













## Solenoid Valves with Differential Pressure - Miniature Solenoid Valves

	Series	Material	Connection	Pressure	Temperature	Function	Page
	Microsol	PPS, PA, Stainless steel	Subbase	0 - 10 bar	+30 °C	2/2, 3/2	18

## Solenoid Valves with Differential Pressure

	Series	Material	Connection	Pressure	Temperature	Function	Page
	82400	Brass	G 1/4 - G 2	0.1 - 16 bar	+90 °C	2/2	104
	82470	Brass	G 1/4 - G 1	0.1 - 10 bar	+150 °C	2/2	106
	85300	Brass	G 1/4 - G 2	0.5 - 40 bar	+90 °C	2/2	108
	85320	Brass	G 1/4 - G 1	1.0 - 25 bar	+200 °C	2/2	112
	84070 <b>NEW</b>	PPO GF 30	G 1/2 - G 3/4	0.3 - 10.5 bar	+50 °C	2/2	114
	84080 <b>NEW</b>	PPO GF 30	NPT 1/2 - NPT 3/4	0.3 - 10.5 bar	+50 °C	2/2	114
	82730	Stainless steel	G 1/4 - G 2	0.1 - 16 bar	+90 °C	2/2	116
	83050	Grey cast iron	DN 20 - DN 50	1.0 - 16 bar	+80 °C	2/2	118
	83580	Grey cast iron	DN 65 - DN 150	0.5 - 10 bar	+90 °C	2/2	122
	84320	Grey cast iron	DN 15 - DN 100	0.5 - 16 bar	+90 °C	2/2	124
	84340	Cast steel	DN 15 - DN 100	0.5 - 40 bar	+90 °C	2/2	128

## 2/2-way valves DN 8 to DN 50

For neutral gases and liquids  
Indirectly solenoid actuated  
Diaphragm valves  
Internal thread G 1/4 to G 2 or 1/4" NPT to 2" NPT  
Operating pressure: 0.1 to 16 bar (see technical data)

### Description

Solenoid valve for air, water, and other neutral fluids  
Switching function: normally closed  
Flow direction: determined  
Differential pressure: 0.1 bar required (0.3 bar for EPDM)  
Fluid temperature: -10 °C up to max. +90 °C  
Ambient temperature: -10 °C up to max. +50 °C  
Mounting position: as required, preferably with solenoid vertical on top

### Material

Body: Brass  
Seat seal: NBR  
Internal parts: Stainless steel, PVDF

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

### Features

- High flow rate
- Damped operation
- Functional compact design
- Solenoid interchangeable without tools (Click-on®)
- Particularly suitable as a water valve according to DIN EN 60730-2-8

### Technical data

Connection size G	DN mm	kv-Value m³/h	Part number*	Operating pressure bar				
				NBR 00	Normally open 01	Manual override 02	FPM 110 °C 03	EPDM 110 °C 14
1/4	8	1.9	82400XX.9101.00000	0.1 - 16	0.1 - 16	0.1 - 16	0.1 - 16	0.3 - 16
3/8	10	3.0	82401XX.9101.00000	0.1 - 16	0.1 - 16	0.1 - 16	0.1 - 16	0.3 - 16
1/2	12	3.8	82402XX.9101.00000	0.1 - 16	0.1 - 16	0.1 - 16	0.1 - 16	0.3 - 16
3/4	20	6.0	82403XX.9101.00000	0.1 - 16	0.1 - 16	0.1 - 16	0.1 - 16	0.3 - 16
1	25	9.5	82404XX.9101.00000	0.1 - 16	0.1 - 16	0.1 - 16	0.1 - 16	0.3 - 16
1 1/4	32	23.0	82405XX.9101.00000	0.1 - 10	-	0.1 - 10	0.1 - 10	0.3 - 10
1 1/4	32	23.0	82405XX.9151.00000	0.1 - 16	0.1 - 16	0.1 - 16	0.1 - 16	0.3 - 16
1 1/2	40	25.0	82406XX.9101.00000	0.1 - 10	-	0.1 - 10	0.1 - 10	0.3 - 10
1 1/2	40	25.0	82406XX.9151.00000	0.1 - 16	0.1 - 16	0.1 - 16	0.1 - 16	0.3 - 16
2	50	41.0	82407XX.9101.00000	0.1 - 10	-	0.1 - 10	0.1 - 10	0.3 - 10
2	50	41.0	82407XX.9151.00000	0.1 - 16	0.1 - 16	0.1 - 16	0.1 - 16	0.3 - 16

\* For orders please state voltage and frequency, e.g.: 8240200.9101.23050 for 230V 50Hz or 8240200.9101.02400 for 24V DC

### Solenoid 9101 / 9151 (standard voltages)

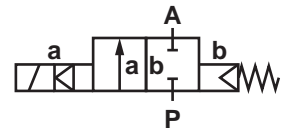
DC	AC	
	50Hz	60Hz
24V	24V	-
-	110V	120V
-	230V	220V

Design according to DIN VDE 0580  
Voltage range +/-10%, duty cycle 100%  
Protection class according to EN 60529: IP65

### Power consumption

Solenoid	DC	AC	
		Inrush	Holding
9101	8W	15VA	12VA
9151	18W	45VA	35VA

Electrical connector according to DIN EN 175301-803 (included)  
The solenoids are UL listed and CSA approved



## Mounting bracket

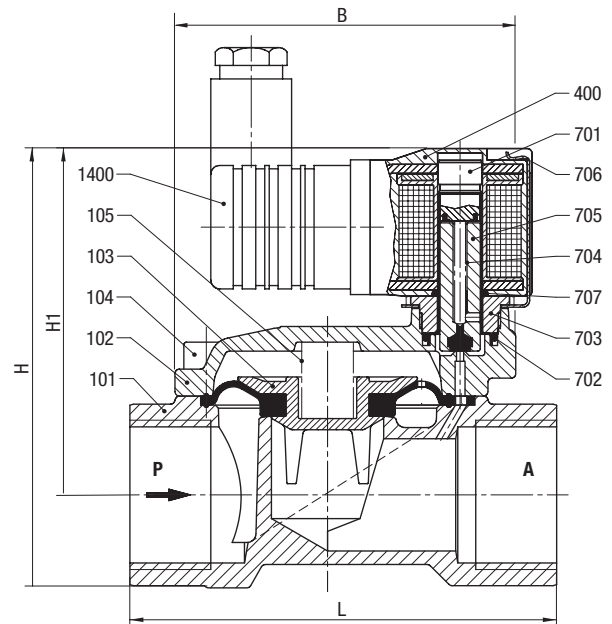
Connection size G	Part number
1/4, 3/8, 1/2	1258986
3/4	1258991
1	1258996
1 1/4, 1 1/2	1259005
2	1259007



## Drawing legend

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
703	Screw piece
*704	Pressure spring
*705	Plunger
706	Spring clip
*707	O-ring
1400	Electrical connector (enclosed)

\* A service kit consists of these individual parts.



Solenoid Valves with Differential Pressure

## With solenoid 9101

Connection size G	L mm	B mm	H mm	H1 mm
1/4	60	44	78.5	67.0
3/8	60	44	78.5	67.0
1/2	67	44	81.0	67.0
3/4	80	50	88.0	71.5
1	95	62	97.5	77.0
1 1/4	132	92	124.5	95.5
1 1/2	132	92	124.5	95.5
2	160	109	142.5	108.0

## With solenoid 9151

Connection size G	L mm	B mm	H mm	H1 mm
1 1/4	132	92	142	113
1 1/2	132	92	142	113
2	160	109	160	125.5

## Further options on request:

- Explosion protected version
- Flange connections
- Sealed core tube
- Pulse model in DC only
- Low power consumption 2W (only 24V DC)
- With NPT thread

## Further options (solenoids)

XXXXXX.9136 Solenoid in protection class  
 Ⓜ II 2 GD EEx m II T4 T 130 °C,  
 with 3 m connection cable

Please turn to page 276 for technical information on our valves.

