DESCRIPTION

The C/ series direct-operated solenoid valves are produced in pneumatic functions 3/2 N.C. and 3/2 N.O. The 3/2 N.C. are available in four basic versions: 22 mm side threaded body, 22 mm side body with interface, 30 mm side body with ex CNOMO interface, and body with interface for mounting on spool valves and ex CETOP (fixed position with rotatable coil). The 3/2 N.O. solenoid valves are available in the 22 mm side body with interface version. All 3/2 N.C. solenoid valves with interface can be mounted on their respective single bases, which can be modularly connected. The 30 mm side version with ex CNOMO interface comes standard with two different types of actuator: bistable screwdriver slot and monostable button. The 3/2 N.O. 22 mm valves can be mounted on a modular base with or without the N.C. valves using an adapter. The N.C. valves are available upon request in compliance with ATEX category 2GD directives.



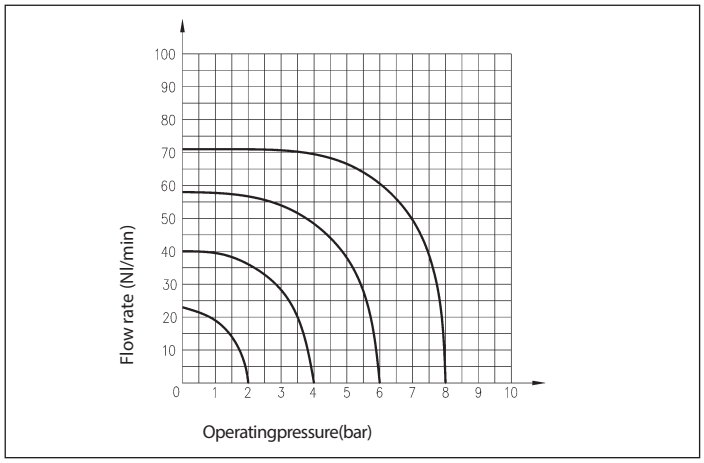
TECHNICAL DATA

Operating pressure	0 ÷ 10 bar
Working temperature	0 ÷ +50 °C (-20 °C with dry air)
Fluid	Filtered, unlubricated, continuous lubricated or dry compressed air
Sleeve diameter	Ø 9 mm
Nominal diameter	N.C.: Ø1,1 mm - N.O.: Ø1.4 mm
Max. operating frequency	≤13 Hz
Coils	USB - see chapter Coils on page 2.17 USBG - see chapter Coils on page 2.17 USBG2 - see chapter Coils on page 2.17
Electric connectors	USR102/N9 - see chapter Connectors on page 2.18 ULR1B - see chapter Connectors on page 2.18

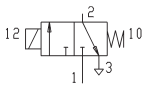
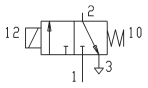
MATERIALS

Sleeve	Brass
Core	IMRE
Body ported G 1/8 - G 1/4	Aluminium
Body and manual override	Acetal resin
Locking ring nut	Plastic
Springs	Stainless steel
Seals	Viton®

FLOW CHART - C/



3 PORT G 1/8 - G 1/4 SIDE 22 mm

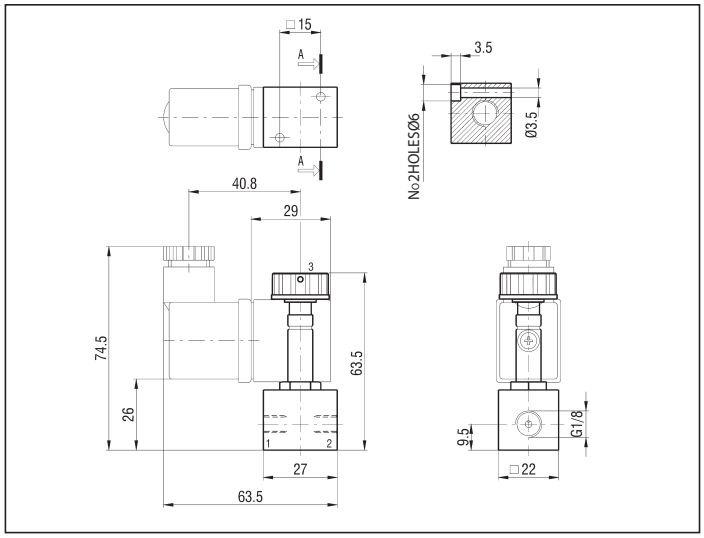
Symbol	Function	Controls		Response time at 6 bar (ms)		Flow rate at 6 bar ΔP = 1 bar (Nl/min)	Size	Manual override	Weight (g)	TYPE*
		Pilot	Return	Energized	De-energized					
	3/2 N.C.	Solenoid	Mechanical spring	10	20	36	G 1/8	-	65	C8/USCSGG
	3/2 N.C.	Solenoid	Mechanical spring	10	20	36	G 1/4	-	80	C4/USCSGG

