

SERIES HZRE - ELECTROPNEUMATIC PROPORTIONAL REGULATOR



Temperature

0
+ 50 °C

CHARACTERISTICS

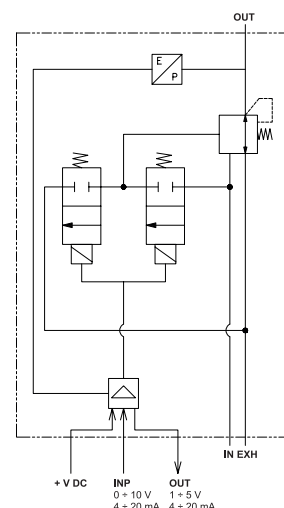
	HZRE31	HZRE32	HZRE33
Fluid	Compressed air filtered 5 µm, inert gas, with or without lubrication		
Adjusting range	0 ÷ 5 bar, 0 ÷ 9 bar		
Pressure Max	10 bar (2 bar adjustment range 0 to 1 bar)		
Pressure min.	regulated pressure + 1 bar		
Connections	G1/8	G1/4	G1/2
Nominal flow rate (NI/min)	300	1500	5000
Weight	370g	420g	770g
G1/8 pressure gauge connection for all sizes			

Voltage	24 V DC ± 10%		
Power consumption	< 6 W		
Protection degree	IP65		
Connection	Connector M12A male 4 poles		
Input signal	Current	4 ÷ 20 mA	0 ÷ 20 mA
	Voltage	0 ÷ 10 V DC	0 ÷ 5 V DC
Output signal	Analog	4 ÷ 20 mA/1 ÷ 5 V DC	
	Digital	24 V DC PNP/NPN	
Sensitivity	≤ ± 0,5% F.S. ^(a)		
Linearity	≤ 1% F.S. ^(a)		
Repeatability	≤ ± 0,5% F.S. ^(a)		
Hysteresis	≤ 0,5% F.S. ^(a)		
Integrated high-precision pressure sensor			
Integrated digital display			
Integrated user interface buttons			
Aluminium body			

(a) = F.S. Full-span

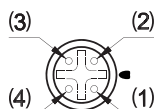


Operating diagram



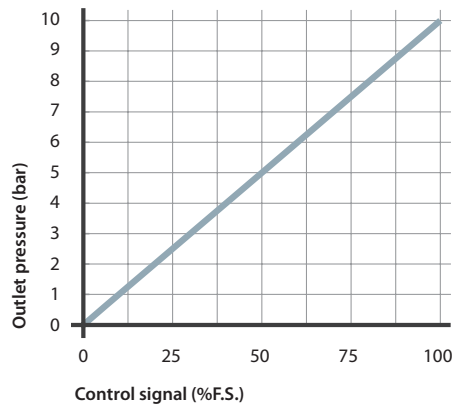
Series	Type	Thread	Adjusting range	Input signal	Output signal
H Z R E	3 2	0 8 G	C	B	B
HZRE proportional electro-pneumatic regulator	31 size 1	06G G1/8 (size1)	C 0 ÷ 9 bar On request B Pneumatic spring	A 4 ÷ 20 mA (0 ÷ 20 mA) B 0 ÷ 10 V DC (0 ÷ 5 V DC)	A = 4 ÷ 20 mA B = 1 ÷ 5 V DC C = 24 V DC PNP D = 24 V DC NPN
	32 size 2	08G G1/4 (size2)			
	33 size 3	15G G1/2 (size3)			

Pin No.	Cable	Analog signal	Preset 4 input
1	Red/Brown	+24 V DC	+24 V DC
2	White	input signal	input 1
3	Blu	0 V	0 V
4	Black	output signal	input 2