## Service kits

For valves with solenoid 9101	Part number
8240000, 8240100, 8240200	1256274
8240300	1256275
8240400	1256276
8240500, 8240600	1259344
8241700	1259367
For valves with solenoid 9151	Part number
8240500, 8240600	1259373
8240700	1259382

## 2/2-way valves DN 8 to DN 25

For hot water and steam  
Indirectly solenoid actuated  
Diaphragm valves  
Internal thread G 1/4 to G 1  
Operating pressure: 0.1 to 10 bar

### Description (standard valve)

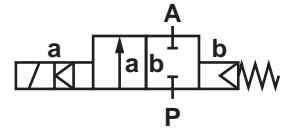
Solenoid valve for hot water and steam  
Switching function: normally closed  
Flow direction: determined  
Differential pressure: 0.1 bar required  
Fluid temperature: max. +150 °C  
Ambient temperature: max. +60 °C  
Mounting position: as required, preferably with solenoid vertical on top



### Material

Body: Brass  
Seat seal: HNBR  
Internal parts: Stainless steel, Brass

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



### Features

- High flow rate
- Damped operation
- Functional compact design
- Solenoid interchangeable without tools (Click-on®)
- Particularly suitable as a water valve according to DIN EN 60730-2-8

### Technical data

Connection size G	DN mm	kv-Value m³/h	Part number*	Operating pressure bar		
				HNBR 00	Normally open 01	Manual override 02
1/4	8	1.7	82470XX.9101.00000	0.1 - 10	0.1 - 10	0.1 - 10
3/8	10	2.7	82471XX.9101.00000	0.1 - 10	0.1 - 10	0.1 - 10
1/2	12	3.4	82472XX.9101.00000	0.1 - 10	0.1 - 10	0.1 - 10
3/4	20	5.5	82473XX.9101.00000	0.1 - 10	0.1 - 10	0.1 - 10
1	25	8.5	82474XX.9101.00000	0.1 - 10	0.1 - 10	0.1 - 10

\* For orders please state voltage and frequency, e.g.: 8247200.9101.23050 for 230V 50Hz or 8247200.9101.02400 for 24V DC

### Solenoid 9101 (standard voltages)

DC	AC	
	50Hz	60Hz
24V	24V	-
-	110V	120V
-	230V	220V

### Power consumption

Solenoid	DC	AC	
		Inrush	Holding
9101	8W	15VA	12VA

Design according to DIN VDE 0580  
Voltage range +/-10%, duty cycle 100%  
Protection class according to EN 60529: IP65  
Electrical connector according to DIN EN 175301-803 (included)  
The solenoids are UL listed and CSA approved

## Mounting bracket

Connection size G	Part number
1/4, 3/8, 1/2	1258986
3/4	1258991
1	1258996

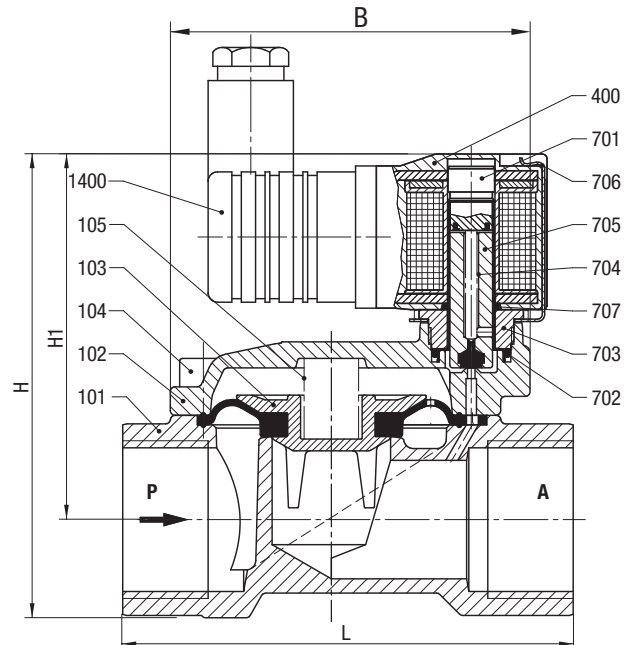


## Drawing legend

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
703	Screw piece
*704	Pressure spring
*705	Plunger
706	Spring clip
*707	O-ring
1400	Electrical connector

\* A service kit consists of these individual parts.

Connection size G	L mm	B mm	H mm	H1 mm
1/4	60	44	78.5	67.0
3/8	60	44	78.5	67.0
1/2	67	44	81.0	67.0
3/4	80	50	88.0	71.5
1	95	62	97.5	77.0



Solenoid Valves with Differential Pressure

## Service kits

For valves with solenoid 9101	Part number
8247000	1257467
8247100	1257467
8247200	1257467
8247300	1257468
8247400	1257470

## Further options on request

Please turn to page 276 for technical information on our valves.

## 2/2-way valves DN 8 to DN 50

For neutral gases and liquids  
 Indirectly solenoid actuated  
 Piston valves  
 Internal thread G 1/4 to G 2 or 1/4" NPT to 2" NPT  
 Operating pressure: 0.5 to 40 bar (see technical data)

### Description (standard valve)

Solenoid valve for air, water, and other neutral fluids

Switching function:	normally closed
Flow direction:	determined
Differential pressure:	0.5 bar required
Fluid temperature:	-20 °C up to max. +90 °C
Ambient temperature:	-20 °C up to max. +50 °C
Mounting position:	as required, preferably with solenoid vertical on top

### Material

Body:	Brass
Seat seal:	NBR
Internal parts:	Stainless steel, Brass, PTFE

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

### Features

- Compact piston valve
- High flow rate
- Damped operation
- Functional compact design
- Solenoid in Click-on® design
- Stainless steel piston bushing

### Technical data

Connection size G	DN mm	kv-Value m³/h	Part number*	Operating pressure bar					
				NBR	Normally open	Manual override	FPM 110 °C	EPDM 110 °C	Sealed core tube
				00	01	02	03	14	99**
1/4	8	2.2	85300XX.9151.00000	0.5 - 40	0.5 - 40	0.5 - 40	0.5 - 40	0.5 - 40	0.5 - 8
3/8	10	3.4	85301XX.9151.00000	0.5 - 40	0.5 - 40	0.5 - 40	0.5 - 40	0.5 - 40	0.5 - 8
1/2	12	4.4	85302XX.9151.00000	0.5 - 40	0.5 - 40	0.5 - 40	0.5 - 40	0.5 - 40	0.5 - 8
3/4	20	7.0	85303XX.9151.00000	0.5 - 40	0.5 - 40	0.5 - 40	0.5 - 40	0.5 - 40	0.5 - 8
1	25	10.5	85304XX.9151.00000	0.5 - 40	0.5 - 40	0.5 - 40	0.5 - 40	0.5 - 40	0.5 - 8
1 1/4	32	25.0	85305XX.9151.00000	0.5 - 40	0.5 - 30	0.5 - 40	0.5 - 40	0.5 - 40	0.5 - 8
1 1/2	40	27.0	85306XX.9151.00000	0.5 - 40	0.5 - 30	0.5 - 40	0.5 - 40	0.5 - 40	0.5 - 8
2	50	43.0	85307XX.9151.00000	0.5 - 40	0.5 - 30	0.5 - 40	0.5 - 40	0.5 - 40	0.5 - 8

\* For orders please state voltage and frequency, e.g.: 8530000.9151.23050 for 230V 50Hz or 8530000.9151.02400 for 24V DC

\*\* With solenoid DC 9152 / AC 9156

### Solenoid 9151 (standard voltages)

DC	AC	
	50Hz	60Hz
24V	24V	-
-	110V	120V
-	230V	220V

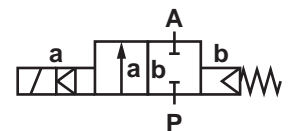
Design according to DIN VDE 0580  
 Voltage range +/-10%, duty cycle 100%  
 Protection class according to EN 60529: IP65

### Power consumption

Solenoid	DC	AC	
		Inrush	Holding
9151	18W	45VA	35VA

Electrical connector according to DIN EN 175301-803 (included)  
 The solenoids are UL listed and CSA approved  
 AC with rectifier plug only

