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.



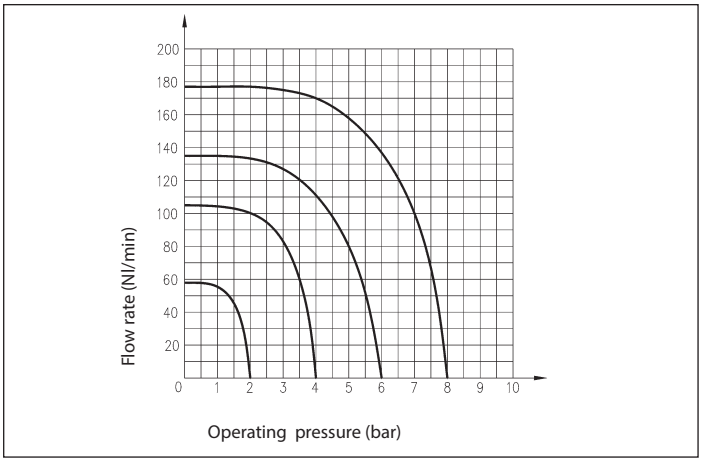
TECHNICAL DATA

Operating pressure	0 ÷ 10 bar
Working temperature	0 ÷ +50 °C (-20 °C with dry air)
Fluid	Filtered, unlubricated, continuous lubricated or dry compressed air
Nominal diameter	2 mm
Flow rate P.A. 6 bar ΔP=1 bar	80 Nl/min
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
Pilot	Solenoid
Return	Mechanical spring
Response time at 6 bar	Pilot: 15 ms Return: 20 ms

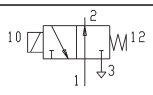
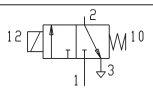
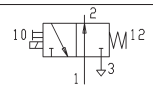
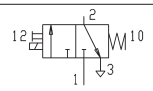
MATERIALS

Core	IMRE
Body ported G 1/8	Zamak
Body with interface	Glass stiffened polyamide or zamak depending on model
Springs	Stainless steel
Seals	Viton®
Manual override	Acetal resin

FLOW CHART - UL



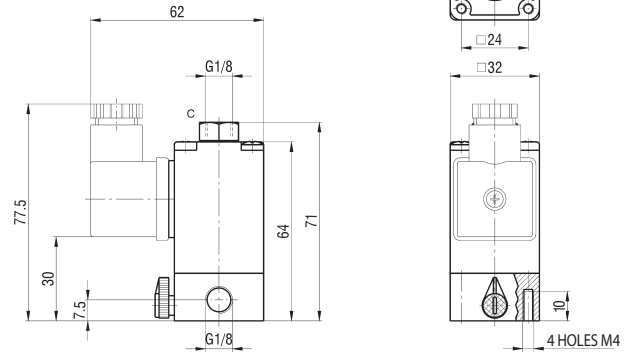
3 PORT WITH ZAMAK BODY AND G1/8 THREADED CONNECTIONS - UL.R./R

Symbol	Function	Manual override	Weight (g)	TYPE*
	3/2 N.O.	-	240	ULARG/R
	3/2 N.C.	-	240	ULCRG/R
	3/2 N.O.	Manual bistable and monostable	240	ULARV/R
	3/2 N.C.	Manual bistable and monostable	240	ULCRV/R

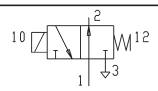
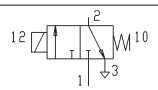
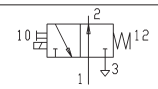
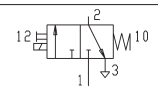
* SPECIFY THE VOLTAGE IN THE ORDER E.G.: **ULARG/R02450-60**
02400 = 24 V DC 02450-60 = 24 V AC 11050-60 = 110 V AC 22050-60 = 220 V AC
/EX Consistent with the ATEX directive II 3G h Ex nA IIC T4 Gc -5°C≤Ta≤50°C
E.G.: **ULCRV/R02400/EX** II 3D h Ex tc IIIC T135°C IP65 Dc