* THE TYPES OF THE SOLENOID VALVES DO NOT INCLUDE COILS

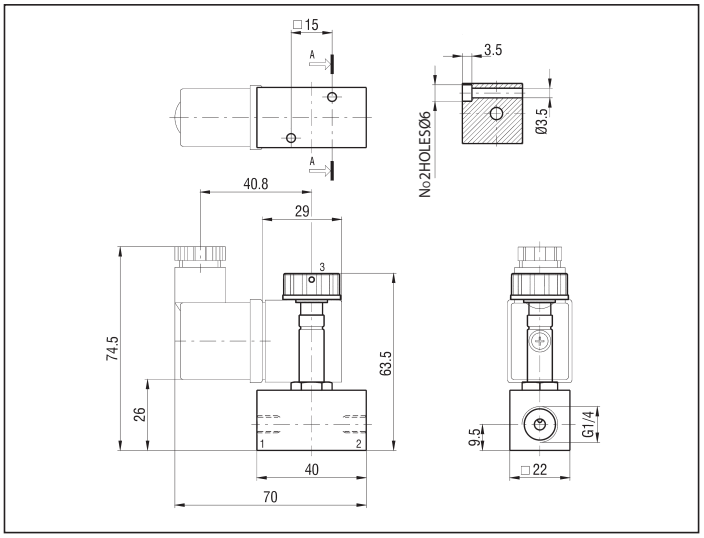
/EX Consistent with the ATEX directive II 2G Ex h IIC T5 Gb -20°C≤Ta≤50°C
II 2D Ex h IIIC T100°C Db X

E.G.: **C8/USCSGG/EX**

3 WAY G 1/8 PORT

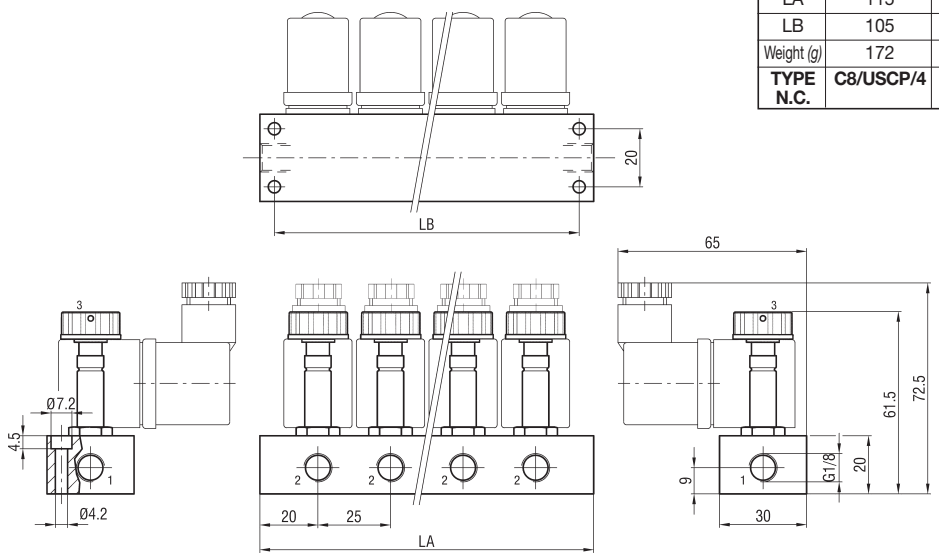


3 WAY G 1/4 PORT



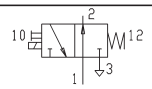
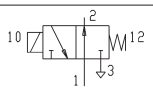
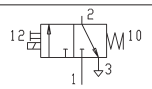
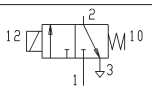
MANIFOLD BASE OF SOLENOID VALVES SIDE PORTED G 1/8 N.C. - C8/USCP/...