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



## Mounting bracket\*

Content: 1 stainless steel mounting bracket and 2 screws

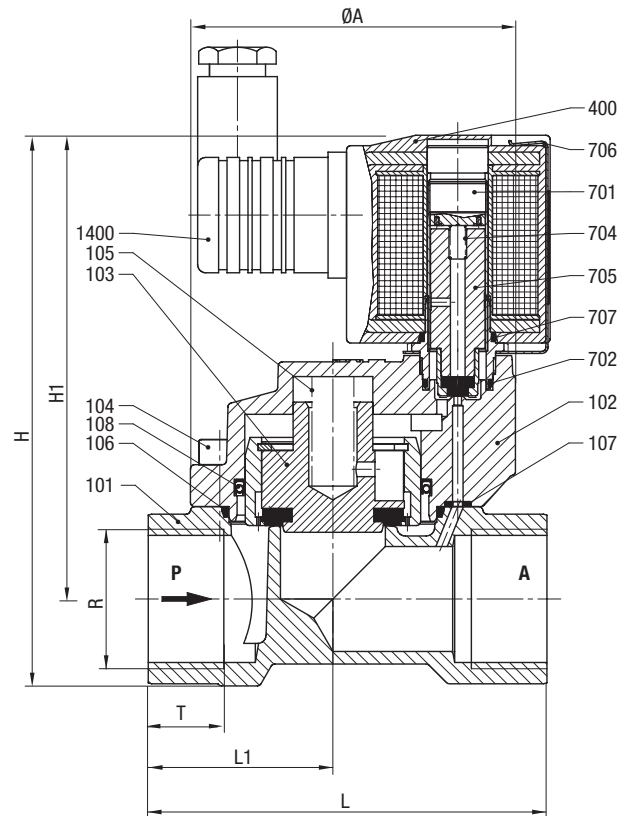
Connection size G	Part number
1/4, 3/8, 1/2	1258988
3/4	1258993
1	1258998
1 1/4, 1 1/2	1259006
2	1259008

\* For image of valve with mounting bracket, see 82400 series (page 105)

## Drawing legend

Index	Description
101	Valve body
102	Valve cover
*103	Valve plate
104	Allen head screw
*105	Pressure spring
*106	Gasket
*107	O-ring
*108	Lip seal
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.



Solenoid Valves with Differential Pressure

Connection size G	ØA mm	H mm	H1 mm	L mm	L1 mm	T mm
1/4	44	105.0	93.5	60	27.5	12.0
3/8	44	105.0	93.5	60	27.5	12.0
1/2	44	107.5	93.5	67	31.0	14.0
3/4	50	119.0	102.5	80	36.5	16.0
1	62	131.5	110.5	95	44.0	18.0
1 1/4	92	166.0	137.0	132	60.0	20.0
1 1/2	92	166.0	137.0	132	60.0	22.0
2	109	186.0	151.5	160	74.0	24.0

## Service kits

For valves with solenoid 9151	Part number
8530000	1257998
8530100	1257998
8530200	1257998
8530300	1258002
8530400	1258006
8530500	1258589
8530600	1258589
8530700	1259152

## Further options on request

Please turn to page 276 for technical information on our valves.

# Sanitary Automation

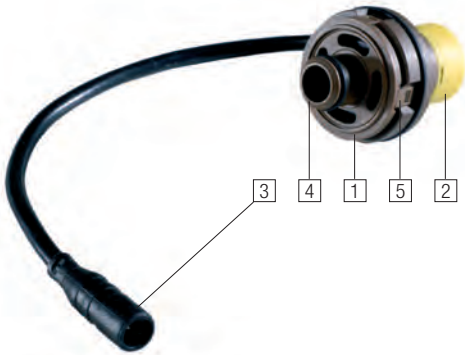
## Flatsan 2/2-way valves

### Description

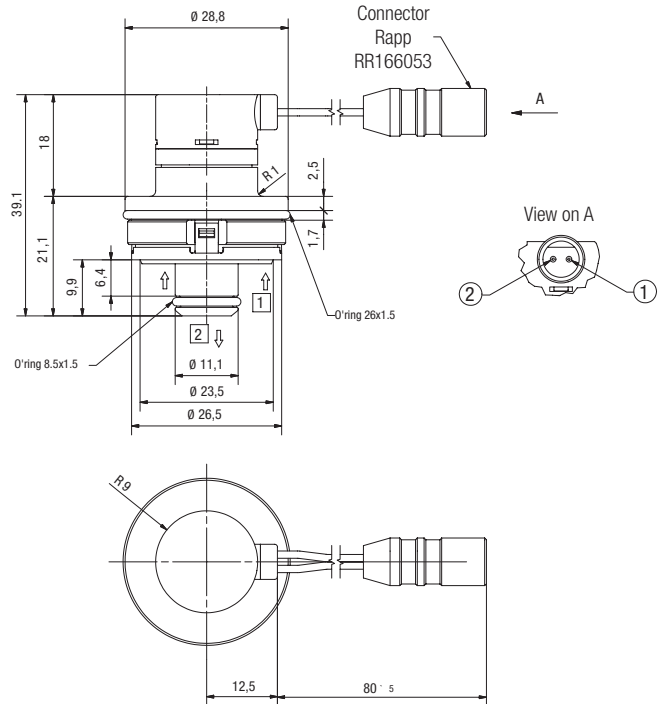
Solenoid Valve for potable water  
 Switching function: normally closed  
 Flow Direction: determined  
 Fluid Temperature: +5 °C up to +70 °C  
 Ambient Temperature: +5 °C up to +50 °C  
 Mounting position: as required

### Material

Body in contact with media: PPS  
 Seals in contact with media: EPDM  
 Other wetted materials: PPS, stainless steel



- 1 Compact build for easy integration.
- 2 Latching coils with 12W power consumption.
- 3 Wide range of voltages and connections.
- 4 High flow rates and pressures up to 10 bar.
- 5 Water tested for 300,000 cycles



Connection	Orifice mm	Kv Value		Part number	Operating pressure bar	Function	Latching	Voltage	Power Consumption	Electrical connection
		l/min	m³/h							
<b>2/2-Way Solenoid Valve</b>										
Cartridge	8	14	0.84	16-242C-10-H5+1111+AUP	0.5 - 10	NC	Yes	5 V DC	1.2W	Pins
Cartridge	8	14	0.84	16-242C-10-H5+1121+AUP	0.5 - 10	NC	Yes	5 V DC	1.2W	RAPP RR166053
Cartridge	8	14	0.84	16-242C-10-H5+1111+BFW	0.5 - 10	NC	Yes	9 V DC	1.2W	Pins
Cartridge	8	14	0.84	16-242C-10-H5+1121+BFW	0.5 - 10	NC	Yes	9 V DC	1.2W	RAPP RR166053



# Sanitary Automation

## Additional Ranges

### Cartridge valves

FAS Flatsan valves were designed with the requirements of the sanitary automation industry in mind. Easily achieving 300,000 cycles without service, the low power consumption and compact build allow easy integration into OEM products.



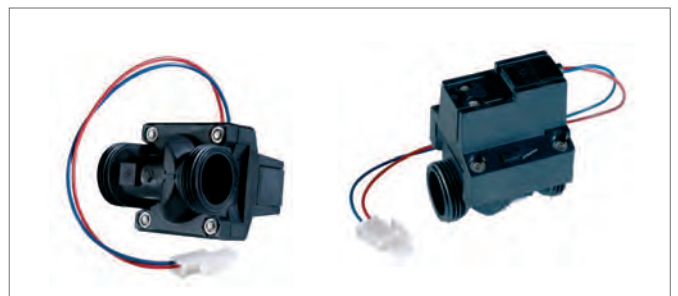
### Water pilots

Quick to integrate into existing systems, FAS water pilots were designed for minimal power and space usage. Customised interfaces are available.



### High-flow diaphragm valves

These valves are ideal where higher flows are required but space and power consumption are at a premium. A wide range of connections and electrical options are available on request.



### Direct acting solenoid valves

With integrated 15 mm compression fittings, these valves were designed for low water pressure, and function without a pressure differential. Latching versions are available. WRAS approved.



## 2/2-way valves DN 8 to DN 25

For neutral steam and liquids  
Indirectly solenoid actuated  
Piston valves  
Internal thread G 1/4 to G 1 or 1/4" NPT to 1" NPT  
Operating pressure: 1 to 25 bar

### Description (standard valve)

Solenoid valve for steam, hot water, and other neutral fluids  
Switching function: normally closed  
Flow direction: determined  
Differential pressure: 1 bar required  
Fluid temperature: -10 °C up to max. +200 °C  
Ambient temperature: -10 °C up to max. +50 °C, with solenoid mounted vertical underneath, max. +60 °C  
Mounting position: as required, preferably with solenoid vertical on top

### Material

Body: Brass  
Seat seal: PTFE  
Internal parts: Stainless steel, FPM, PTFE

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

### Features

- Compact piston valve
- High flow rate
- Damped operation
- Functional compact design
- Solenoid in Click-on® design
- Stainless steel piston bushing