	A	B	C	TYPE	
N.C.	1	2	3	ULCRG/R	ULCRV/R
N.O.	3	2	1	ULARG/R	ULARV/R

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



3 PORT WITH INTERFACE AND PLASTIC BODY FOR BASES AND VALVES SERIES “UK” & “UDS CETOP” - UL.S./R

Symbol	Function	Manual override	Weight (g)	TYPE*
	3/2 N.O.	-	200	ULASG/R
	3/2 N.C.	-	200	ULCSG/R
	3/2 N.O.	Manual bistable	200	ULASV/R
	3/2 N.C.	Manual bistable	200	ULCSV/R

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

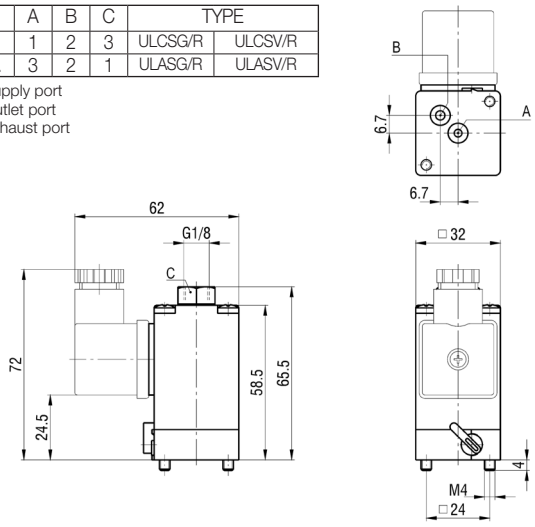
02400 = 24 V DC 02450-60 = 24 V AC 11050-60 = 110 V AC 22050-60 = 220 V AC

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

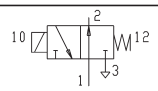
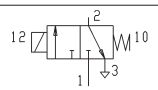
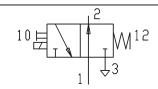
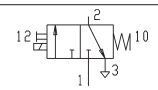
E.G.: **ULCSV/R02400/EX**

	A	B	C	TYPE	
N.C.	1	2	3	ULCSG/R	ULCSV/R
N.O.	3	2	1	ULASG/R	ULASV/R

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



3 PORT WITH INTERFACE AND ZAMAK BODY FOR BASES AND VALVES SERIES “UK” & “UDS CETOP” - UL.S./RA

Symbol	Function	Manual override	Weight (g)	TYPE*
	3/2 N.O.	-	240	ULASG/RA
	3/2 N.C.	-	240	ULCSG/RA
	3/2 N.O.	Manual bistable and monostable	240	ULASV/RA
	3/2 N.C.	Manual bistable and monostable	240	ULCSV/RA

* SPECIFY THE VOLTAGE IN THE ORDER E.G.: **ULASG/RA02450-60**

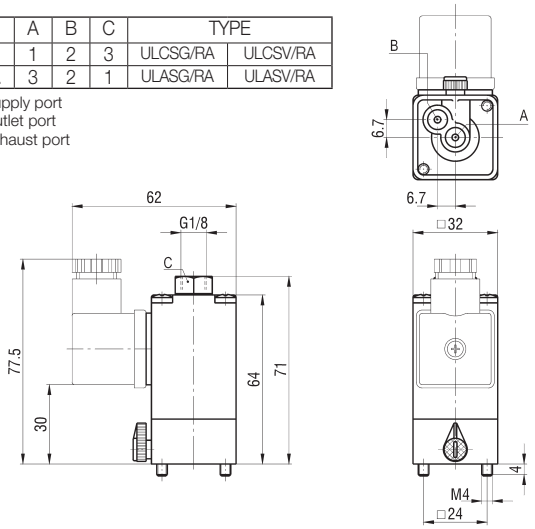
02400 = 24 V DC 02450-60 = 24 V AC 11050-60 = 110 V AC 22050-60 = 220 V AC

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

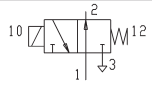
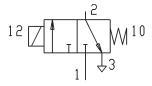
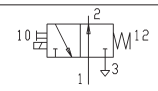
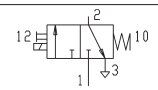
E.G.: **ULCSV/RA02400/EX**

