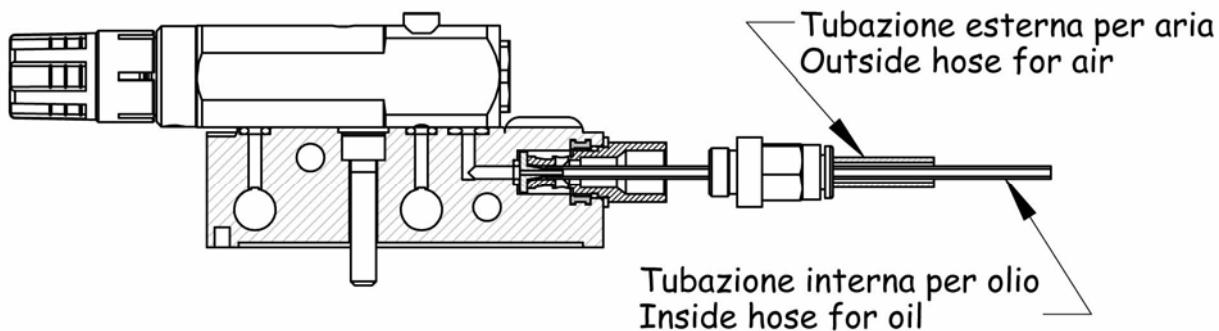
14.660.1.R	14.660.2.R	14.660.3.R	14.660.4.R
24 V DC	115 V AC	230 V AC	24 V AC



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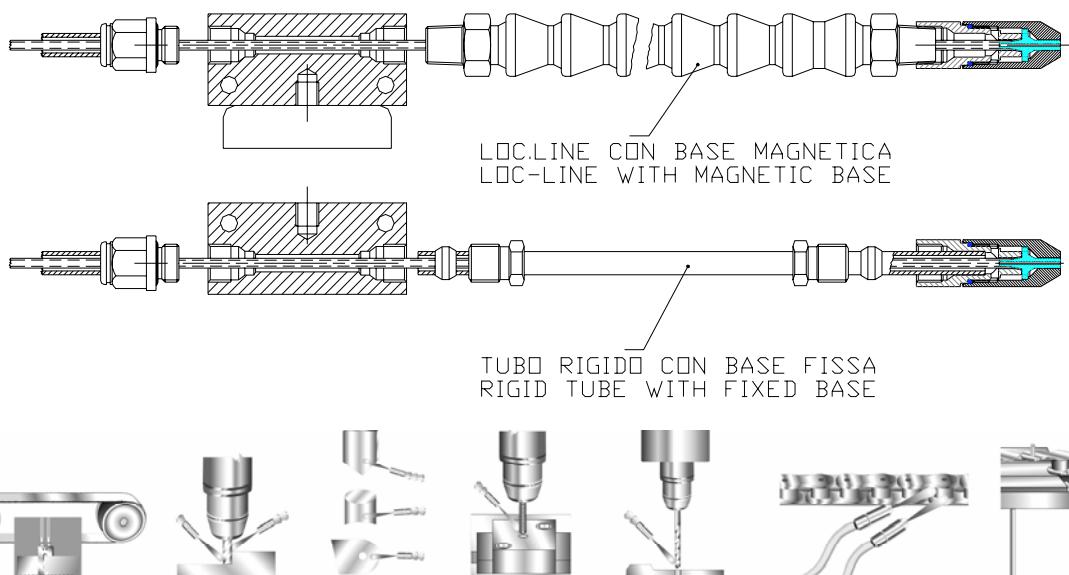
COAXIAL FEEDING LINES

ALL LUBETOOLS ARE SUPPLIED WITH 5 M OF COAXIAL HOSES ALREADY ASSEMBLED IN THE BASE OF THE PNEUMATIC PUMPS. THE OUTSIDE NYLON HOSES HAVE A DIAMETER OF 6 MM AND THE INSIDE NYLON HOSES HAVE A DIAMETER OF 2.5 MM. THE INSIDE HOSES ARE 500 MM MORE LONGER THAN THE OUTSIDE HOSES BECAUSE HAVE TO BE JOIN TO THE NOZZLE, WHILE THE OUTSIDE HOSES HAVE TO BE JOIN TO THE STRAIGHT ADAPTORS. ON REQUEST IS POSSIBLE TO SUPPLY MORE LONGER HOSES AND/OR SPECIAL COVERING.



END TUBES WITH NOZZLE

THE END TUBES WITH NOZZLE HAVE AN OVERALL LENGTH OF 300 MM THAT CAN BE REDUCED CUTTING THE STEEL TUBE OR REMOVING PARTS OF THE LOC-LINE



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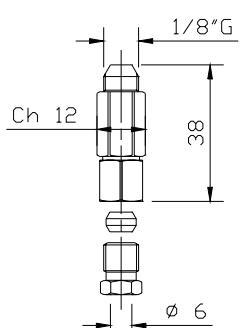
CODE	TYPE
70.100.0	LOC-LINE WITH FIXED BASE (6 MM)
70.100.2	LOC-LINE WITH MAGNETIC BASE (6 MM)
70.100.1	RIGID TUBE WITH FIXED BASE (6 MM)
70.100.3	RIGID TUBE WITH MAGNETIC BASE (6 MM)
70.101.0	LOC-LINE WITH FIXED BASE (8 MM)
70.101.2	LOC-LINE WITH MAGNETIC BASE (8 MM)
70.101.1	RIGID TUBE WITH FIXED BASE (8 MM)
70.101.3	RIGID TUBE WITH MAGNETIC BASE (8 MM)

THE CODE INCLUDES THE NOZZLE, THE STEEL
OR THE LOC-LINE TUBE AND THE MAGNETIC OR FI-
XED BASE.

NOZZLE WITH HEAD THREAD 1/8" GAS



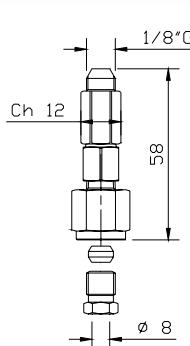
A70.093181



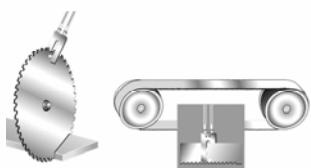
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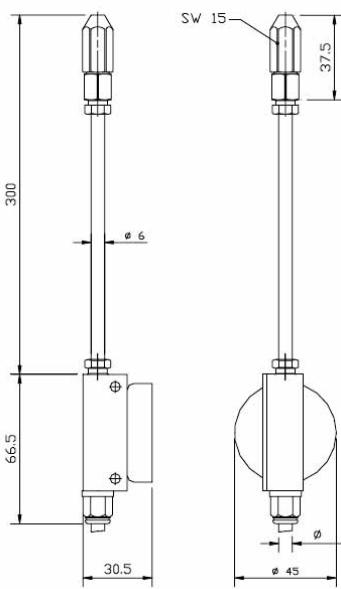
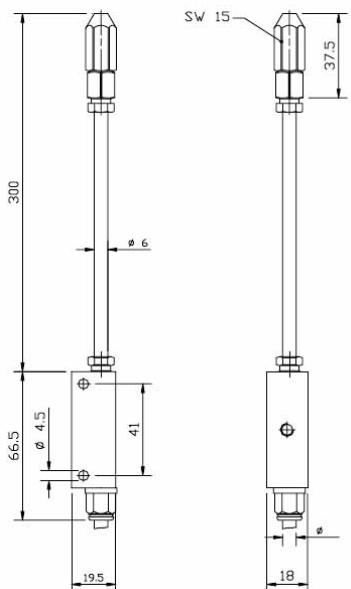
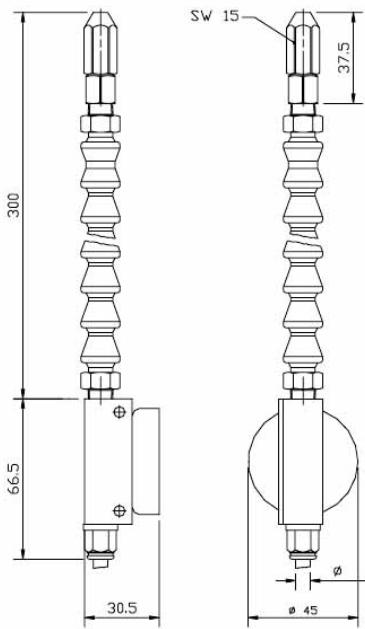
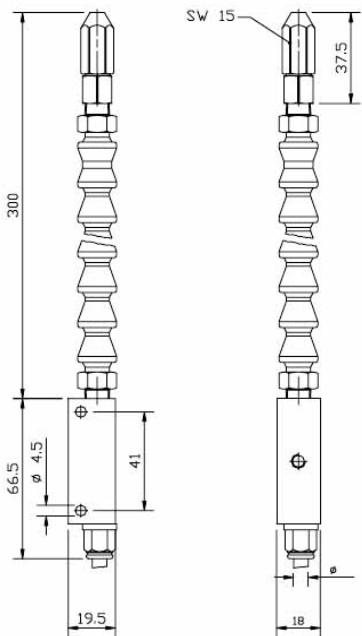
A70.093246



A70.093248



**END TUBES WITH NOZZLE
OVERALL DIMENSION**



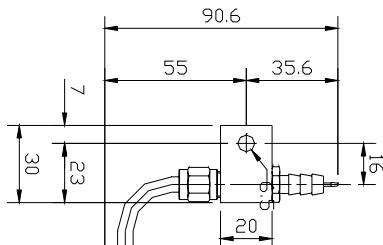
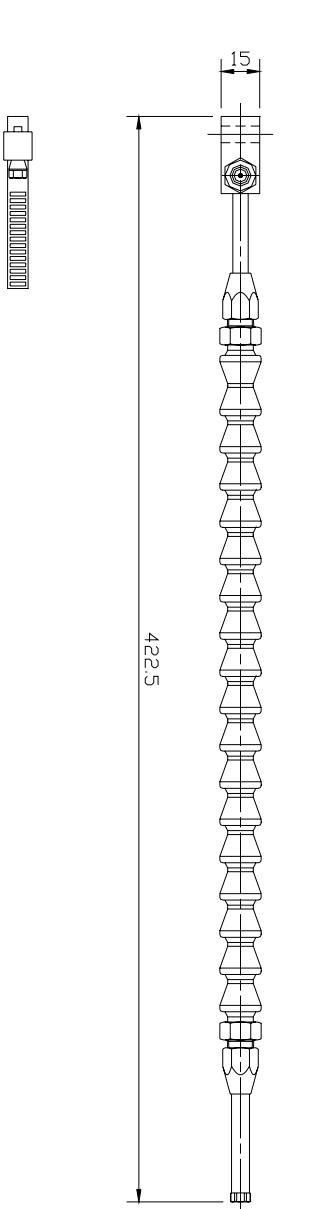
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1-413-788-LUBE (5823)

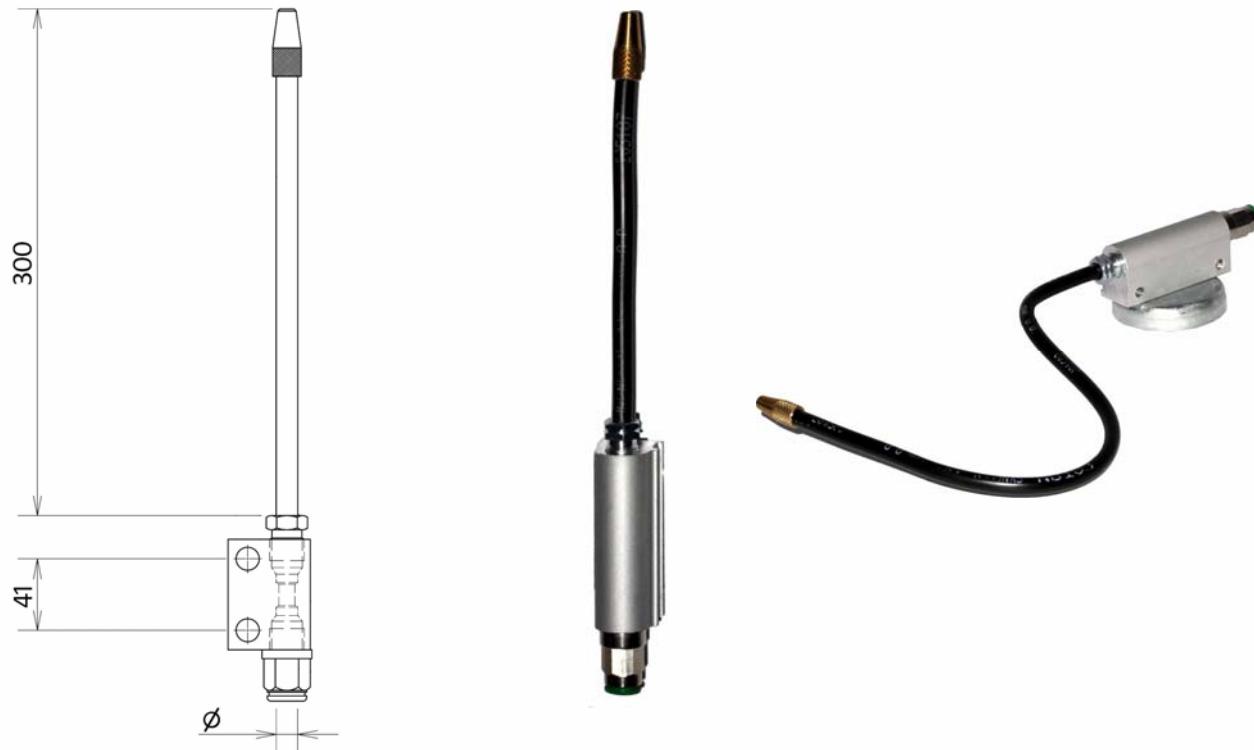
**END TUBES WITH NOZZLE
 OVERALL DIMENSION**

CODE
 70.103.8



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END TUBES WITH DECARBON NOZZLE
OVERALL DIMENSION



CODE	DECABON NOZZLE	Ø
70.118.2	WITH BLOCK + PUSH-IN FITTING	6 MM
70.118.3	WITH MAGNETIC BLOCK + PUSH-IN FITTING	6 MM
70.118.4	WITH BLOCK + PUSH-IN FITTING	8 MM
70.118.5	WITH MAGNETIC BLOCK + PUSH-IN FITTING	8 MM

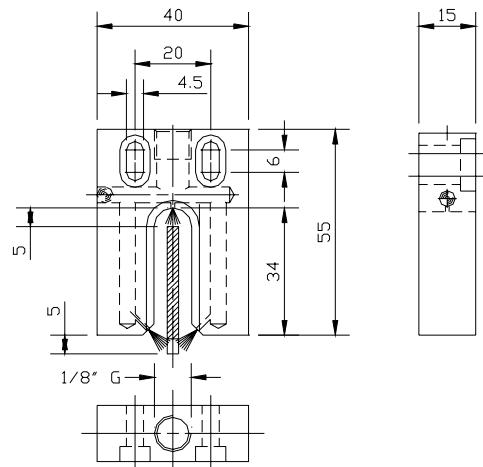


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SADDLE NOZZLE FOR HORIZONTAL BAND SAW
BLADE HEIGHT: FROM 6 MM TO 34 MM
LUBRICANT: OIL

