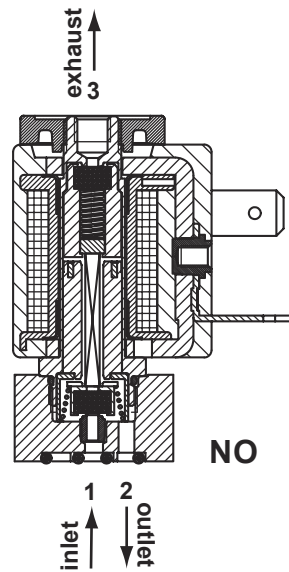


direct operated solenoid valves

coil 22 mm

general information	
ambient temperature	- 10°C to + 50°C
response time	5 - 8 ms
mounting	in any position
seal materials, standard*	NBR, FPM, EPDM*
dimensions	see page 2/4
coil data	see page 2/4
connector data	see page 2/4
sub-base	see page 3/4 and 4/4

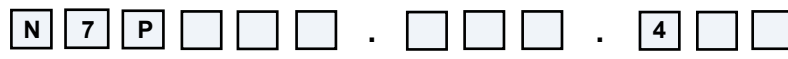


* other seal materials on request

function	symbol	orifice mm	*Kv	pressure range (bar)			nominal power		TABLE A main code		
				min.	max. DC	max. AC	Watt DC	V.A. AC			
								inr.		hol.	
3/2 normally open (NO) 		1.2	0.5	0	-	13	-	9	7.5	N7P212	
		1.2	0.5	0	13	-	5	-	-	N7P712	
		1.6	1.1	0	-	10	-	9	7.5	N7P216	
		1.6	1.1	0	10	-	5	-	-	N7P716	

*l/min. of water with ΔP of 1 bar

order code



main code
see table A on this page

stem	
code	material
D	brass* *option: chem. nickel

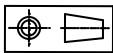
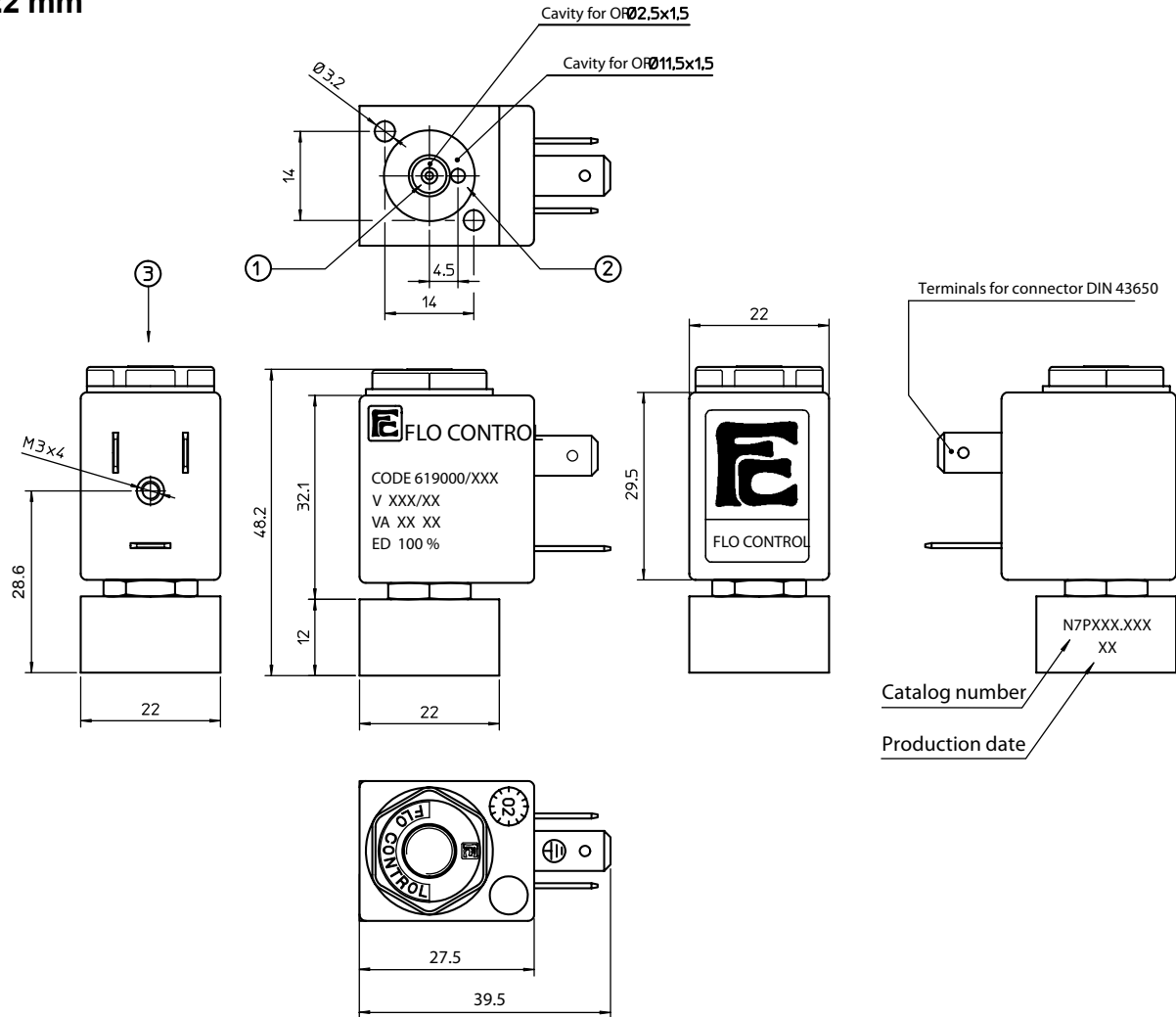
seals	
code	material
B	NBR
V	FPM
E	EPDM