	A	B	C	TYPE	
N.C.	1	2	3	ULCSG/RA	ULCSV/RA
N.O.	3	2	1	ULASG/RA	ULASV/RA

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



3 PORT WITH UNIVERSAL INTERFACE AND PLASTIC BODY - UL.S./U

Symbol	Function	Manual override	Weight (g)	TYPE*
	3/2 N.O.	-	200	ULASG/U
	3/2 N.C.	-	200	ULCSG/U
	3/2 N.O.	Manual bistable	200	ULASV/U
	3/2 N.C.	Manual bistable	200	ULCSV/U

* SPECIFY THE VOLTAGE IN THE ORDER E.G.: **ULASG/U02450-60**

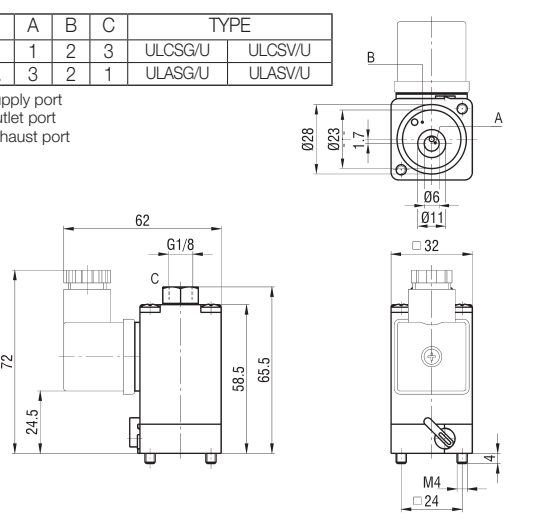
02400 = 24 V DC 02450-60 = 24 V AC 11050-60 = 110 V AC 22050-60 = 220 V AC

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

E.G.: **ULCSV/U02400/EX**

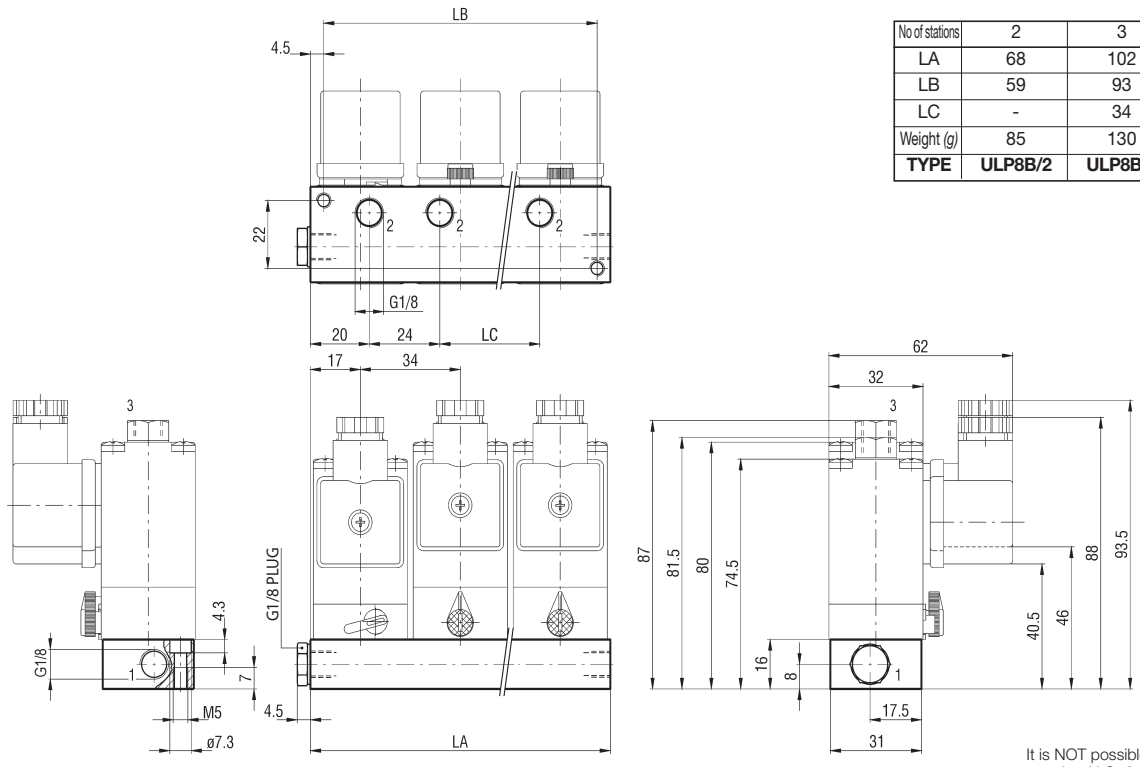
	A	B	C	TYPE	
N.C.	1	2	3	ULCSG/U	ULCSV/U
N.O.	3	2	1	ULASG/U	ULASV/U