CODE	INLETS	OUTLETS
70.111.0	1	3

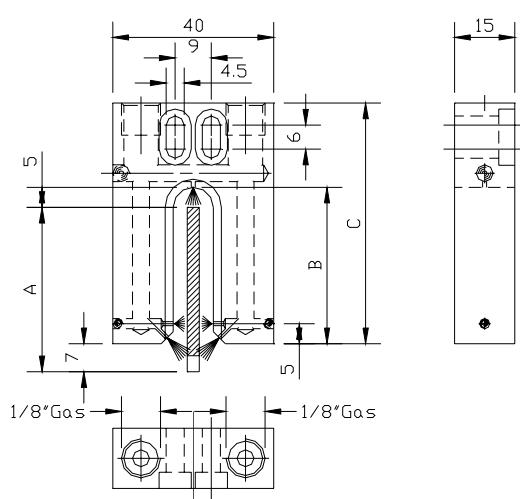
OVERALL DIMENSION



BLADE HEIGHT: FROM 41 MM TO 80 MM
LUBRICANT: OIL

CODE	INLETS	OUTLETS	BLADE	A	B	C
70.111.1	2	5	41	41	39	60
70.111.2	2	5	54	54	52	73
70.111.3	2	5	67	67	65	86
70.111.4	2	5	80	80	78	99

OVERALL DIMENSION

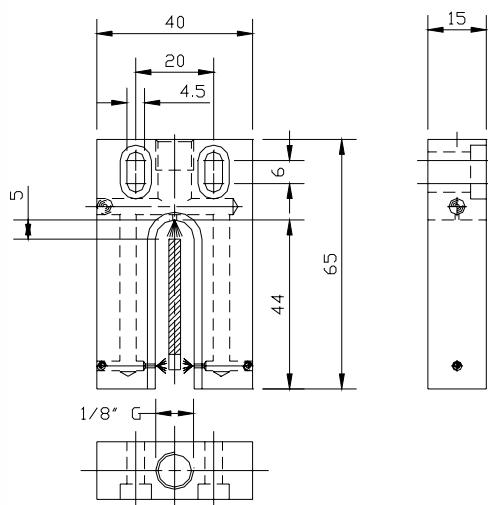


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SADDLE NOZZLE FOR VERTICAL BAND SAW
BLADE HEIGHT: FROM 6 MM TO 34 MM
LUBRICANT: OIL

CODE	INLETS	OUTLETS
70.112.0	1	3

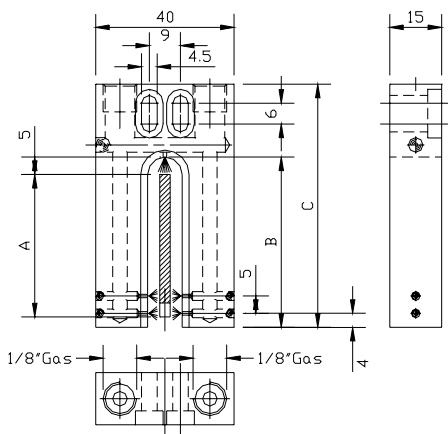
OVERALL DIMENSION



BLADE HEIGHT: FROM 41 MM TO 80 MM
LUBRICANT: OIL

CODE	INLETS	OUTLETS	BLADE	A	B	C
70.112.1	2	5	41	41	49	70
70.112.2	2	5	54	54	62	83
70.112.3	2	5	67	67	75	96
70.112.4	2	5	80	80	88	109

OVERALL DIMENSION



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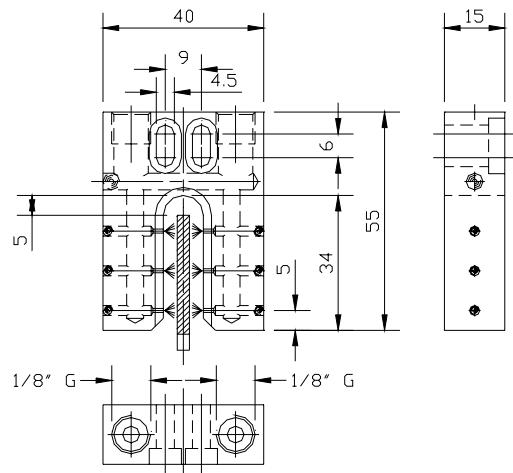
SADDLE NOZZLE FOR HORIZONTAL BAND SAW

BLADE HEIGHT: FROM 6 MM TO 34 MM

LUBRICANT: EMULSION

CODE	INLETS	OUTLETS
70.113.0	2	6

OVERALL DIMENSION

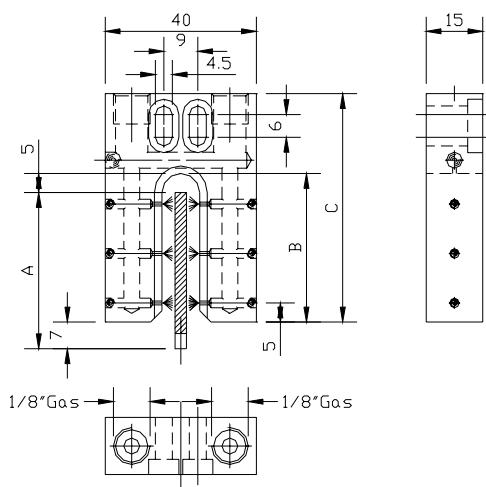


BLADE HEIGHT: FROM 41 MM TO 80 MM

LUBRICANT: EMULSION

CODE	INLETS	OUTLETS	BLADE	A	B	C
70.113.1	2	6	41	41	39	60
70.113.2	2	8	54	54	52	73
70.113.3	2	10	67	67	65	86
70.113.4	2	12	80	80	78	99

OVERALL DIMENSION



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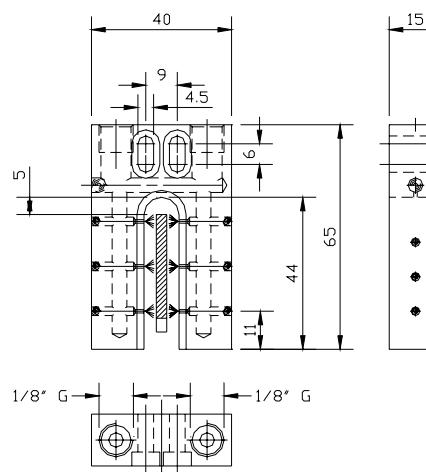
120 Bosworth St., West Springfield MA 01089

1-413-788-LUBE (5823)

SADDLE NOZZLE FOR VERTICAL BAND SAW
BLADE HEIGHT: FROM 6 MM TO 34 MM
LUBRICANT: EMULSION

CODE	INLETS	OUTLETS
70.114.0	2	6

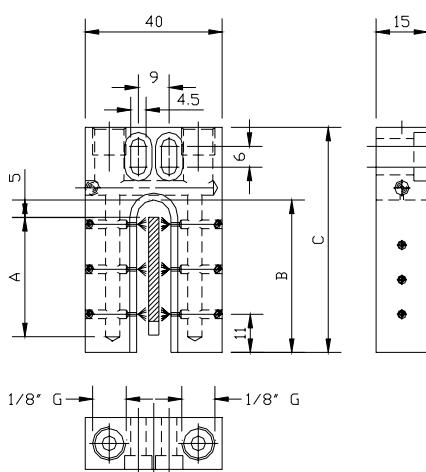
OVERALL DIMENSION



BLADE HEIGHT: FROM 41 MM TO 80 MM
LUBRICANT: EMULSION

CODE	INLETS	OUTLETS	BLADE	A	B	C
70.114.1	2	6	41	41	49	70
70.114.2	2	8	54	54	62	83
70.114.3	2	10	67	67	75	96
70.114.4	2	12	80	80	88	109

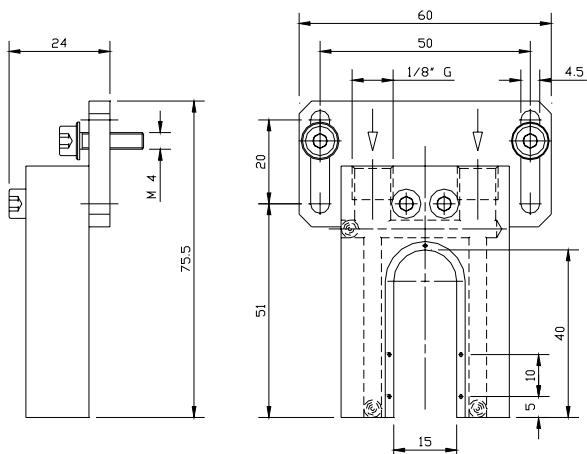
OVERALL DIMENSION



SADDLE NOZZLE FOR CIRCULAR SAW
LUBRICANT: OIL

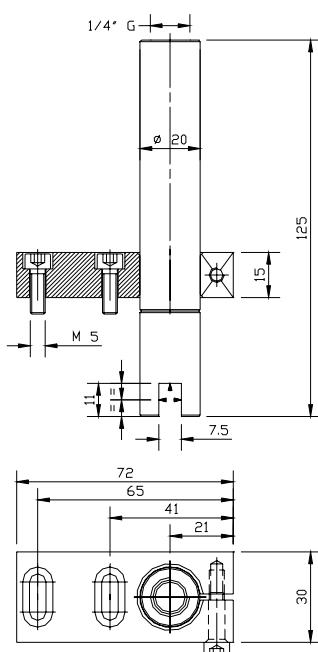
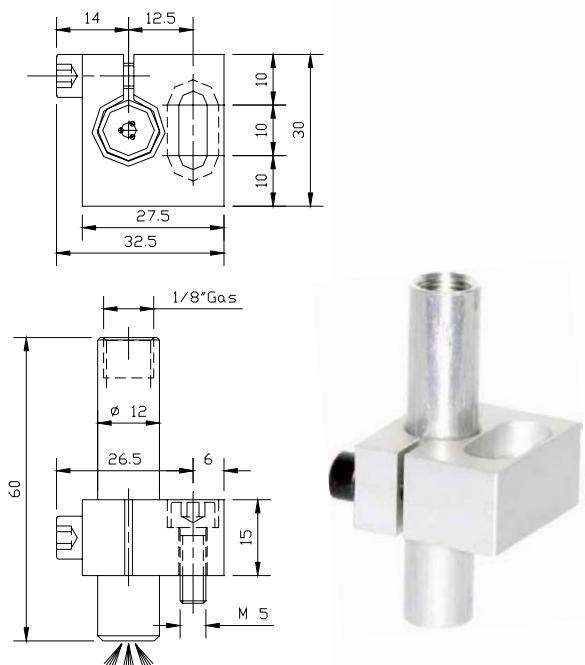
CODE	INLETS	OUTLETS
70.106.2	2	5

OVERALL DIMENSION



CODICE	INGRESSI	USCITE	CODICE	INGRESSI	USCITE
CODE	INLETS	OUTLETS	CODE	INLETS	OUTLETS
70.103.2	1	3	70.103.5	1	3

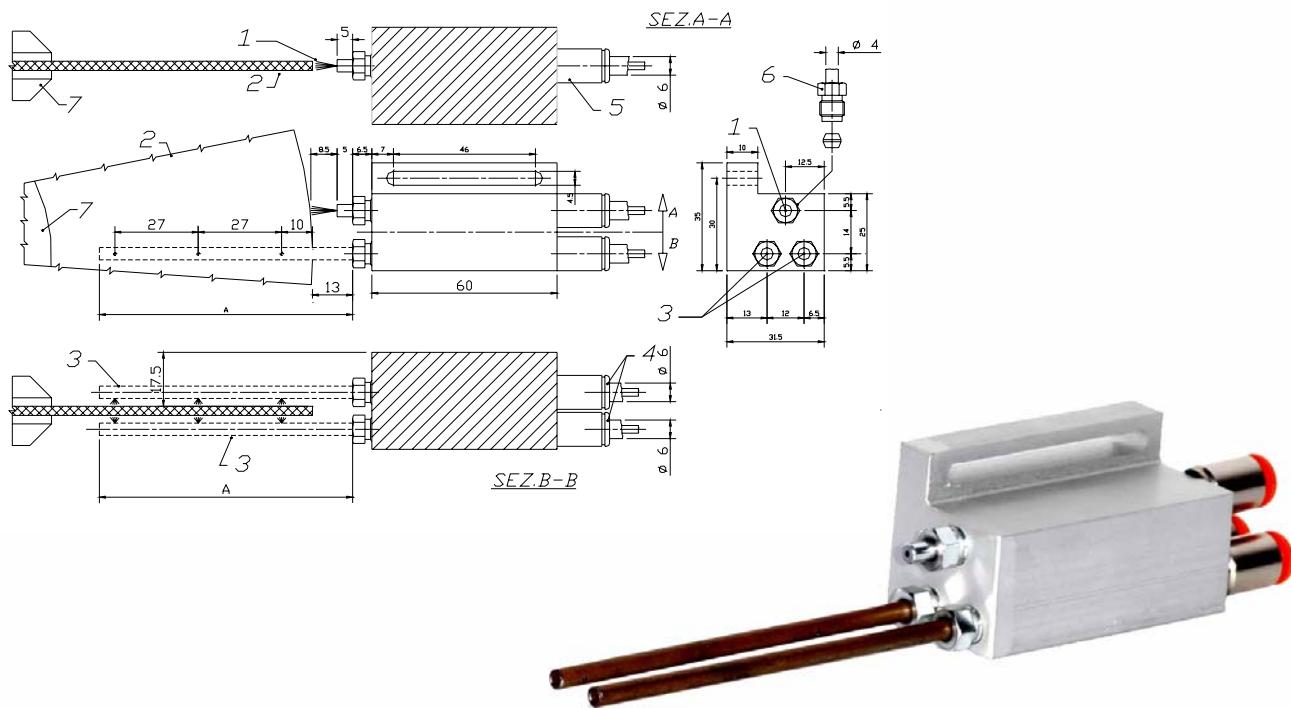
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NOZZLE FOR CIRCULAR SAW

LUBRICANT: OIL + EMULSION



1	TOOTH LUBRICATION WITH OIL
2	DISK
3	SIDES LUBRICATION WITH EMULSION
4	PUSH-IN FITTINGS TUBE 6 MM FOR EMULSION
5	PUSH-IN FITTING TUBE 6 MM FOR OIL
6	NUT AND OLIVE FOR 4 MM TUBE
7	METAL RING TO FIX THE DISK

CODES FOR ORDER

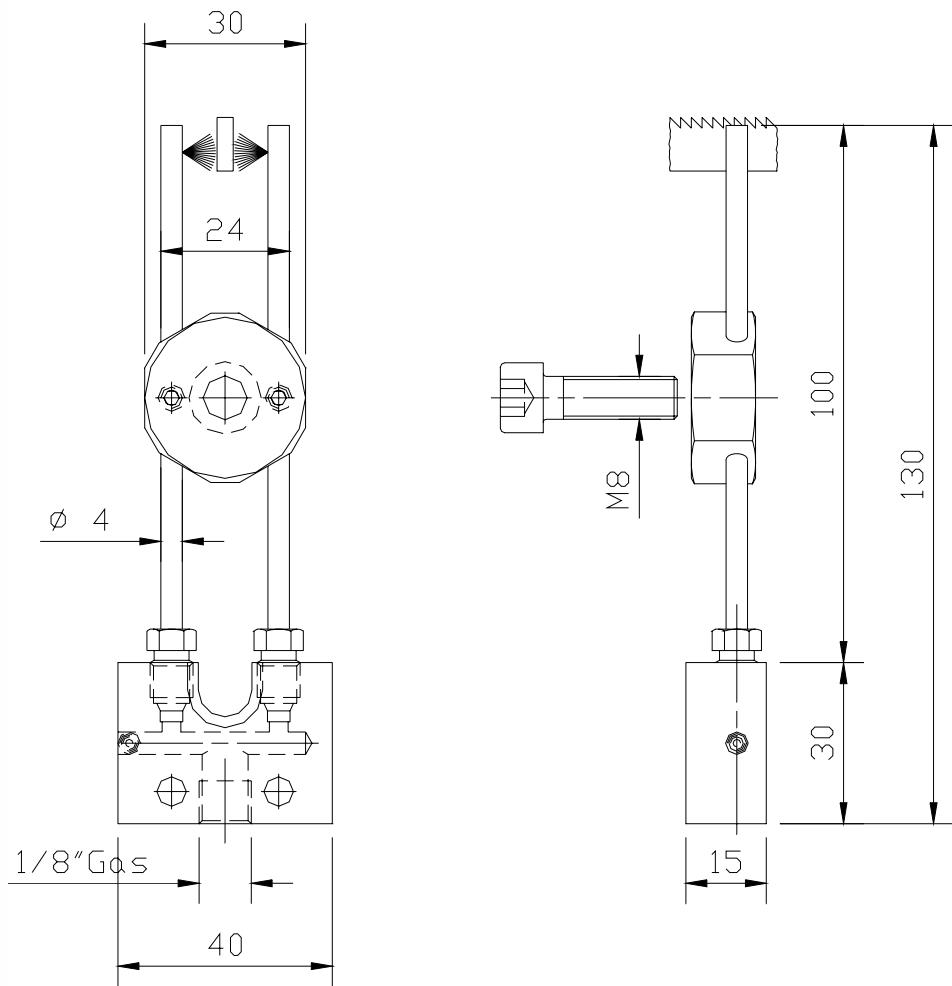
CODE	EMULSION HOLES	DISK DIAMETER MM	A
70.103.4.55	2 + 2	175 – 200	55
70.103.4.82	3 + 3	225 – 250 – 275	82
70.103.4.109	4 + 4	300 – 315 – 350 – 370 - 400	109



