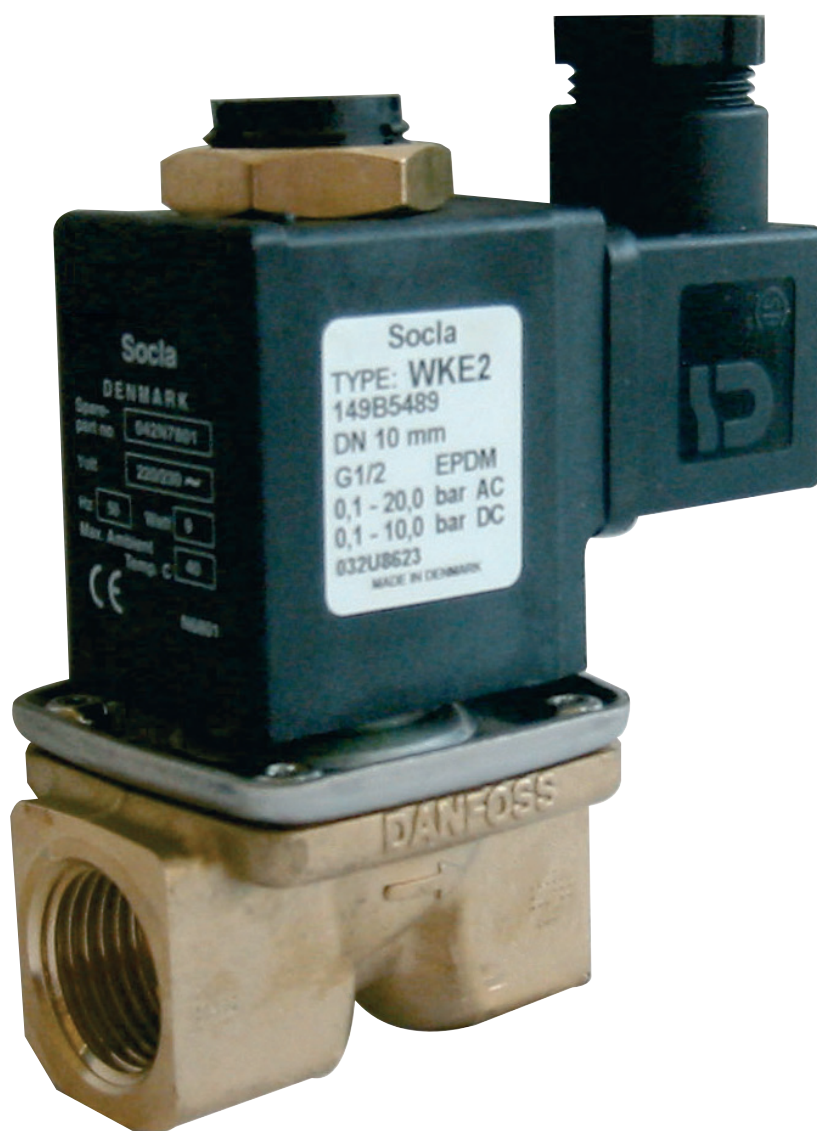


# WKE2

Membrane solenoid valve indirect action

## Technical Data Sheet



## Description

Membrane solenoid valve, indirect action (pilot) normally closed, 2 way. These solenoid valves are developed for OEM applications requiring strength and moderate flow.

- Absorbed power : see table below. Other power : consult us
- 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



## WKE2

Membrane solenoid valve indirect action

DN		220V/50Hz 12W	24V/50Hz 9,5W	24VDC 14W	Weight Kg
"	mm				
3/8	10	<b>149B6765</b>	<b>149B6768</b>	<b>149B6771</b>	0,45
1/2	15	<b>149B6766</b>	<b>149B6769</b>	<b>149B6772</b>	0,45
3/4	20	<b>149B6767</b>	<b>149B6770</b>	<b>149B6773</b>	0,81

Every technical data concerns the standard coils.

All our solenoid valves can be delivered ON DEMAND with a different coil.

### Technical features

Operating temperature	-30 °C to 100 °C
Permissible operating pressure (PFA) in water	See table p.4
Connection	Female/female, BSP thread
Mediums	Water

### Nomenclature and materials

Designation	Materials	ANSI
Body	Brass N° 2.0402	
Armature	Stainless steel N° 1.4105	AISI 430FR
Armature stack	Stainless steel N°1.4306	AISI 304L
Spring	Stainless steel N° 1.4310	AISI 301
O-ring	EPDM	
Membrane	EPDM	

## Approvals

**ACS WRAS\*** (DN15 and 20)

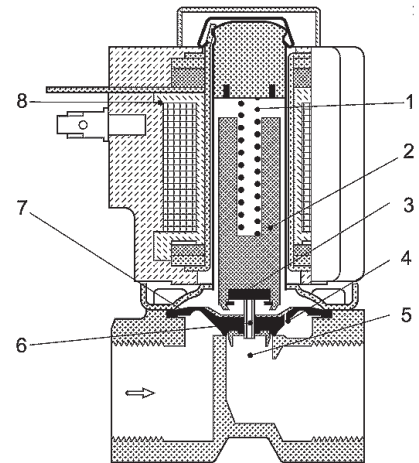
## Fonctionnement

### 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.



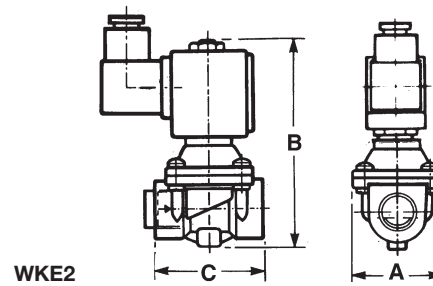
## Operation

DN	Maxi pressure bar	Differential pressure in Bar			Time to open m/s*	Time to open m/s*	Kv m <sup>3</sup> /h	Class
		Mini	Maxi					
				Coil 9W ca	Coil 15W cc			
3/8	25	0,1	20	5	50	300	1,5	4.3
1/2	25	0,1	20	5	50	300	1,5	4.3
3/4	10	0,3	10	2,3	200	500	6	4.3

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

## Sizing

Connection FF	Passage	A	B	C
"	mm	mm	mm	mm
3/8	10	48	94	51,5
1/2	10	48	94	51,5
3/4	18	60	109	90



The descriptions and photographs contained in this product specification sheet are supplied by way of information only and are not binding.

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**Socla sas**

365 rue du Lieutenant Putier • 71530 Virey-Le-Grand • France

Tel. +33 03 85 97 42 00 • Fax +33 03 85 97 42 42

[contact@wattswater.com](mailto:contact@wattswater.com) • [www.socla.com](http://www.socla.com)

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