

				Diff.pressure ΔP		Purv	Coil type					
	Valve type	DN	Rp	[b	ar]	IVIAA		voltage AC(50Hz)		voltag	ge DC	
~				$\Delta \mathbf{P}_{min}$	$\Delta \mathbf{P}_{max}$	[bar]	230V	110V	24V	24V	12V	
ш						valves	with threaded conr	nection				
ABL	ZEG-20	20	3/4	0	2	2	AC 220/25B	AC 110/25B	AC 24/25B	DC 24/25B	DC 12/25B	
	ZEG-25	25	1	0	2	2	AC 230/25B					
-	ZEG-32	32	1 1/4	0	2	2	AC 230/32	AC 110/32	AC 24/32	DC 24/32	DC 12/32	
	ZEG-40	40	1 1/2	0	2	2	AC 220/65	AC 110/50	AC 24/50	DC 24/50	DC 12/50	
	ZEG-50	50	2	0	2	2	AC 230/05	AC 110/50	AC 24/50	DC 24/50	DC 12/50	
<u>OVERALL DIMENSIONS (mm), WEIGHT (kg)</u>												

Туре	ZEG-20	ZEG-25	ZEG-32	ZEG-40	ZEG-50
DN	20	25	32	40	50
Rp	3/4	1	1 1/4	1 1/2	2
Α	154	154	189	214	227
В	56	56	70	74	80
C ⁽¹⁾	158	158	197	229	236
E	75	75	100	125	150
L	100	100	145	156	190
Р	95	95	102	110	110
Pg	11	11	11	11	11
Weight	2,20	2,10	4,40	6,00	6,60

1

2

3





(1) dimension updated to allow coil maintenance

CONSTRUCTION

- 1. power supply socket
- 2. plug 3. plug
 - plug fastening screw
- 4. plug G1/8 or G1/4
- 5. equalization channel
- 6. poppet body
- 7. pilot valve sealing ring
- 8. coil fastening screw
- 9. coil sleeve
- 10. solenoid coil
- 11. pull spring
- 12. slide rings
- 13. movable core
- 14. valve body
- 15. seating ring
- 16. link mandrel
- 17. pilot valve channel
- 18. main valve seat
- 19. membrane
- 20. poppet mandrel
- 21. pressing spring
- 22. bonnet

Constructional materials

- valve body movable core coil sleeve springs poppet body elements membrane valve seat pilot valve seat sealings slide rings solenoid coil
- aluminium alloy ARMCO ARMCO + brass stainless steel brass NBR (nitrile-butadiene rubber) brass brass NBR (nitrile-butadiene rubber) PTFE copper

ACCESSORIES - options (available upon request)

- design for other control voltages
- plugs G1/8 or G1/4 (position. 4) with gasket
 Note that standard version does not have holes for above plugs.
- stub pipe for inlet pressure measurment (∅9, G1/8 or G1/4) together with gasket
- inlet pressure sensors from DUNGS
 type GW...A4; GW...A6

Pressure sensors are assembled in points as marked on figure, position 4

plug with voltage presence indicator





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

	۲~~~		ĸ	DN	20	25	32	40	50
TABLE 2]↓\ į		Rp	3/4	1	1 1/4	1 1/2	2
		1/1	Т _{мах} [Nm]	t ≤10s	85	125	160	200	250
`		T _{MAX} =	M _{MAX} [Nm]	t ≤10s	90	160	260	350	520

ORDERING

Necessary information for ZEG valve order:

- valve type
- control voltage
- possible option and accessories

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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
- 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 ZEG valve using compressed air or inert gas (oxygen use is forbidden). Test pressure $P_s \leq 5 \ bar$
- during operation valve
 - cannot be exposed to dilatation nor dynamic forces
 - need to have ensured correct operating temperature
 - should be protected against strong dustiness and water flooding

Example: ZEG-20/24V DC it means: valve with threaded connection nominal diameter DN20

direct control voltage DC 24V

Modification without prior notice of technical specification reserved

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ZEG - data sheet

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