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**SPECIAL NOZZLE FOR VERTICAL BLADE
OVERALL DIMENSION**

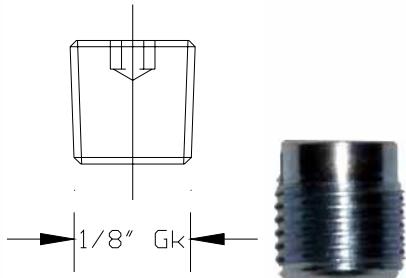
**CODE
70.109.9**



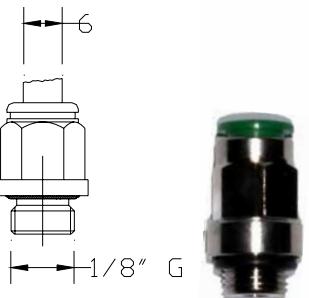
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PUSH-IN FITTINGS AND PLUG FOR SADDLE NOZZLE

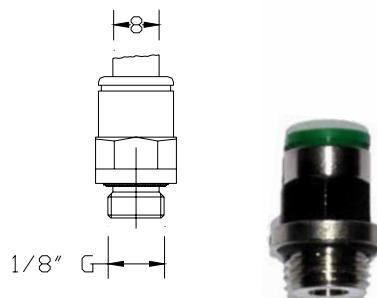
A92.087058
1/8"



A92.106113
1/8" - 6 MM



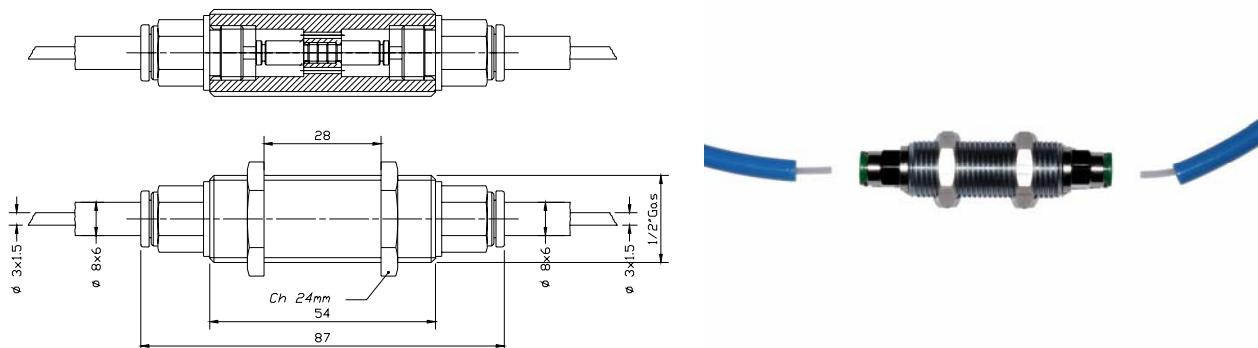
A92.106074
1/8" - 8 MM



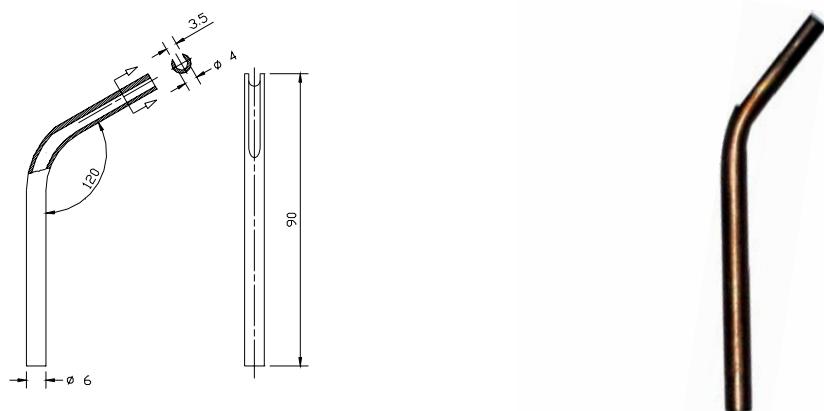
BULKHEAD CONNECTION PUSH-IN FOR COAXIAL HOSES 8x4

MM - 3x1.5 MM

A70.093230



A70.093231



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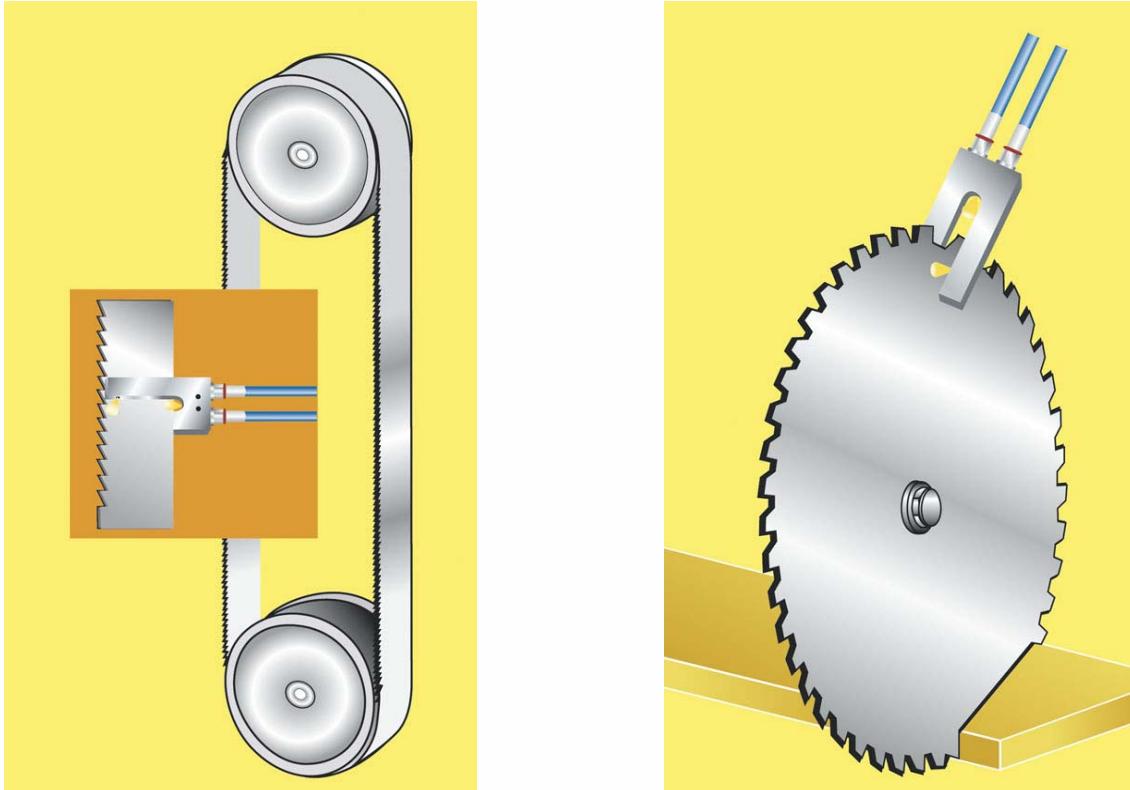
120 Bosworth St., West Springfield MA 01089

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APPLICATIONS

REMEMBER MORE IS NOT BETTER AND USE DROPS NOT LITRES

SEGATRICI CIRCOLARI
CIRCULAR SAW MACHINES



THE NUMBER OF NOZZLE TO USE IS DEPENDING ON THE MATERIALS AND THE ART OF PROCESSING

**GUIDE TO SELECT THE NOZZLE
BAND SAW MACHINES**

BLADE FROM 6 MM TO 34 MM	1 INLET – 3 OUTLETS
BLADE FROM 41 MM TO 80 MM	2 INLETS – 5 OUTLETS

**GUIDE TO SELECT THE NOZZLE
CIRCULAR SAW MACHINES**

DISK FROM 175 MM TO 225 MM	1 INLET – 3 OUTLETS
DISK FROM 250 MM TO 400 MM	2 INLETS – 5 OUTLETS

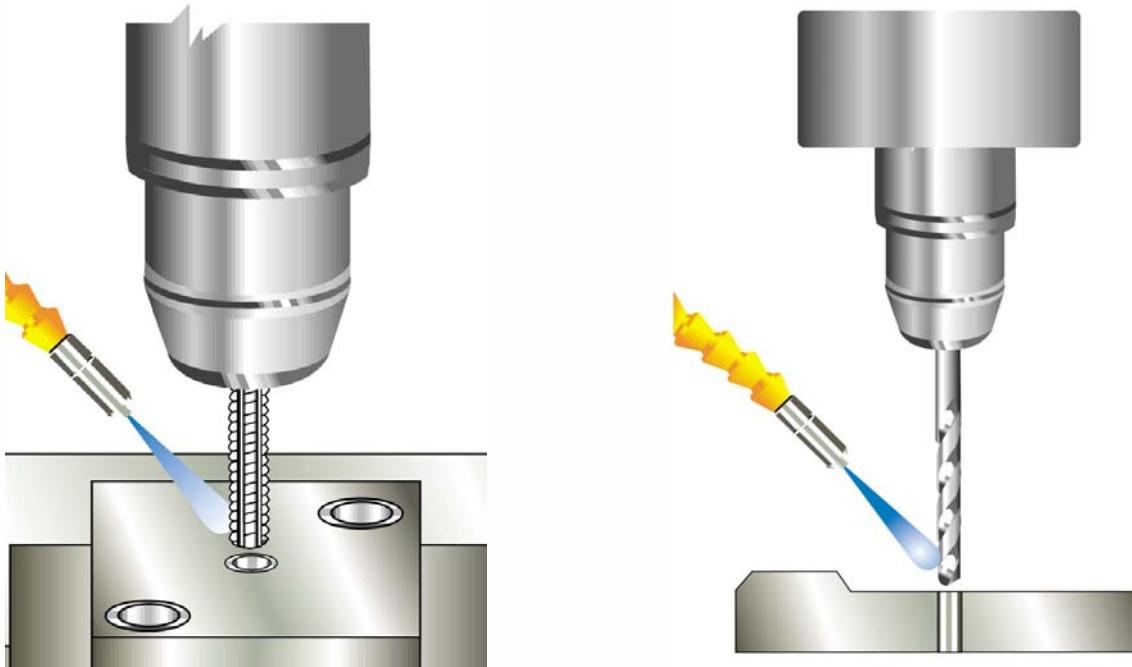


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APPLICATIONS

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FORATURA - ALESATURA
DRILLING - BORING



THE NUMBER OF NOZZLE TO USE IS DEPENDING ON THE MATERIALS AND THE ART OF PROCESSING

**GUIDE TO SELECT THE NOZZLE
TAPPING**

TOOL FROM 3 MM TO 10 MM	1 NOZZLE
TOOL FROM 11 MM TO 20 MM	2 NOZZLE
TOOL FROM 21 MM TO 40 MM	3 NOZZLE
TOOL FROM 41 MM TO 60 MM	4 NOZZLE

**GUIDE TO SELECT THE NOZZLE
DRILLING - BORING**

TOOL FROM 1 MM TO 12 MM	1 NOZZLE
TOOL FROM 13 MM TO 24 MM	2 NOZZLE
TOOL FROM 25 MM TO 48 MM	3 NOZZLE
TOOL FROM 49 MM TO 60 MM	4 NOZZLE

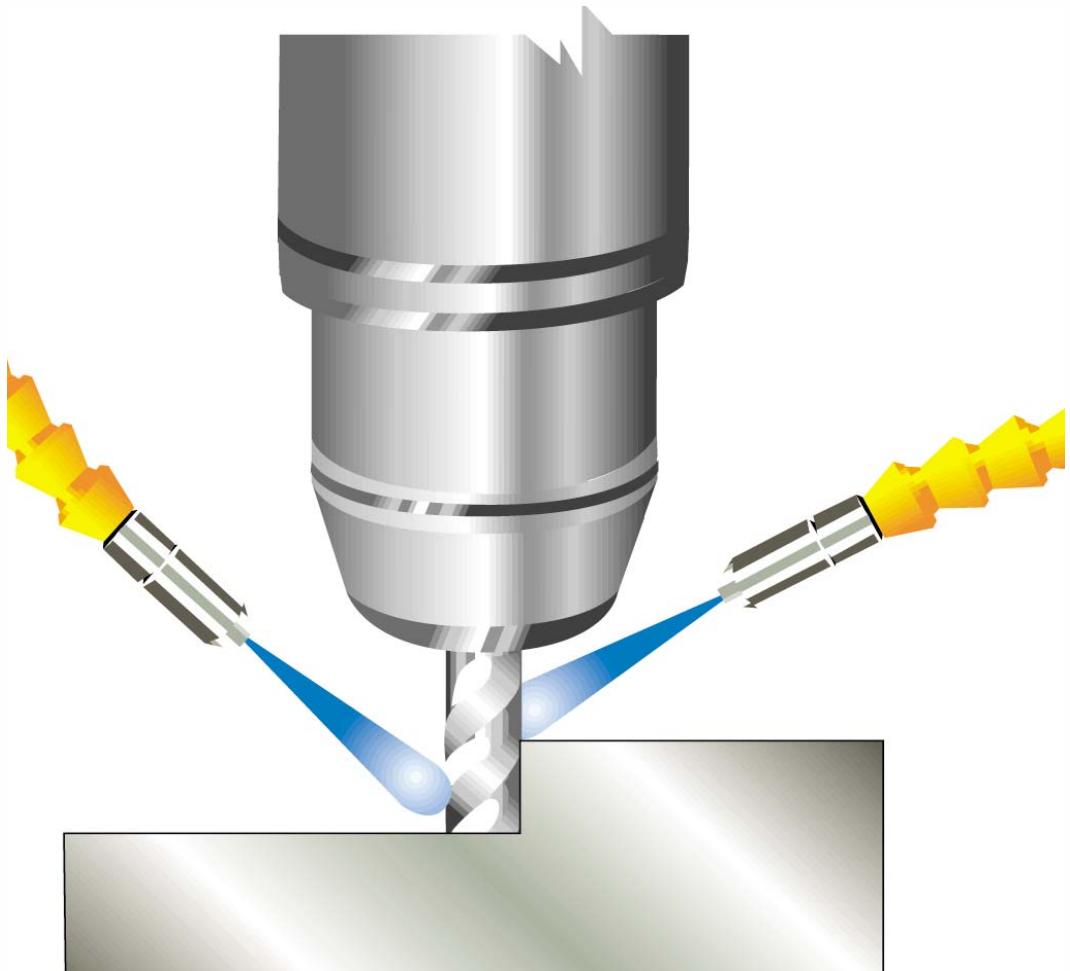


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APPLICATIONS

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MILLING - ENGRAVING



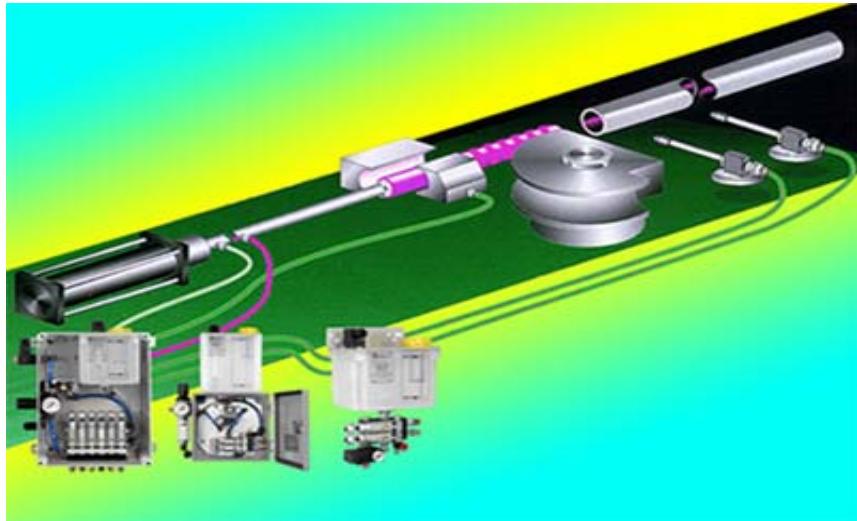
THE NUMBER OF NOZZLE TO USE IS DEPENDING ON THE MATERIALS AND THE ART OF PROCESSING

GUIDE TO SELECT THE NOZZLE

TOOL FROM 1 MM TO 12 MM	1 NOZZLE
TOOL FROM 13 MM TO 40 MM	2 NOZZLE
TOOL FROM 41 MM TO 100 MM	3 NOZZLE
TOOL FROM 101 MM TO 240 MM	4 NOZZLE



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The TUBE FORMING LUBRICATION SYSTEM consists of many options, it depends on customer preferences.