No of stations	4	6	8
LA	115	165	215
LB	105	155	205
Weight (g)	172	258	344
TYPE N.C.	**C8/USCP/4**	**C8/USCP/6**	**C8/USCP/8**



2

3 PORT WITH INTERFACE FOR MODULAR BASES AND SPOOL VALVES SIDE 22 mm

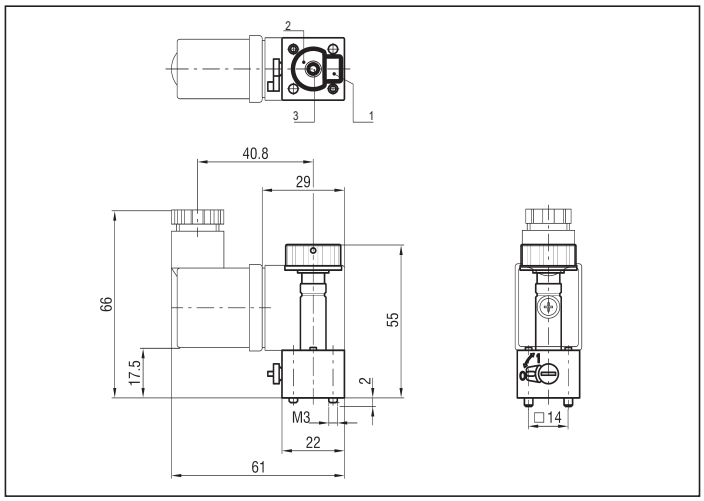
Symbol	Function	Controls		Response time at 6 bar (ms)		Flow rate at 6 bar ΔP = 1 bar (Nl/min)	Manual override	Weight (g)	TYPE*
		Pilot	Return	Energized	De-energized				
	3/2 N.O.	Solenoid	Mechanical spring	8	15	50	Manual bistable	30	C/USABVP
	3/2 N.O.	Solenoid	Mechanical spring	8	15	50	-	30	C/USABGP
	3/2 N.C.	Solenoid	Mechanical spring	10	25	36	Manual bistable	30	C/USCSVP**
	3/2 N.C.	Solenoid	Mechanical spring	10	25	36	-	30	C/USCSGP**

* THE TYPES OF THE SOLENOID VALVES DO NOT INCLUDE COILS

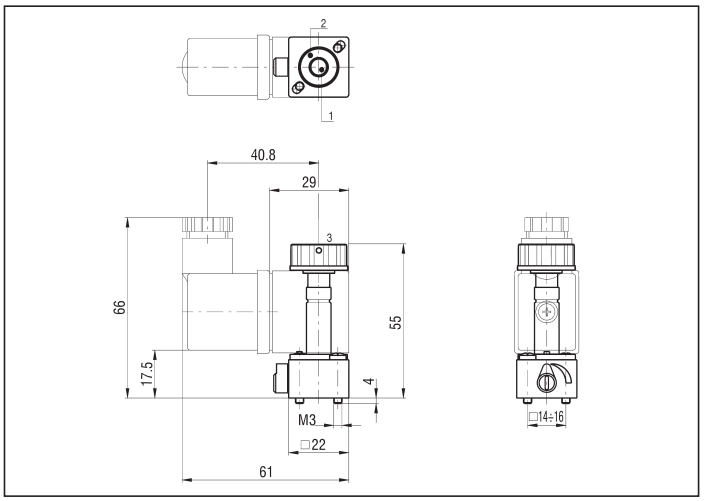
**/EX Consistent with the ATEX directive Ⓔx II 2G Ex h IIC T5 Gb -20°C≤Ta≤50°C II 2D Ex h IIIC T100°C Db X

