

EQUIPMENT FOR TOOL LUBRICATION AND REFRIGERATION DURING THE FOLLOWING PROCESSES

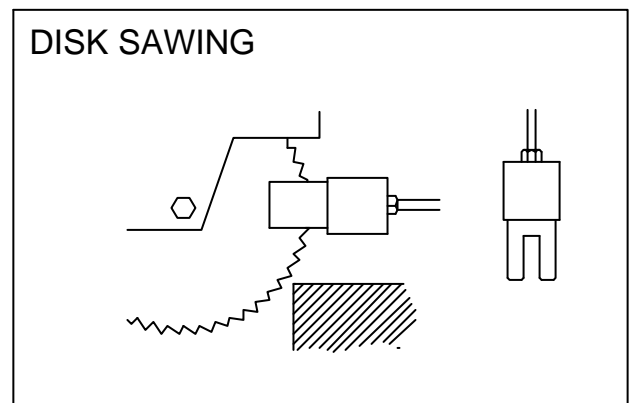
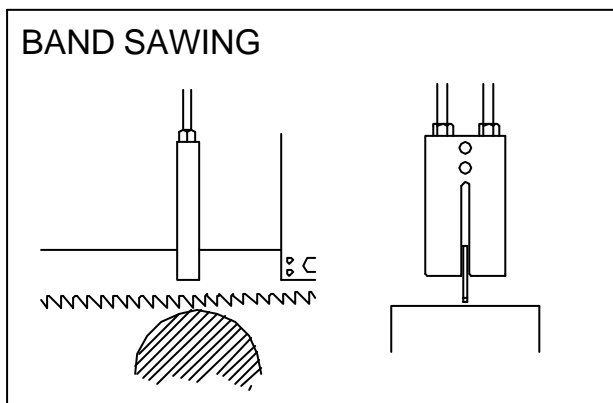
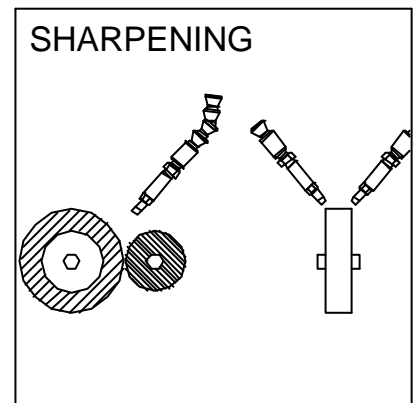
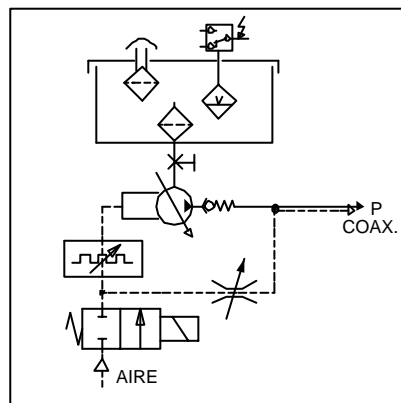
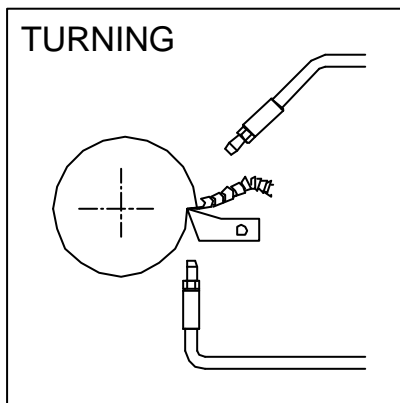
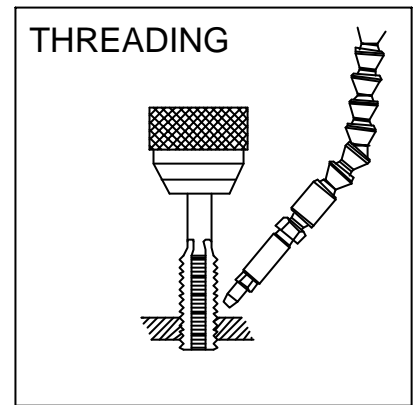
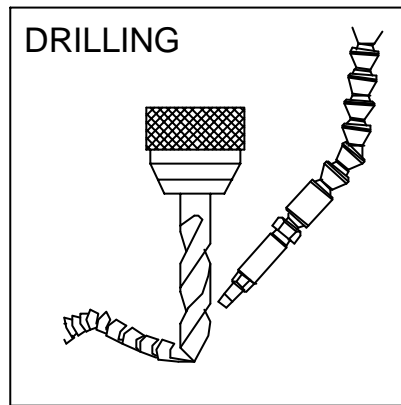
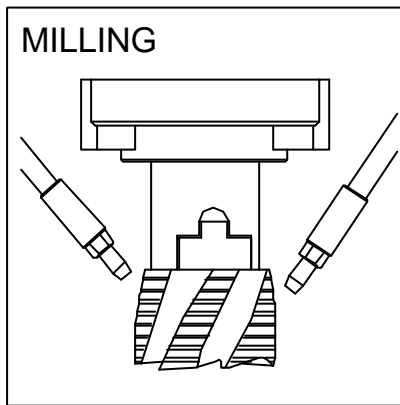
CUTTING

CHIPPING

COLD ESTAMPING

ONLY FOR APPLICATION WITH LUBRICANT LIQUIDS

"MQLC" SYSTEM FOR PROJECTION WITH ASSISTANCE OF AIR, ASSURING A BLOWING AND A COALING EFFECT. IT DOESN'T POLLUTE.



01/2007

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PNEUMATIC PISTON PUMP FOR MQLC APPLICATION (MINIMAL QUANTITY LUBRICANT COOLING)

PN01/E1
210.500.000

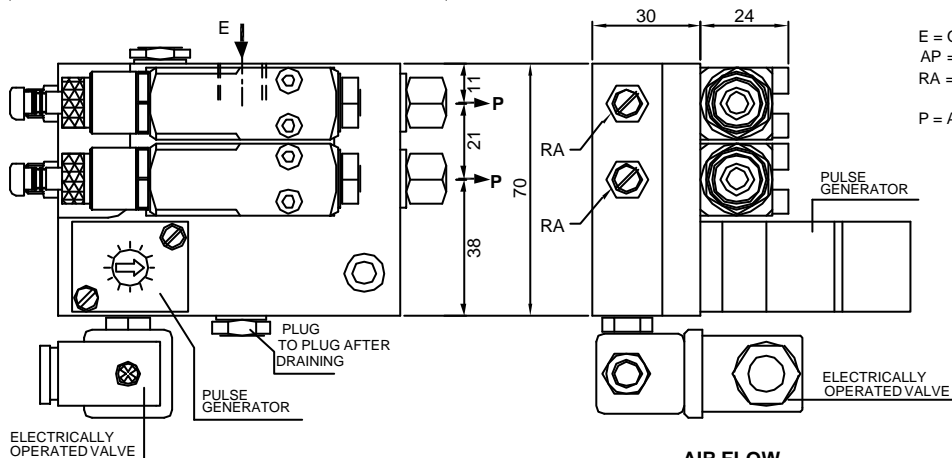
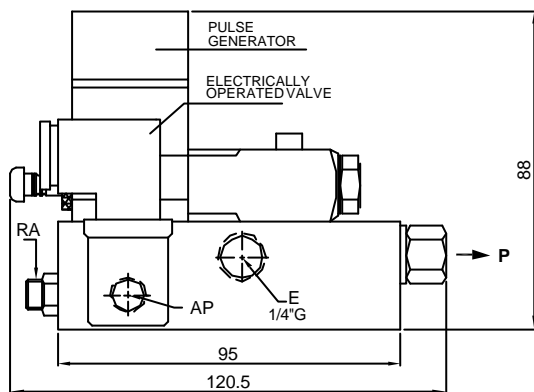
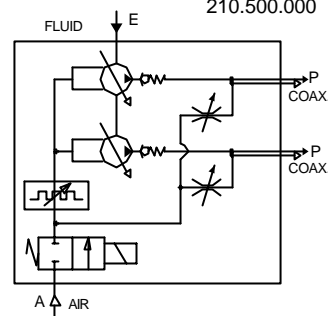
DOSING ELEMENT OF VARIABLE CAPACITY MOUNTED ON A BASE PLATE, WHERE PREVIOUSLY ARE MECHANIZED THE OIL AND AIR FEEDING CONDUITS AS WELL AS THE OUTLETS (OIL AND AIR SEPARATELY IN THE COAXIAL PIPE).