Normally the mandrel is lubricated with higher oil volume and higher air pressure than the other points. The spray dispensed to each outlet is fully adjustable. The customer can have an air-oil combination or just oil.

We can set the system following customers need.

An exact adjustable amount of lubricant is sent to all points that have to be lubricate. The whole working environment remains clean.

BENEFITS:

Positive lubricant injection

Automatic repeat cycling of lubricant metering pumps

Automatic cycling with machine

Various combination of outlets

Custom systems to meet customer's needs

Full adjustment of air and oil output at each lubrication point



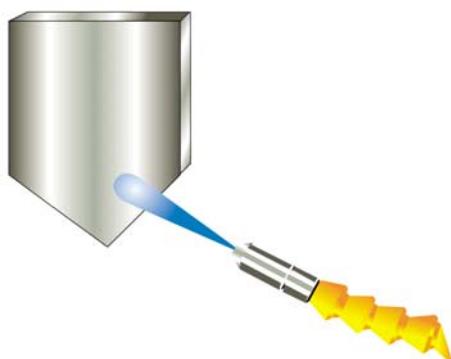
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APPLICATIONS

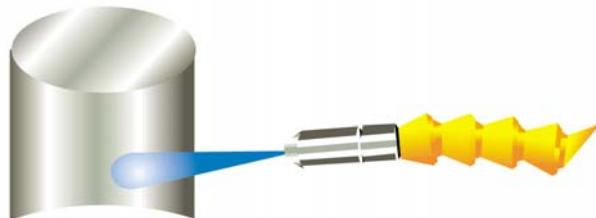
REMEMBER MORE IS NOT BETTER AND USE DROPS NOT LITRES

TUBE FABRICATION

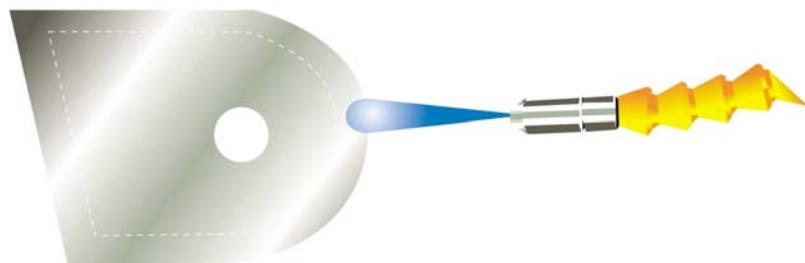
*TRADITIONAL CUTTING
ORBITAL CUTTING
SHEARING
TAGGING*



*PUNCHING
DRILLING
FACING
FLARING*



*FORMING
BENDING
SHAPING*



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APPLICATIONS

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CHAINS – MONO AND BI-RAIL CONVEYORS

THE LUBRICATION ASSURES MAXIMUM CHAIN LIFE AND OPTIMUM CONVEYOR OPERATION.

THE SYSTEM DOES NOT CONTAMINATE THE TRANSPORTED MATERIALS WITH OIL DROPS.

THE SYSTEM DO NOT PRODUCE FOG OR DANGEROUS VAPOUR.

LAST GENERATION OIL CAN BE USED WITHOUT PROBLEMS.

THE CORRECT UNIT DEPENDS ON THE NUMBER OF POINTS HAVE TO BE LUBRICATE.

THE UNIT WILL BEGIN TO OPERATE BY MEAN OF AN INDUCTIVE SENSOR OR A MECHANICAL FEELER PIN OPERATED FROM THE CHAIN.

A SOLENOID VALVE OR A VALVE WILL OPEN AND WILL SEND THE AIR TO THE SYSTEM.

DURING THE WORKING TIME WILL BE POSSIBLE TO HAVE ONE SHOT OR MORE SHOTS DEPENDING ON THE CHAIN HAVE TO BE LUBRICATED.

THE TIME THAT THE INDUCTIVE SENSOR OR THE MECHANICAL FEELER PIN IS ACTIVATED FROM THE CHAIN. WILL BE THE WORKING TIME.

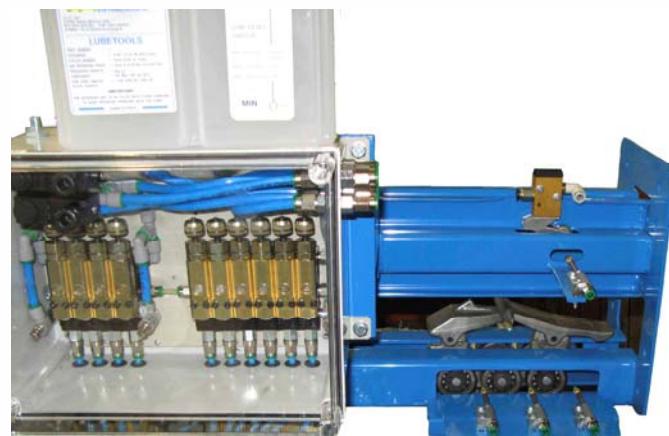
THE MORE USED NOZZLE IS WITH STEEL UBE BECAUSE HAS THE POSSIBILITY TO BE ADJUSTED WITHOUT BRACKET.

SOME TIME ARE USED THE NOZZLE WITH A THREADED FINAL PART. IN THIS CASE HAS TO BE USED BRACKETS WITH THREAD HOLES.



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CONVEYORS LUBRICATION SYSTEMS



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MINIMAL
LUBRICATION
SYSTEMS

**CONVEYORS LUBRICATION
MONO AND BI RAIL SYSTEMS**

THIS SYSTEM IS DESIGNED TO LUBRICATE THE ROLLERS OF CONVEYORS WHILE THEY ARE IN OPERATION AND DELIVERS A METERED AMOUNT OF LUBRICANT INTO MOVING BEARING FITTINGS. THESE CUSTOM-ENGINEERED LUBRICATION SYSTEMS ARE PERFECT FOR APPLICATIONS EVEN IN HARSH OPERATING CONDITIONS. EACH CONVEYOR REQUIRES ONE UNIT FOR THE LEFT SIDE AND FOR THE RIGHT. THE SEQUENCE OF THE LUBRICATION EVENTS (EACH ROLLER OR EVERY OTHER ROLLER, ETC.) DEPENDS ON THE NUMBER OF ROLLERS, THE SPEED OF THE CONVEYOR OR ON THE DISTANCE BETWEEN THE ROLLERS.

BENEFITS

METERED APPLICATION OF LUBRICANT

WORKS ON MOVING PARTS WHICH CONSUMING TIME TO LUBRICATE MANUALLY

LUBRICATES WHILE THE CONVEYOR IS IN NORMAL OPERATION – NO LOST PRODUCTION TIME

LUBRICATION EVEN UNDER HARSH OPERATION CONDITION

FUNCTIONING

SYSTEM IS FORMED BY A RESERVOIR WHICH SENDS OIL, BY GRAVITY, TO THE DISPENSING ROOMS OF THE PNEUMATIC MICROPUMPS. NECESSARY AIR FOR THE FUNCTIONING OF THE PUMPS AND THE OIL SPRAY IS SENT ON THE PASSAGE OF BEARINGS THAT POWER PNEUMATIC VALVES WITH MECHANICAL CONTROL OR INDUCTIVE SENSORS, SUITABLY POSITIONED ALONG RAILROAD.



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*CONVEYORS LUBRICATION
MONORAIL SYSTEMS*



*TYPICAL MONORAIL
CONVEYOR SYSTEM*

TYPICAL MONORAIL CONVEYOR SYSTEM IS COMPOSED BY:

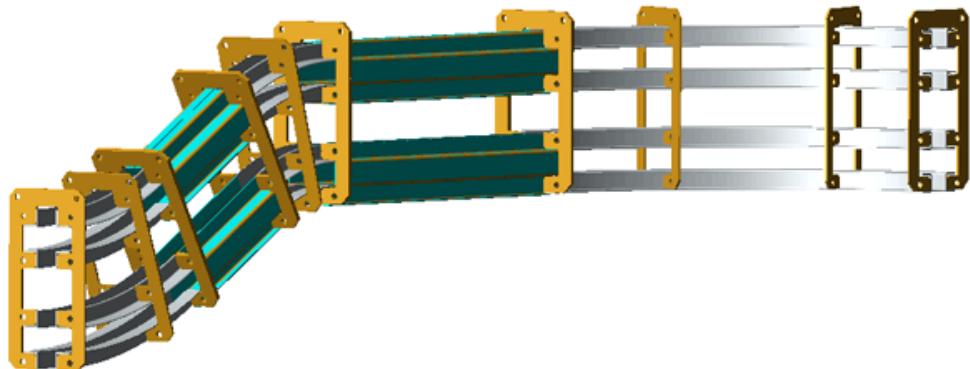
- 1) 2 PNEUMATIC VALVES WITH MECHANICAL CONTROL
OR 2 INDUCTIVE SENSORS
- 2) 4 MICROPUMPS DIVIDED IN TWO GROUPS OF 2
- 3) ONE 2.2 L RESERVOIR COMPLETE OF LUBRICANT LOW
LEVEL SWITCH
- 4) 2 AIR REGULATORS
- 5) 4 NOZZLES

*WE ARE STILL AVAILABLE FOR DESIGNING SYSTEMS ON
SPECIFIC REQUEST OF CUSTOMER.*



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**CONVEYORS LUBRICATION
BIRAIL SYSTEMS**



**TYPICAL BIRAIL
CONVEYOR SYSTEM**

TYPICAL BIRAIL CONVEYOR SYSTEM IS COMPOSED BY:

- 1) 3 OR 4 PNEUMATIC VALVES WITH MECHANICAL CONTROL OR INDUCTIVE SENSORS
- 2) 10 OR MORE MICROPUMPS DIVIDED INTO TWO GROUPS OF 2 AND ONE OF 6
- 3) ONE 3,6L RESERVOIR COMPLETE OF LOW LEVEL SWITCH
- 4) 3 OR MORE AIR REGULATOR
- 5) 10 OR MORE NOZZLES

**WE ARE STILL AVAILABLE FOR DESIGNING SYSTEMS ON
SPECIFIC REQUEST OF CUSTOMER.**

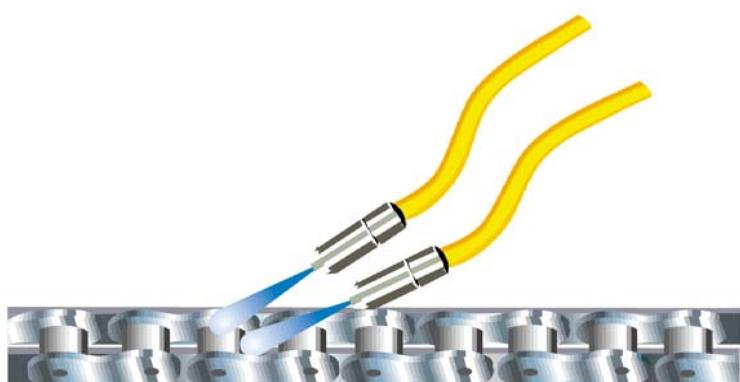
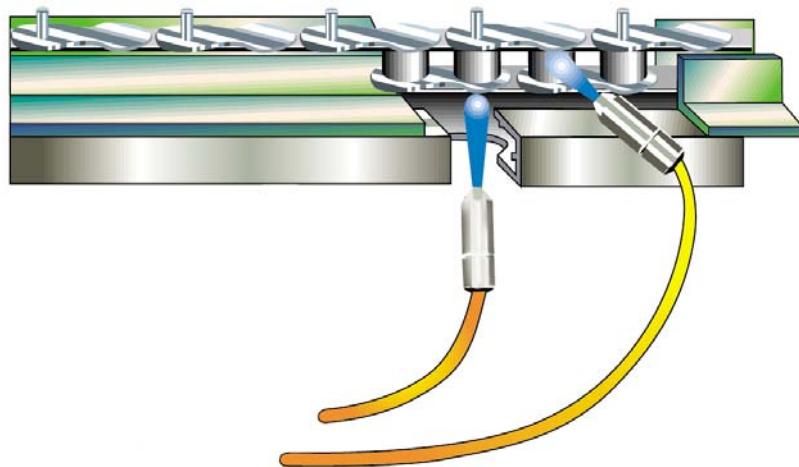


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APPLICATIONS

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CHAINS – MONO AND BI-RAIL CONVEYORS