### Technical data

Connection size G	DN mm	kv-Value m³/h	Part number*	Operating pressure bar		
				PTFE <b>00</b>	Normally open <b>01</b>	Manual override <b>02</b>
1/4	8	2.2	85320 <b>XX</b> .9152. <b>00000</b>	1 - 25	1 - 16	1 - 25
3/8	10	3.4	85321 <b>XX</b> .9152. <b>00000</b>	1 - 25	1 - 16	1 - 25
1/2	12	4.4	85322 <b>XX</b> .9152. <b>00000</b>	1 - 25	1 - 16	1 - 25
3/4	20	7.0	85323 <b>XX</b> .9152. <b>00000</b>	1 - 25	1 - 16	1 - 25
1	25	10.5	85324 <b>XX</b> .9152. <b>00000</b>	1 - 25	1 - 16	1 - 25

\* For orders please state voltage and frequency, e.g.: 8532200.9152.**2.23050** for 230V 50Hz or 8532200.9152.**02400** for 24V DC

### Solenoid 9152 (standard voltages)

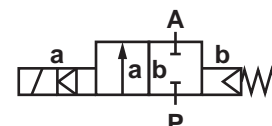
DC	AC	
	50Hz	60Hz
24V	24V	-
-	110V	120V
-	230V	220V

### Power consumption

Solenoid	DC	AC	
		Inrush	Holding
9152	10W	15VA	10VA

Design according to DIN VDE 0580  
Voltage range +/-10%, duty cycle 100%  
Protection class according to EN 60529: IP65  
Electrical connector according to DIN EN 175301-803 (included)  
The solenoids are UL listed and CSA approved

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



## Mounting bracket\*

Content: 1 stainless steel mounting bracket and 2 screws

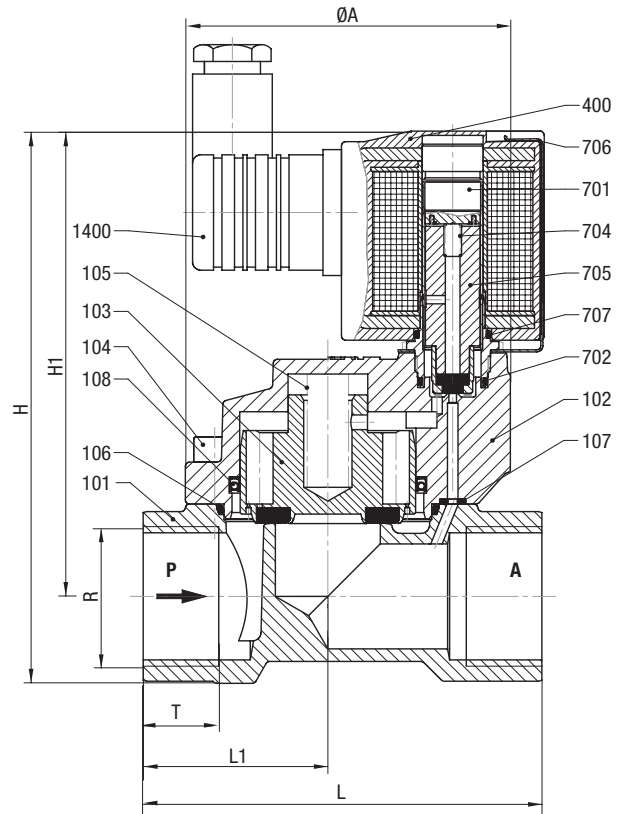
Connection size G	Part number
1/4, 3/8, 1/2	1258988
3/4	1258993
1	1258998

\* For image of valve with mounting bracket, see 82400 series (page 105)

## Drawing legend

Index	Description
101	Valve body
102	Valve cover
*103	Valve plate
104	Allen head screw
*105	Pressure spring
*106	Gasket
*107	O-ring
*108	Lip seal
400	Solenoid
701	Core tube
*702	O-ring
703	Screw piece
*704	Pressure spring
*705	Plunger
706	Spring clip
707	O-ring
1400	Electrical connector

\* A service kit consists of these individual parts.



Solenoid Valves with Differential Pressure

Connection size G	øA mm	H mm	H1 mm	L mm	L1 mm	T mm
1/4	44	105.0	93.5	60	27.5	12.0
3/8	44	105.0	93.5	60	27.5	12.0
1/2	44	107.5	93.5	67	31.0	14.0
3/4	50	119.0	102.5	80	36.5	16.0
1	62	131.5	110.5	95	44.0	18.0

## Service kits

For valves with solenoid 9152	Part number
8532000	1261735
8532100	1261735
8532200	1261735
8532300	1261736
8532400	1261737

## Further options on request

Please turn to page 276 for technical information on our valves.

## 2/2-way valves DN 12 to DN 20

For neutral gases and liquids  
Indirectly solenoid actuated  
Diaphragm valves  
Internal threads G 1/2 and G 3/4 (84070)  
or 1/2" NPT and 3/4" NPT (84080)  
Operating pressure: 0.3 to 10.5 bar

## Description (standard valve)

Solenoid valve for potable water and other neutral fluids  
Switching function: normally closed  
Flow direction: determined  
Fluid temperature: +5 °C to max. +50 °C  
Ambient temperature: 0 °C to max. +50 °C  
Mounting position: as required, preferably solenoid vertical on top

## Material

Body: Polymer (PPO GF 30)  
Seat seal: EPDM  
Internal parts: Stainless steel, PVDF

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

## Features

- High flow rate
- Damped operation
- Functional compact design
- Solenoid interchangeable without tools (Click-on®)
- International approvals

## Technical data valves

Connection size G	DN mm	kv-Value** m³/h	Part number* Solenoid in DC or AC	Pressure bar
1/2	12	3,0	8407214.9101.00000	0,3 - 10,5
3/4	20	5,0	8407314.9101.00000	0,3 - 10,5
1/2 NPT	12	3,0	8408214.9101.00000	0,3 - 10,5
3/4 NPT	20	5,0	8408314.9101.00000	0,3 - 10,5

\* For orders please state voltage and frequency, e.g.: 8407214. 9101.23050 for 230V 50Hz or 8407214.9152.02400 for 24V DC

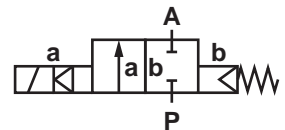
\*\* With gases and liquids up to 25 mm²/s (cSt)

## Solenoid 9101 (standard voltages)

DC	AC	
	50Hz	60Hz
24V	24V	-
-	110V	120V
205V	230V	220V

Design according to DIN VDE 0580  
Voltage range +/-10%, duty cycle 100%  
Protection class according to EN 60529: IP65  
Electrical connector according to DIN EN 175301-803 (included)  
The solenoids are UL listed and CSA approved

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





This valve is tested and certified as a component by NSF International against NSF/ANSI Standard 42 for materials and structural integrity requirements only and against NSF/ANSI Standard 61 for material requirements only.

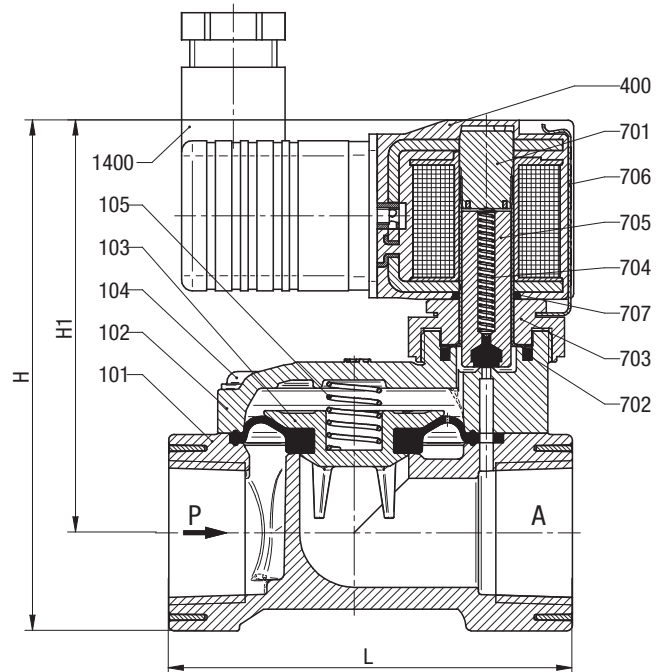
## Power consumption

Solenoid	DC	AC	
		Inrush	Holding
9101	8W	15VA	12VA / 7W

**Drawing legend**

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

\* A service kit consists of these individual parts.



Connection size G	B mm	H mm	H1 mm	L mm
1/2	51	86	71	67
3/4	62	94	76	74
1/2" NPT	51	86	71	67
3/4" NPT	62	94	76	74

**Further options (valves)**

XXXXX**54**.XXXX Latching system (only in DC)

XXXXX**67**.XXXX Normally open (NO)

**Further options on request**

Please turn to page 276 for technical information on our valves.

