

Technical specifications

General description	The Water Valves are diaphragm operated valves and require a minimum differential pressure to operate	
Applications	They are used for general applications with high flow rates and media such as water, hot water and steam , provided they are compatible with the component materials. Typical applications can be found in: washing machine, car wash installations, cooling of machine tools, Hydrocleaners, autoclaves, irrigation systems etc	
Temperatures	Admissible ambient temperatures: -10 to +50°C Admissible fluid temperature: see table	
Material specifications	Valve body	OT58 UNI 5705 Forged Brass
	Plunger	AISI 430F St. Steel
	Spring	AISI 302 St. Steel
	Seals	NBR (Buna N) – EPDM
	Shading ring	Copper
Installation	The valves can be mounted in any position. It is however recommended to install them with the coil in vertical position above the body.	
Electrical parts	Detailed description: see page 7	

Coil	Protection class / Temperature class	Power (hot)		Order No. Coil	Lucifer. No. Coil	Connection	Housing	Ambient temp. deg C		Fig.
		DC	AC					Min	Max	
32 mm (Std)	Class F	9 W	8W	DZ02	481865	For DIN plug	N1	-40	50	1
	Class F	9 W	8 W	DZ03	482725	With DIN plug	N1	-40	50	1
	Class H	9 W	8 W	DZ04	492453	For DIN plug	N1	-40	80	1
	Class H	9 W	8 W	DZ05	492726	With DIN plug	N1	-40	80	1
	Class F, 50/60 Hz	-	9 W	DZ06	483510	For DIN plug	N1	-40	50	1
	Class F, 50/60 Hz	-	9 W	DZ07	482635	With DIN plug	N1	-40	50	1
	EEx m II T4	9 W	8 W	HZ05	492670	With 3000mm cable	00	-40	40	6
	Class H	14 W	14 W	DZ08	492425	For DIN plug	N1	-40	80	1
	Class H	14 W	14 W	DZ09	492727	With DIN plug	N1	-40	80	1
50 mm (Std)	Class F	8 W	8 W	EZ01	481000	Screw-terminals	E0	-40	50	3
	Class H	8 W	8 W	EZ02	485100	Screw-terminals	E0	-40	80	3
	Class F, IP 67, Pg 11	8 W	8 W	EZ01	481000	Screw-terminals	G1	-40	50	4
	Class F, IP 67, Pg 13.5	8 W	8 W	EZ01	481000	Screw-terminals	G2	-40	50	4
	EEx m II T4/T5	9 W	8 W	VZ01	492070	With 1500mm cable	00	-40	40/65	8
	EEx e II T4	8 W	8 W	HZ06	483371	For cable connection	00	-40	65	5
	EEx me II T3/T4	11 W	9 W	VZ03	492190	For cable connection	00	-40	75/40	7

Numbering / ordering system

Normally a complete valve is composed of 3 elements : the **valve** itself, the **housing** and the **coil**. For integrated coil/housings, the housing reference indicates the fixing nut and nameplate.

Therefore please specify:

Valve reference - Housing - Coil - Voltage

Ordering example: 7321BBG3TN00 – N1 – DZ02 – 220-230/50

Important note: each reference may also be ordered separately (for replacement, spare parts)

ELECTRICAL PARTS DESCRIPTION

1. Standard coil N1- DZ02
(DC 9W, AC 8W) encapsulated in synthetic material. Connection for 2 P + E DIN 43650 A plug. Degree of protection IP 65.

2. High Temperature coil N1-DZ08
(14W DC, AC) or N1-DZ04 (9W DC, AC) encapsulated in synthetic material. Connection for 2 P + E DIN 43650 A plug. Degree of protection IP 65.

3. Metallic coil housing E0 with standard coil EZ01 (8W), high temperature EZ02 (8W) coils, encapsulated in synthetic material with screw terminals. Ground terminal on housing subplate. Degree of protection IP 10 or IP 44 when equipped with Pg 9 cable gland.

4. Waterproof coil housing G1 with standard coil EZ01 (8W) encapsulated in synthetic material. Housing internally and externally fitted with an earth screw connection. Cable connection with outer diameter 4-11 mm through rubber cable gland Pg 11/13,5. Degree of protection IP 67.

5. Electrical part 00-HZ06 with "increased safety" EEx e II T4 CENELEC rating. Certification from LCIE. Degree of protection IP 67. This electrical part includes a standard coil type EZ01(8 W).

6. Explosion-proof EEx m II T4 (IP 65) coil/housing assembly 00-HZ05. Coil and magnetic circuit encapsulated in synthetic material. The complete housing is supplied with an encapsulated connection cable (3 x 0.75 mm² section), cable length is 3000 mm with cable gland Pg 11. Power consumption: 8W AC, 9W DC.

7. Explosion-proof EEx me II T4 coil/housing assembly 00-VZ03. Glassfiber reinforced synthetic housing with encapsulated solenoid coil, rectifier, fuse and protection into epoxy resin. Degree of protection IP 65. Cable connection through cable gland Pg 13,5 (DIN 46320). Power consumption AC 11 W, DC 9 W.