ES.:**C/USCSVP/EX**

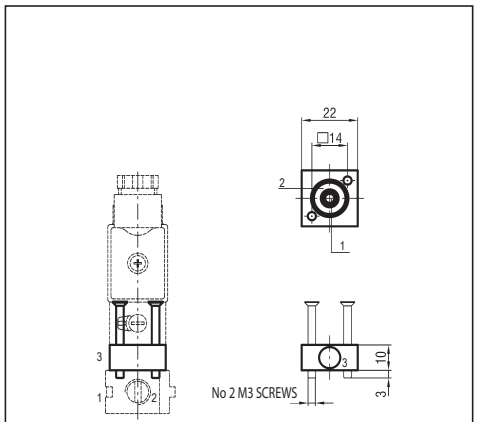
C/USABVP - C/USABGP



C/USCSVP - C/USCSGP

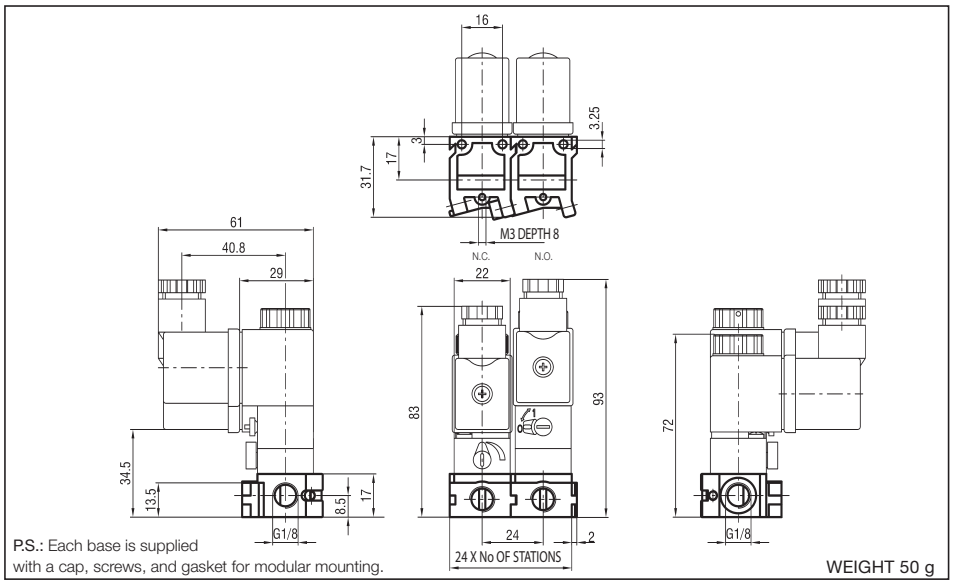


N.O. ADAPTER - KIT/INT/USA



P.S.:The adapter allows for mounting the 3/2 N.O. solenoid valves (C/USABVP e C/USABGP) on the ELPP8S bases.

MODULAR BASE SIDE PORTED G 1/8 - ELPP8S



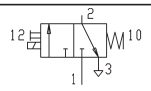
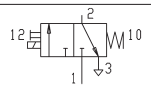
P.S.: Each base is supplied with a cap, screws, and gasket for modular mounting.

WEIGHT 50 g

HOW TO ORDER A SOLENOID VALVE COMPLETE OF COIL AND BASE:
Example: 3/2 N.C. solenoid valve base mounted (with manual override) + coil 24 V D.C.
ELPP8S/P/USB/02400
Example: 3/2 N.O. solenoid valve base mounted (with manual override and adapter) + coil 110 V A.C.
ELPP8S/AV/USB/11050-60

DESCRIPTION	TYPE
3/2 N.O. + base & adapter + coil (with manual override)	ELPP8S/AV/USB/voltage
3/2 N.O. + base & adapter + coil (without manual override)	ELPP8S/AG/USB/voltage
3/2 N.C. + base + coil (with manual override)	ELPP8S/P/USB/ voltage
3/2 N.C. + base + coil (without manual override)	ELPP8S/PG/USB/voltage

