

BUSCHJOST 82590 SERIES

2/2 - way valves DN 8 ... DN 50

Click-on®

Solenoid interchangeable without tools



For slightly aggressive gases and liquids

Solenoid actuated, with forced lifting

Diaphragm valves

Internal thread G1/4 ... G2

Operating pressure 0 ... 10 / 16 bar

High flow rate

For robust industry applications

Damped operation

Suitable for vacuum

For systems with low or fluctuating pressure

Solenoid interchangeable without tools (**Click-on®**)

Valve operates without differential pressure

TECHNICAL DATA

Solenoid valve for air, water, oil and other neutral fluids

Switching function:

Normally closed

Flow direction:

Determined

Internal thread:

G1/4 ... G2

Operating pressure:

0 ... 10 / 16 bar

Temperature:

Fluid: -10°C ... max. +90°C

Ambient: -10°C ... max. +50°C

Mounting position:

Optional, preferably solenoid vertical on top

MATERIALS

Body: Stainless steel

Seat seal: NBR-K (flexible at low temperatures)

Internal parts: Stainless steel, PVDF

Alternative models - NPTF Ports

For contaminated fluids the use of a strainer upstream of the valve is recommended.

Symbol	Port size	DN mm	kv-value m³/h	MODELS for DC voltage*	Operating pressure bar			
					NBR-K	Normally open	FPM +110°C	EPDM +110°C
					00	01	03	14
	G1/4	8	1.9	82590XX.9151.00000	0 - 10	0 - 10	0 - 10	0 - 10
	G3/8	10	3.0	82591XX.9151.00000	0 - 10	0 - 10	0 - 10	0 - 10
	G1/2	12	3.4	82592XX.9151.00000	0 - 10	0 - 10	0 - 10	0 - 10
	G3/4	20	5.8	82593XX.9151.00000	0 - 10	0 - 10	0 - 10	0 - 10
	G1	25	8.0	82594XX.9151.00000	0 - 10	0 - 10	0 - 10	0 - 10
	G1 1/4	32	23.0	82595XX.9401.00000	0 - 16	0 - 16**	0 - 16	0 - 16
	G1 1/2	40	25.0	82596XX.9401.00000	0 - 16	0 - 16**	0 - 16	0 - 16
	G2	50	41.0	82597XX.9401.00000	0 - 16	0 - 16**	0 - 16	0 - 16

* For orders please state voltage and frequency, e.g.: 8259000.9154.23049 for 230V 40-60Hz (AC with rectifier plug only, included) or 8259000.9151.02400 for 24V DC

** With solenoid DC 8401 / AC 8404

For further information



www.norgren.com/info/en3-244

Solenoid 9151 / 9154; 9401 / 9404; 8401/8404 (standard voltages)

DC	40Hz	AC	60Hz
24V	24V	–	–
–	110V	120V	–
–	230V	220V	–

Design according to DIN VDE 0580

Voltage range +/-10%, duty cycle 100%

Protection class according to EN 60529: IP65

Mounting bracket*

Content: 1 stainless steel mounting bracket and 2 screws

Port size	Part number
G1/4, G3/8, G1/2	1258986
G3/4	1258991
G1	1258996
G1 1/4, G1 1/2	1259005
G2	1259007

* For image of valve with mounting bracket, see 82400 series (page 3-246)

DIMENSIONS

Index	Description
101	Valve body
102	Valve cover
* 103	Diaphragm
104	Allen head screw
* 105	Pressure spring
400	Solenoid
701	Core tube
702	O-ring
* 704	Pressure spring
* 705	Plunger
706	Spring clip
* 707	O-ring
1400	Electrical connector

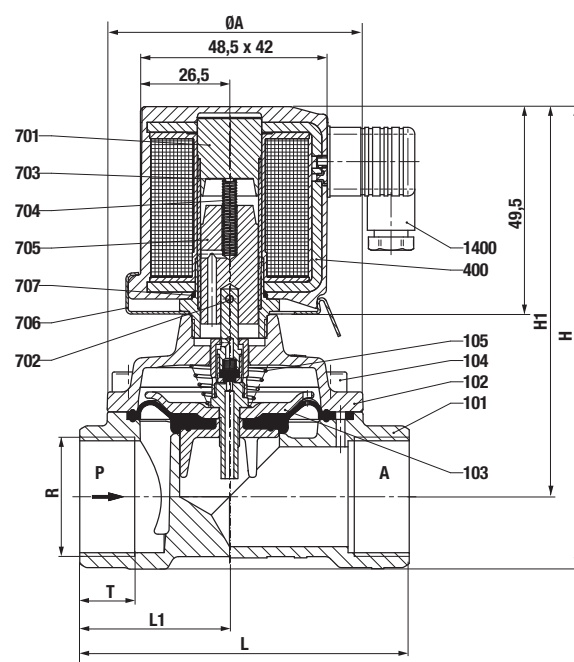
* A service kit consists of these individual parts.

Power consumption

Solenoid	DC	AC	Holding
915X	18W	20VA	20VA
940X	38W	42VA	42VA
840X	40W	45VA	45VA

The solenoids 94XX are UL listed and CSA approved (With the exception of solenoid 94XX up to 41V AC).

Electrical connector according to DIN EN 175301-803 (included) AC with rectifier plug only



Port size	Ø A mm	H mm	H1 mm	L mm	L1 mm	T mm
G1/4	44	104,0	92,5	60	27,5	12,0
G3/8	44	104,0	92,5	60	27,5	12,0
G1/2	44	108,0	94,5	67	31,0	14,0
G3/4	50	115,0	99,0	80	36,5	16,0
G1	62	124,0	103,5	95	44,0	18,0
G1 1/4	92	186,0	157,0	132	60,0	20,0
G1 1/2	92	186,0	157,0	132	60,0	22,0
G2	109	201,5	167,0	160	74,0	24,0

Further options (solenoids)

XXXXXX.9191 Solenoid in protection class  II 2 GD EEx me II T3 T 140°C