series UL

2

DESCRIPTION

The direct acting solenoid valves series "UL" are produced in the 3/2 N.O. (with feed from the exhaust "3") and 3/2 N.C. pneumatic functions. The function 2/2 is obtainable closing exhaust "3". Besides are available the versions with ports G 1/8, suitable for single use, and with interface for multi-station base mounting or for mounting on poppet and to ex CETOP RP 32 P (with fixed position) valve bodies. They can comply with ATEX directive, 3GD category, upon request.

TECHNICAL DATA

Operating pressure	0 ÷ 10 bar
Working temperature	0 ÷ +50 °C (-20 °C with dry air)
Fluid	Compressed air, filtered, continuous lubricated, unlubricated or dry lubricated
Nominal diameter	2 mm
Max. operating frequency	≤13 Hz
Coil	Integrated in the body
Voltages	DC: 24 V AC: 24 - 110 - 220 V
Apparent power	DC: 7 W AC: 17 VA (in rush) - 10 VA (holding))
Voltage tolerance	-15% +15%
Protection class	IP 65
Insulation class	F (155 °C)
Solenoid rating	ED 100%
Electric connector	ULR1B - see chapter connectors on page 2.18

MATERIALS

Core	IMRE
Body ported G 1/8	Zamak
Body with interface	Glass stiffened polyamide (zamak upon request)
Springs	Stainless steel
Seals	Viton®
Manual override	Acetal resin

FLOW CHART - UL

Flow rate (Nl/min) vs Operating pressure (bar)
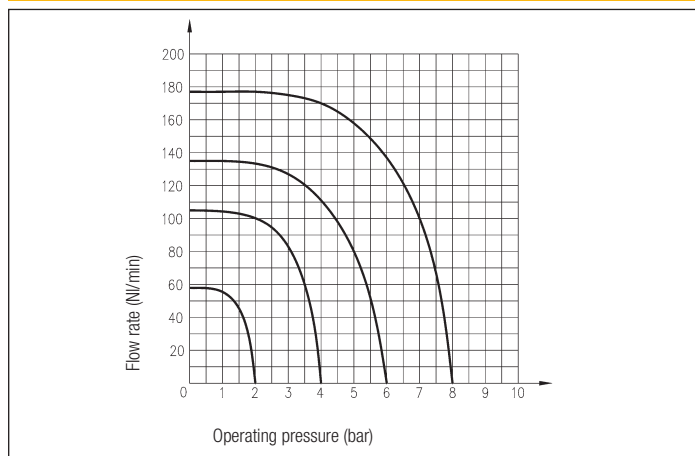
3 PORT G 1/8 ZAMAK - UL.../R

Symbol	Function	Controls		Response time at 6 bar (ms)		Flow rate P.A. 6 bar ΔP = 1 bar (Nl/min)	Manual override	Weight (g)	TYPE*
		Pilot	Return	Pilot	Return				
	3/2 N.O.	Solenoid	Mechanical spring	15	20	80	-	240	ULARG/R
	3/2 N.C.	Solenoid	Mechanical spring	15	20	80	-	240	ULCRG/R
	3/2 N.O.	Solenoid	Mechanical spring	15	20	80	Manual bistable	240	ULARV/R
	3/2 N.C.	Solenoid	Mechanical spring	15	20	80	Manual bistable	240	ULCRV/R