INLETS TO THE BASE PLATE:

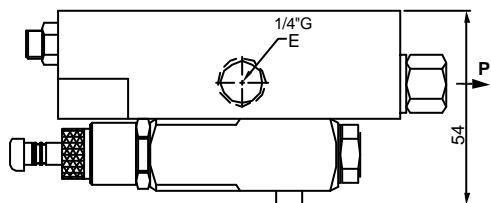
- OIL INLET BY GRAVITY FROM A RESERVOIR MOUNTED AT A HIGHER LEVEL
- AIR INLET BRANCHING OFF INSIDE:
 - BY MEANS OF THE VARIABLE FREQUENCY GENERATOR TO THE DOSERS
 - TO THE INDIVIDUAL AIR FLOW REGULATORS BY OUTLET

THE FINAL OIL AND AIR OUTLET HAS TO BE MADE SEPARATELY THROUGH THE COAXIAL PIPE UP TO THE SPRAY NOZZLE.

THE VOLTAGE SERVICE HAS TO BE CARRIED OUT DIRECTLY FROM THE ELECTRICALLY OPERATED VALVE (CONNECTING UP FOR THE SYSTEM RUNNING AND DISCONNECTING FOR THE STANDSTILL). ITS FEEDING AND AUTOMATISM HAVE TO BE MADE BY THE MACHINE CONTROL.

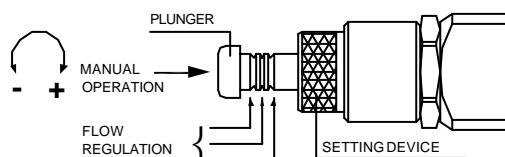


E = OIL INLET
AP = AIR INLET
RA = AIR FLOW REGULATOR
AT THE OUTLETS
P = AIR-OIL OUTLET



LUBRICANT FLOW

IS REGULATED BY MEANS OF THE SETTING VERNIER TURNING TO THE LEFT IN ORDER TO OBTAIN LESS FLOW, AND TO THE RIGHT TO OBTAIN MORE. THE SLOTS WITH COLOURS INDICATE THE REGULATION OF SETTING.



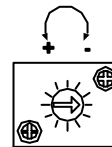
THE PLUNGER MOVEMENT ALLOWS A VISUAL MONITORING BY CYCLE AND CAN BE OPERATED MANUALLY IN ORDER TO INCREASE THE LUBRICATION FREQUENCY, OR DURING THE INITIAL STARTING PERIOD OR AFTER LONGER STANDSTILLS...

AIR FLOW

THE AIR FLOW IS REGULATED INDIVIDUALLY FOR EVERY OUTLET, MANIPULATING THE STRANGLER SCREW PLACED ON THE LEFT OF THE BASE PLATE: LOOSEN THE LOCKNUT AND TURN THE SCREW.

PULSE FREQUENCY

THE SETTING OF THE LUBRICATION FREQUENCY TAKES PLACE TURNING THE SCREW OF THE DEVICE. ITS RANGE IS FROM 2 CYCLES/SECOND UP TO 2 CYCLES/MINUTE. TURNING CLOCKWISE= LESS PULSES
TURNING OPPOSITE SENSE= MORE PULSES



USE LUBRICANTS WITH A MAXIMUM VISCOSITY OF 700 cSt AT WORKING TEMPERATURE. NEVER USE LUBRICANTS WITH ADDITIVES WHICH CAN ALTER THE RUNNING.

IF NECESSARY, DRAIN THE SYSTEM, LOOSENING THE PLUG AT THE END OF THE LINE, MAKING THE PUMPS TO WORK AT THE MAXIMUM FLOW. ONCE DRAINED THE SYSTEM, REGULATE UNTIL OBTAINING THE DESIRED FLOW.

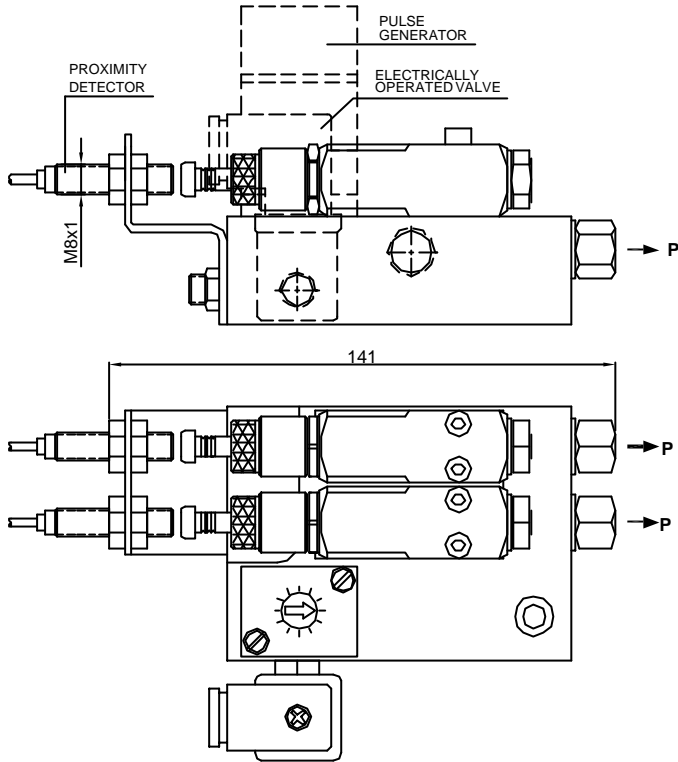
CARACTERÍSTICAS TÉCNICAS

LUBRICANT FLOW	3÷30 MM3/PULSE
.....	5÷50 MM3/PULSE
MAXIMUM PRESSURE LUBRICANT OUTLET	30 BAR
CONTROL AIR PRESSURE	4÷10 BAR
MAXIMUM NUMBER OF CYCLES/MINUTE	120
OPERATING TEMPERATURE	0°C÷80°C
OIL	MINERAL OR VEGETABLE WITHOUT ADDITIVES
VISCOSITY	6÷400 cSt at 40°C

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PUMPING DEVICE WITH ELECTRICAL MONITORING AND PROXIMITY DETECTOR

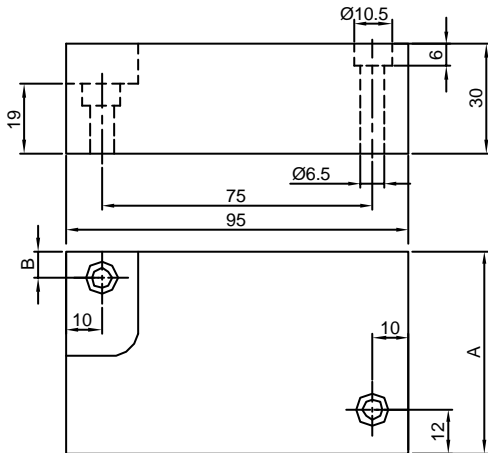
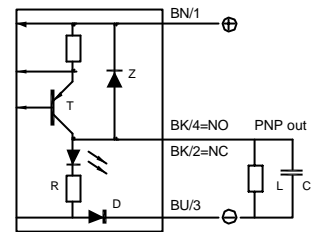
EVERY PLUNGER TRAVEL OF THE DOSER ACTIVATES THE PROXIMITY DETECTOR.