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



2

MULTI-STATION BOTTOM PORTED BASE G 1/8 - ULP8B

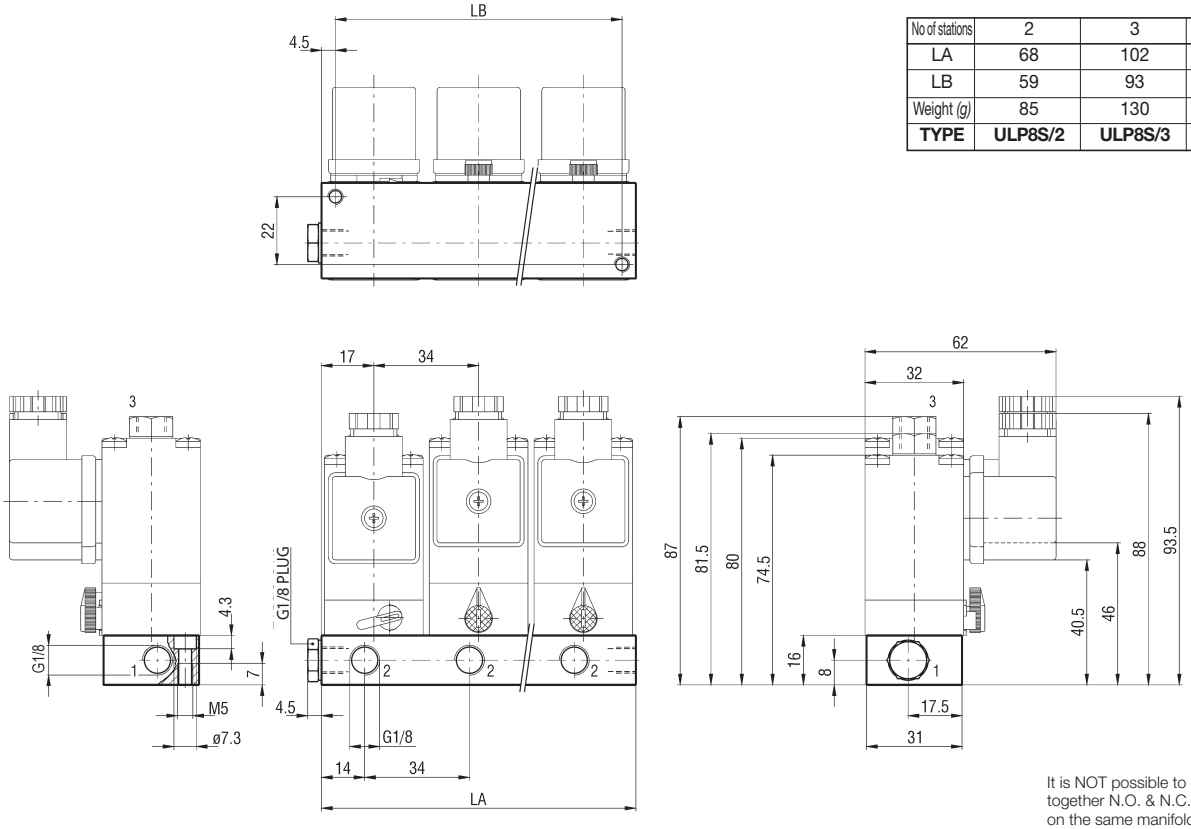


No of stations	2	3	5
LA	68	102	170
LB	59	93	161
LC	-	34	34
Weight *(g)*	85	130	220
TYPE	**ULP8B/2**	**ULP8B/3**	**ULP8B/5**

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

P.S.: Base is supplied with plug and multi-station base assembly kit.

