

ZEA BIO - data sheet

		lve type	DN	Rp	Diff.pressure ∆P		[bar]	Coil type							
	Val				[bar]					voltage AC				voltage DC	
TABLE 1					$\Delta \mathbf{P}_{\min}$	$\Delta \mathbf{P}_{max}$		230V		110\	/		24V	12V	
	ZEA-25 BIO 25				0	0,17	0,17	AC 230/2	/25 AC 110		25	AC-DC 24/25 AC-DC 24/25B		DC 12/25	
			25	1		0,30	0,30	AC 230/2		AC 110/25B				DC 12/25B	
	ZEA-40 BIO		40	1 1/2			0,25								
	ZEA-50 BIO		50	•	0	0,14	0,14	AC 230/5	50	AC 110/50		AC-DC 24/50		DC 12/50	
			50	2		0,20	0,20	AC 230/6	65						
	76 4				0	0,14	0,14	AC 230/5	50						
	ZEA-50k BIO*		50			0,20	0,20	AC 230/6	65						
	ZEA-65k BIO*		65		0 0,25		0,25	AC 230/8	30	AC 110/80		AC-I	DC 24/80	DC 12/80	
	ZEA-80k BIO*		80		0	0,11	0,11	AC 220/	20/100	AC 110/100				DC 12/100	
	ZEA-	100k BIO*	100		0 0,1		0,11	AC 230/100		AC 110/100		AC-DC 24/100		DC 12/100	
	Type	ZEA-25		WE	<mark>IGHT (kg</mark> ZEA-40 BI	-	ZEA-50) BIO	ZEA	-50k BIO	ZEA-6	65k BIO	ZEA-80k BIO	ZEA-100k BIO	
					Ided connection valves				flanged connection va				alves [PN16, 01, B]		
DN		1			1 1/2		2			50 65		80	100		
Rp		156			224			232							
A		166			248		255			268 3		314 360		373	
A *		28			48		40			292 366		412	426		
В		170	170		239		254			78 83		83	94	103	
C ⁽¹⁾		190			273		28	288				323	344	349	
C*		79			112		142			287		888	409	414	
E		115		_	178		193		165		185		200	222	
	-		95/102 ⁽²⁾		110		110		230		270		310	350	
	L	95/102	(=)		11		11		110		132		132	144	
	Ρ	11								4.4			4.4		
We					6,00		6,7	5		11 7,75		11 7,80	11 24,65	11 28,55	

- plugs G1/8 or G1/4 (position 28) with gaskets
- Note that standard version does not have holes for above plugs.
- counterflages with connector pipe (for valves with flanged connection)
- stub pipe for inlet and/or outlet pressure measurment (Ø9, G1/8 lub G1/4 together with gaskets)
 used alternatively with plugs
 as pressure senser (at the inlet apr/or outlet of a value)
- gas pressure sensor (at the inlet anr/or outlet of a valve) Pressure sensors are assembled as marked on figure, position 28
- ORDERING

Necessary information for ZEABIO valve order:

- valve type and pressure P_{max}
- control voltage
- possible option and accessories

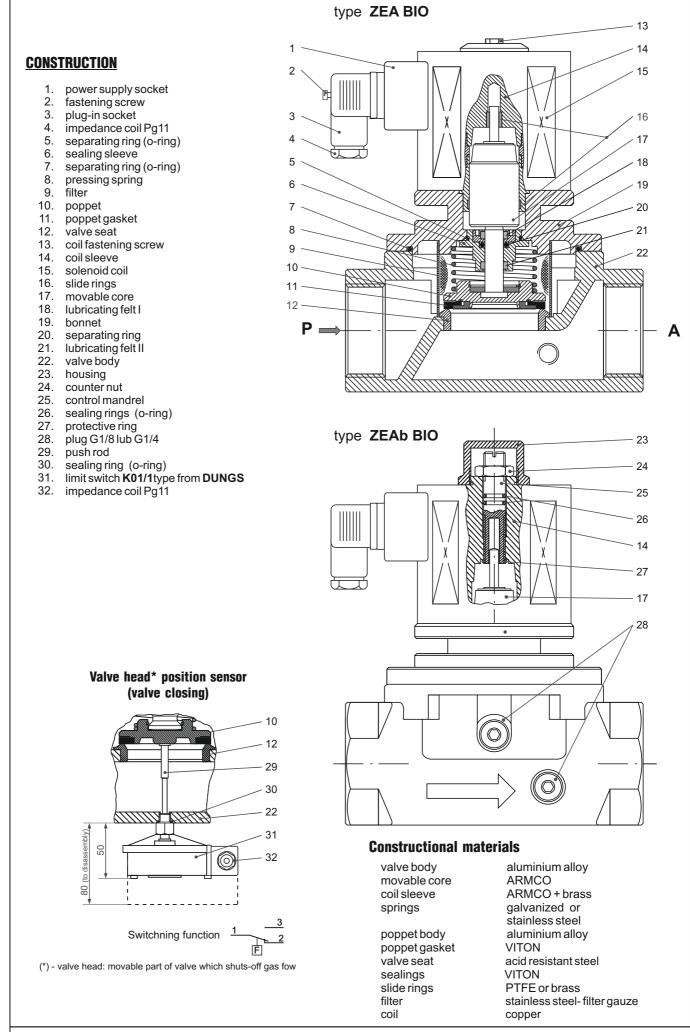
- valve head position sensor (position 31) from DUNGS type K01/1
- plug with voltage presence indicator colour