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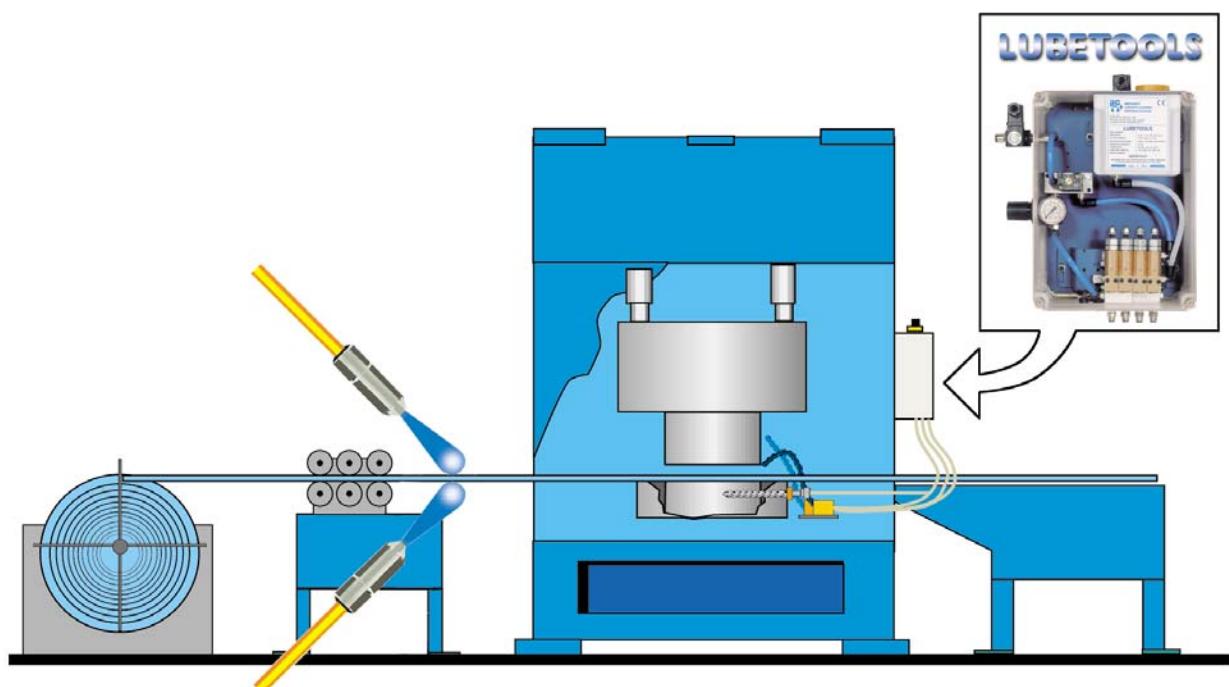
APPLICATIONS

REMEMBER MORE IS NOT BETTER AND USE DROPS NOT LITRES

METAL

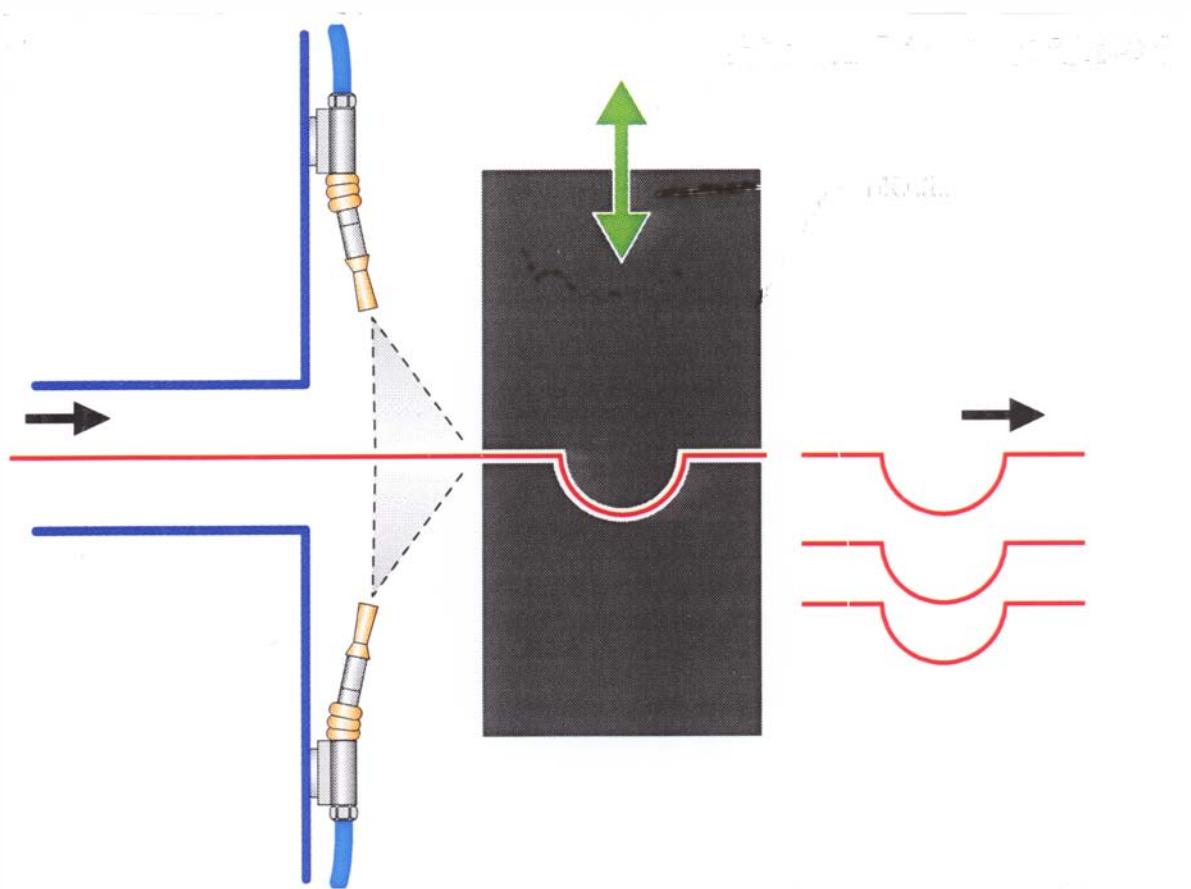
FORMING

LUBRICATION



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POSITIONING NOZZLE



SHEET DISTANCE 100-150 MM

DISTANCE FROM ANOTHER NOZZLE 100 MM

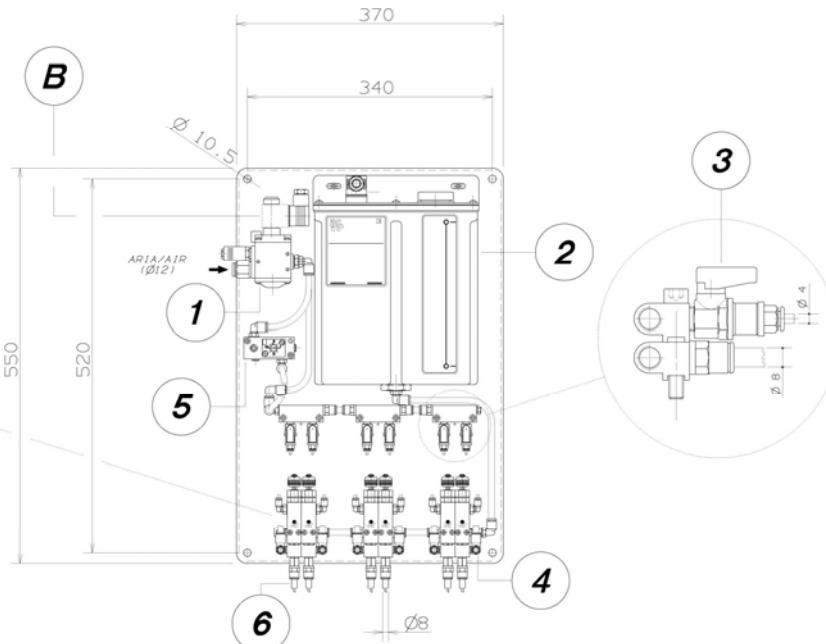
45° ANGLE AS SHOW ON THE PICTURE

EACH NOZZLE COVER A SURFACE OF 100-120 MM



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STRIP TOP AND BOTTOM LUBRICATION WITH WIDTH FROM 50 MM TO 800 MM



CODE	WAYS
70.722.4	2
70.067.9	4
70.099.5	6

B	COIL
1	N. 2 SOLENOID VALVE 24 V DC – 24 V AC – 115 V AC OR 230 V AC FIRST TO DRIVE THE PUMPS/STROKES SECOND TO SEND AIR TO THE NOZZLE
2	6 L RESERVOIR COMPLETE OF LOW LEVEL SWITCH 1 A 250 V AC 200 V DC 50 W
3	AIR PUMP ON/OFF VALVE
4	NOZZLE AIR REGULATOR
5	FREQUENCY GENERATOR
6	5 M COAXIAL TUBE 8 MM
THE POINTS ARE INDEPENDENT AND CAN BE EXCLUDED CLOSING THE VALVE 3 AND THE CORRESPONDENT NOZZLE AIR REGULATOR.	
ON REQUEST IT IS POSSIBLE TO SUPPLY UNITS TO LUBRICATE STRIP WITH LOWER OR UPPER WIDTH.	

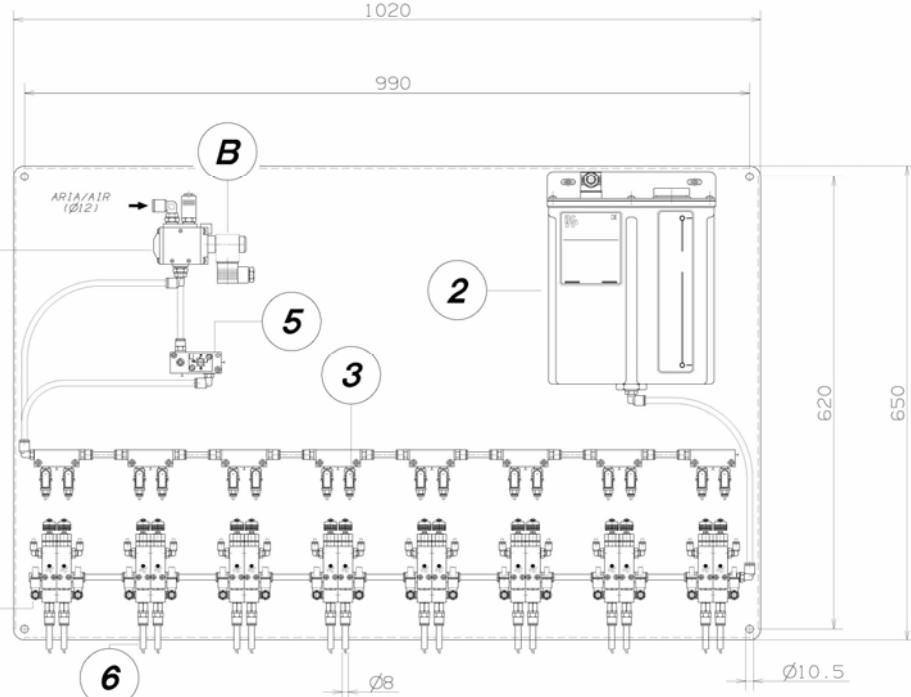
CODES TO ORDER SOLENOID VALVE 14.662.5 COILS

14.662.1.R 24 V DC	14.662.2.R 115 V AC	14.662.3.R 230 V AC	14.662.4.R 24 V AC



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**STRIP TOP AND BOTTOM LUBRICATION WITH WIDTH FROM 50
MM TO 800 MM**



CODE	WAYS
70.712.1	8
70.071.4	10
70.722.1	12
70.723.8	14
70.073.4	16

B	COIL
1	N. 2 SOLENOID VALVE 24 V DC – 24 V AC – 115 V AC OR 230 V AC FIRST TO DRIVE THE PUMPS/STROKES SECOND TO SEND AIR TO THE NOZZLE
2	6 L RESERVOIR COMPLETE OF LOW LEVEL SWITCH 1 A 250 V AC 200 V DC 50 W
3	AIR PUMP ON/OFF VALVE
4	NOZZLE AIR REGULATOR
5	FREQUENCY GENERATOR
6	5 M COAXIAL TUBE 8 MM

THE POINTS ARE INDEPENDENT AND CAN BE EXCLUDED CLOSING THE VALVE 3 AND THE CORRESPONDENT NOZZLE AIR REGULATOR.

ON REQUEST IT IS POSSIBLE TO SUPPLY UNITS TO LUBRICATE STRIP WITH LOWER OR UPPER WIDTH.

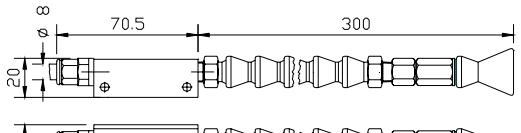
CODES TO ORDER SOLENOID VALVE 14.662.5 COILS

14.662.1.R	14.662.2.R	14.662.3.R	14.662.4.R
24 V DC	115 V AC	230 V AC	24 V AC

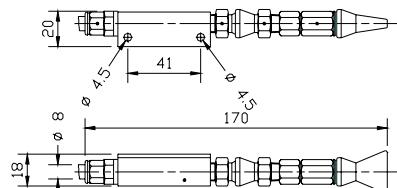


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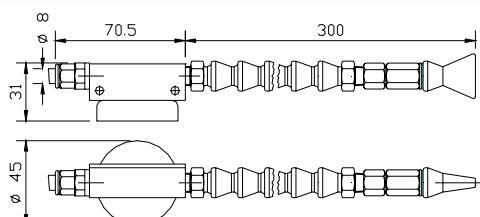
**FLAT NOZZLE
 FOR SLOW FEED**



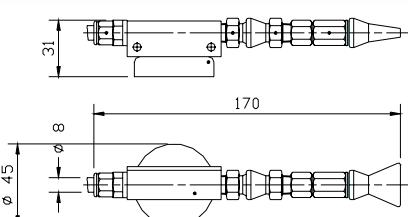
70.102.0



70.102.4



70.102.1



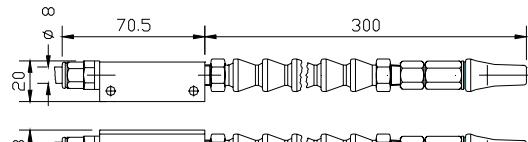
70.102.5

CODE	DESCRIPTION
70.102.0	LOC-LINE WITH FIXED BASE
70.102.1	LOC-LINE WITH MAGNETIC BASE
70.102.4	FIXED BASE
70.102.5	MAGNETIC BASE

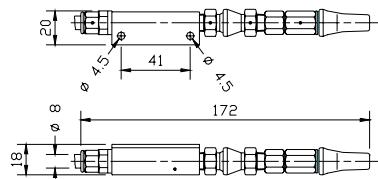


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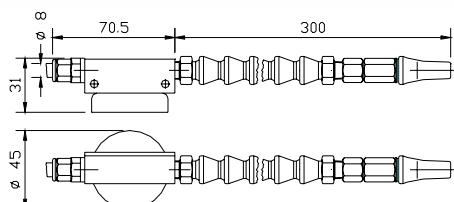
**CONE NOZZLE
FOR HIGH FEED**



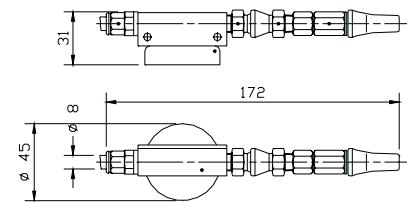
70.102.2



70.102.9



70.102.3



70.102.8

CODE	DESCRIPTION
70.102.2	LOC-LINE WITH FIXED BASE
70.102.3	LOC-LINE WITH MAGNETIC BASE
70.102.9	FIXED BASE
70.102.8	MAGNETIC BASE



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VEGETABLE OIL NATURAL - 77

INTEGRAL LUBRICANT OF NATURAL ORIGINS

ILC TECHNICAL DEPARTMENT HAS SET A SERIES OF LUBRICANT/COOLANT OF NATURAL ORIGINS CALLED NATURAL 77 SERIES, WITH THE PRECISE AIM OF IMPROVING DRAMATICALLY THE WORKING ENVIRONMENT CONDITIONS AND IN THE MEANWHILE TO SUPPLY CUTTING TOOLS PERFORMANCES HIGHER TO THAT ACHIEVABLE WITH THE USE OF TRADITIONAL CUTTING NEAT MINERAL OILS. NATURAL 77 SERIES IS WHOLLY FREE FROM ANY LUBRICANT MINERAL OIL AND IT IS COMPOSED TOTALLY BY SYNTHETIC ESTERS DERIVED FROM RAW MATERIALS OF NATURAL ORIGINS. ODOURLESS, LIGHT-COLOURED, THESE PRODUCTS ARE WHOLLY BIODEGRADABLE AND ABSOLUTELY NON-TOXIC, THE USE OF NATURAL 77 SERIES AVOIDS TOTALLY THE RISK DUE TO THE USE OF MINERAL OILS AND CONSEQUENTLY THE PERIODICAL MEDICAL VISIT.