MULTI-STATION SIDE PORTED BASE G 1/8 - ULP8S

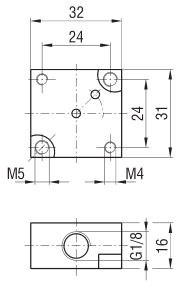


No of stations	2	3	5
LA	68	102	170
LB	59	93	161
Weight *(g)*	85	130	220
TYPE	**ULP8S/2**	**ULP8S/3**	**ULP8S/5**

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

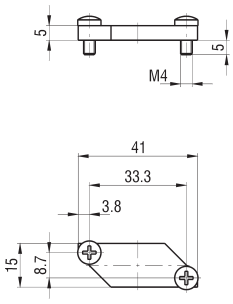
P.S.: Base is supplied with plug and multi-station base assembly kit.

SINGLE BASE G 1/8 - XVB



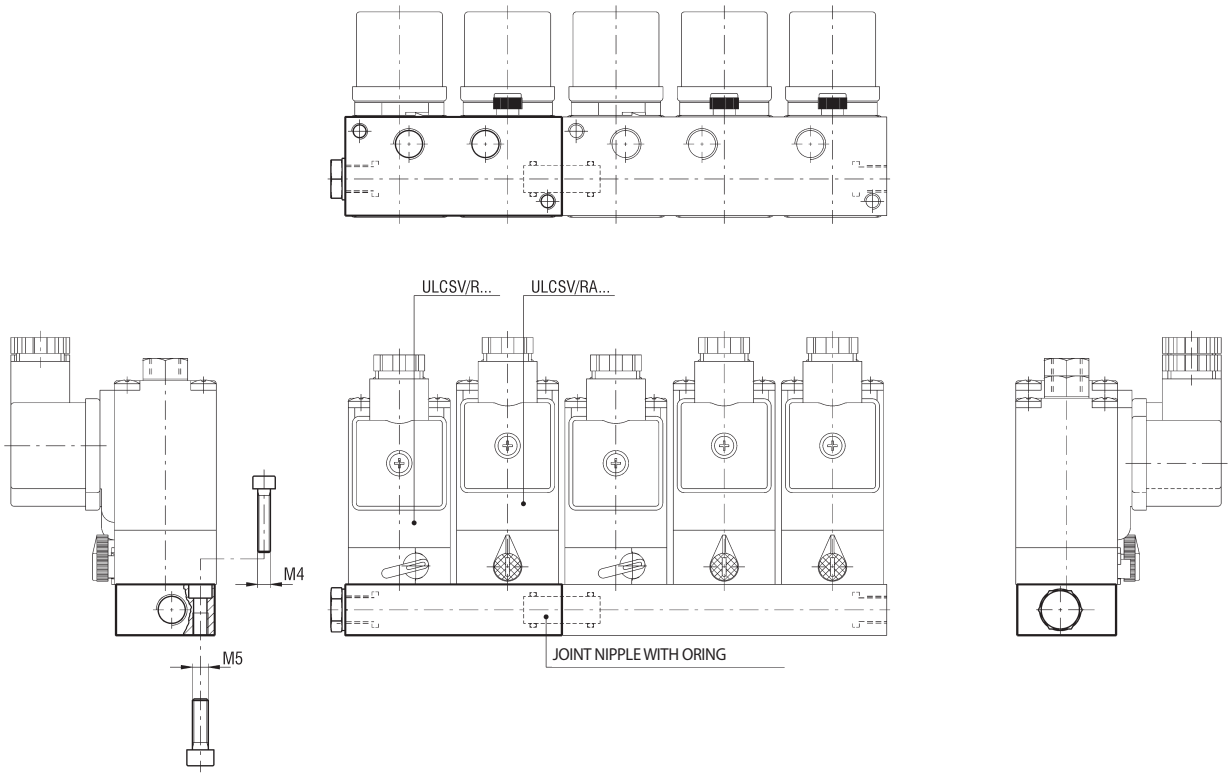
WEIGHT 40 g

BLANKING PLATE - KIT/PC/UL



WEIGHT 10 g

EXAMPLE OF BASES ASSEMBLY



P.S.: Insert the orings and the joint nipple between the bases as shown above. The joint nipple is not threaded, so the bases must be fixed to ensure the system's tightness, with M4 or M5 screws as shown in the drawing. (Screws are not supplied with bases)