* SPECIFY THE VOLTAGE IN THE ORDER
E.G.: **ULARG/R02450-60**

02400 = 24 V DC   11050-60 = 110 V AC
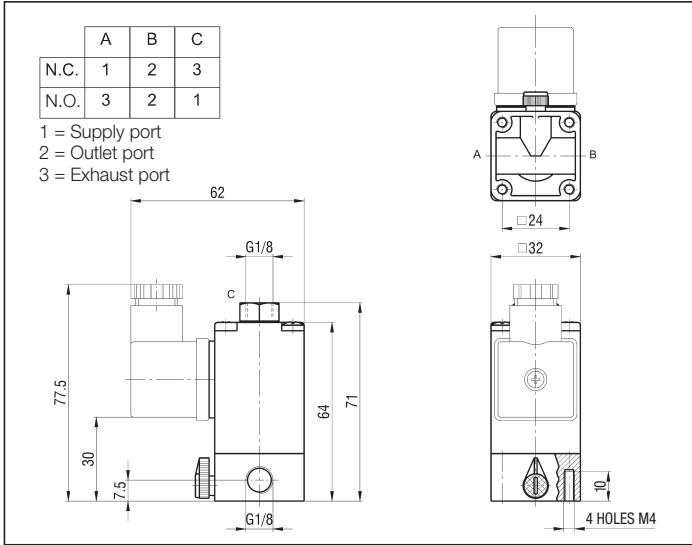02450-60 = 24 V AC   22050-60 = 220 V AC

/EX Consistent with the ATEX directive   II 3G c Ex nA IIC T4 Gc -5°C≤Ta≤50°C
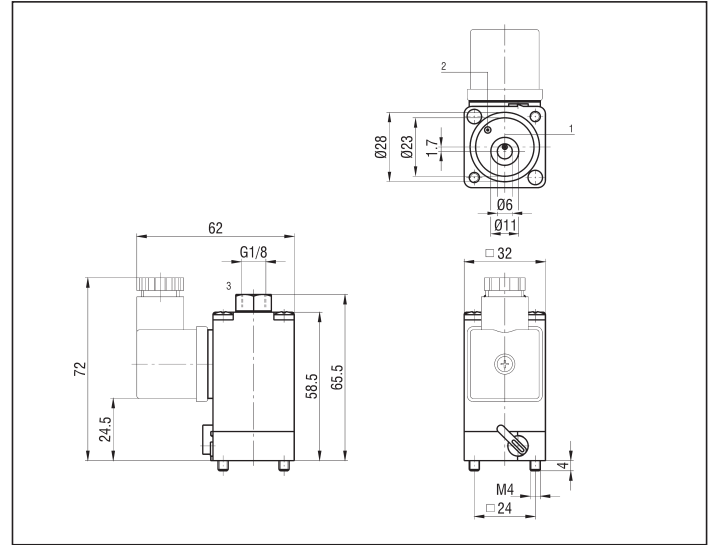II 3D c Ex tc IIIC T135°C IP65 Dc

E.G.: **ULCRV/R02400/EX**

3 PORT G 1/8 ZAMAK - UL..R./R

	A	B	C
N.C.	1	2	3
N.O.	3	2	1

1 = Supply port
2 = Outlet port
3 = Exhaust port

3 PORT WITH UNIVERSAL PLASTIC INTERFACE STRIP- UL.../U

3 PORT WITH INTERFACE FOR MULTI-STATION BASES AND POPPET / EX CETOP VALVES (WITH FIXED POSITION)

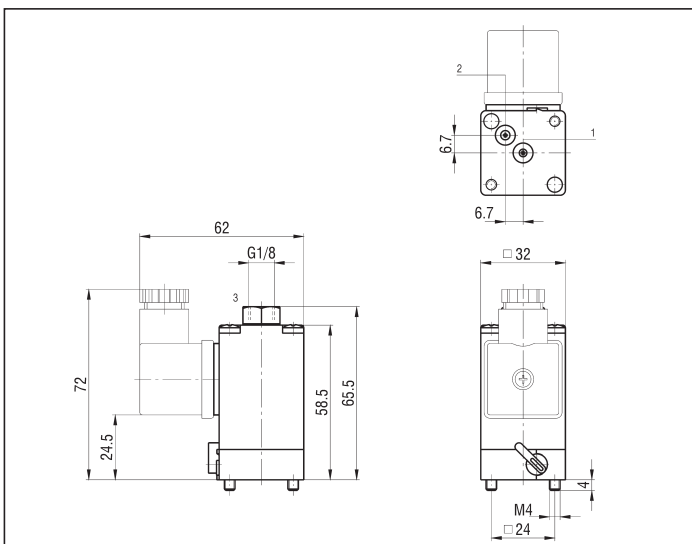| Symbol	Function	Controls		Response time at 6 bar (ms)		Flow rate	Manual override	Weight (g)	TYPE*
		Pilot	Return	Energized	De-energized	P.A. 6 bar $\Delta P = 1$ bar (Nl/min)			
	3/2 N.O.	Solenoid	Mechanical spring	15	20	80	-	200	ULASG/R
	3/2 N.C.	Solenoid	Mechanical spring	15	20	80	-	200	ULCSG/R
	3/2 N.O.	Solenoid	Mechanical spring	15	20	80	Manual bistable	200	ULASV/R
	3/2 N.C.	Solenoid	Mechanical spring	15	20	80	Manual bistable	200	ULCSV/R