manual override	
code	type
0	none

coil code
see table B on page 2/4

direct operated solenoid valves

coil 22 mm



weight	100 g
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coil code	TABLE B			
	*voltages	code		
		~ 50 Hz	~ 60 Hz	= DC
	6	-	-	461
	12	-	-	466
	24	411	444	471
	48	416	-	476
	110	421	-	481
	115	-	453	-
	220	431	-	491
	230	457	459	-

coil specification	
wire insulation	class H180° C
encapsulation	class F155° C
encapsulation mat.	nylon
energising duration	100% at +20° C ambient
voltage tolerance	- 10% to +15% of nominal voltage
power consumption	AC 7,5 VA - DC 5 Watt
electrical connection	DIN 43650/B (2P+ earth)
cable connection	Pg 9 (for cable dia. 6-8mm)
protection class	IP 65 (with connector)

* other voltages and wattages on request

connector (not included, must be ordered separately)

code	Z10030
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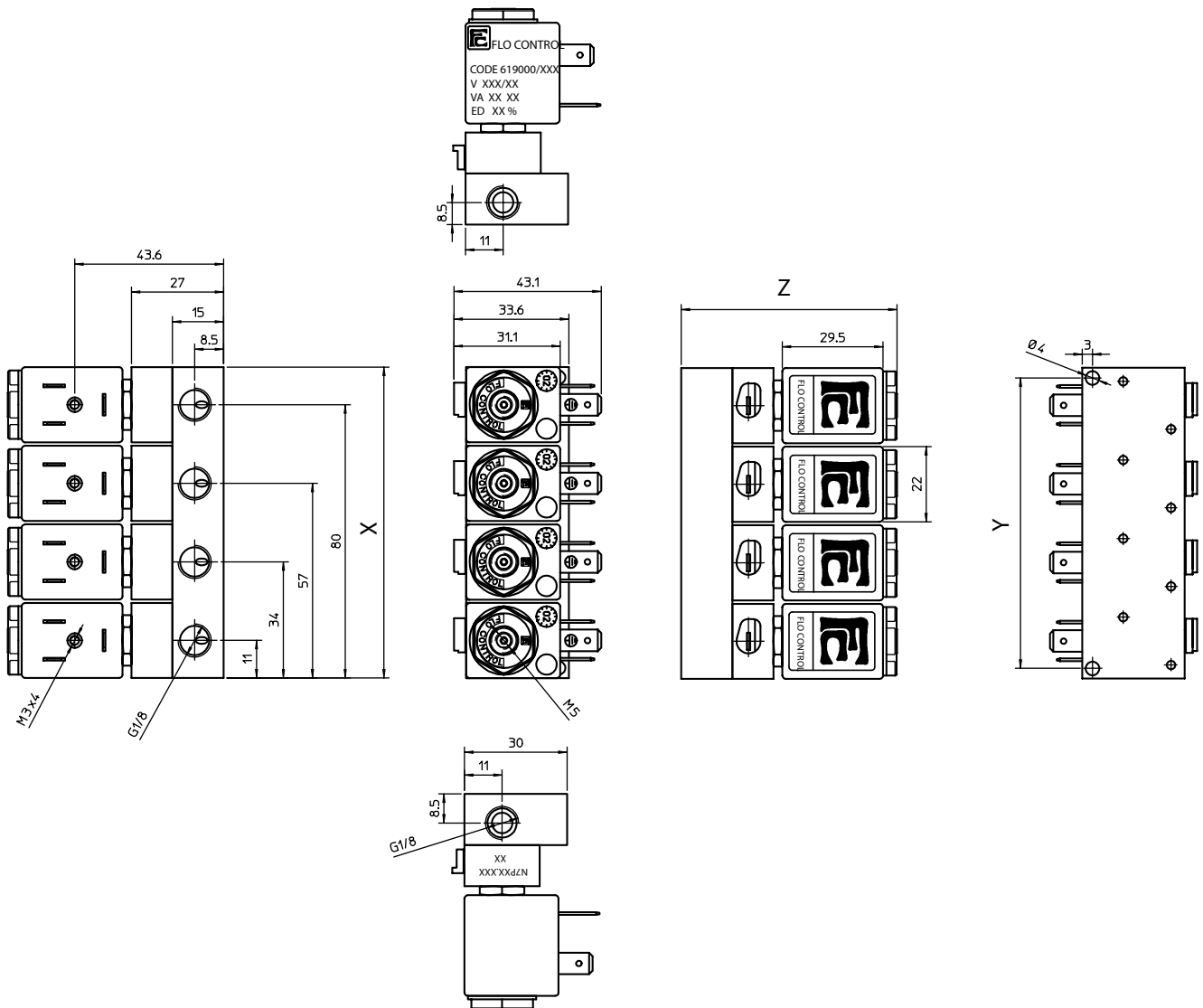
FLO CONTROL

Solenoid Valves



direct operated solenoid valves

coil 22 mm



dimensions assembled manifolds

order code	stations	X (mm)	Y (mm)	Z (mm)	weight (g)
parts have to be ordered separately:	1	22	16	63.2	121
	2	45	39	63.2	244
valves see page 1/4	3	68	62	63.2	368
bases see page 3/4	4	91	85	63.2	490
srews see page 3/4	5	114	108	63.2	614
	6	137	131	63.2	738