8. Explosion-proof EEx m II T4 coil/housing assembly 00-VZ01. Epoxy coated steel housing with encapsulated solenoid coil, rectifier, fuse and protection into epoxy resin. Degree of protection IP 67. The complete housing is supplied with an encapsulated connection cable consisting of three wires of each 1.5 mm² sectional area, cable length is 1500 mm with cable gland Pg 11. Power consumption AC 8 W, DC 8 W.

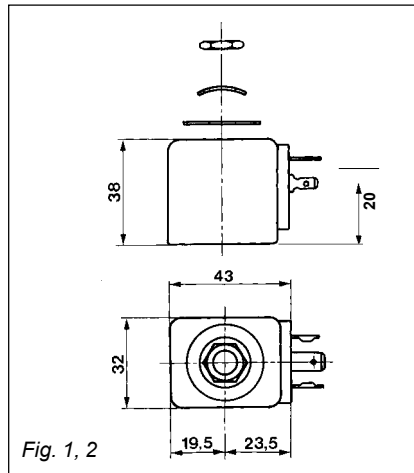


Fig. 1, 2

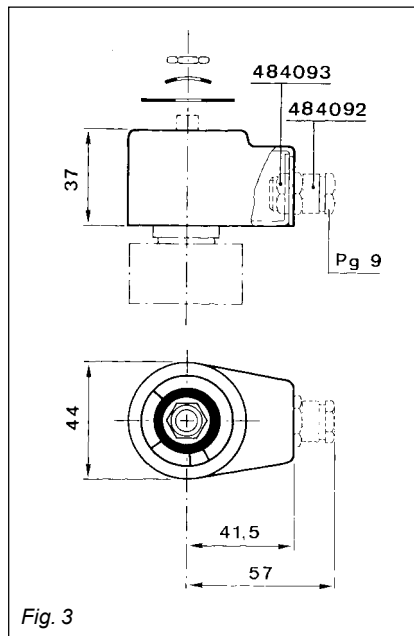


Fig. 3

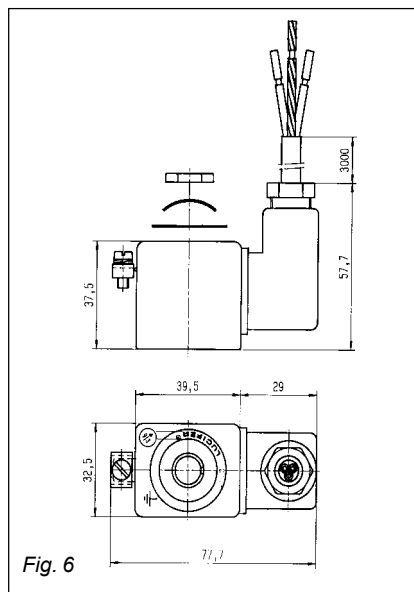


Fig. 6

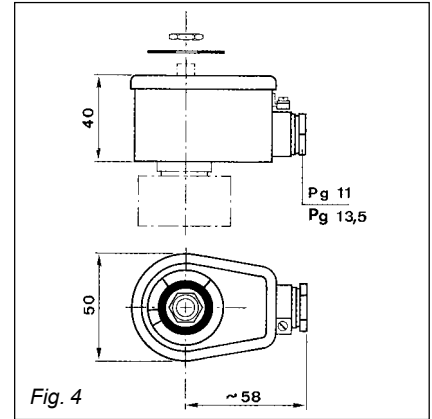


Fig. 4

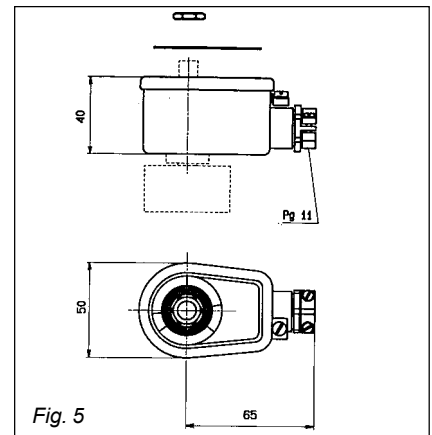


Fig. 5

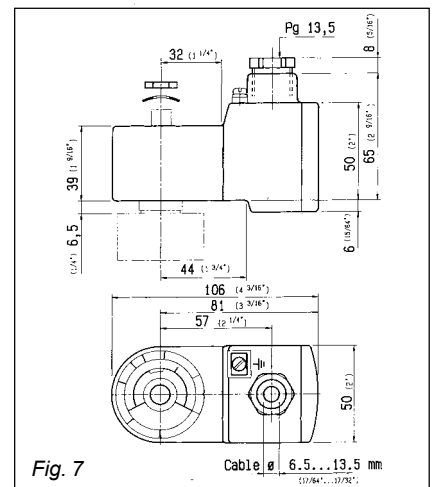


Fig. 7

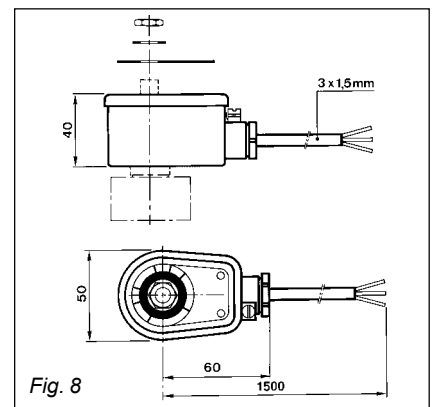


Fig. 8