IN ADDITION, NATURAL 77 SERIES HAS AN EXCEPTIONAL LUBRICANT POWER COMBINED WITH EXTREME PRESSURE PREROGATIVES AND A GOOD COOLING ACTION WHICH KEEPS IT SUITABLE TO OBTAIN MAXIMAL RESULTS WITH STRONG FEEDS AND WITH THE TYPE OF WORKING TOOL, AVOIDING GASSINGS AND SEIZING-UP.

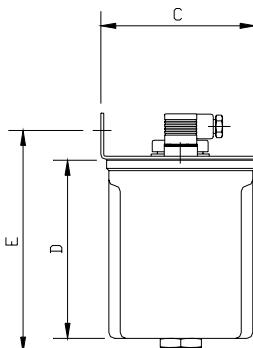
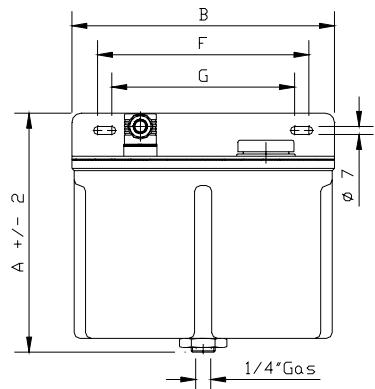
NATURAL 77 SERIES HAS EVEN THE PREROGATIVE TO REDUCE SMOKES, HAS LOW VOLATILITY WHICH REDUCES NOTEWORTHY STEAM REDUCTION, SUCH AN EXCELLENT CHEMICAL STABILITY TO AVOID POLYMERISATION OR DEGRADATION OF THE USING PRODUCT; LAST, BUT NOT THE LEAST, NATURAL 77 HAS THE CHARACTERISTIC OF AUTO EXTINGUISHING IMMEDIATELY AT THE ARISING OF A FIRE TRIGGER.

NATURAL 77 IS A NEAT FLUID WITH COMPLEX ADDITIVATION, WITH VERY HIGH ANTI-WELDING POWER AND CONSPICUOUS EXTREME PRESSURE RESISTANCE, AND, USED WITH TOOLS OR CERAMIC METAL INSERTS, IT ALLOWS TO DOUBLE THE FEED SPEED IN COMPARISON WITH THE USUAL PARAMETERS OF USAGE. THE USE OF NATURAL 77 AVOIDS SMOKES THAT WOULD DEVELOP WITH TRADITIONAL OILS DURING THE INCREASING FEED SPEEDS MENTIONED ABOVE. FURTHERMORE, NATURAL 77 IS SUITABLE TO BE USED ON GEAR-CUTTING MACHINES USING BOTH CUTTING SYSTEMS SUCH AS "GLEASON" AND SLOTTING MACHINE SUCH AS "FELLOWS". NATURAL 77 IS ALSO WHOLLY FREE OF CHLORINE AND ITS DERIVATIVES.

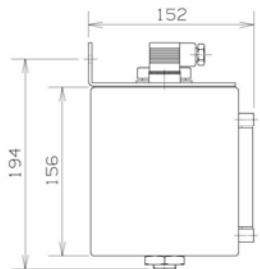
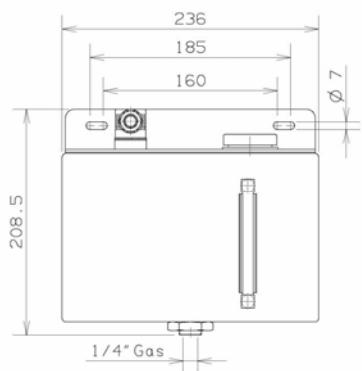
PRODUCT	SPECIFIC GRAVITY AT 15 °C KG/L	VISCOSITY cSt A 40 °C	FLASH POINT °C
NATURAL 77	0.928	68	290
CODE	DESCRIPTION	Q.TY	
30.600.6	5 L VEGETABLE OIL NATURAL 77	1	



**COMPONENTS
RESERVOIRS**



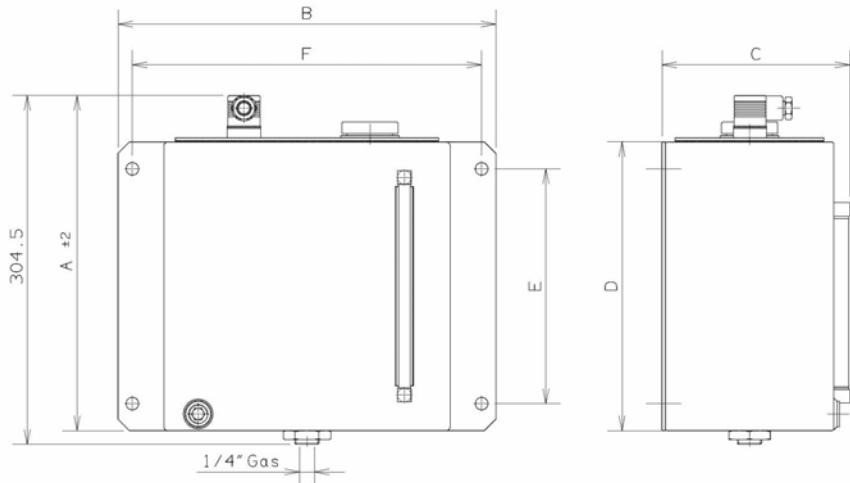
CODE	CAPACITY - L	LOW LEVEL SWITCH	A MM	B MM	C MM	D MM	E MM	F MM	G MM
A72.079263	1.2 Polyester		161	148	123	108	146	132	125
A72.079264	2.2 Polyester		213	148	123	160	198	132	125
A72.079265	3.6 Polyester		208	230	135	155	193	185	160
A72.079269	6.0 Nylon		303	230	135	250	288	185	160
A72.079260	1.2 Polyester	***	161	148	123	108	146	132	125
A72.079261	2.2 Polyester	***	213	148	123	160	198	132	125
A72.079262	3.6 Polyester	***	208	230	135	155	193	185	160
A72.079268	6.0 Nylon	***	303	230	135	250	288	185	160



CODE	CAPACITY - L	LOW LEVEL SWITCH
A72.079399	3.6 Metallic	***
A72.079399.SL	3.6 Metallic	***



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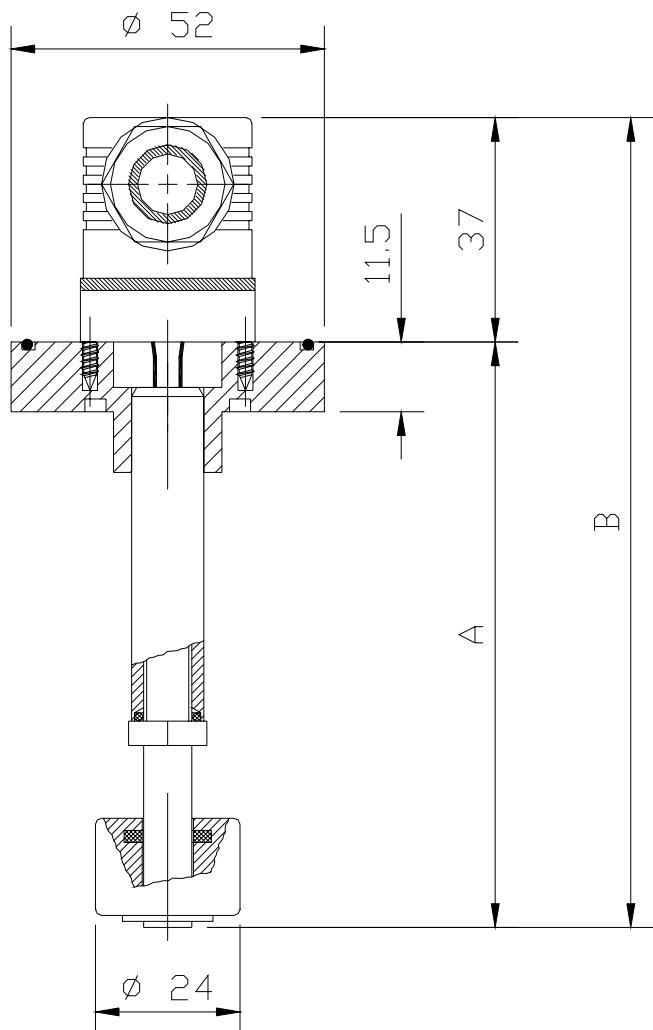
CODE	CAPACITY - L	LOW LEVEL SWITCH	A MM	B MM	C MM	D MM	E MM	F MM
A72.079415	8.0 <i>Metallic</i>	***	305	330	163	252	205	305
A72.079324	12.0 <i>Metallic</i>	***	305	355	196	252	205	330
A72.079420	50.0 <i>Metallic</i>	***	452	560	266	400	300	530
A72.079415.SL	8.0 <i>Metallic</i>		282	330	163	252	205	305
A72.079324.SL	12.0 <i>Metallic</i>		282	355	196	252	205	330
A72.079420.SL	50.0 <i>Metallic</i>		429	560	266	400	300	530



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COMPONENTS

LOW LEVEL SWITCHES



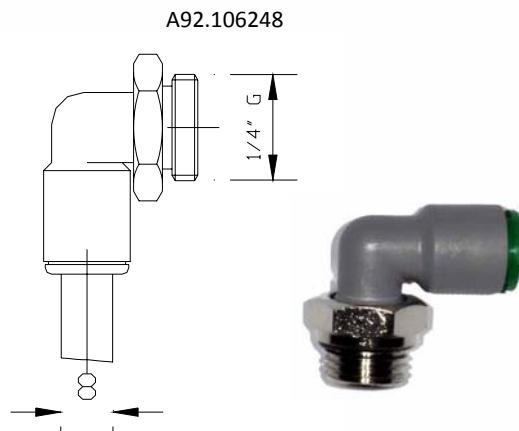
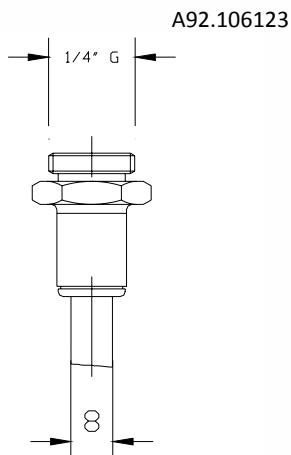
CODE	RESERVOIR L	A MM	B MM
A70.094040	1.20	97	133.5
A70.094029	2.20	144	181
A70.094029	3.60	144	181
A70.094037	6.00	240	277



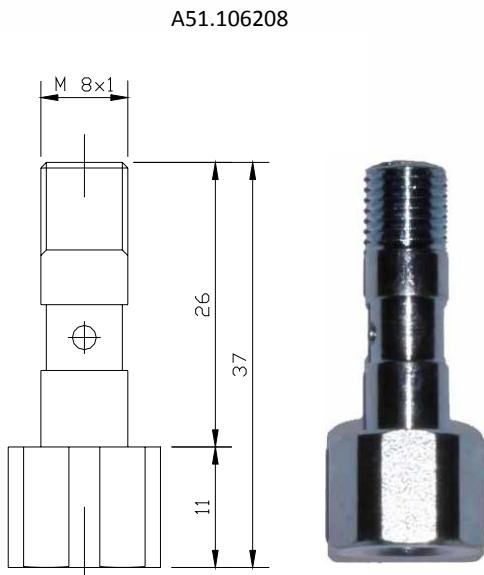
COMPONENTS

**PUSH-IN FITTINGS TO CONNECT RESERVOIR OUTLET TO AN 8
MM TUBE**

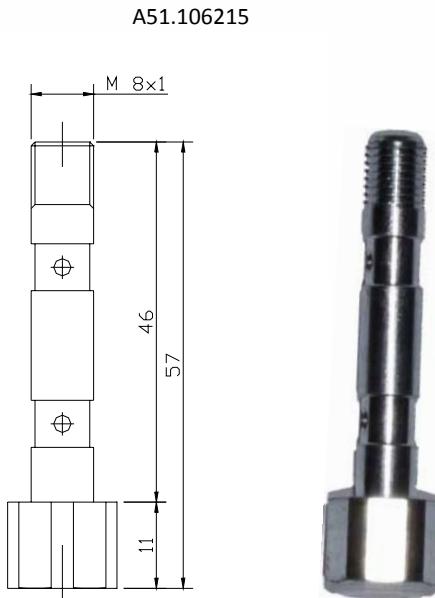
**RACCORDO A 90 GRADI
ELBOW FITTING**



ADAPTORS FOR MINI LUBETOOLS WITH ONE PUMP



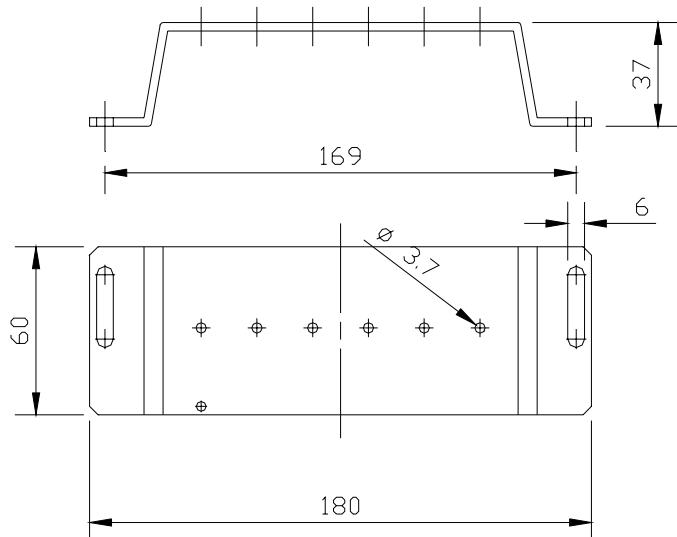
ADAPTORS FOR MINI LUBETOOLS WITH TWO PUMPS



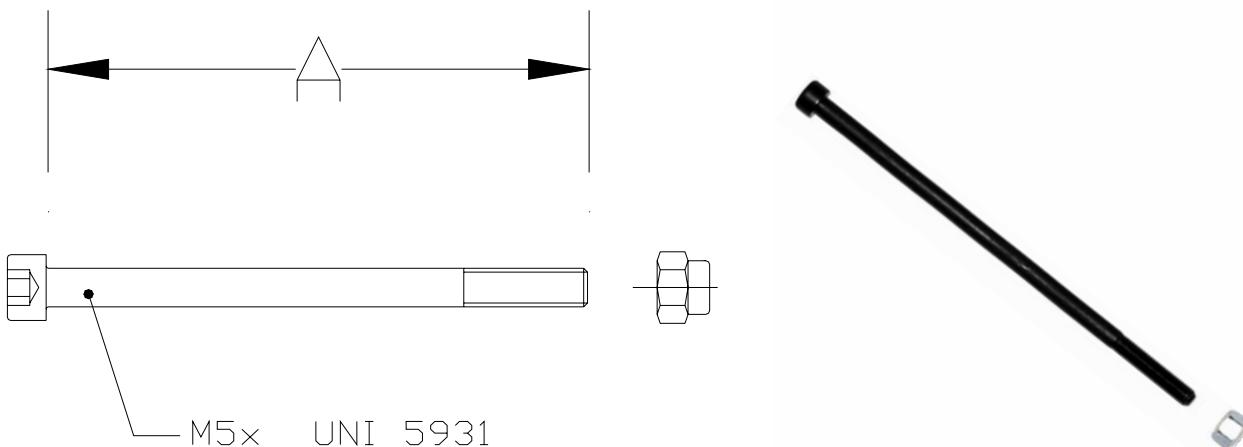
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BRACKET TO INSTALL THE BASE PUMPS (FROM 1 TO 6 PUMPS)