* SPECIFY THE VOLTAGE IN THE ORDER
E.G.: **ULARG/R02450-60**

02400 = 24 V DC   11050-60 = 110 V AC
02450-60 = 24 V AC   22050-60 = 220 V AC

/EX Consistent with the ATEX directive
E.G.: **ULCSV/R02400/EX**

II 3G c Ex nA IIC T4 Gc -5°C≤Ta≤50°C
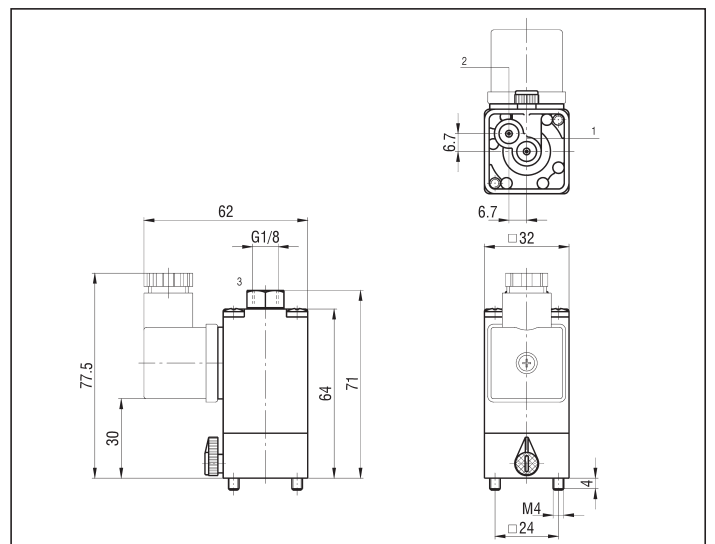II 3D c Ex tc IIIC T135°C IP65 Dc

P.S. 1: For body valve in zamak add the letter "A" to the type.
E.G.: 3/2 N.C. with manual override, body in zamak **ULCSV/RA** + voltage.
P.S. 2: For body valve in plastic and universal interface strip change the letter
"R" of the type with the letter "U".
E.G.: 3/2 N.C. with manual override, body in plastic **ULCSV/U** + voltage.