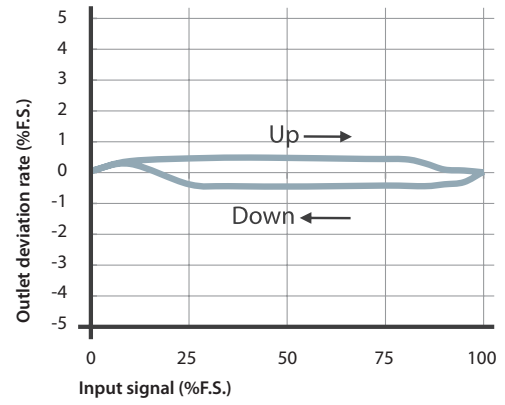


Subject to change

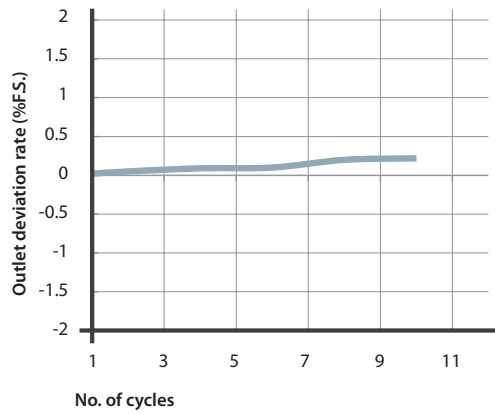
Linearity



Hysteresis

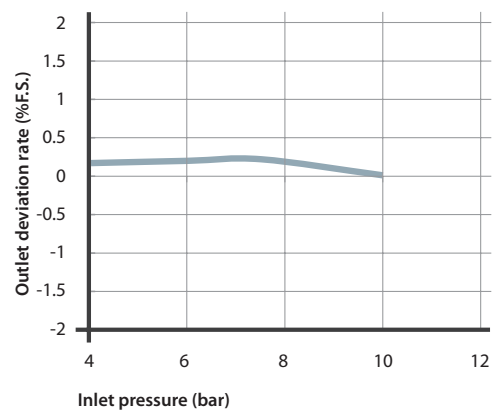


Repeatability



