

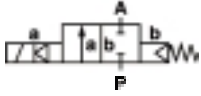
2/2 & 3/2 Solenoid operated valves

Buschjost 85700 / 85710 Series

Solenoid actuated, with forced lifting

8 to 50 mm orifice (ND)

2/2, NC, G $\frac{1}{4}$ to G $\frac{1}{2}$ / $\frac{1}{4}$ NPT to 2 NPT



High flow rate

For robust industry solutions

Damped operation

Suitable for vacuum

For systems with low or discontinuous pressure

Valve operates without pressure differential

Stainless steel piston

Solenoid interchangeable without tools (Click-on®) to G1

Technical data

Medium:

Neutral gases and liquid fluids

Viscosity:

With gases and liquids up to 40 mm²/s (cSt)

Flow direction:

Fixed

Mounting:

Optional, but preferably with solenoid facing vertically upwards

Fluid temperature:

-10°C to max. +90°C

Ambient temperature:

-10°C to max. +50°C

Consult our Technical Service for use below +2°C

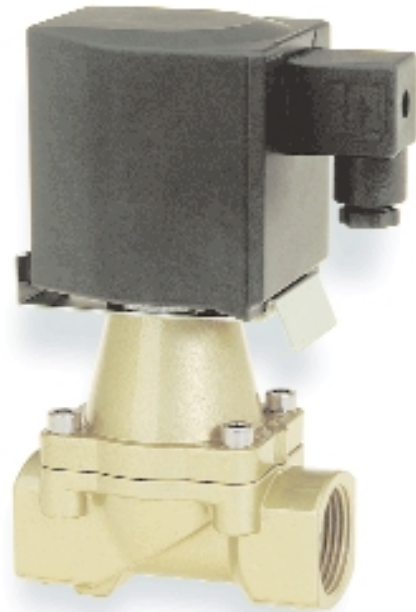
Materials

Body: brass

Seat seal: NBR (Perbunan)

Internal parts: stainless steels, PTFE/carbon

For contaminated fluids installation of an upstream filter is recommended.



Orifice (mm)	Port size	Operating pressure (bar)	kv value m ³ /h*	Total weight (kg)	Model
8	G 1/4	0 ... 25	2,2	2,40	857000xxxx*****
10	G 3/8	0 ... 25	3,4	2,40	857010xxxx*****
12	G 1/2	0 ... 25	4,4	2,50	857020xxxx*****
20	G 3/4	0 ... 25	7,0	2,70	857030xxxx*****
25	G 1	0 ... 25	10,5	3,10	857040xxxx*****
32	G 1 1/4	0 ... 25	25,0	5,60	857050xxxx*****
40	G 1 1/2	0 ... 25	27,0	5,40	857060xxxx*****
50	G 2	0 ... 25	43,0	6,80	857070xxxx*****
8	1/4 NPT	0 ... 25	2,2	2,40	857100xxxx*****
10	3/8 NPT	0 ... 25	3,4	2,40	857110xxxx*****
12	1/2 NPT	0 ... 25	4,4	2,50	857120xxxx*****
20	3/4 NPT	0 ... 25	7,0	2,70	857130xxxx*****
25	1 NPT	0 ... 25	10,5	3,10	857140xxxx*****
32	1 1/4 NPT	0 ... 25	25,0	5,60	857150xxxx*****
40	1 1/2 NPT	0 ... 25	27,0	5,40	857160xxxx*****
50	2 NPT	0 ... 25	43,0	6,80	857170xxxx*****

xxxx Insert solenoid codes from table below. ***** Insert voltage codes from table below

* Cv (US) ≈ kv x 1,2

Options selector

857XX ★★ ★★★★★

Alternative versions	Substitute	Voltage	Substitute
Normally open, installation position: solenoid vertically upwards; only for solenoid 8400	01	24 V d.c.	02400
Manual override	02	205 V d.c.	20550
Seat seal material FPM, max. fluid temperature +110°C*	03	24 V a.c. 40 to 60 Hz	02449
Seat seal material PTFE, max. fluid temperature +110°C*, max. operating pressure 16 bar	06	110 V a.c. 40 to 60 Hz	11049
Seat seal material EPDM, max. fluid temperature +110°C	14	230 V a.c. 40 to 60 Hz	23049
Normally open, seat seal material FPM, max. fluid temperature +110°C*, installation position: Solenoid vertically upwards, only with solenoid 8400	17	a.c. version with built-in rectifier	
Max. operating pressure 40 bar	22	Solenoid	
Position indicator with 2 magnetic switches; only with solenoid 8400	23	d.c. (ND 8 to 25)	9402
Seat seal material FPM, with larger mounting holes in piston, e.g. for fuels and oils, max. viscosity 80 mm ² /s (cSt)	25	a.c. (ND 8 to 25)	9406
max. fluid temperature +110°C*	25	d.c. (ND 32 to 50)	8402
Low-temperature version; down to -20°C	28	a.c. (ND 32 to 50)	8406

