

Technical data sheet

Type WKE2

Membrane solenoid valves

Applications and special features



- Membrane solenoid valve, indirect action (pilot) normally closed, 2 ways.
- Absorbed power : 9 W CA/15 W CC.
- Viscosity : max 50cSt
- Ambient temperature : max. +40°C
- Protection : IP 65 with connector
- Solenoid valve delivered with standard coil 220/50 Hz ref 5290 or 24V/50Hz ref 5292 or 24VDC ref 5296, and with a connector.

Technical description

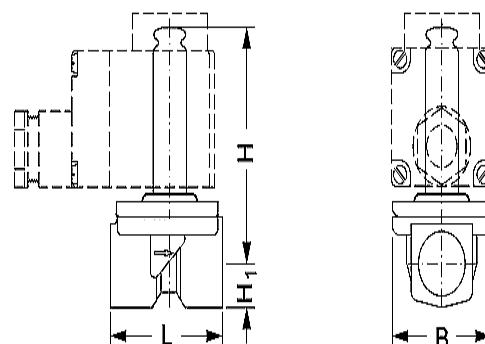
DN		220V/50Hz 9W	24V/50Hz 9W	24VDC 15W
"	mm			
3/8	10	149B 6765	149B 6768	149B 6771
1/2	10	149B 6766	149B 6769	149B 6772
3/4	18	149B 6767	149B 6770	149B 6773

Every technical data concerns the standard coils.
All our solenoid valves can be delivered ON DEMAND with a different coil.

- **Connection** : Female/female, BSP thread
- **Permissible operating pressure PFA - water-** (for supply, distribution and disposal of water) : See table
- **θ** : Mini. -30 °C
:Maxi. +100 °C
- **Mediums** : Water
- **Approvals** : WRAS (UK)

Overall dimensions

Connection FF "	Passage	B	H	H1	L	Weight
		mm	mm	mm	mm	kg
3/8	10	48	77	13	51,5	0,45
1/2	10	48	77	13	51,5	0,45
3/4	18	62	83	18	90	0,81



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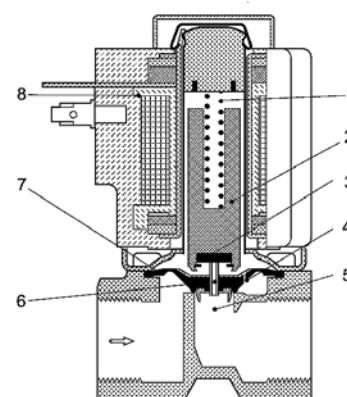
Working principle

Coil voltage disconnected (closed):

When there is no voltage to the coil (8), the valve plate (3) is pressed down against the pilot orifice (6) by the armature spring (1). The pressure across the diaphragm (7) is built up via the equalising orifice (4). The diaphragm closes the main orifice (5) as soon as the pressure across the diaphragm is equivalent to the inlet pressure. The valve will be closed for as long as the voltage to the coil is disconnected.

Coil voltage connected (open):

When voltage is applied to the coil, the pilot orifice (6) is opened. As the pilot orifice is larger than the equalising orifice (4), the pressure across the diaphragm (7) drops and therefore it is lifted clear of the main orifice (5). The valve is now open for unimpeded flow and will be open for as long as the minimum differential pressure across the valve is maintained, and for as long as there is voltage to the coil.



Spare parts list and materials

• Valve body	: Brass N° 2.0402
• Armature	: Stainless steel N° 1.4105/AISI 430FR
• Spring	: Inox 1.4310/AISI 301
• Valve plate	: EPDM
• Diaphragm	: EPDM

Working principle

DN "	Maxi. pressure bar	Differential pressure - bar			Time to open m/s	Time to close m/s	Kv m3/h	Class
		Mini	Maxi					
			Coil 9W ca	Coil 15W cc				
3/8	25	0,1	20	5	50	300	1,5	3,3
1/2								
3/4	10	0,3	10	2,3	200	500	6	

* The indicated times concern the medium water - The exact time depends of pressure conditions.

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