TECHNICAL DATA OF THE DETECTOR

Ref. 913.904.110

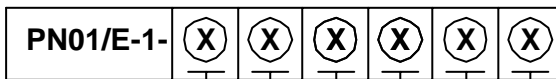
STATE OF THE OUTLET.....	NORMALLY OPEN (NO)
LOGIC.....	OUTLET PNP
VOLTAGE.....	10÷30 VDC
RIPPLE.....	≤10%
CONSUMPTION.....	20mA
WORKING LOAD.....	≤200mA
SWITCHING FREQUENCY.....	3KHz
INITIAL RESET.....	100ms
TEMPERATURE LIMITS.....	-25°C...+70°C
PROTECTION.....	IEC IP67
MATERIAL OF BODY.....	NICKEL PLATED BRASS
TIGHTENING TORQUE.....	4Nm

WIRING



DIMENSIONS FOR FIXING THE BASE PLATE

	NUMBER OF PUMPS					
	1	2	3	4	5	6
A	56	70	91	112	133	154
B	7'5	21'5	21'5	21'5	21'5	21'5



FLOW MM3/PUL.	OUTLETS NUMBER	ELECTRIC VALVE	PULSE GENERATOR	OPERATION CONTROL	PROXIMITY SWITCH
1 3 + 30	1	0 WITHOUT	1	0	0
	2	1 24VDC	WITHOUT	WITHOUT	WITHOUT
2 5 + 50	3	2 24V50Hz	5	6	1
	4	3 48VDC			
	5	4 48V50Hz			
	6	5 115V50Hz			
		6 230V50Hz			

ORDER EXAMPLE:
EQUIPMENT WITH TWO MICROPUMPS WITH ADJUSTABLE FLOW (3 +30 MM3/PULSES), WITH ELECTRICALLY OPERATED VALVE 24VCC, WITHOUT ELECTRICAL MONITORING (WITHOUT DETECTOR), AND WITH PULSE GENERATOR:

REF. **PN01/E1-121500**

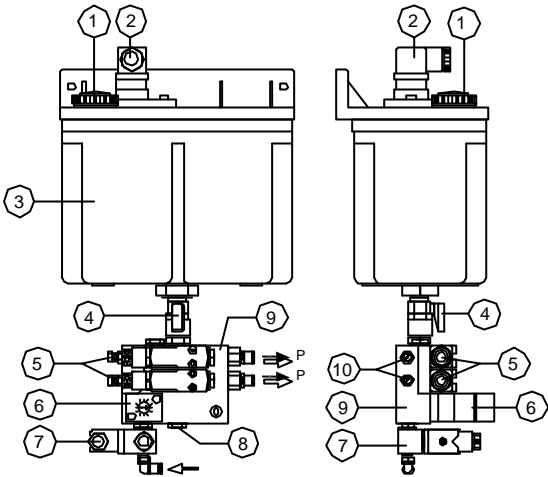
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-UNITS FROM 1 UP TO 6 PUMPS WITH RESERVOIR-

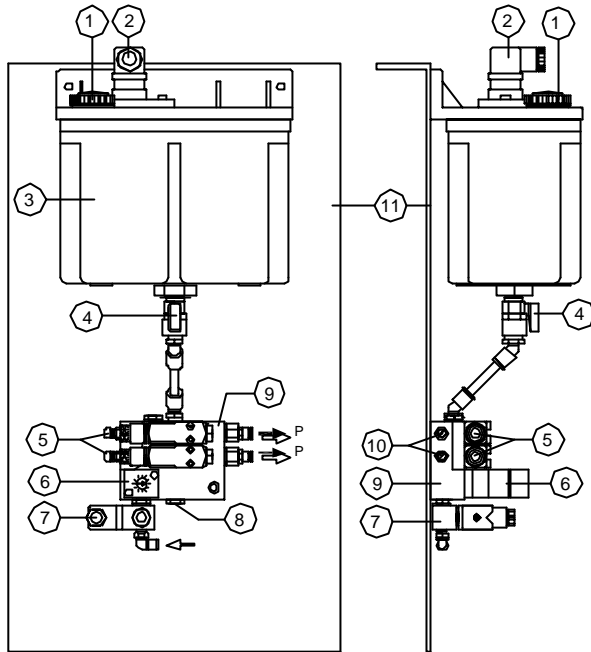
PN02/B2

PUMP UNIT WITH RESERVOIR SUPPORT



PN02/C1

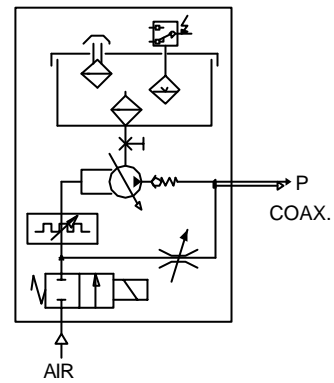
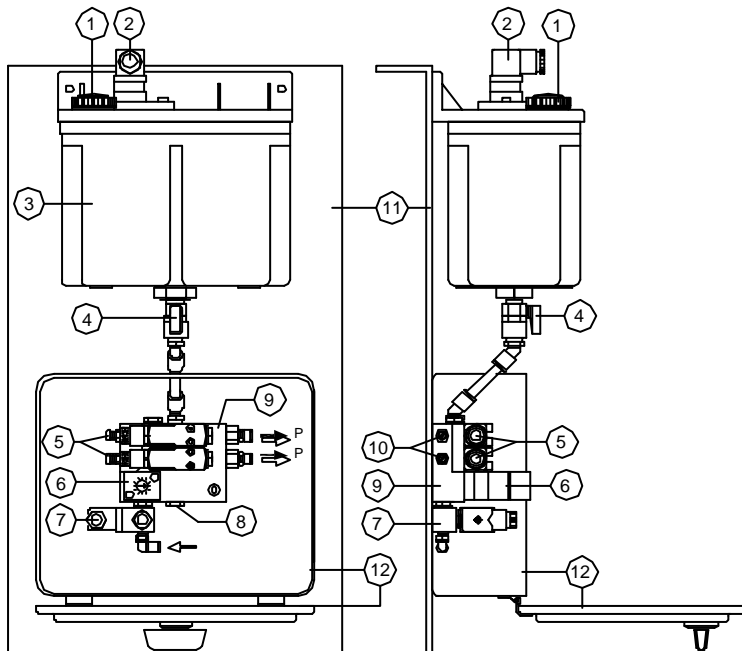
UNIT WITH RESERVOIR AND PUMPS MOUNTED ON A SUPPORT PLATE



- | | |
|----------------------------------|---------------------------------|
| 1 - PLUG FILLING FILTER | 7 - ELECTRICALLY OPERATED VALVE |
| 2 - ELECTRICAL LEVEL SWITCH | 8 - DRAIN PLUG |
| 3 - RESERVOIR | 9 - BASE PLATE |
| 4 - SHUT-OFF VALVE | 10 - REGULATION AIR OUTPUT |
| 5 - PUMPS WITH ADJUSTABLE OUTPUT | 11 - HOLDER PLATE |
| 6 - PULSE GENERATOR | 12 - PUMP CABINET |

PN02/D2

UNIT WITH RESERVOIR AND PUMPS PLACED WITHIN A CABINET, MOUNTED UPON A BASE PLATE



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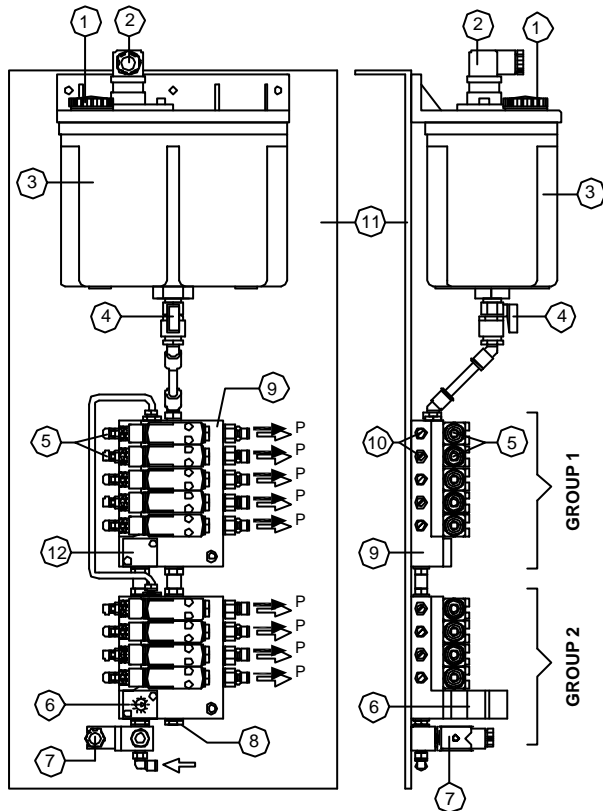
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-UNITS FROM 1 UP TO 6 PUMPS WITH RESERVOIR-