A85.120401



TIE-RODS TO JOIN THE PUMP BASES



CODE	OUTLETS	A
A70.093167 (x2)	2	35
A70.093168 (x2)	3	55
A70.093169 (x2)	4	75
A70.093170 (x2)	5	95
A70.093171 (x2)	6	115



PUMP BASE
THE CODE A70.093165 IS COMPLETE OF ALL THE ITEMS
SHOWED IN THE BELOW DRAWING

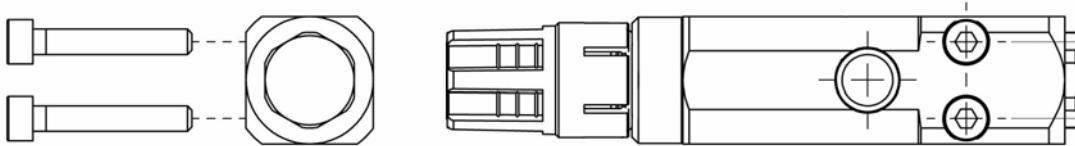
A70.093165



POS.	CODE	DESCRIPTION
1	A92.127109	"O"-RING 11x1
2	A51.096055	PLUG
3	A73.087010	PLUG
4	A92.127108	"O"-RING 2018
5	03.231.0	ELBOW ADAPTOR
6	A92.127106	"O"-RING 2010
7	A92.127109	"O"-RING 2037
8	UNI5931-M5X25	SCREW M5x25 UNI 5931
9	A83.082081	SINGLE BASE
10	A70.093219	DELIVERY FITTING + 5 M COAXIAL TUBE – 6 MM
11	A70.093228	DELIVERY FITTING + 5 M COAXIAL TUBE – 8 MM

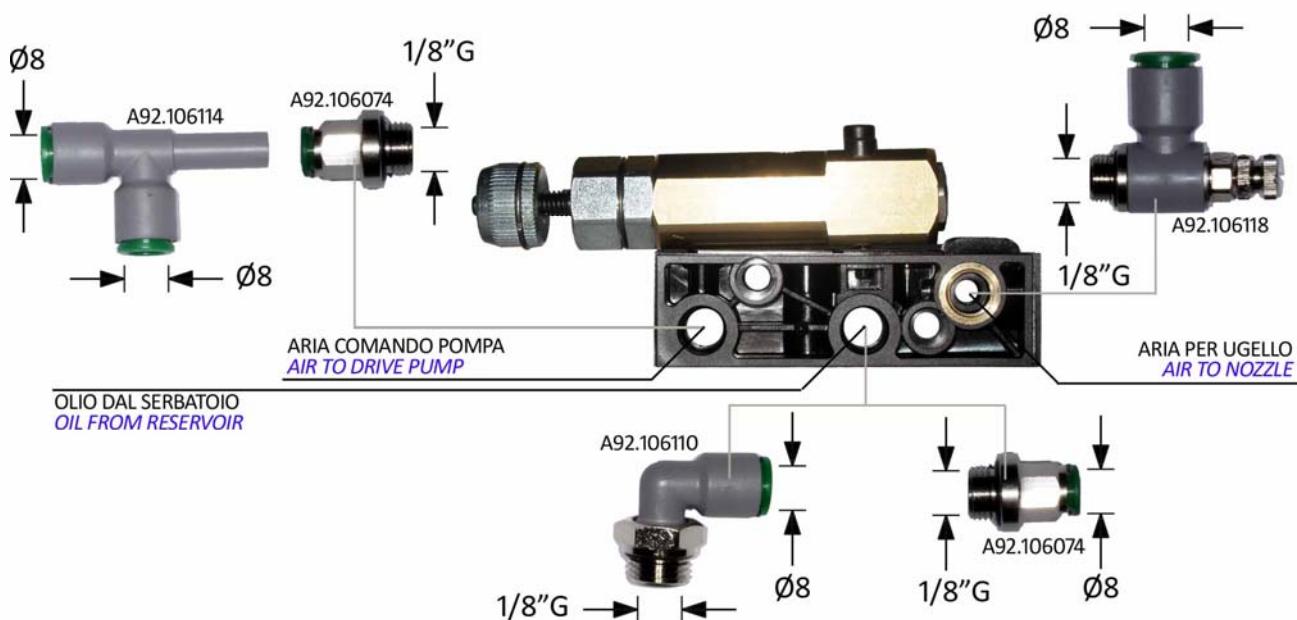
MICRO PNEUMATIC PUMP TO BE INSTALLED ON THE BASE

A70.093463



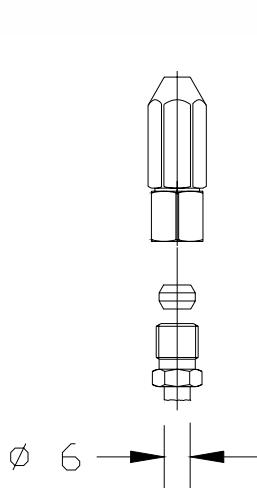
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FITTINGS FOR PUMP BASE

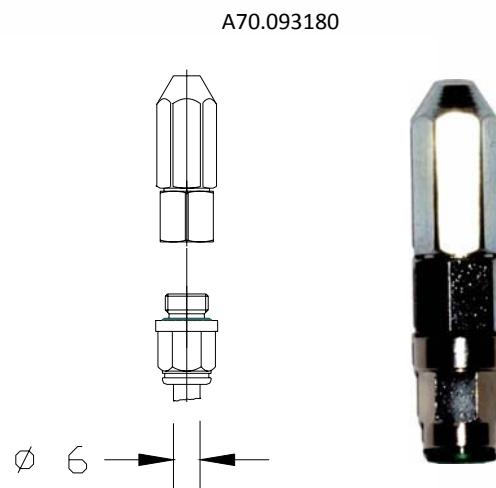


NOZZLE COMPLETE OF FITTING FOR TUBE 6 MM

NUT AND OLIVE FITTING



PUSH-IN FITTING

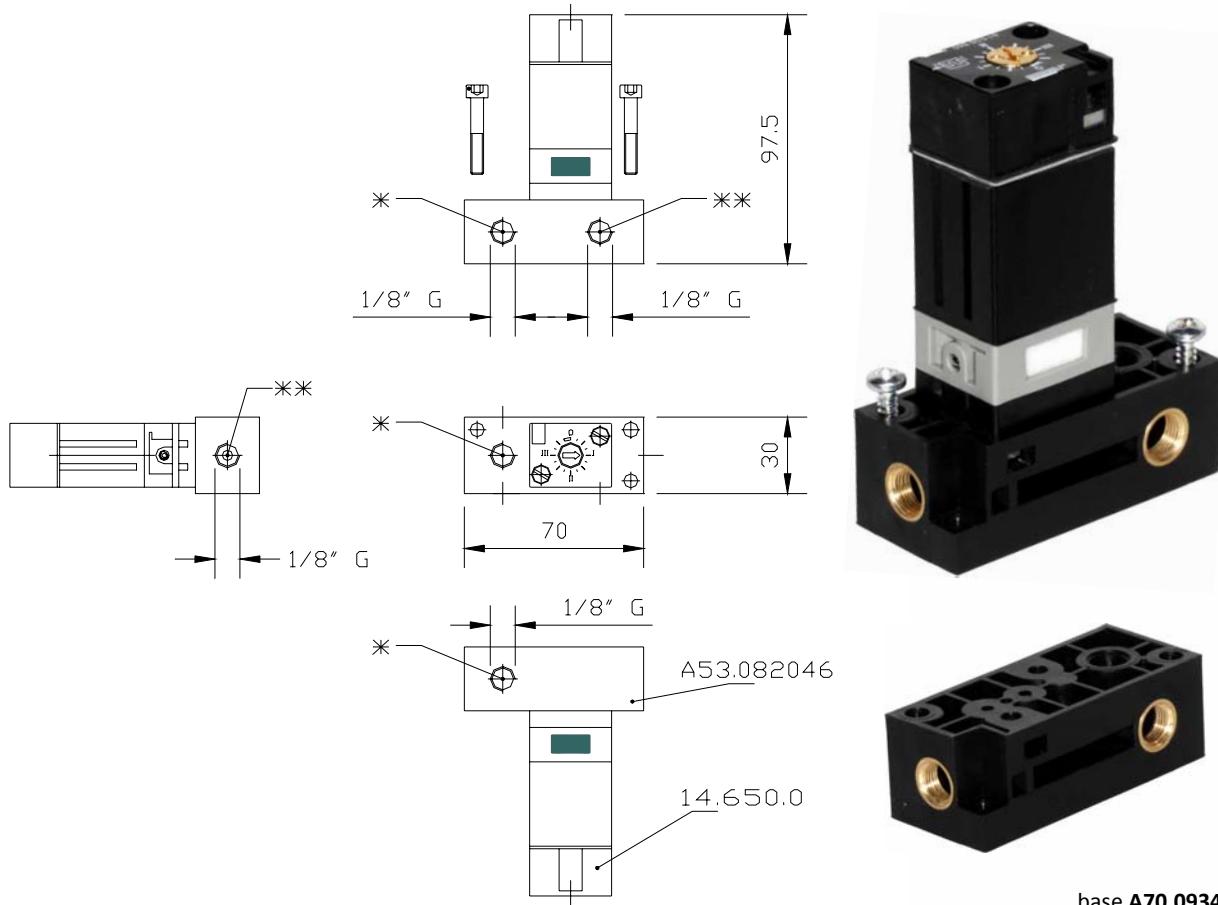


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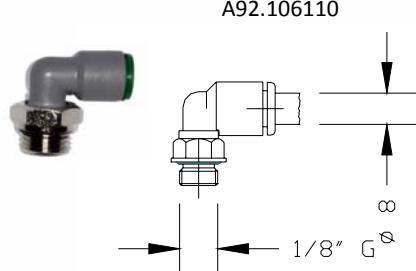
FREQUENCY GENERATOR COMPLETE OF BASE

A72.079243

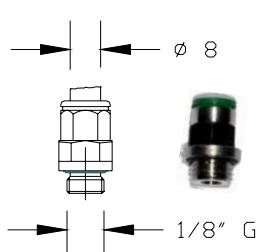
**	AIR FOR PNEUMATIC PUMPS
*	AIR FOR NOZZLE



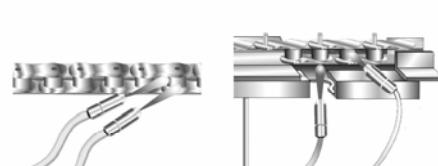
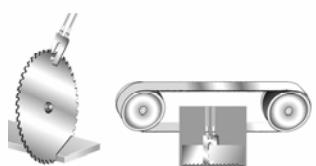
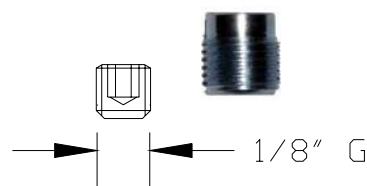
RACCORDI BASE E TAPPO



A92.106074



A92.087058

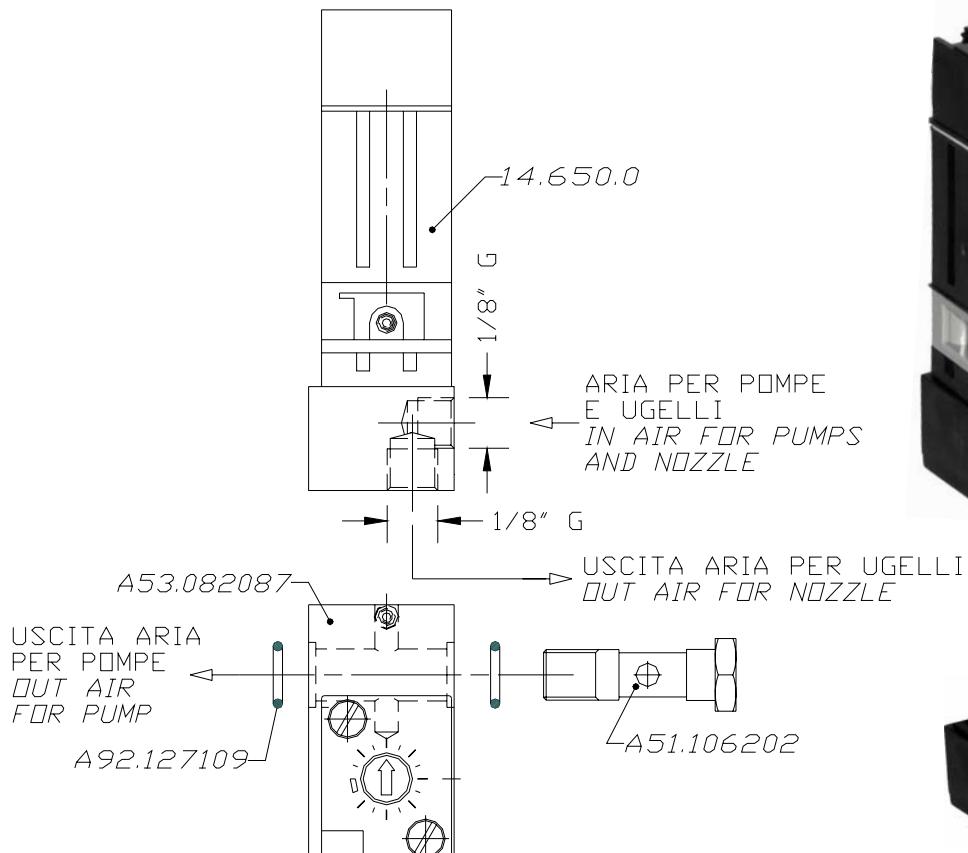


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FREQUENCY GENERATOR COMPLETE OF BASE

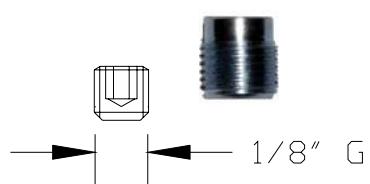
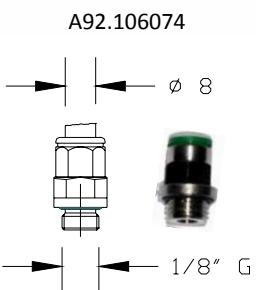
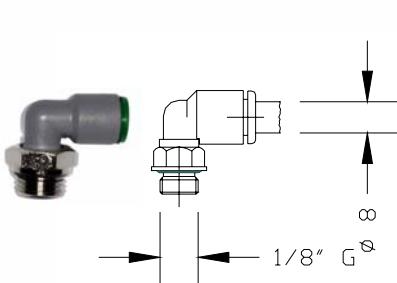
THIS IS USED FOR THE MINI VERSION WITH ONE OR TWO PUMPS

A72.079321



base A70.093504

BASE FITTINGS AND PLUG



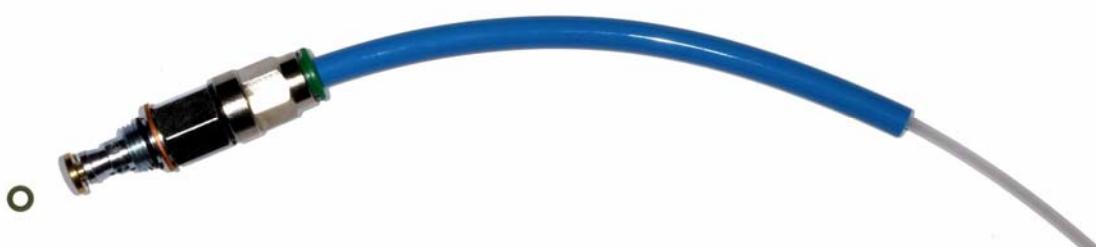
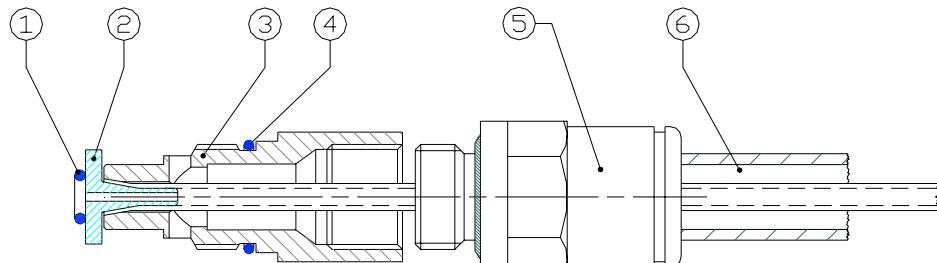
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SOLENOID VALVES