3 PORT WITH PLASTIC INTERFACE STRIP - UL..S./R

3 PORT WITH ZAMAK INTERFACE STRIP - UL.../RA

series UL

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MULTI-STATION BOTTOM PORTED BASE G 1/8 - ULP8B
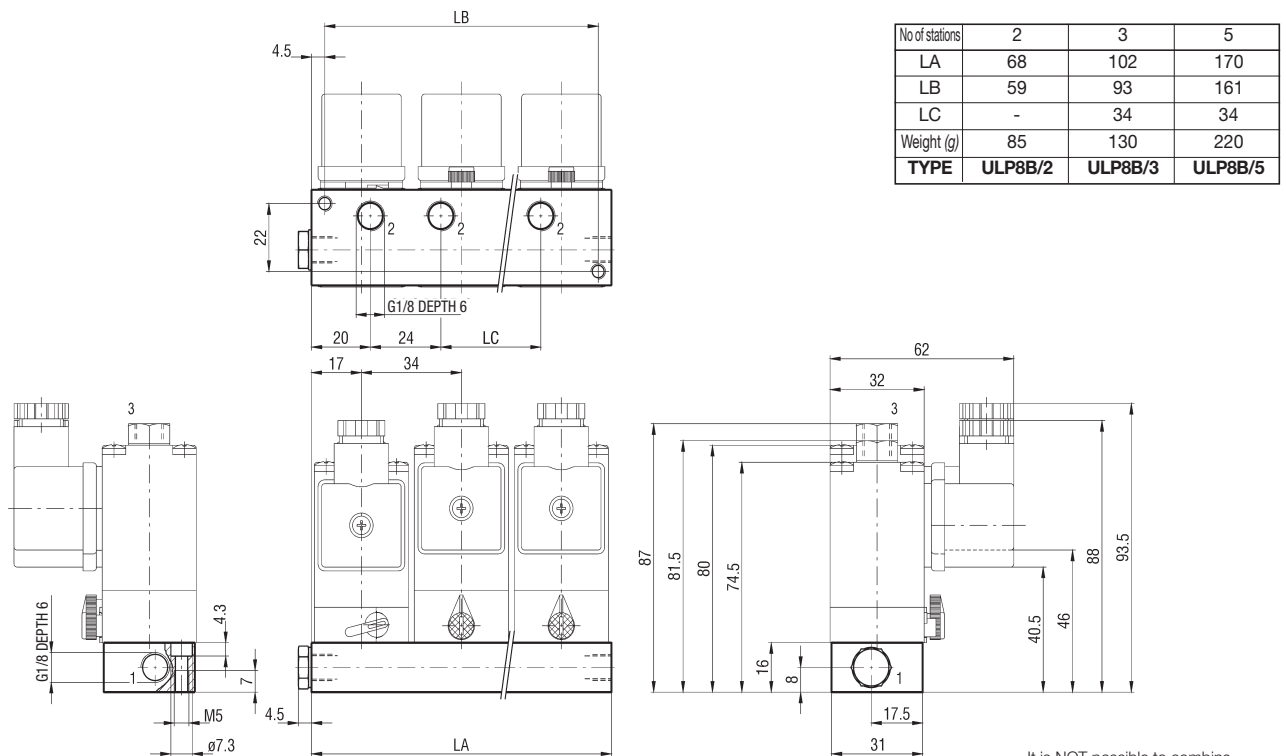
No of stations	2	3	5
LA	68	102	170
LB	59	93	161
LC	-	34	34
Weight (g)	85	130	220
TYPE	ULP8B/2	ULP8B/3	ULP8B/5

It is NOT possible to combine together N.O. & N.C. solenoid valves on the same manifold base.

P.S.: Base is supplied complete with plug, tubing and junction seals.