Specific NSF listed voltages for this valve can be found on:  
[www.nsf.org](http://www.nsf.org).

## 2/2-way valves DN 8 to DN 50

For slightly aggressive gases and liquids  
 Indirectly solenoid actuated  
 Diaphragm valves  
 Internal thread G 1/4 to G 2 or 1/4" NPT to 2" NPT  
 Operating pressure: 0.1 to 16 bar (see technical data)

### Description (standard valve)

Solenoid valve for slightly aggressive gases and liquids  
 Switching function: normally closed  
 Flow direction: determined  
 Differential pressure: 0.1 bar required (0.3 bar for EPDM)  
 Fluid temperature: -10 °C up to max. +90 °C  
 Ambient temperature: -10 °C up to max. +50 °C  
 Mounting position: as required, preferably with solenoid vertical on top

### Material

Body: Stainless steel 1.4408  
 Seat seal: NBR  
 Internal parts: Stainless steel, PVDF

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

### Features

- High flow rate
- Damped operation
- Functional compact design
- Solenoid interchangeable without tools (Click-on®)

### Technical data

Connection size G	DN mm	kv-Value m³/h	Part number*	Operating pressure bar				
				NBR 00	Normally open 01	Manual override 02	FPM 110 °C 03	EPDM 110 °C 14
1/4	8	1.9	82730XX.9101.00000	0.1 - 16	0.1 - 16	0.1 - 16	0.1 - 16	0.3 - 16
3/8	10	3.0	82731XX.9101.00000	0.1 - 16	0.1 - 16	0.1 - 16	0.1 - 16	0.3 - 16
1/2	12	3.8	82732XX.9101.00000	0.1 - 16	0.1 - 16	0.1 - 16	0.1 - 16	0.3 - 16
3/4	20	6.0	82733XX.9101.00000	0.1 - 16	0.1 - 16	0.1 - 16	0.1 - 16	0.3 - 16
1	25	9.5	82734XX.9101.00000	0.1 - 16	0.1 - 16	0.1 - 16	0.1 - 16	0.3 - 16
1 1/4	32	23.0	82735XX.9101.00000	0.1 - 10	-	0.1 - 10	0.1 - 10	0.3 - 10
1 1/4	32	23.0	82735XX.9151.00000	0.1 - 16	0.1 - 16	0.1 - 16	0.1 - 16	0.3 - 16
1 1/2	40	25.0	82736XX.9101.00000	0.1 - 10	-	0.1 - 10	0.1 - 10	0.3 - 10
1 1/2	40	25.0	82736XX.9151.00000	0.1 - 16	0.1 - 16	0.1 - 16	0.1 - 16	0.3 - 16
2	50	41.0	82737XX.9101.00000	0.1 - 10	-	0.1 - 10	0.1 - 10	0.3 - 10
2	50	41.0	82737XX.9151.00000	0.1 - 16	0.1 - 16	0.1 - 16	0.1 - 16	0.3 - 16

\* For orders please state voltage and frequency, e.g.: 8273200.9101.23050 for 230V 50Hz or 8273200.9101.02400 for 24V DC

### Solenoid 9101 / 9151 (standard voltages)

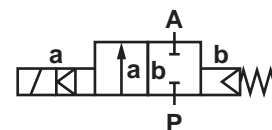
DC	AC	
	50Hz	60Hz
24V	24V	-
-	110V	120V
-	230V	220V

### Power consumption

Solenoid	DC	AC	
		Inrush	Holding
9101	8W	15VA	12VA
9151	18W	45VA	35VA

Design according to DIN VDE 0580  
 Voltage range +/-10%, duty cycle 100%  
 Protection class according to EN 60529: IP65  
 Electrical connector according to DIN EN 175301-803 (included)  
 The solenoids are UL listed and CSA approved

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



## Mounting bracket\*

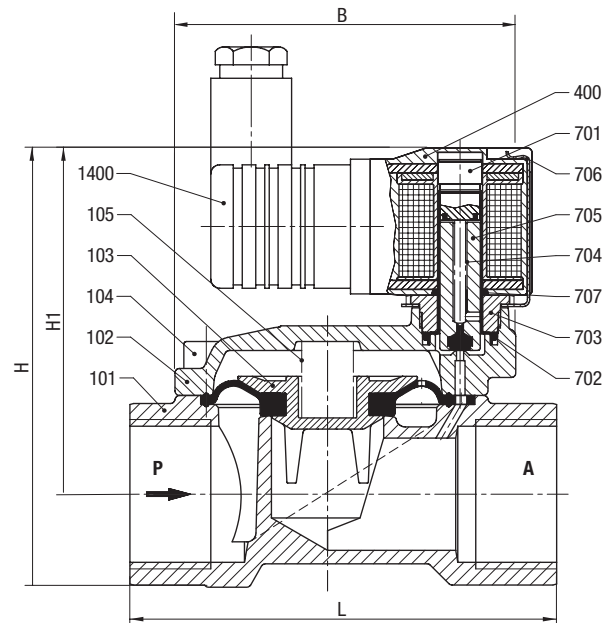
Connection size G	Part number
1/4, 3/8, 1/2	1258986
3/4	1258991
1	1258996
1 1/4, 1 1/2	1259005
2	1259007

\* For image of valve with mounting bracket, see 82400 series (page 105)

## Drawing legend

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
703	Screw piece
*704	Pressure spring
*705	Plunger
706	Spring clip
*707	O-ring
1400	Electrical connector (enclosed)

\* A service kit consists of these individual parts.



## With solenoid 9101

Connection size G	L mm	B mm	H mm	H1 mm
1/4	60	44	78.5	67.0
3/8	60	44	78.5	67.0
1/2	67	44	81.0	67.0
3/4	80	50	88.0	71.5
1	95	62	97.5	77.0
1 1/4	132	92	124.5	95.5
1 1/2	132	92	124.5	95.5
2	160	109	142.5	108.0

## Service kits

For valves with solenoid 9101	Part number
8273000, 8273100, 8273200	1256274
8273300	1256275
8273400	1256276
8273500, 8273600	1259344
8273700	1259367
For valves with solenoid 9151	Part number
8273500, 8273600	1269065
8273700	1269066

## With solenoid 9151

Connection size G	L mm	B mm	H mm	H1 mm
1 1/4	132	92	142	113
1 1/2	132	92	142	113
2	160	109	160	125.5

## Further options (valves)

- Explosion protected version
- Flange connections
- Sealed core tube
- Latching version in DC only
- Low power consumption 2W (only 24VDC)
- With NPT thread

## Further options (solenoids)

XXXXXX.9136 Solenoid in protection class  $\text{Ex II 2 GD EEx m II T4 T 130 }^{\circ}\text{C}$ , with 3 m connection cable

## Further options on request

Please turn to page 276 for technical information on our valves.

## 2/2-way valves DN 20 to 50

For neutral gases and liquids  
Indirectly solenoid actuated  
Diaphragm valves  
Flange connection: PN 16  
Operating pressure: 1 to 16 bar

### Description (standard valve)

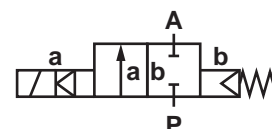
Solenoid valve for air, water, oil and other neutral fluids

Switching function:	normally closed
Flow direction:	determined
Fluid temperature:	max. +80 °C
Differential pressure:	1 bar required
Ambient temperature:	max. +55 °C
Mounting position:	as required, preferably solenoid vertical



### Material

Body:	Grey cast iron
Seat seal:	NBR
Internal parts:	Brass, Stainless steel



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

### Features

- Damped operation
- Easily interchangeable solenoid

### Technical data

Connection size DN mm	kv-Value m³/h	Part number*	Operating pressure bar			
			NBR	Normally open	FPM 110 °C	EPDM 110 °C
			00	01	03	14
20	8.0	83053XX.0201.00000	1 - 16	1 - 16	1 - 16	1 - 16
25	10.0	83054XX.0201.00000	1 - 16	1 - 16	1 - 16	1 - 16
32	22.0	83055XX.0201.00000	1 - 16	1 - 16	1 - 16	1 - 16
40	25.0	83056XX.0201.00000	1 - 16	1 - 16	1 - 16	1 - 16
50	43.0	83057XX.0201.00000	1 - 16	1 - 16	1 - 16	1 - 16

\* For orders please state voltage and frequency, e.g.: 8305300.0201.23050 for 230V 50Hz or 8305300.0201.02400 for 24V DC