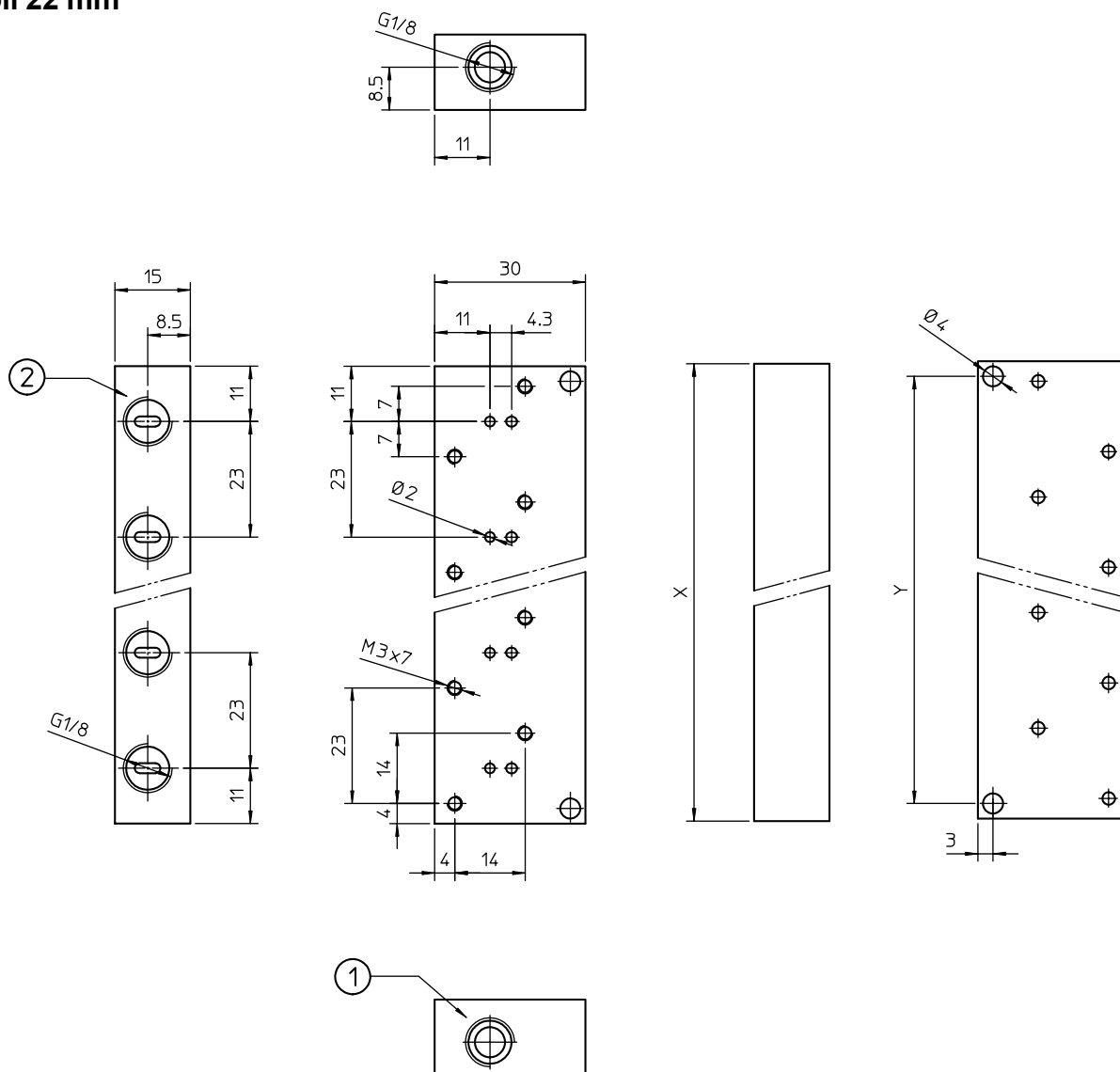
FLO CONTROL

Solenoid Valves



direct operated solenoid valves

coil 22 mm



order code	stations	X (mm)	Y (mm)	weight (g)
ZZ11.B1.38A	1	22	16	21
ZZ11.B2.38A	2	45	39	44
ZZ11.B3.38A	3	68	62	68
ZZ11.B4.38A	4	91	85	90
ZZ11.B5.38A	5	114	108	114
ZZ11.B6.38A	6	137	131	138

-M3 screws order code Z11010 (two each valves station) must be ordered separately