MULTI-STATION SIDE PORTED BASE G 1/8 - ULP8S
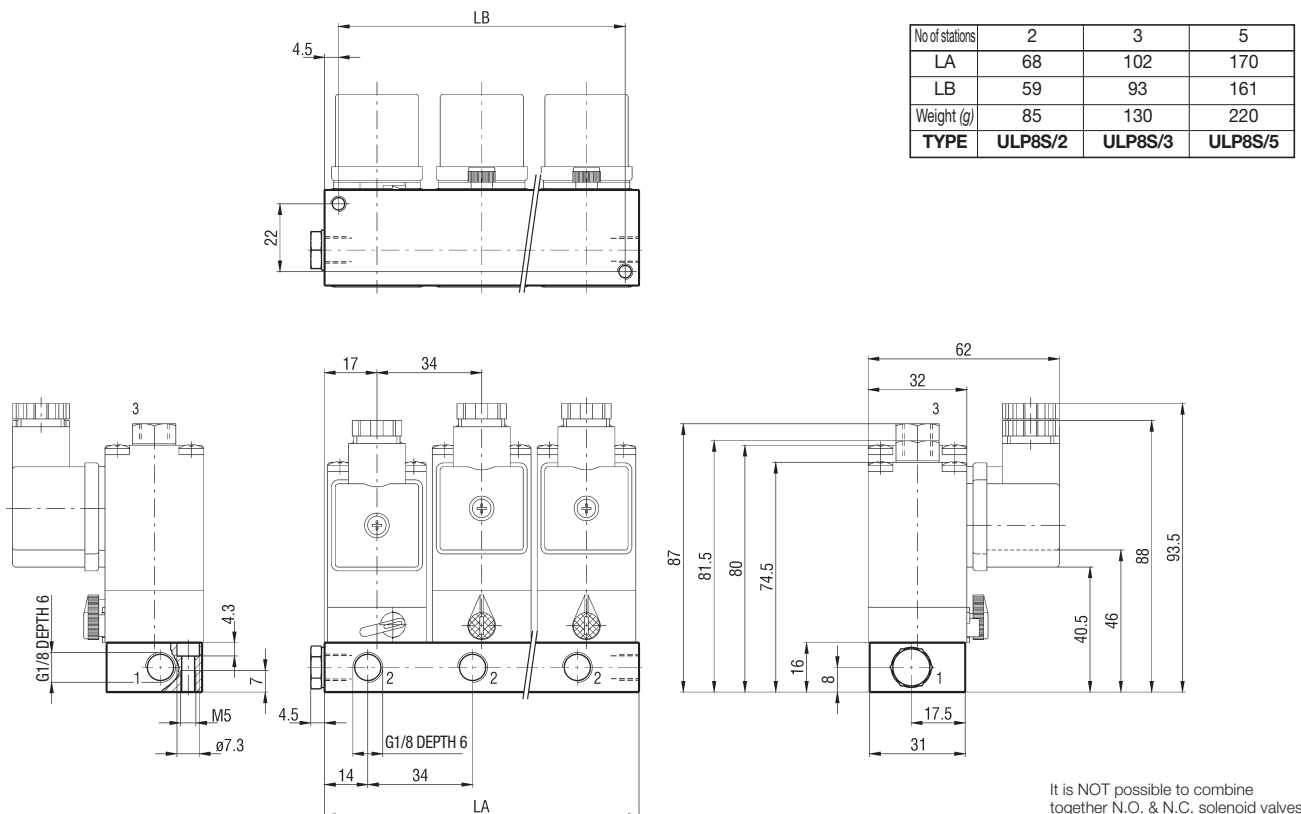
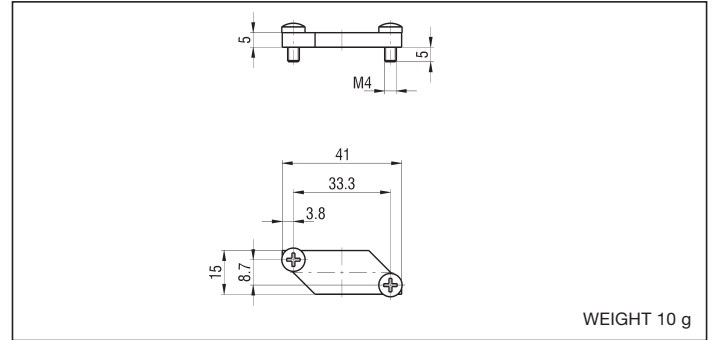| No of stations	2	3	5
LA	68	102	170
LB	59	93	161
Weight (g)	85	130	220
TYPE	ULP8S/2	ULP8S/3	ULP8S/5

It is NOT possible to combine together N.O. & N.C. solenoid valves on the same manifold base.