3 PORT WITH EX CNOMO INTERFACE FOR MODULAR BASES AND VALVES TO ISO 5599/1

Symbol	Function	Controls		Response time at 6 bar (ms)		Flow rate at 6 bar ΔP = 1 bar (Nl/min)	Manual override	Weight (g)	TYPE*
		Pilot	Return	Energized	De-energized				
	3/2 N.C.	Solenoid	Mechanical spring	10	25	36	Bistable screw driver slot	45	C/UECSVB
	3/2 N.C.	Solenoid	Mechanical spring	10	25	36	Monostable push button	45	C/UECSPB

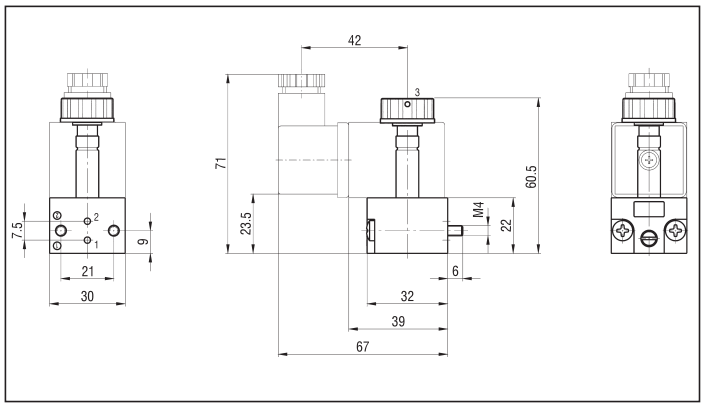
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* THE TYPES OF THE SOLENOID VALVES DO NOT INCLUDE COILS

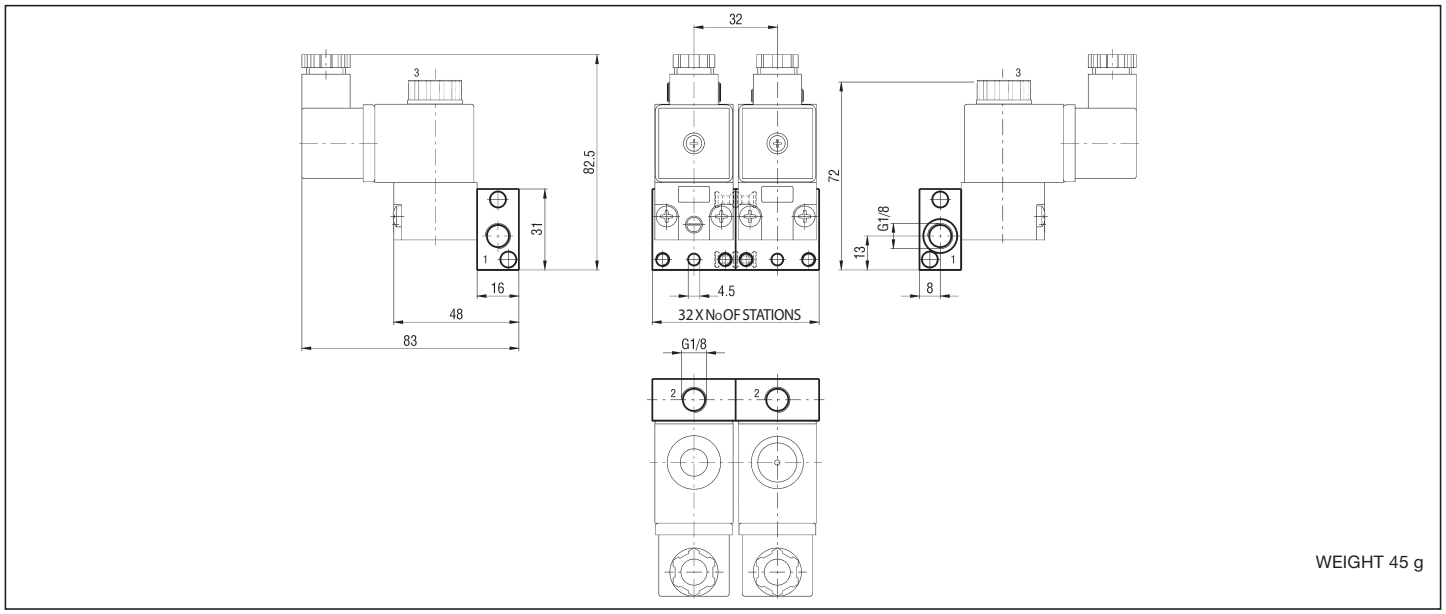
/EX Consistent with the ATEX directive Ⅱ 2G Ex h IIC T5 Gb -20°C≤Ta≤50°C Ⅱ 2D Ex h IIIC T100°C Db X

ES.:**C/UECSVB/EX**

C/UECSVB - C/UECSPB



EX CNOMO MODULAR BASE SIDE PORTED G 1/8 - ELPG8S

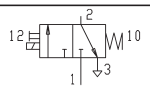


P.S.: Base includes the coupling pin with grains and seals.