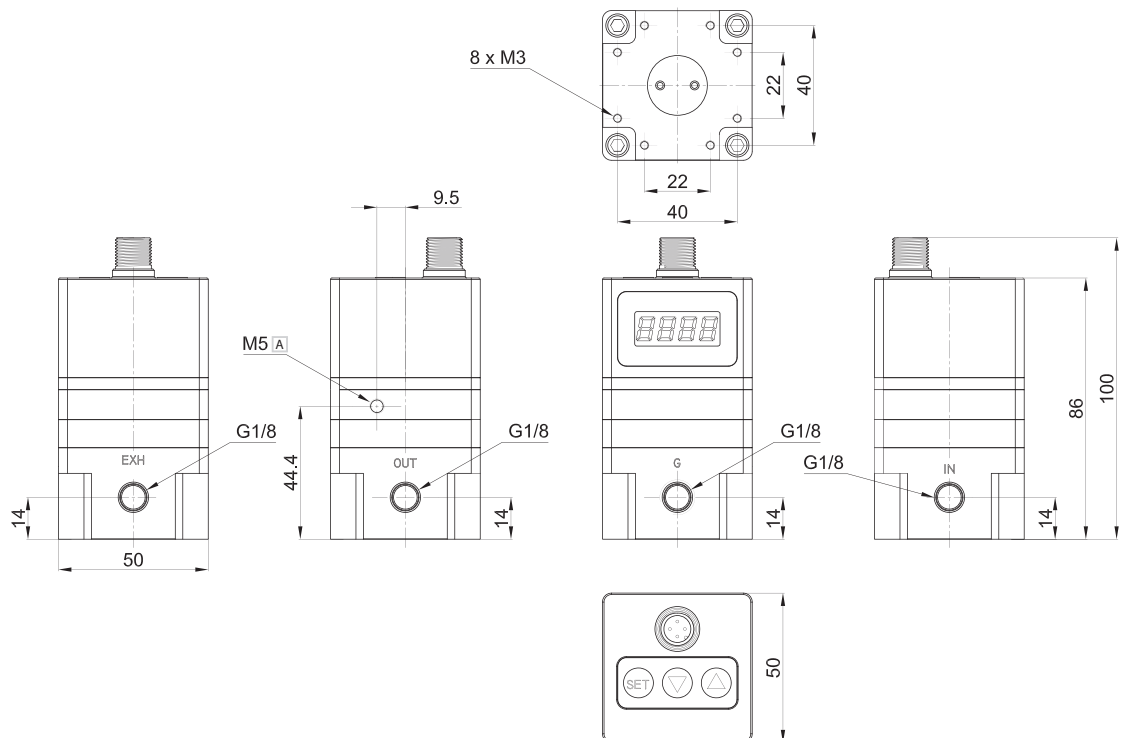
Pressure characteristic

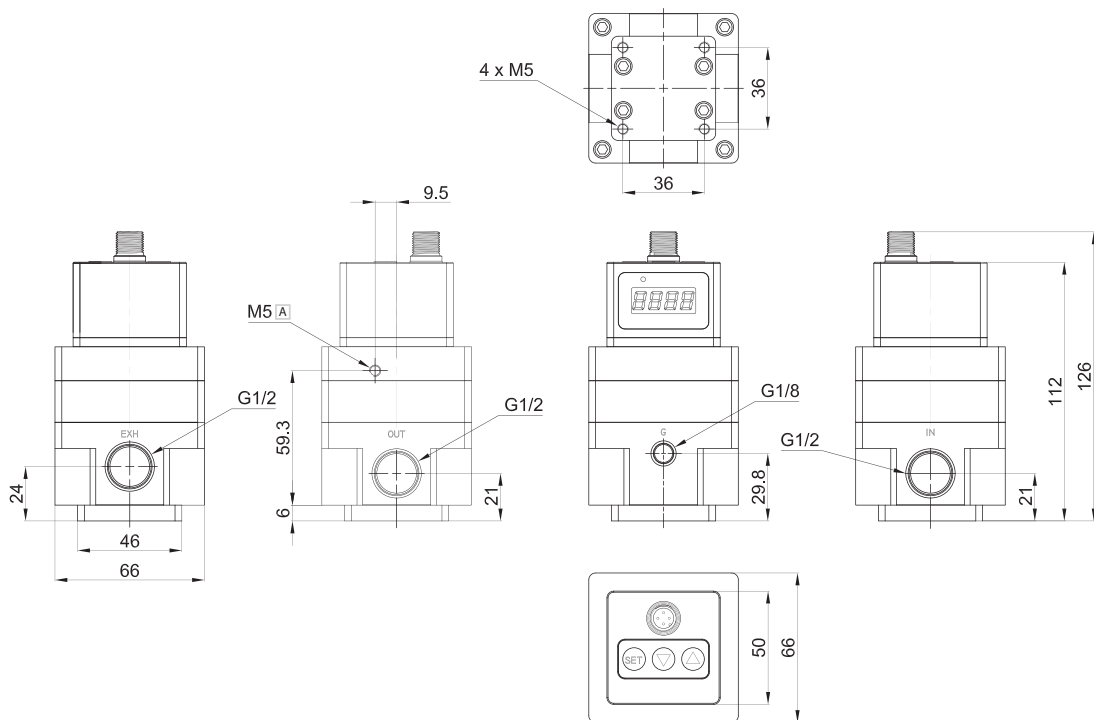
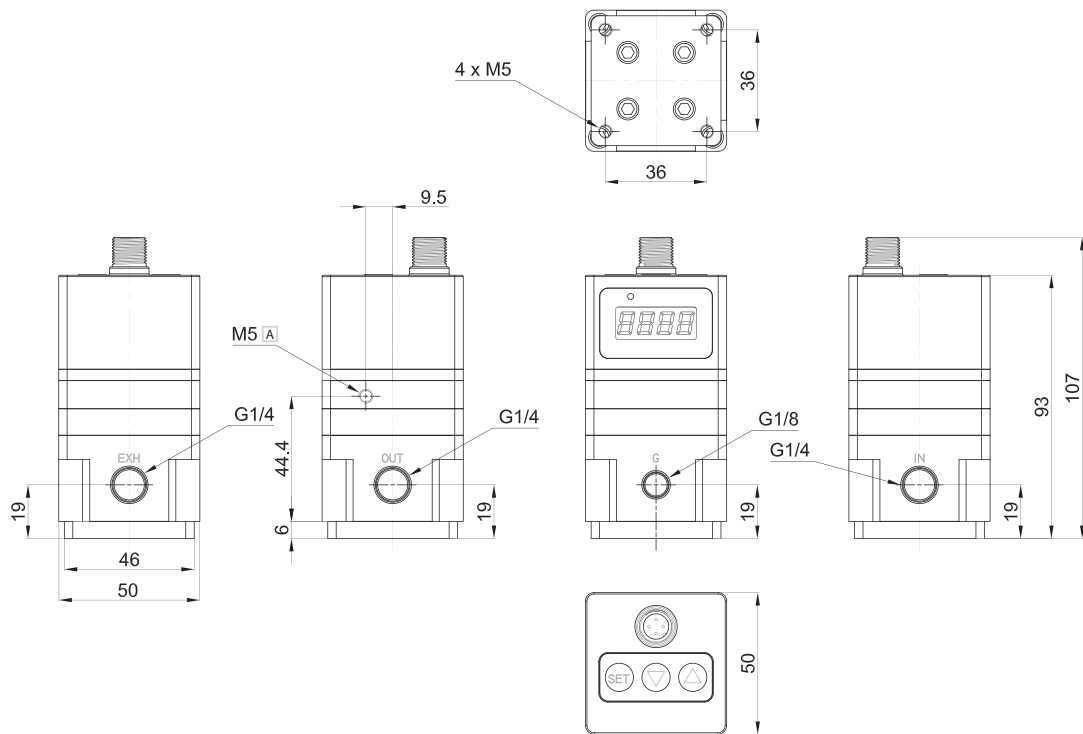
Setting pressure 4 bar