EEX solenoids, categories 2 and 3, on request

* Up to +200°C fluid temperature with high-temperature solenoid

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Electrical details for solenoid operators

	Power consumption		Voltage		Category	Protection class	Temperatures °C		Electrical connection	kg	Solenoid drawing no.#	Circuit diagram#		Model
	24 V d.c. (W)	230 V a.c. (VA)	24 V d.c. (mA)	230 V a.c. (mA)			Fluid*	Ambient**				d.c.	a.c.	
	38	–	1583	–	–	IP 65	+110 max.	-25 ... +50	DIN EN 175301-803	1,40	25	1	–	9401
	–	42 VA/38 W	–	185	–	IP 65	+110 max.	-25 ... +50	DIN EN 175301-803	1,40	25	–	6	9404
	40	–	1667	–	–	IP 65	+110 max.	-25 ... +50	DIN EN 175301-803	1,70	18	1	–	8401
	–	45 VA/40 W	–	195	–	IP 65	+110 max.	-25 ... +50	DIN EN 175301-803	1,70	18	–	6	8404

* The maximum temperature depends on the valve type

** The maximum temperature may be higher, depending on the application.

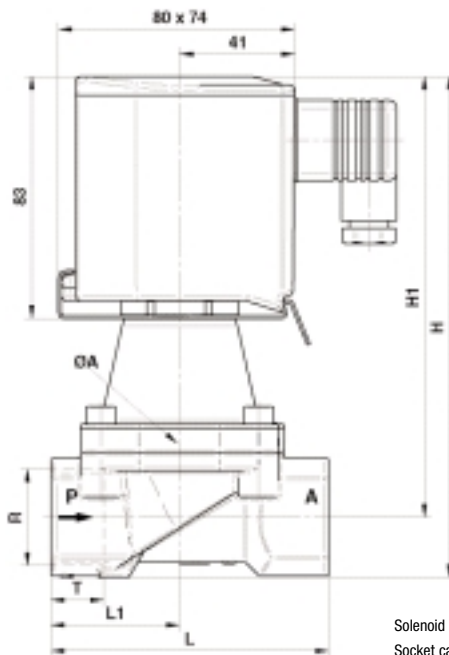
According to VDE 0580, 100% rated

Power consumption calculated with coil at +20°C, for d.c. coils at operating temperature, power consumption is up to 30% lower

Note: Restricted temperature range with explosion-proof solenoids

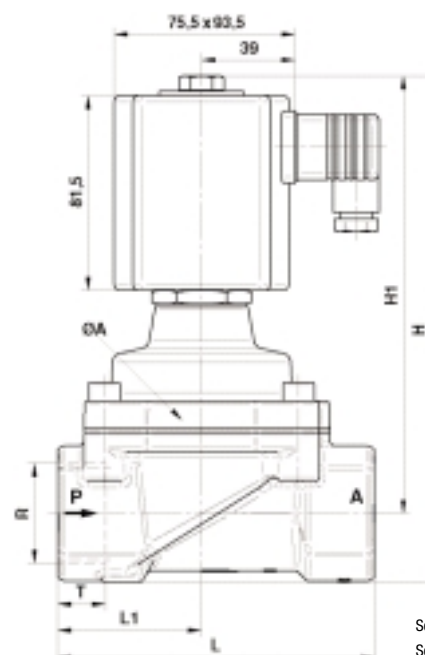
For solenoid dimensional drawings and circuit diagrams, see page 97

Up to G 1 or 1 NPT



Solenoid rotates 360°
Socket can be turned through 4 x 90°

From G 1¼ or 1¼ NPT



Solenoid rotates 360°
Socket can be turned through 4 x 90°

Model	Ø A	H	H1	L	L1	R	T
8570000.940x	44	152,0	140,5	60	27,5	G 1/4	12,0
8571000.940x	44	152,0	140,5	60	27,5	1/4 NPT	12,0
8570100.940x	44	152,0	140,5	60	27,5	G 3/8	12,0
8571100.940x	44	152,0	140,5	60	27,5	3/8 NPT	12,0
8570200.940x	44	154,5	140,5	67	31,0	G 1/2	14,0
8571200.940x	44	154,5	140,5	67	31,0	1/2 NPT	14,0
8570300.940x	50	162,0	146,5	80	36,5	G 3/4	16,0
8571300.940x	50	162,0	146,5	80	36,5	3/4 NPT	16,0
8570400.940x	62	183,0	162,0	95	44,0	G 1	18,0
8571400.940x	62	183,0	162,0	95	44,0	1 NPT	18,0
8570500.840x	92	212,5	183,5	132	60,0	G 1¼	20,0
8571500.840x	92	212,5	183,5	132	60,0	1¼ NPT	20,0
8570600.840x	92	212,5	183,5	132	60,0	G 1½	22,0
8571600.840x	92	212,5	183,5	132	60,0	1½ NPT	22,0
8570700.840x	109	226,5	192,0	160	74,0	G 2	24,0
8571700.840x	109	226,5	192,0	160	74,0	2 NPT	24,0