TYPE	HOLDER	RESERVOIR	ELECTR. LEVEL	INTAKE STRAINER	AGITATOR	FLOW MM3/PUL.	NUMB. OF OUTLETS	ELECTR. VALVE	PULSE GENERATOR	OPERATION CONTROL	PROXIMITY SWITCH
PN02/B-2 	0 WITHOUT 1 MAGNET	1 0'25L PLASTIC	0 WITHOUT	5 WITH	0 WITHOUT	1 3l 30 2 2l 50	1 1 2 2 3 3 4 4 5 5 6 6	0 WITHOUT 1 24VDC 2 24V 50HZ 3 48VDC 4 48V 50HZ 5 110V 50HZ 6 230V 50HZ	1 WITHOUT 2 WITH	0 WITHOUT 6 WITH	0 WITHOUT 1 WITH
PN02/B-2 	0 WITHOUT	0 WITHOUT 2 3L PLASTIC	0 WITHOUT 5 MINIMUM	0 WITHOUT 5 WITH	0 WITHOUT 5 WITH						
PN02/C-1 	0 WITHOUT METAL SHEET 1 "L" SHAPED METAL SHEET	3 6L PLASTIC 4 3L ALUMINIUM 5 6L METAL SHEET 6 10L METAL SHEET	5 MINIMUM 6 MAXIMUM-MINIMUM 7 MINIMUM + PREALARM								
PN02/D-2 	2 FLAT METAL SHEET										

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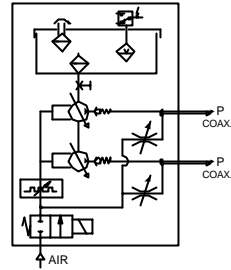
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PN02/C2

UNITS FROM 7 UP TO 12 PUMPS WITH RESERVOIR

- MOUNTED UPON TWO BASE PLATES
- WITH ONLY ONE CONTROL FOR ALL DOSERS

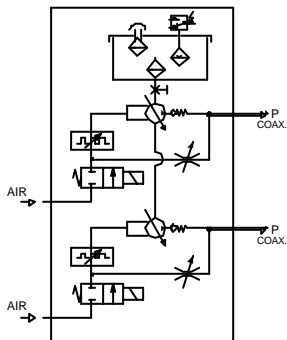


- 1 - PLUG FILLING FILTER
- 2 - ELECTRICAL LEVEL SWITCH
- 3 - RESERVOIR
- 4 - SHUT-OFF VALVE
- 5 - PUMPS WITH ADJUSTABLE OUTPUT
- 6 - PULSE GENERATOR
- 7 - ELECTRICALLY OPERATED VALVE
- 8 - DRAIN PLUG
- 9 - BASE PLATE
- 10 - REGULATION AIR OUTPUT
- 11 - HOLDER PLATE
- 12 - COVER PULSE GENERATOR

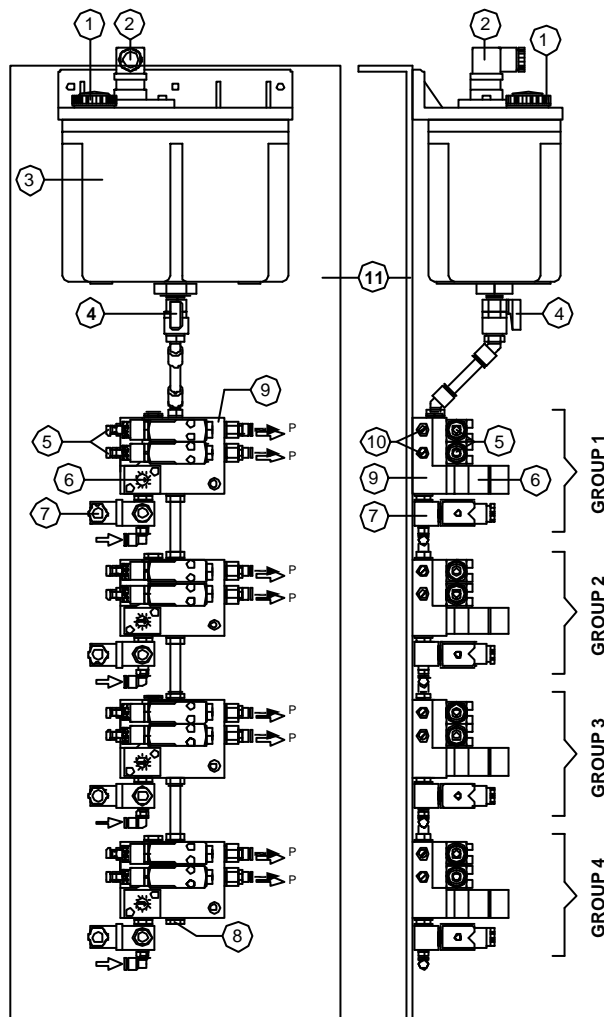
PN02/C3

UNITS WITH PUMP GROUPS

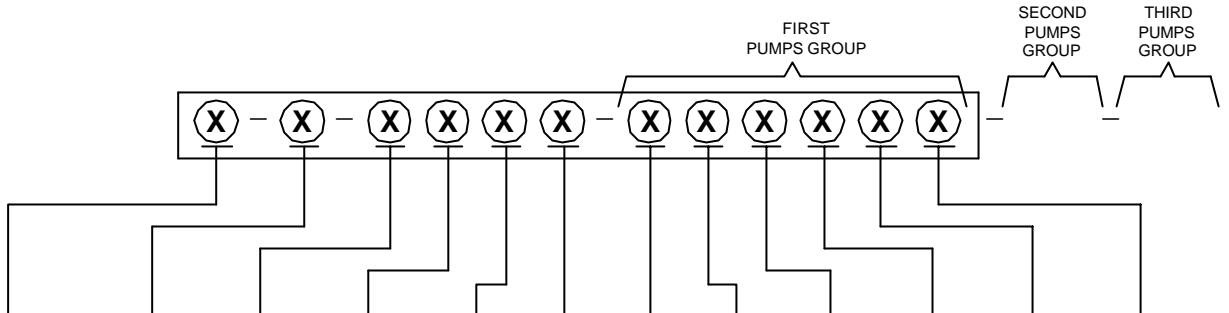
- BASE PLATES FROM 1 UP TO 6 PUMPS WITH INDEPENDENT CONTROL

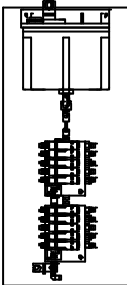
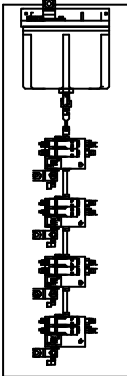


- 1 - PLUG FILLING FILTER
- 2 - ELECTRICAL LEVEL SWITCH
- 3 - RESERVOIR
- 4 - SHUT-OFF VALVE
- 5 - PUMPS WITH ADJUSTABLE OUTPUT
- 6 - PULSE GENERATOR
- 7 - ELECTRICALLY OPERATED VALVE
- 8 - DRAIN PLUG
- 9 - BASE PLATE
- 10 - REGULATION AIR OUTPUT
- 11 - HOLDER PLATE