### Solenoid 0201 (standard voltages)

DC	AC	
	50Hz	60Hz
24V	24V	-
-	110V	120V
-	230V	220V

### Power consumption

Solenoid	DC	AC	
		Inrush	Holding
0201	11W	22VA	15VA

Design according to DIN VDE 0580  
Voltage range +/-10%, duty cycle 100%  
Protection class according to EN 60529: IP65  
Electrical connector according to DIN EN 175301-803 (included)



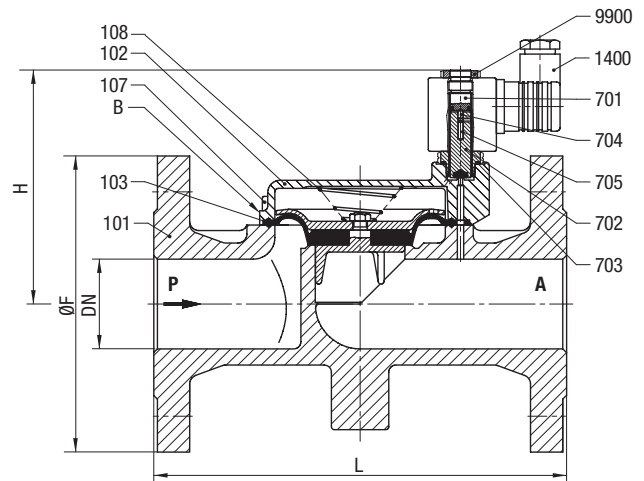
## Drawing legend

Index	Description
101	Valve body
102	Valve cover
*103	Diaphragm
107	Allen head screw
*108	Pressure spring
400	Solenoid
701	Core tube
*702	Plunger
*703	O-ring
*704	Guiding pin
705	Pressure spring
1400	Electrical connector
9999	Nut

\* A service kit consists of these individual parts.

Connection size DN	L mm	B* mm	H mm	øF mm
20	150	105	105	105
25	160	115	105	115
32	180	140	118	140
40	200	150	122	150
50	230	165	132	165

\* B = maximum width



Solenoid Valves with Differential Pressure

## Further options (valves)

XXXXX02.XXXX Manual override

XXXXX17.XXXX Normally open;  
seat seal: FPM\*\*

XXXXX20.XXXX Manual override;  
seat seal: FPM\*\*

## Further options (solenoids)

XXXXXXX.4001 Solenoid for higher temperature,  
up to max. +130 °C

XXXXXXX.9336 Solenoid in protection class  
⊕ II 2 GD EEx me II T4 T 140 °C

XXXXXXX.9341 Solenoid in protection class  
⊕ II 2 GD EEx me II T3 T 140 °C

## Further options on request

Marine version

\*\* Up to max. +130 °C: only in combination with solenoid for higher temperatures.

Please turn to page 276 for technical information on our valves.

# Water Treatment and Purification

## Water treatment and purification

Drinking water is one of the most valuable resources on Earth.

Keenly aware of its limited supply, Norgren turned its attention to the water treatment and purification market years ago.

Our range of products and solutions are suited for a range of demanding applications, ranging from sea water desalination through to water sample analysis.



## Diaphragm solenoid valves

Buschjost's brass, stainless steel and plastic diaphragm valves are developed specifically for handling water and are ideal for controlling both the intake and treatment process flow.



## Direct acting solenoid valves

Norgren's range of direct acting solenoid valves are ideal for applications with low operating pressure differential. Quick connectors such as integrated push-in or compression fittings allow easy installation into the fluid circuit.



## Media separated solenoid valves

Well suited for chemical dosing applications or for handling low flows of high-grade deionised water, these valves are well established in the water purification industry.



# Water Treatment and Purification

## Valve islands and pneumatic pilots

Where flows or impurities are higher and pneumatically operated valves are used, Norgren's compact valve islands and range of pneumatic pilots can save critical assembly time and increase performance of the system.



## Air preparation

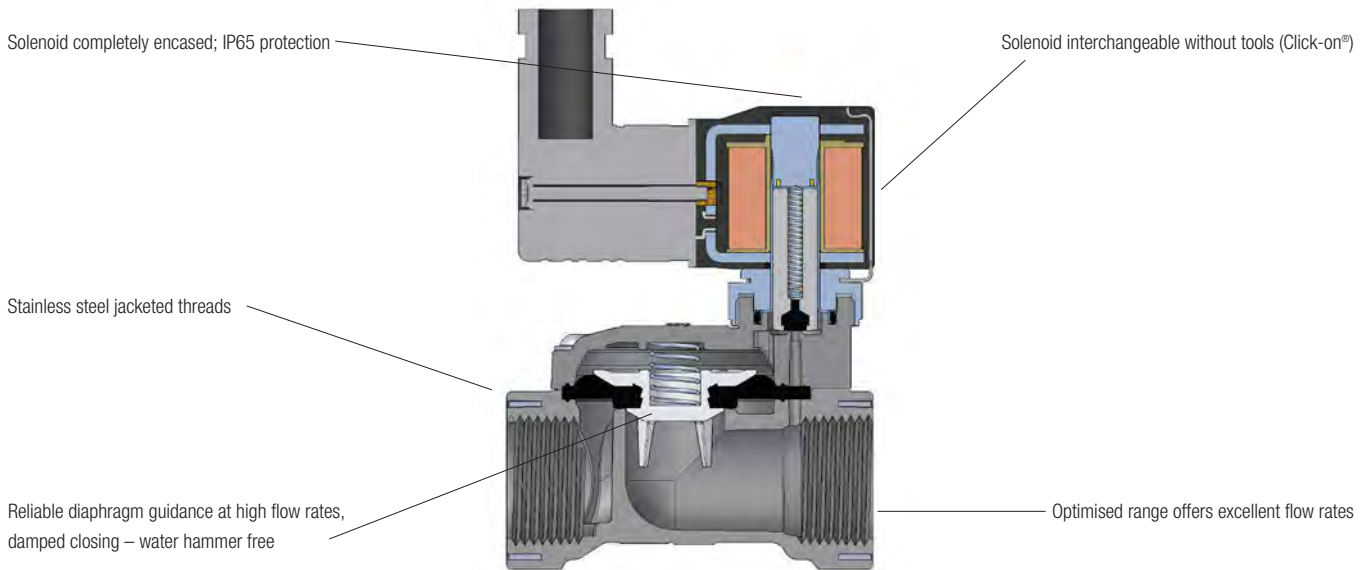
Norgren's established range of air preparation equipment includes filters, regulators, and lubricators as well as pneumatic tubing and fittings.



Solenoid Valves with Differential Pressure

## Water Treatment and Purification

Buschjost's new Series 84080 – designed for the demanding needs of the water purification market.





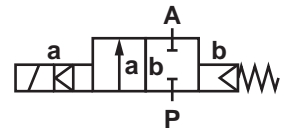
This valve is tested and certified as a component by NSF International against NSF/ANSI Standard 42 for materials and structural integrity requirements only and against NSF/ANSI Standard 61 for material requirements only.

## 2/2-way valves DN 65 to DN 150

For neutral gases and liquids  
Indirectly solenoid actuated  
Diaphragm valves  
Flange connection: PN 16  
Operating pressure: 0.5 to 10 bar

### Description (standard valve)

Solenoid valve for air, water, oil and other neutral fluids  
Switching function: normally closed  
Flow direction: determined  
Differential pressure: 0.5 bar required  
Fluid temperature: -10 °C up to max. +90 °C  
Ambient temperature: -10 °C up to max. +50 °C  
Mounting position: as required, preferably with solenoid vertical on top



### Material

Body: Grey cast iron  
Seat seal: NBR  
Internal parts: Stainless steel, Brass, Gun metal

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

### Features

- Continuously adjustable closing time
- Easily interchangeable solenoid
- Resistant to scaling
- Low power consumption

### Technical data

DN mm	kv-Value m³/h	Part number*	Operating pressure bar	
			NBR 00	Normally open 01
65	56.0	83588 <b>XX</b> .9366. <b>00000</b>	0.5 - 10	0.5 - 10
80	90.0	83589 <b>XX</b> .9366. <b>00000</b>	0.5 - 10	0.5 - 10
100	150.0	83590 <b>XX</b> .9366. <b>00000</b>	0.5 - 10	0.5 - 10
125	191.0	83591 <b>XX</b> .9366. <b>00000</b>	0.5 - 10	0.5 - 10
150	277.0	83592 <b>XX</b> .9366. <b>00000</b>	0.5 - 10	0.5 - 10

\* For orders please state voltage and frequency, e.g.: 8358800.9366.**23050** for 230V 50Hz or 8358800.9366.**02400** for 24V DC