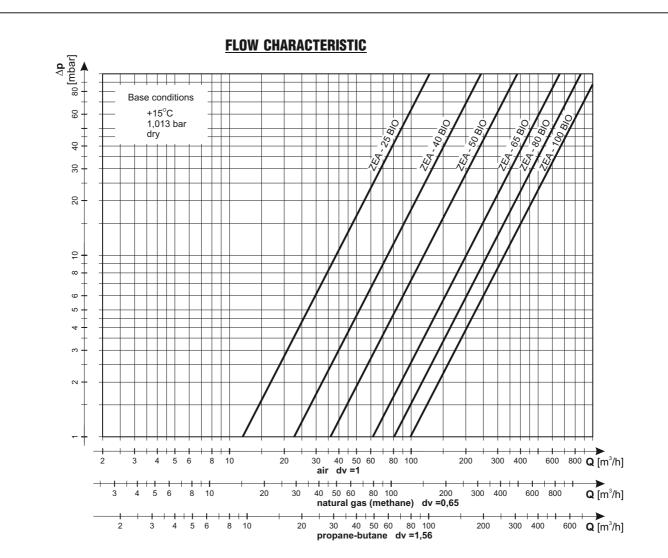
Example: ZEA-50 BIO/0,3bar/24V DC it means: valve with threaded

it means: valve with threaded connection Dn50 maximum operating pressure 0,2bar control voltage DC 24V standard design

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INSTALLATION - basic assembly requirments:

- mounting to installation according to the gas flow arrow on the valve
- it is necessary to anticipate and take into account the pressure surplus that may occure at the valve inlet in case of failure to components in the system located upstream the valve
- mounting position is coil upwards. Accebtable deviation from vertical position cannot exceed 90°.
- direct contact of the valve with wall, ground, etc. is unacceptable; keep the minimum distance - about 1 cm
- location of the valve should be selected so as to ensure free access needed to its operation (for persons authorized to do so)
- attention should be paid so that after valve installation there is enough space left (maneuvering area) for ease coil replacemet
- ensure proper rigidity of the installation in the place where the valve is installed (Group 1 valve). This can be achieved by using rigid supports to the bending and torsional stress exerted by the piping system in the installation (eg due to the lack of alignment of the of the pipeline at the inlet and outlet of the valve).
- maximum moments: turning $T_{\mbox{\tiny MAX}}$ and bending $M_{\mbox{\tiny MAX}}$ cannot exceed the values given in TABLE 2

- ensure that valve is mounted rigidly so as to avoid any vibration
- in valves with threaded connections pipe should be screw in that way so that 10 second torque not exceed values of $T_{_{\rm MAX}}$ given in TABLE 2
- use appropriate thread sealant to esure tightness of the connections
- tighten the flange screws crosswise Attention: maximum torque of 50 Nm (~5 kGm)
- a strainer which protects from mechanical impurities should be fitted upstream the valve in the gas installation. Maximum dimension of strainer openings should not exceed 0,2 mm
- valve's assembly should be finalized with carrying out an leaktightness test of installation including **ZEA** valve using compressed air or inert gas (oxygen use is forbidden) Test pressure cannot exceed $P_s = 5 bar$
- during operation valve
 - cannot be exposed to dilatation nor dynamic forces
 - need to have ensured correct operating temperature (ambient and media)
 - should be protected against strong dustiness and water flooding

5		DN	25	40	50	65	80	100
ABLE		Rp	1	1 1/2	2	2 1/2		
		T _{MAX} [Nm] t ≤10s	125	200	250	325	400	400
–	$T_{MAX} = \overline{M}_{MAX} = T_{MAX} = \overline{M}_{MAX}$	M _{MAX} [Nm] t ≤10s	160	350	520	630	780	950

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