-UNITS FROM 7 UP TO 12 PUMPS WITH RESERVOIR-
-PUMP GROUPS UNITS-



TYPE	HOLDER	RESERVOIR	ELECTR. LEVEL	INTAKE STRAINER	AGITATOR	FLOW MM3/PUL.	NUMB. OF OUTLETS	ELECTR. VALVE	PULSE GENERATOR	OPERATION CONTROL	PROXIMITY SWITCH
PN02/C-2  MAX. 12 PUMPS ON 2 BASE PLATES (REQUEST OTHER POSSIBILITIES)	0 WITHOUT METAL SHEET 1 "L" SHAPED METAL SHEET 2 FLAT METAL SHEET	0 WITHOUT 2 3L PLASTIC 3 6L PLASTIC 4 3L ALUMINIUM 5 6L METAL SHEET 6 10L METAL SHEET	0 WITHOUT 5 MINIMUM 6 MAXIMUM-MINIMUM 7 MINIMUM + PREALARM	0 WITHOUT 5 WITH	0 WITHOUT 5 WITH	1 3l 30 2 2l 50	1 1 2 2 3 3 4 4 5 5 6 6	0 SIN 1 24VDC 2 24V 50HZ 3 48VDC 4 48V 50HZ 5 110V 50HZ 6 230V 50HZ	1 WITHOUT 2 WITH	0 WITHOUT 6 WITH	0 WITHOUT 1 WITH
	PN02/C-3 										

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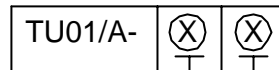
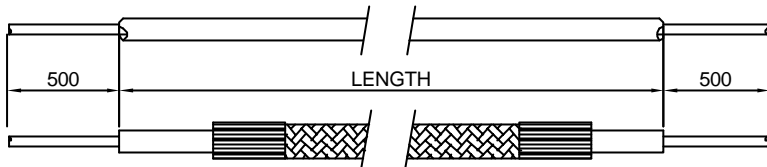
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COAXIAL PIPE

THE NYLON PIPE OF Ø25, INSTALLED WITHIN ANOTHER PIPE OF LARGER DIAMETER SERVES AS THE CONNECTION BETWEEN THE PUMP UNIT AND THE PROJECTION SET.

THE OUTER PIPE CAN BE DELIVERED OF:

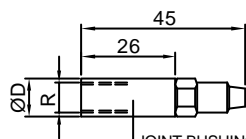
- NYLON Ø6, STANDARD APPLICATION
- FLEXIBLE HOSE WITH METAL SKIN, WITHIN SYSTEMS WITH TEARING RISKS, RUPTURE DUE TO HOT CHIPS...



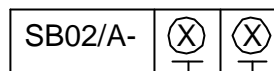
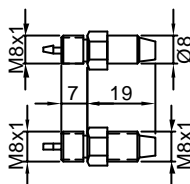
MATERIAL	LENGTH MM
1 NYLON	1 1000
2 FLEXIBLE HOSE	2 2000
	3 3000
	4 4000
	5 5000
	6 6000

BOQUILLAS PROYECTORAS

400.050.000



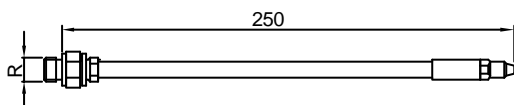
	R	ØD
RIGID PIPE	M8x1	Ø11
ARTICULATED PIPE	1/8"G	Ø14



MODEL	JOINT BUSHING
1 FLAT NOZZLE Ø8	0 WITHOUT
2 THREADED NOZZLE M8x1	1 BUSHING RIGID PIPE
	2 BUSHING ARTICULATED PIPE

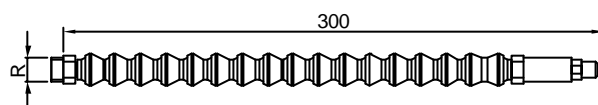
PROJECTION PIPES WITH NOZZLE

RIGID PROJECTOR



THREADED FIXATION

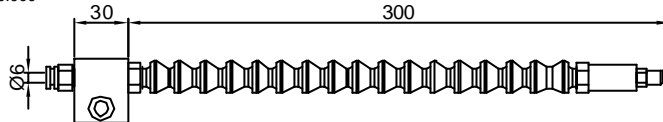
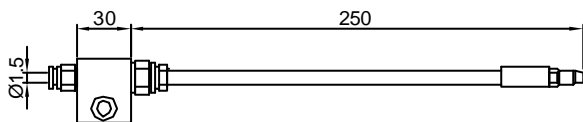
400.100.000



ARTICULATED PROJECTOR

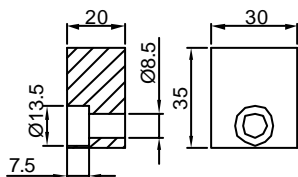
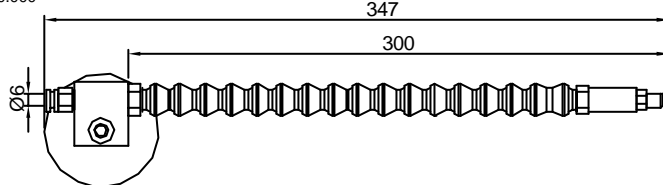
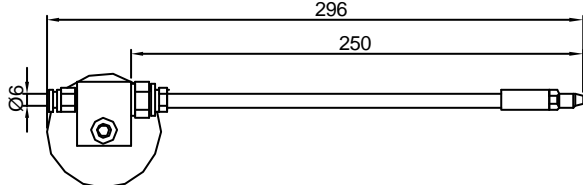
FIXATION BY STRIP

400.150.000

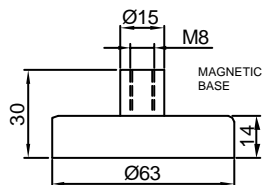


FIXATION BY STRIP, WITH MAGNETIC HOLDER

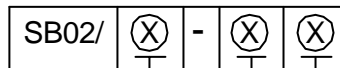
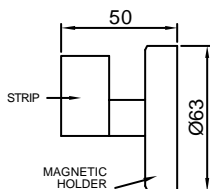
400.150.000



STRIP 502.512.455



MAGNETIC HOLDER HF03/A-1



MODEL	FIXATION	THREAD R
B RIGID PIPE	1 THREADED FIXATION	1 1/8"GAS
C ARTICULATED PIPE	2 FIXATION BY STRIP	2 1/4"GAS
		0 WITHOUT
		1 Ø63

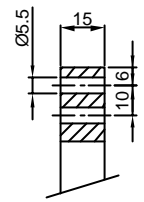
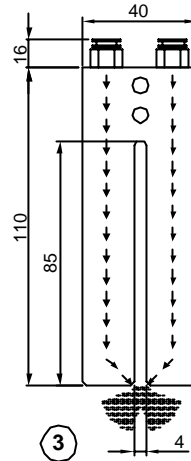
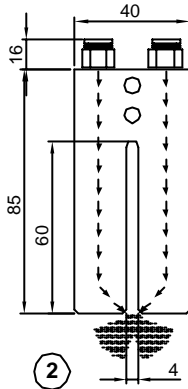
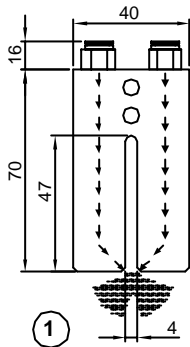
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HORSESHOE-SHAPED PROJECTORS FOR BAND SAWING

PROJECTION DIRECTION: **UP-DOWN**
400.200.000



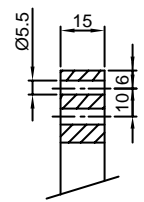
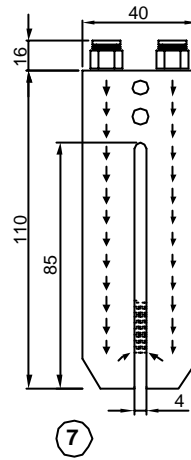
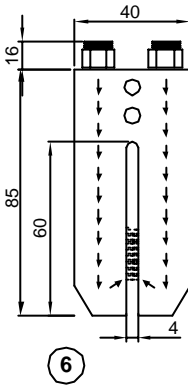
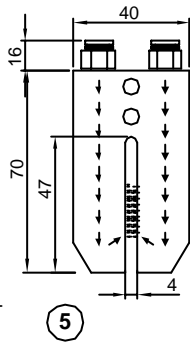
HORSESHOE-SHAPED:

①

②

③

PROJECTION DIRECTION: **UP-DOWN**
400.230.000



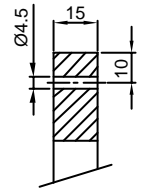
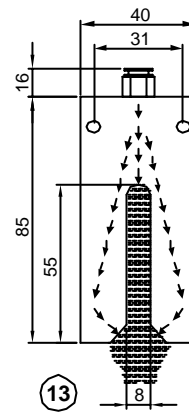
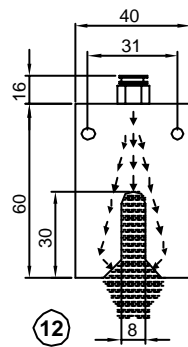
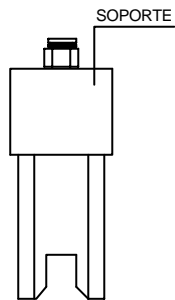
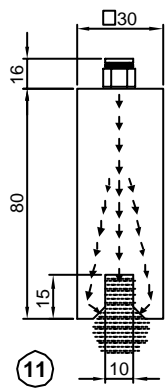
HORSESHOE-SHAPED:

⑤

⑥

⑦

HORSESHOE-SHAPED PROJECTORS FOR DISK SAWING



HORSESHOE-SHAPED:

⑪

⑫

⑬



SB02/ (X) - (X)

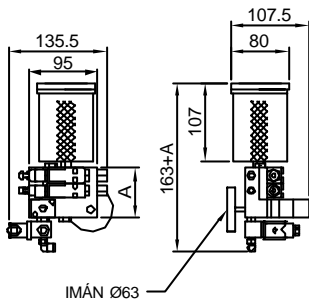
MODEL	FORM		
Ⓓ HORSESHOE-SHAPED FOR BAND SAWING	①	②	③
	⑤	⑥	⑦
Ⓔ HORSESHOE-SHAPED FOR DISK SAWING	⑪	⑫	⑬



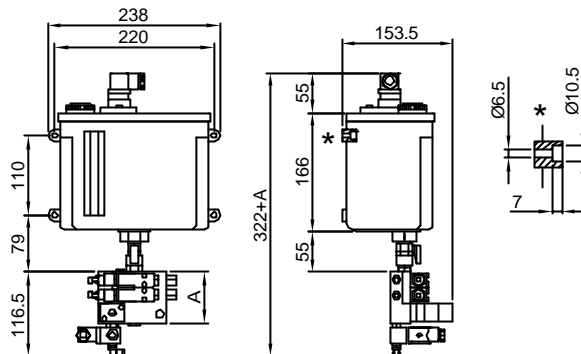
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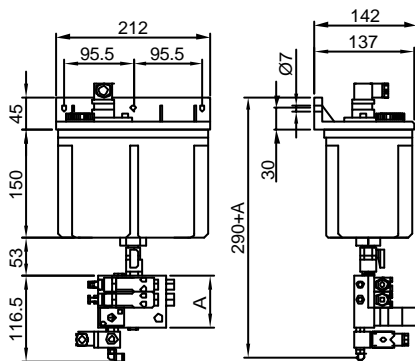
0'25L RESERVOIR



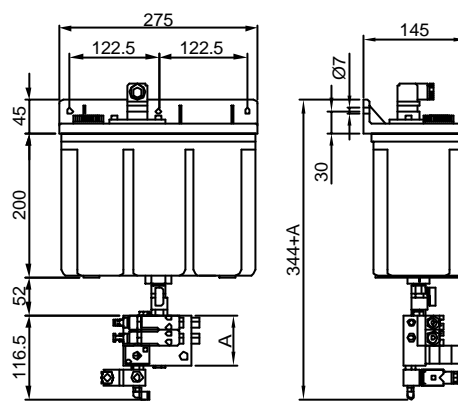
3L ALUMINIUM RESERVOIR



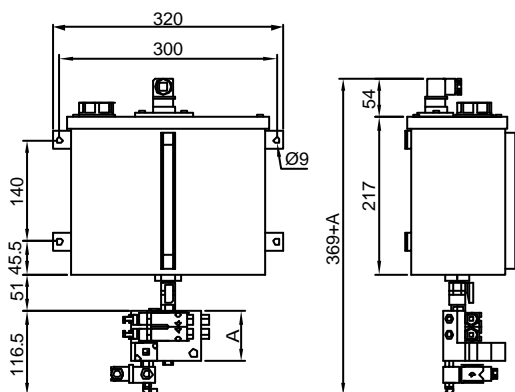
3L PLASTIC RESERVOIR



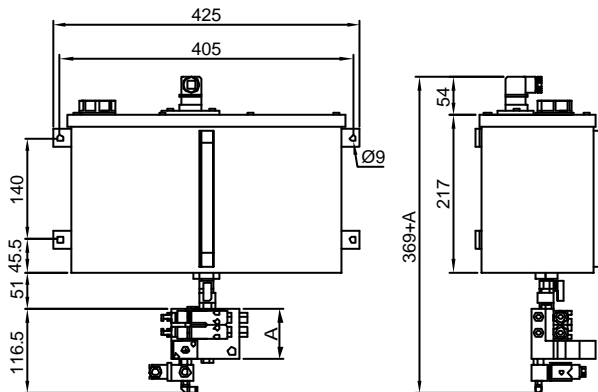
6L PLASTIC RESERVOIR



6L METAL RESERVOIR



10L METAL RESERVOIR



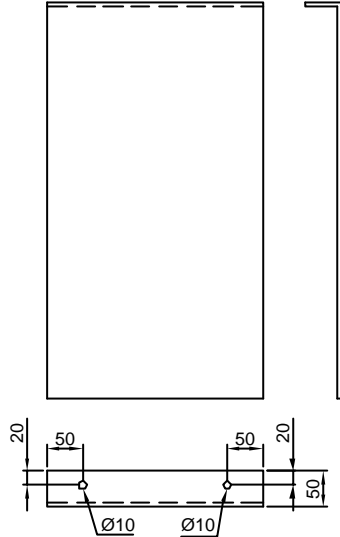
NUMBER OF PUMPS						
	1	2	3	4	5	6
A	56	70	91	112	133	154

DIMENSIONS OF **MLQC** UNITS WITH SUPPORTING PLATE

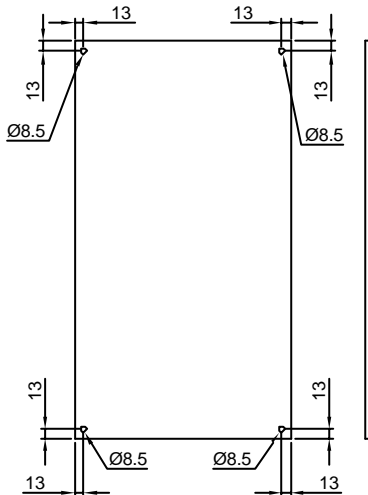
401.200.000
401.300.000
401.400.000
401.500.000

FIXATION HOLES:

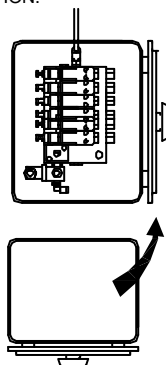
"L"-SHAPED SUPPORTING PLATE



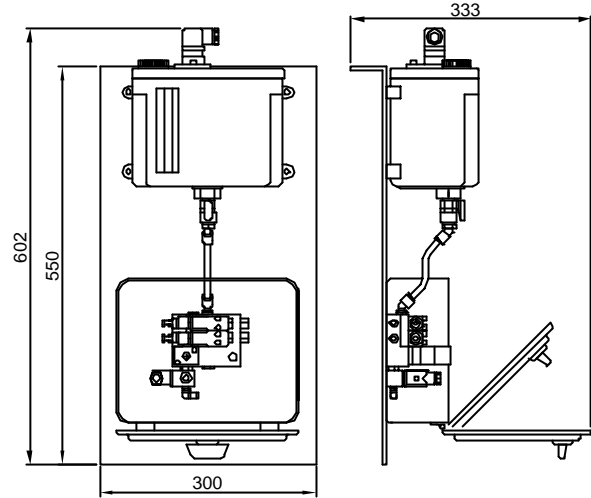
FLAT SUPPORTING PLATE



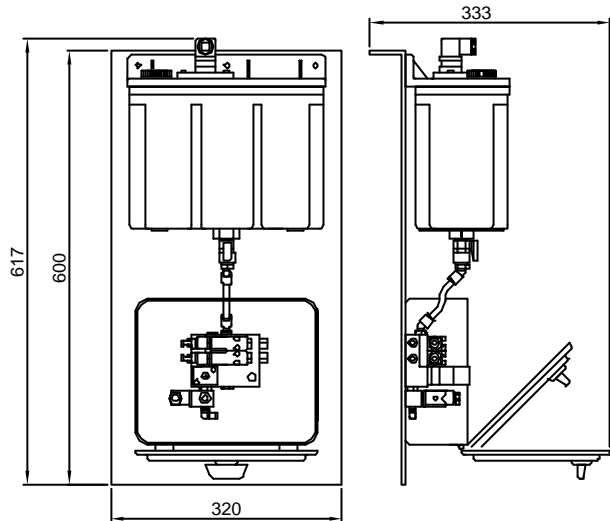
WITH UNITS OF 6 PUMPS AND DUE TO SPACE REQUIREMENTS, THE CABIN CAN BE TURNED THROUGH 90° FOR ITS INSTALLATION.