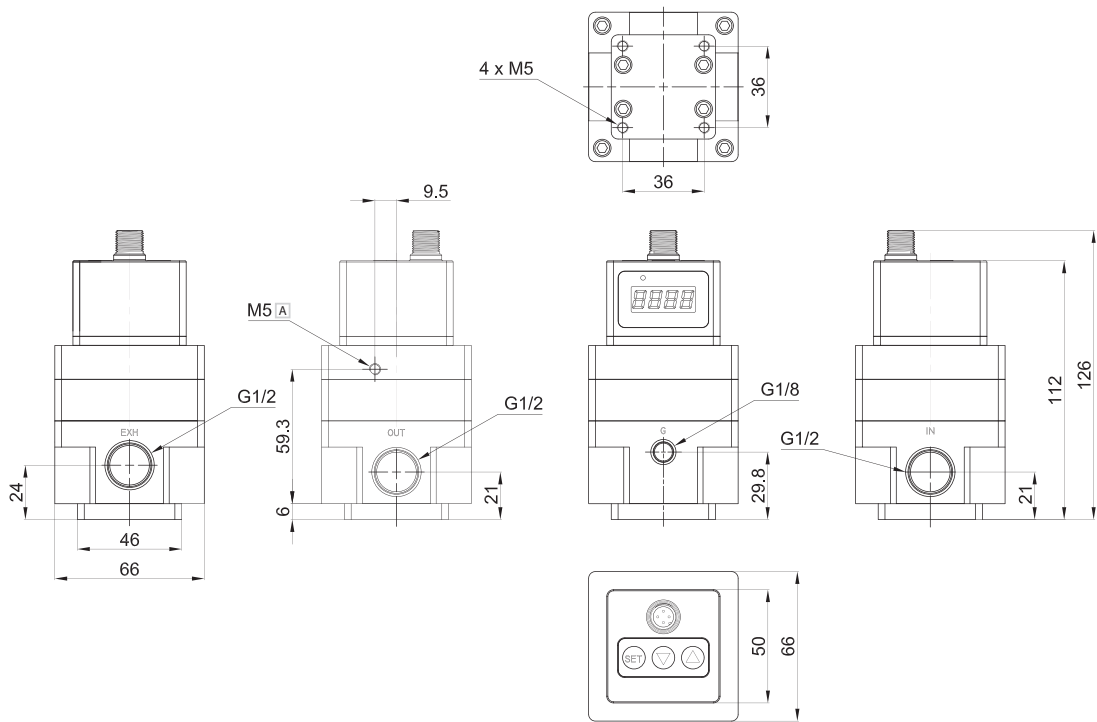
HZRE3106G

A=exhaust



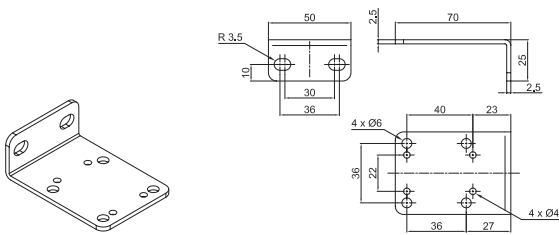
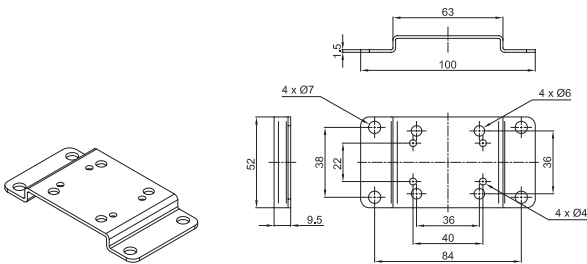


A= exhaust



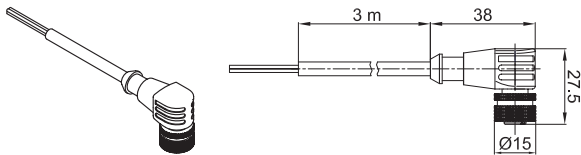
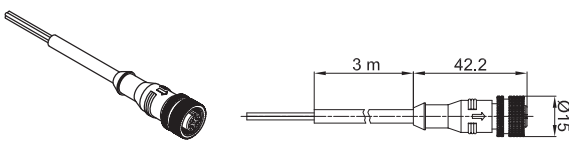
HZRE30300 Horizontal bracket

HZRE30310 Wall bracket



HZREM12L03D M12 in-line connector 3 m cable

HZREM12L03L M12 90° connector 3 m cable



kit to match FRL EVO



Y504100000000



Y504200000000

Code		G
Y504 100 000 000	FRL 1	1/4
Y504 200 000 000	FRL 2	1/2