### Solenoid 9366 (standard voltages)

DC	AC	
	50Hz	60Hz
24V	24V	-
-	110V	120V
-	230V	220V

### Power consumption

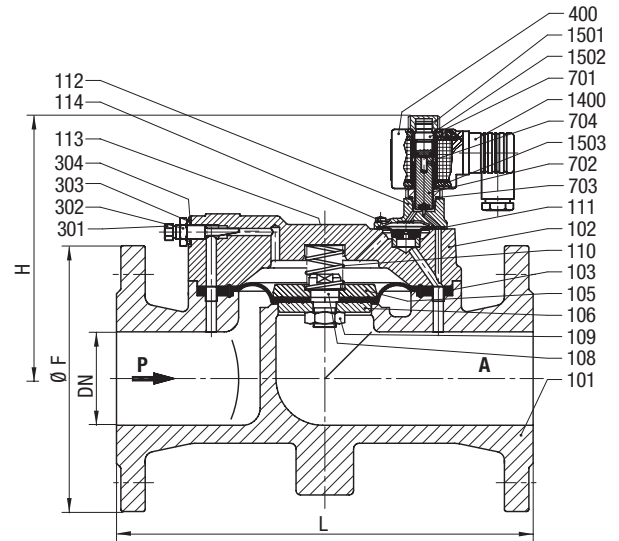
Solenoid	DC	AC	
		Inrush	Holding
9366	18W	106VA	35VA

Design according to DIN VDE 0580  
Voltage range +/-10%, duty cycle 100%  
Protection class according to EN 60529: IP65  
Electrical connector according to DIN EN 175301-803 (included)

## Drawing legend

Index	Description
101	Valve body
102	Valve cover
*103	Diaphragm
105	Round plate
106	Round plate
107	Bushing
108	Screw piece
109	Hexagon nut
*110	Pressure spring
*111	Diaphragm
112	Valve cover
113	Allen head screw
114	Oval head cap screw
301	Hexagon nut
302	Hexagon nut
303	Round plate
*304	O-ring
400	Solenoid
701	Core tube
*702	Plunger
*703	O-ring
*704	Pressure spring
1400	Electrical connector
1501	Hexagon nut
1502	O-ring
1503	Gasket

\* A service kit consists of these individual parts.



Solenoid Valves with Differential Pressure

Connection size DN	L mm	B* mm	H mm	ØF mm
65	290	190	185	185
80	310	220	195	200
100	350	250	220	220
125	400	285	235	250
150	480	330	265	285

\* B = maximum width

## Further options (solenoids)

XXXXXX.9336 Solenoid protection class  
 Ⓢ II 2 GD EEx me II T4 T 140 °C

## Further options on request

Please turn to page 276 for technical information on our valves.

## 2/2-way valves DN 15 to DN 100

For neutral gases and liquids  
 Indirectly solenoid actuated  
 Piston seat valves  
 Flange connection: PN 16  
 Operating pressure: 0.5 to 16 bar

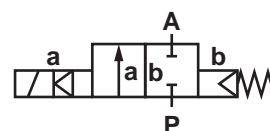
### Description (standard valve)

Solenoid valve for air, water, oil and other neutral fluids  
 Switching function: normally closed  
 Flow direction: determined  
 Differential pressure: 0.5 bar required  
 Fluid temperature: max. +90 °C  
 Ambient temperature: max. +50 °C  
 Mounting position: as required, preferably with solenoid vertical on top, from DN 65 vertical on top only



### Material

Body: Grey cast iron  
 Seat seal: NBR  
 Internal parts: Brass, Stainless steel – up to DN 50  
 Gun metal, Stainless steel – from DN 65



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

### Features

- Flat-piston valve
- High flow rate
- Damped operation

### Technical data

Connection size DN mm	kv-Value m³/h	Part number for DC voltage*	Operating pressure bar**		
			NBR	Normally open	FPM 110 °C
			<b>00</b>	<b>01</b>	<b>03</b>
15	5.5	84322 <b>XX</b> .8301. <b>00000</b>	0.5 - 16	0.5 - 16	0.5 - 16
20	10.0	84323 <b>XX</b> .8301. <b>00000</b>	0.5 - 16	0.5 - 16	0.5 - 16
25	12.5	84324 <b>XX</b> .8301. <b>00000</b>	0.5 - 16	0.5 - 16	0.5 - 16
32	27.0	84325 <b>XX</b> .8301. <b>00000</b>	0.5 - 16	0.5 - 16	0.5 - 16
40	31.0	84326 <b>XX</b> .8301. <b>00000</b>	0.5 - 16	0.5 - 16	0.5 - 16
50	46.0	84327 <b>XX</b> .8301. <b>00000</b>	0.5 - 16	0.5 - 16	0.5 - 16
65	70.0	84328 <b>XX</b> .8401. <b>00000</b>	0.5 - 16	0.5 - 16	0.5 - 16
80	98.0	84329 <b>XX</b> .8401. <b>00000</b>	0.5 - 16	0.5 - 16	0.5 - 16
100	157.0	84330 <b>XX</b> .8401. <b>00000</b>	0.5 - 16	0.5 - 16	0.5 - 16

\* For orders please state voltage and frequency, e.g.: 8432200.8301.**4.23049** for 230V 40-60Hz (AC with rectifier plug only; included) or 8432200.8301.**02400** for 24V DC

\*\* With gases or liquids up to 40 mm²/s (cSt)

## Solenoid 8301 / 8304; 8401 / 8404 (standard voltages)

DC	AC 40-60Hz	
	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  
 Electrical connector according to DIN EN 175301-803 (included)  
 AC with rectifier plug only

## Power consumption

Solenoid	DC	AC	
		Inrush	Holding
8301	22W	-	-
8304	-	25VA	25VA
8401	40W	-	-
8404	-	45VA	45VA

## Drawing legend

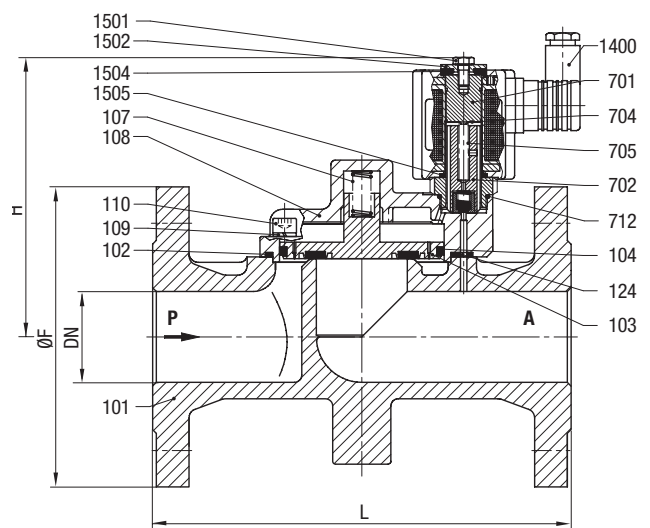
Index	Description
101	Valve body
*102	Gasket
*103	Valve plate
*104	Lip seal
*107	Pressure spring
108	Valve cover
109	Spring washer
110	Allen head screw
124	Bushing
400	Solenoid
701	Core tube
*702	Plunger
*705	Pressure spring
1400	Electrical connector
1501	Oval head cap screw
*1505	O-ring

\* A service kit consists of these individual parts.

Connection size DN	L mm	B* mm	H mm	øF mm
15	130	95	110	95
20	150	105	121	105
25	160	115	121	115
32	180	140	125	140
40	200	150	125	150
50	230	165	130	165

\* B = maximum width

## DN 15 - DN 50



## Drawing legend

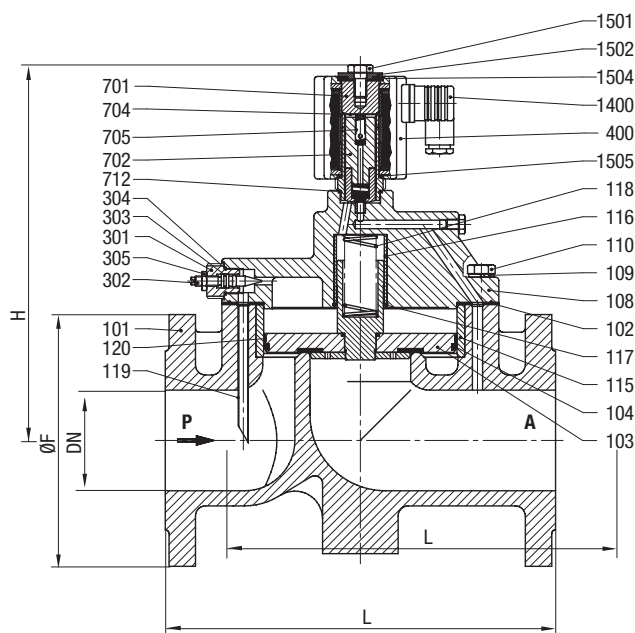
Index	Description
101	Valve body
*102	Gasket
*103	Valve plate
*104	Lip seal
108	Valve cover
109	Spring washer
110	Hexagon screw
115	Bushing
116	Bushing
117	Snap ring
*118	Pressure spring
119	Tube
*120	Guide foil
301	Screw piece
302	Valve spindle
*303	O-ring
*304	O-ring
305	Hexagon nut
400	Solenoid
701	Core tube
*702	Plunger
704	Round plate
*705	Pressure spring
*712	O-ring
1400	Electrical connector
1501	Hexagon screw
1502	Round plate
1504	Gasket
1505	O-ring

\* A service kit consists of these individual parts.