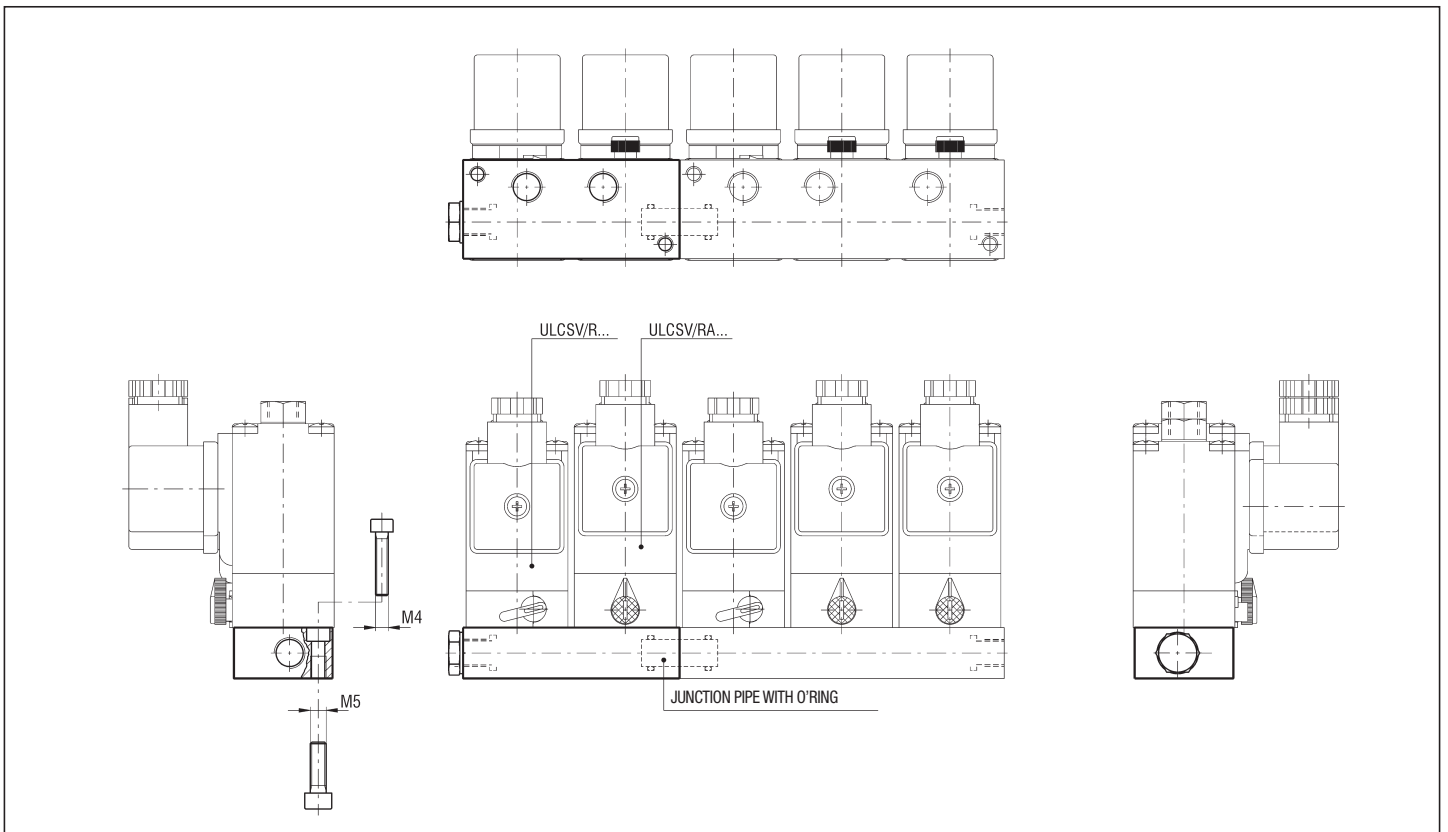P.S.: Base is supplied complete with plug, tubing and junction seals.

WAIRCOM

SINGLE BASE G 1/8 - XVB

WEIGHT 40 g
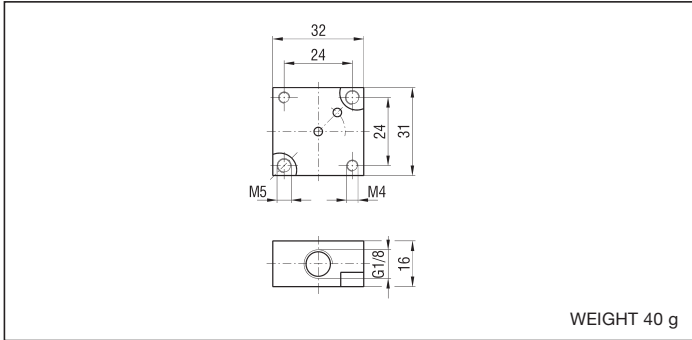
BLANKING PLATE - KIT/PC/UL

WEIGHT 10 g

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EXAMPLE OF BASES ASSEMBLY

ULCSV/R...   ULCSV/RA...

M4

M5

JUNCTION PIPE WITH O'RING

P.S.: The connection nipple is supplied as standard with the multi-station base