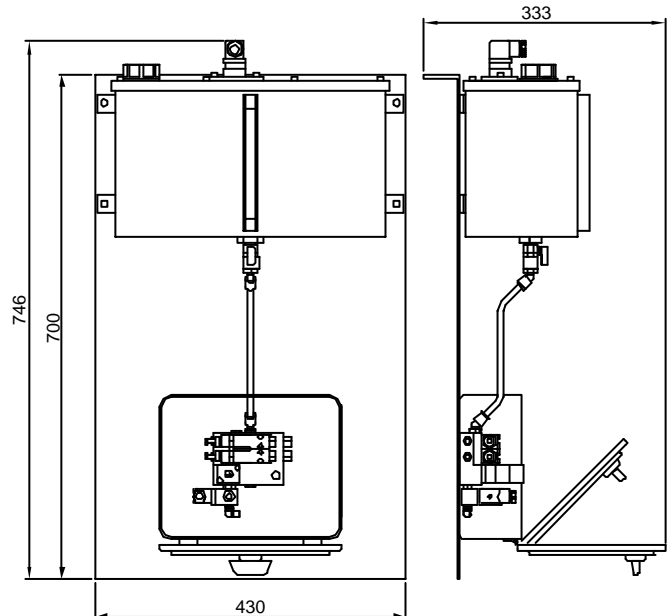
3L ALUMINIUM AND PLASTIC RESERVOIR



6L PLASTIC AND METAL RESERVOIR



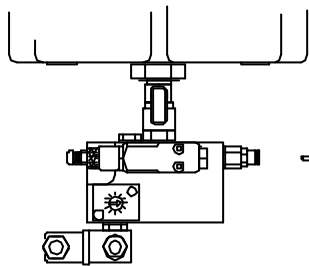
10L METAL RESERVOIR



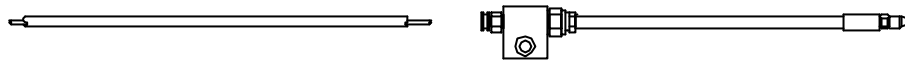
02/2006

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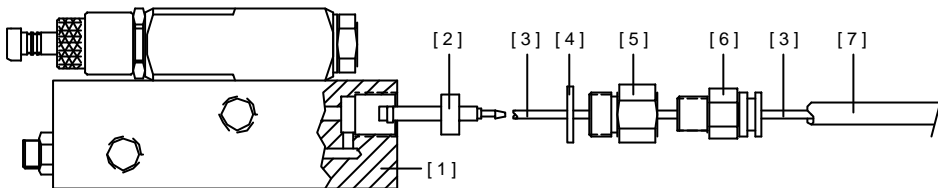
INSTALLATION INSTRUCTIONS



WE RECOMMEND TO BEGIN WITH THE INSTALLATION OF THE PIPES FROM THE BASE PLATE, FOR LATER, ONCE CUT ON THE REQUIRED MEASURE OF THE INSTALLATION, COUPLING THOSE WITH THE PROJECTORS.



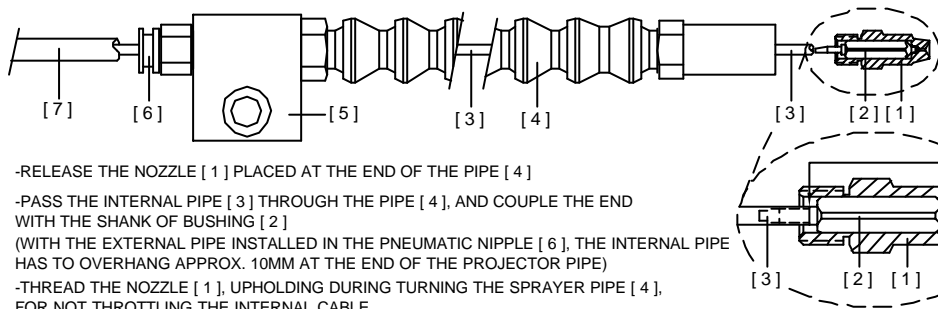
CONNECTION OF THE PIPE WITH THE BASE PLATE



- [1] BASE PLATE UNIT
- [2] BUSHING WITH SHANK
- [3] INTERNAL PIPE Ø25
- [4] SEALING WASHER
- [5] STRAIGHT NIPPLE
- [6] PNEUMATIC NIPPLE Ø6
- [7] EXTERNAL PIPE Ø6

- RELEASE THE NIPPLES [5] AND [6], AS WELL AS THE WASHER [4], AND TAKE OUT THE BUSHING [2]
- PASS THE INTERNAL PIPE [3] THROUGH THE NIPPLES [5], [6] AND THE WASHER [4], AND COUPLE THE END WITH THE SHANK OF BUSHING [2], INTRODUCING IT UNTIL BUMPING WITH THE BOTTOM
- INTRODUCE THE BUSHING [2] IN ITS SEAT OF THE BASE PLATE, PAYING A SPECIAL ATTENTION TO THE O-RING PLACED IN THE INTERNAL END WITHOUT DAMAGING IT.
(LUBRICATE THE INTERNAL SITE OF THE O-RING WITH A LITTLE BIT OF OIL FOR BETTER ENTERING IN ITS SEAT)
- MOUNT THE NIPPLES [5] [6] AND THE WASHER [4]
- GET ON THE EXTERNAL PIPE [7] TO THE PNEUMATIC NIPPLE [6].

COUPLING OF THE PIPE TO THE TIGHT OR ARTICULATED PROJECTOR



- [1] PROJECTOR NOZZLE
- [2] BUSHING WITH SHANK
- [3] INTERNAL PIPE Ø25
- [4] SPRAYER PIPE
- [5] HOLDER
- [6] PNEUMATIC NIPPLE Ø6
- [7] EXTERNAL PIPE Ø6

- RELEASE THE NOZZLE [1] PLACED AT THE END OF THE PIPE [4]
 - PASS THE INTERNAL PIPE [3] THROUGH THE PIPE [4], AND COUPLE THE END WITH THE SHANK OF BUSHING [2]
(WITH THE EXTERNAL PIPE INSTALLED IN THE PNEUMATIC NIPPLE [6], THE INTERNAL PIPE HAS TO OVERHANG APPROX. 10MM AT THE END OF THE PROJECTOR PIPE)
 - THREAD THE NOZZLE [1], UPHOLDING DURING TURNING THE SPRAYER PIPE [4], FOR NOT THROTTLING THE INTERNAL CABLE
 - PUT THE EXTERNAL PIPE [7] INTO THE PNEUMATIC NIPPLE [6].
- INTRODUCE THE PIPE UNTIL BUMPING ON THE BOTTOM OF THE SHANK
- THE INSTALLATION OF THE COAXIAL PIPE IS IDENTICAL WITH BOTH PIPES: ARTICULATED OR TIGHT