HOW TO ORDER A SOLENOID VALVE COMPLETE OF COIL AND BASE
Example: 3/2 N.C. solenoid valve base mounted (with manual override)
+ coil 24 V DC **ELPG8S/B/USBG/02400**

DESCRIPTION	TYPE
3/2 N.C. + base + coil (with manual override)	ELPG8S/B/USBG/voltage
3/2 N.C. base + coil (with push button manual override)	ELPG8S/BP/USBG/voltage

3 PORT WITH INTERFACE FOR POPPET AND EX CETOP (WITH FIXED POSITION AND ROTATABLE COIL) VALVES

Symbol	Function	Controls		Response time at 6 bar (ms)		Flow rate at 6 bar ΔP = 1 bar (Nl/min)	Manual override	Weight (g)	TYPE*
		Pilot	Return	Energized	De-energized				
	3/2 N.C.	Solenoid	Mechanical spring	10	25	36	Manual bistable	30	C/USCSVG

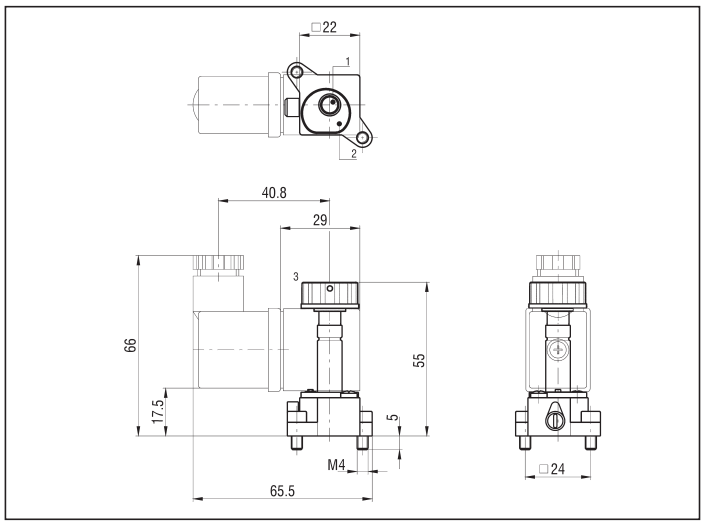
2

* THE TYPES OF THE SOLENOID VALVES DO NOT INCLUDE COILS

/EX Consistent with the ATEX directive Ⓔx II 2G Ex h IIC T5 Gb -20°C≤Ta≤50°C II 2D Ex h IIIC T100°C Db X

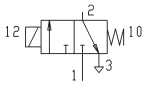
ES.:**C/USCSVG/EX**

C/USCSVG



3 PORT BODY PORTED G 1/8 FOR DIRECT MOUNTING

This solenoid valve has been specifically designed to pilot single acting small cylinders and pneumatic valves. The input connection is M5 while the output has a male thread G1/8 that allows the direct assembling of the solenoid valve on the component.

Symbol	Function	Controls		Response time at 6 bar (ms)		Flow rate at 6 bar ΔP = 1 bar (Nl/min)	Manual override	Weight (g)	TYPE*
		Pilot	Return	Energized	De-energized				
	3/2 N.C.	Solenoid	Mechanical spring	10	20	36	-	46	C/ELP8M

* THE TYPES OF THE SOLENOID VALVES DO NOT INCLUDE COILS

/EX Consistent with the ATEX directive Ⓔx II 2G Ex h IIC T5 Gb -20°C≤Ta≤50°C II 2D Ex h IIIC T100°C Db X

ES.:**C/ELP8M/EX**

C/ELP8M