<i>Code</i>	<i>Description</i>	<i>Image</i>
14.660.0	<p>Solenoid valve Connection: 1/4" G Orifice size (mm): 6 Discharge (NL/min): 620 Max Pressure (BAR): 10</p> <p>14.660.1 14.660.2 14.660.3 14.660.4</p> <p><i>Coil 24 V DC Coil 115 V AC Coil 230 V AC Coil 24 V AC</i></p>	
14.663.5	<p>Solenoid valve Connection: 1/8" G Orifice size (mm): 1,5 Discharge (NL/min): 60 Max Pressure (BAR): 10</p> <p>14.660.1 14.660.2 14.660.3 14.660.4</p> <p><i>Coil 24 V DC Coil 115 V AC Coil 230 V AC Coil 24 V AC</i></p>	
14.662.5	<p>Solenoid valve Connection: 3/8" G Orifice size (mm): 10 Discharge (NL/min): 1500 Max Pressure (BAR): 10</p> <p>14.662.1 14.662.2 14.662.3 14.662.4</p> <p><i>Coil 24 V DC Coil 115 V AC Coil 230 V AC Coil 24 V AC</i></p>	



**COAXIAL HOSES COMPLETE OF FITTING, ADAPTOR AND
NOZZLE FOR THE PUMP BASE**



CODES TO ORDER

Mt	Ø6	Ø8	Ø10
1,5	A70.093458	---	---
3	A70.093453	---	---
4	A70.093438	---	---
5	A70.093219	A70.093228	A70.093475
6	A70.093253	A70.093257	---
7	A70.093254	A70.093258	---
8	A70.093255	A70.093259	---
9	A70.093256	A70.093260	---
10	A70.093250	A70.093249	A70.093476
15	A70.093412	A70.093418	A70.093477
20	---	A70.093469	A70.093478
25	---	---	A70.093479
30	---	A70.093470	A70.093471



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POS	DESCRIPTION	CODICE - CODE
1	O"-RING 3x1	A92.127034
2	NOZZE FOR PUMP BASE	A52.090051
3	ADAPTOR	A51.106104
4	"O"-RING 8x1	A73.127065
5	PUSH-IN FITTING	*
6	COAXIAL HOSE	**

	DESCRIPTION	CODE
*	PUSH-IN FITTING 1/8" HOSE 6 MM	A92.106113
*	PUSH-IN FITTING 1/8" HOSE 8 MM	A92.106074
*	PUSH-IN FITTING 1/4" HOSE 10 MM	03.214.0 + A92.106191

Mt	**		
	Ø6	Ø8	Ø10
1	70.150.1	70.160.1	70.170.1
2	70.150.2	70.160.2	70.170.2
3	70.150.3	70.160.3	70.170.3
4	70.150.4	70.160.4	70.170.4
5	70.150.5	70.160.5	70.170.5
6	70.150.6	70.160.6	70.170.6
7	70.150.7	70.160.7	70.170.7
8	70.150.8	70.160.8	70.170.8
9	70.150.9	70.160.9	70.170.9
10	70.151.0	70.161.0	70.171.0
11	70.151.1	70.161.1	70.171.1
12	70.151.2	70.161.2	70.171.2
13	70.151.3	70.161.3	70.171.3
14	70.151.4	70.161.4	70.171.4
15	70.151.5	70.161.5	70.171.5
16	70.151.6	70.161.6	70.171.6
17	70.151.7	70.161.7	70.171.7
18	70.151.8	70.161.8	70.171.8
19	70.151.9	70.161.9	70.171.9
20	70.152.0	70.162.0	70.172.0
21	70.152.1	70.162.1	70.172.1
22	70.152.2	70.162.2	70.172.2
23	70.152.3	70.162.3	70.172.3
24	70.152.4	70.162.4	70.172.4
25	70.152.5	70.162.5	70.172.5
30	70.153.0	70.163.0	70.173.0

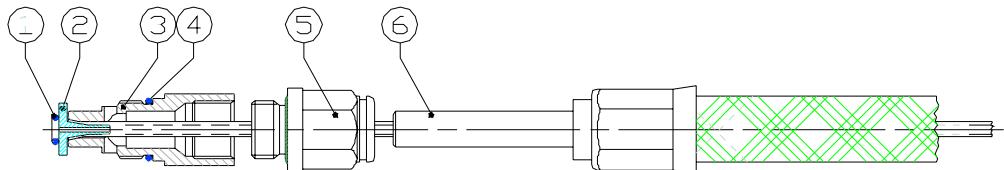


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**METALLIC COAXIAL HOSES COMPLETE OF FITTING, ADAPTOR
AND NOZZLE FOR THE PUMP BASE**



CODES TO ORDER	DESCRIPTION
A70.093351	1 M COAXIAL HOSE TERMINAL 8 MM COMPLETE OF FITTING, ADAPTOR AND NOZZLE FOR THE PUMP BASE
A70.093352	2 M COAXIAL HOSE TERMINAL 8 MM COMPLETE OF FITTING, ADAPTOR AND NOZZLE FOR THE PUMP BASE
A70.093353	3 M COAXIAL HOSE TERMINAL 8 MM COMPLETE OF FITTING, ADAPTOR AND NOZZLE FOR THE PUMP BASE
A70.093354	4 M COAXIAL HOSE TERMINAL 8 MM COMPLETE OF FITTING, ADAPTOR AND NOZZLE FOR THE PUMP BASE
A70.093355	5 M COAXIAL HOSE TERMINAL 8 MM COMPLETE OF FITTING, ADAPTOR AND NOZZLE FOR THE PUMP BASE
A70.093356	6 M COAXIAL HOSE TERMINAL 8 MM COMPLETE OF FITTING, ADAPTOR AND NOZZLE FOR THE PUMP BASE
A70.093357	7 M COAXIAL HOSE TERMINAL 8 MM COMPLETE OF FITTING, ADAPTOR AND NOZZLE FOR THE PUMP BASE
A70.093358	8 M COAXIAL HOSE TERMINAL 8 MM COMPLETE OF FITTING, ADAPTOR AND NOZZLE FOR THE PUMP BASE
A70.093359	9 M COAXIAL HOSE TERMINAL 8 MM COMPLETE OF FITTING, ADAPTOR AND NOZZLE FOR THE PUMP BASE
A70.093360	10 M COAXIAL HOSE TERMINAL 8 MM COMPLETE OF FITTING, ADAPTOR AND NOZZLE FOR THE PUMP BASE



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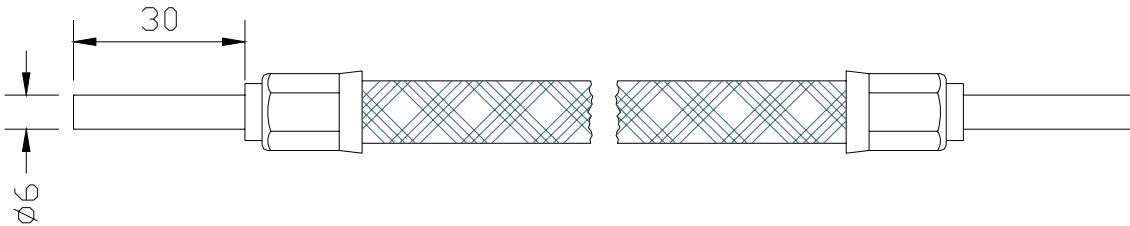
A70.093341	1 M COAXIAL HOSE TERMINAL 6 MM COMPLETE OF FITTING, ADAPTOR AND NOZZLE FOR THE PUMP BASE
A70.093342	2 M COAXIAL HOSE TERMINAL 6 MM COMPLETE OF FITTING, ADAPTOR AND NOZZLE FOR THE PUMP BASE
A70.093343	3 M COAXIAL HOSE TERMINAL 6 MM COMPLETE OF FITTING, ADAPTOR AND NOZZLE FOR THE PUMP BASE
A70.093344	4 M COAXIAL HOSE TERMINAL 6 MM COMPLETE OF FITTING, ADAPTOR AND NOZZLE FOR THE PUMP BASE
A70.093345	5 M COAXIAL HOSE TERMINAL 6 MM COMPLETE OF FITTING, ADAPTOR AND NOZZLE FOR THE PUMP BASE
A70.093346	6 M COAXIAL HOSE TERMINAL 6 MM COMPLETE OF FITTING, ADAPTOR AND NOZZLE FOR THE PUMP BASE
A70.093347	7 M COAXIAL HOSE TERMINAL 6 MM COMPLETE OF FITTING, ADAPTOR AND NOZZLE FOR THE PUMP BASE
A70.093348	8 M COAXIAL HOSE TERMINAL 6 MM COMPLETE OF FITTING, ADAPTOR AND NOZZLE FOR THE PUMP BASE
A70.093349	9 M COAXIAL HOSE TERMINAL 6 MM COMPLETE OF FITTING, ADAPTOR AND NOZZLE FOR THE PUMP BASE
A70.093350	10 M COAXIAL HOSE TERMINAL 6 MM COMPLETE OF FITTING, ADAPTOR AND NOZZLE FOR THE PUMP BASE

POS	DESCRIPTION	CODICE - CODE
1	O"-RING 3x1	A92.127034
2	NOZZLE FOR PUMP BASE	A52.090051
3	ADAPTOR	A51.106104
4	"O"-RING 8x1	A73.127065
5	PUSH-IN FITTING	*
6	COAXIAL HOSE	*

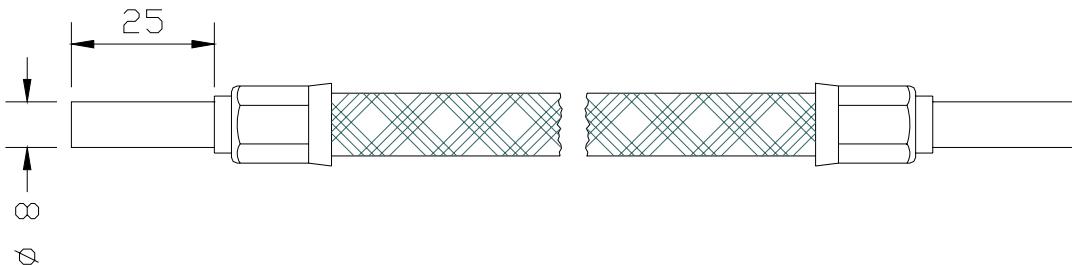
	DESCRIPTION	CODICE - CODE
*	PUSH-IN FITTING 1/8" HOSE 8 MM	A92.106074
*	PUSH-IN FITTING 1/8" HOSE 6 MM	A92.106113



METALLIC FLEXIBLE HOSES



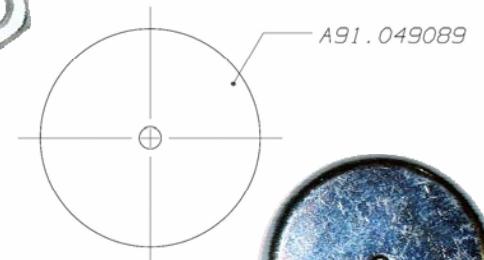
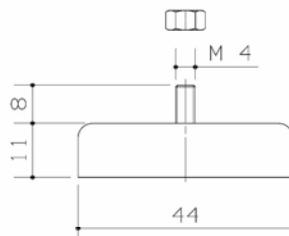
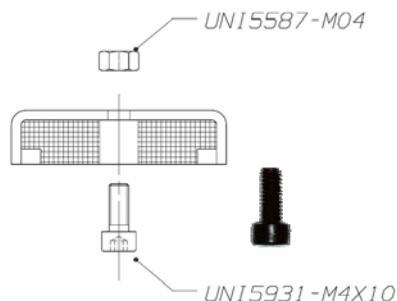
**	CODES TO ORDER METALLIC FLEXIBLE HOSES
30.616.0.01000	1 M METALLIC HOSE 6 MM
30.616.0.02000	2 M METALLIC HOSE 6 MM
30.616.0.03000	3 M METALLIC HOSE 6 MM
30.616.0.04000	4 M METALLIC HOSE 6 MM
30.616.0.05000	5 M METALLIC HOSE 6 MM
30.616.0.06000	6 M METALLIC HOSE 6 MM
30.616.0.07000	7 M METALLIC HOSE 6 MM
30.616.0.08000	8 M METALLIC HOSE 6 MM
30.616.0.09000	9 M METALLIC HOSE 6 MM
30.616.0.10000	10 M METALLIC HOSE 6 MM



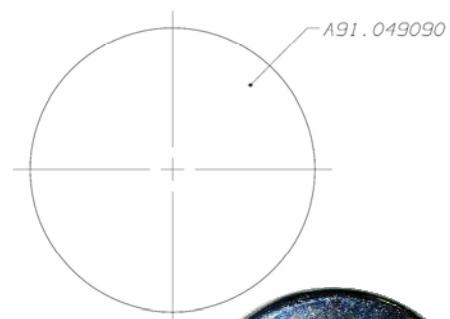
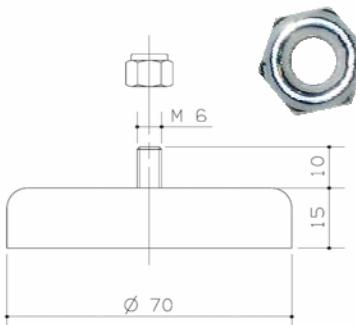
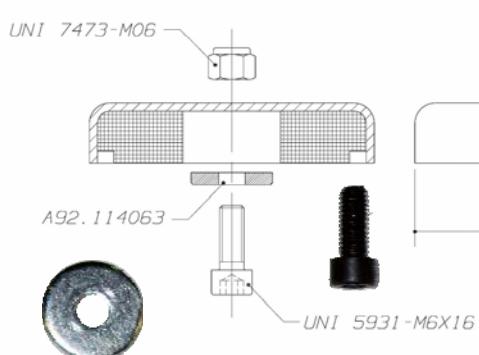
**	CODES TO ORDER METALLIC FLEXIBLE HOSES
30.618.0.01000	1 M METALLIC HOSE 8 MM
30.618.0.02000	2 M METALLIC HOSE 8 MM
30.618.0.03000	3 M METALLIC HOSE 8 MM
30.618.0.04000	4 M METALLIC HOSE 8 MM
30.618.0.05000	5 M METALLIC HOSE 8 MM
30.618.0.06000	6 M METALLIC HOSE 8 MM
30.618.0.07000	7 M METALLIC HOSE 8 MM
30.618.0.08000	8 M METALLIC HOSE 8 MM
30.618.0.09000	9 M METALLIC HOSE 8 MM
30.618.0.10000	10 M METALLIC HOSE 8 MM



MAGNETS



A70.093498



A70.093499



FITTINGS

		HOSE	4 MM	HOSE	6 MM	HOSE	8 MM	HOSE	10 MM
	1/8" G		A92.106165		A92.106113		A92.106074		
	1/8" G		A92.106218		A92.106195		A92.106110		
	1 / 4" G				A92.106133		A92.106123		A92.106191
	1 / 4" G				A92.106224		A92.106248		A92.106199



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