COUPLING OF THE PIPE WITH THE HORSESHOE-SHAPED PROJECTOR

FIG.1 -HORSESHOE WITH TWO INPUTS-

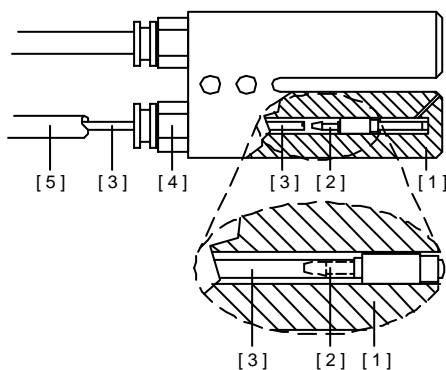
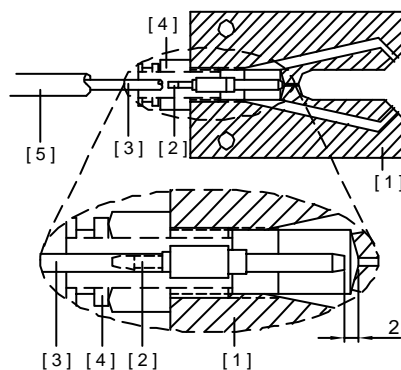


FIG.2 -HORSESHOE WITH ONE INPUT-



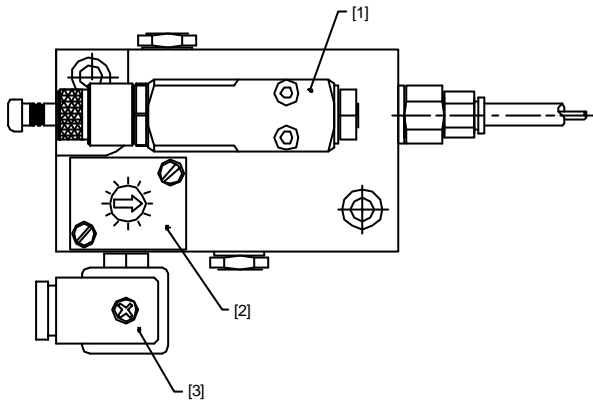
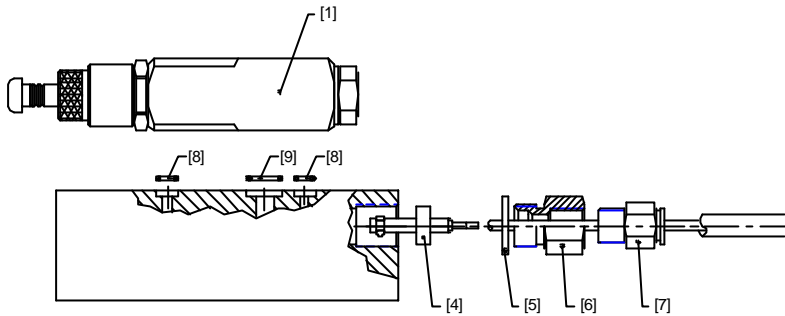
- [1] HORSESHOE-SHAPED PROJECTOR
- [2] BUSHING WITH SHANK
- [3] INTERNAL PIPE Ø25
- [4] PNEUMATIC NIPPLE Ø6
- [5] EXTERNAL PIPE Ø6

- TAKE THE BUSHING WITH THE SHANK [2] OUT OF THE INTERIOR OF THE HORSESHOE. IT ISN'T NECESSARY TO RELEASE THE PNEUMATIC NIPPLE [4]
- INSERT THE END OF THE PIPE IN THE SHANK [2], UNTIL BUMPING AND THEN INTRODUCE THE BUSHING+PIPE:
 - UP TO THE BOTTOM REFERRING TO HORSESHOES OF TWO INPUT HOLES AS PER FIG. 1
 - UP TO APPROX. 2MM BEFORE BOTTOM REFERRING TO HORSESHOES WITH ONE INPUT HOLE, AS PER FIG. 2
- (CUT THE INTERNAL PIPE MAKING REFERENCE TO THE LENGTH OF THE HORSESHOE ADDING THE LENGTH OF THE BUSHING WITH THE SHANK)
- PUT THE EXTERNAL PIPE [5] INTO THE PNEUMATIC NIPPLE [4].

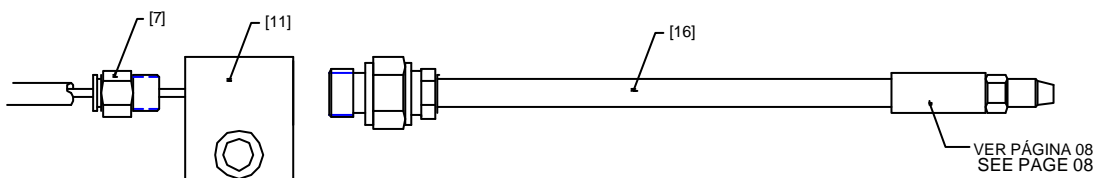
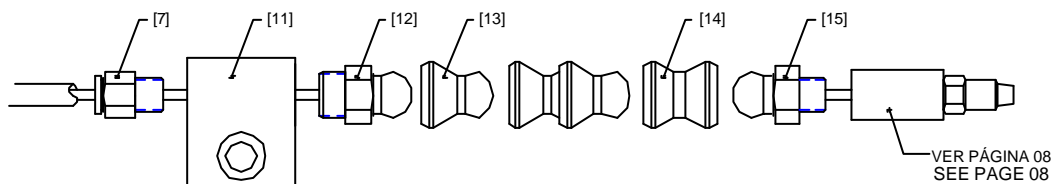
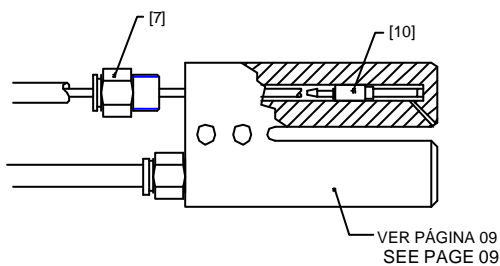
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Tel.:943.851937-852600-850604 Fax: 943.851643
e-mail: intza@intza.com



SPARE PARTS		
POS.	REF.	DESCRIPTION
[1]	DN01/A-11	DOSER 3-30MM3/PULSE
	DN01/A-21	DOSER 5-50MM3/PULSE
[2]	943700021	PULSE GENERATOR
[3]	945213000	ELECTR. VALVE 2/2 G1/8 24VDC
	945213001	ELECTR. VALVE 2/2 G1/8 115VAC
	945213002	ELECTR. VALVE 2/2 G1/8 230VAC
	945213006	ELECTR. VALVE 2/2 G1/8 24VAC
	945213010	ELECTR. VALVE 2/2 G1/4 24VDC
	945213011	ELECTR. VALVE 2/2 G1/4 115VAC
	945213012	ELECTR. VALVE 2/2 G1/4 230VAC
	945213016	ELECTR. VALVE 2/2 G1/4 24VAC
	945213100	ELECTR. VALVE 3/2 G1/8 24VDC
	945213101	ELECTR. VALVE 3/2 G1/8 115VAC
	945213102	ELECTR. VALVE 3/2 G1/8 230VAC
	945213106	ELECTR. VALVE 3/2 G1/8 24VAC
	945213110	ELECTR. VALVE 3/2 G1/4 24VDC
	945213111	ELECTR. VALVE 3/2 G1/4 115VAC
	945213112	ELECTR. VALVE 3/2 G1/4 230VAC
	945213116	ELECTR. VALVE 3/2 G1/4 24VAC
[4]	400405000	BASE PLATE SHANK FOR COAXIAL PIPE
[5]	956600004	WASHER Ø12
[6]	955403022	STRAIGHT CONNECTOR M12 G1/8
[7]	955404102	STRAIGHT CONNECTOR G1/8 Ø6
[8]	915200006V	OR-2'57-1'78 VITON
[9]	915200062V	OR-6'75-1'78 VITON
[10]	400400000	HORSESHOE SHANK FOR COAXIAL PIPE
[11]	502512455	SUPPORT
[12]	955000007	G1/4 CONNECT. FOR ARTICULATED PIPE
[13]	955000002	SOCKET FOT ARTICULATED PIPE
[14]	955000010	G1/4 CONNECT. FOR ARTICULATED PIPE
[15]	955000006	CONNECT. FOR ARTICULATED PIPE
[16]	SB02/B-12	G1/4 RIGID PIPE PROJECTOR



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