Connection size DN	L mm	B* mm	H mm	øF mm
65	290	195	280	185
80	310	220	300	200
100	350	260	330	220

\* B = maximum width

## DN 65 - DN 100



## Further options (valves)

- XXXXX01.XX Normally open
- XXXXX02.84XX Manual override, from DN 65
- XXXXX06.XXXX Material of seat and soft seal: PTFE, maximum fluid temperature +110 °C, maximum operating pressure 16 bar, leak rate E according to EN 12266-1

## Further options (solenoids)

- XXXXXX.8341 DN 15: Solenoid protection class  
⊗ II 2 GD EEx me II T3 T 140 °C
- XXXXXX.8436 DN 20 to DN 100: Solenoid protection class  
⊗ II 2 GD EEx me II T4 T 140 °C
- XXXXXX.8900 DN 15 to DN 100: Solenoid protection class  
⊗ II 2 GD EEx de II C T4 and T5 T 130 °C / 95 °C
- XXXXXX.8920 DN 15 to DN 100: Solenoid protection class  
⊗ II 2 GD EEx d II C T4 and T5 T 130 °C / 95 °C

## Further options on request

Please turn to page 276 for technical information on our valves.



## VALVE INTEGRATION



### 01 FLATPROP

With a frictionless design and up to 200 l/min flow rate (@4 bar / 58 psi), Flatprop sets new standards in the field of proportional fluid control.



### 02 CLICK-ON® VALVES

Click-on® is the latest and most varied design within the range of solenoid valves. Due to its modular system, high flexibility and fast availability is guaranteed.



### 03 DIRECT OPERATED SOLENOID VALVE

With a wide variety of coil, orifice and mounting options, KIP can provide a solution meeting many demanding requirements. With a wide range of materials and pressure ratings, we can design the correct valve to fit your application.

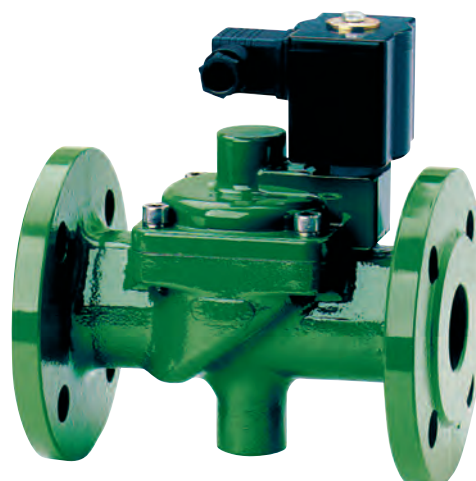
## 2/2-way valves DN 15 to 100

For neutral gases and liquids  
 Indirectly solenoid actuated  
 Piston seat valves  
 Flange connection: PN 40  
 Operating pressure: 0.5 to 40 bar (see technical data)

### Description (standard valve)

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

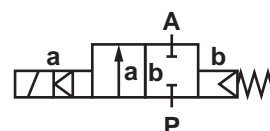
Switching function:	normally closed
Flow direction:	determined
Fluid temperature:	max. +90 °C*
Differential pressure:	0.5 bar required
Ambient temperature:	max. +50 °C*
Mounting position:	as required, preferably with solenoid vertical on top, from DN 65 vertical on top only



\* Sum of fluid and ambient temperature not to exceed +130 °C

### Material

Body:	Cast Steel
Seat seal:	NBR
Internal parts:	Brass, Stainless steel – up to DN 50 Gun metal, Stainless steel – from DN 65



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

### Features

- Flat-piston valve
- High flow rate
- Damped operation
- Easily interchangeable solenoid

### Technical data

Connection size DN mm	kv-Value m³/h	Part number for DC voltage*	Operating pressure bar**		
			NBR <b>00</b>	Normally open <b>01</b>	FPM 110 °C <b>03</b>
15	5.5	84342 <b>XX</b> .8301. <b>00000</b>	0.5 - 40	0.5 - 35	0.5 - 40
20	10.0	84343 <b>XX</b> .8301. <b>00000</b>	0.5 - 40	0.5 - 35	0.5 - 40
25	12.5	84344 <b>XX</b> .8301. <b>00000</b>	0.5 - 40	0.5 - 35	0.5 - 40
32	27.0	84345 <b>XX</b> .8301. <b>00000</b>	0.5 - 40	0.5 - 35	0.5 - 40
40	31.0	84346 <b>XX</b> .8301. <b>00000</b>	0.5 - 40	0.5 - 35	0.5 - 40
50	46.0	84347 <b>XX</b> .8301. <b>00000</b>	0.5 - 40	0.5 - 35	0.5 - 40
65	70.0	84348 <b>XX</b> .8401. <b>00000</b>	0.5 - 40	0.5 - 25	0.5 - 40
80	98.0	84349 <b>XX</b> .8401. <b>00000</b>	0.5 - 40	0.5 - 25	0.5 - 40
100	157.0	84350 <b>XX</b> .8401. <b>00000</b>	0.5 - 40	0.5 - 25	0.5 - 40

\* For orders please state voltage and frequency, e.g.: 8434200.8304**.23049** for 230V 40-60Hz (AC with rectifier plug only; included) or 8434200.8301**.02400** for 24V DC

\*\* With gases or liquids up to 40 mm²/s (cSt)

## Solenoid 8301 / 8304; 8401 / 8404 (standard voltages)

DC	AC 40-60Hz	
	24V	-
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

## Power consumption

Solenoid	DC	AC	
		Inrush	Holding
8301	22W	-	-
8304	-	25VA	25VA
8401	40W	-	-
8404	-	45VA	45VA

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

## Drawing legend

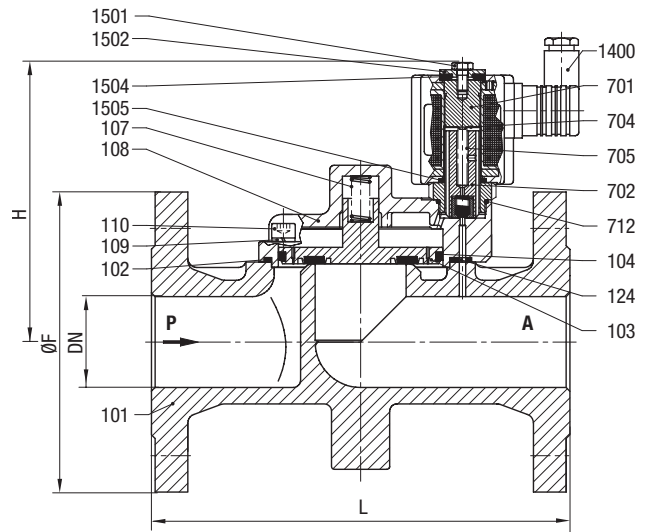
Index	Description
101	Valve body
*102	Gasket
*103	Valve plate
*104	Lip seal
*107	Pressure spring
108	Valve cover
109	Spring washer
110	Allen head screw
124	Bushing
400	Solenoid
701	Core tube
*702	Plunger assembly
*705	Pressure spring
*712	O-ring
1400	Electrical connector
1501	Hexagon screw
1502	Round plate
1504	Gasket
1505	O-ring

\* A service kit consists of these individual parts.

Connection size DN	L mm	B* mm	H mm	øF mm
15	130	95	135	95
20	150	105	146	105
25	160	115	146	115
32	180	140	146	140
40	200	150	150	150
50	230	165	155	165

\* B = maximum width

## DN 15 - DN 50



## Drawing legend

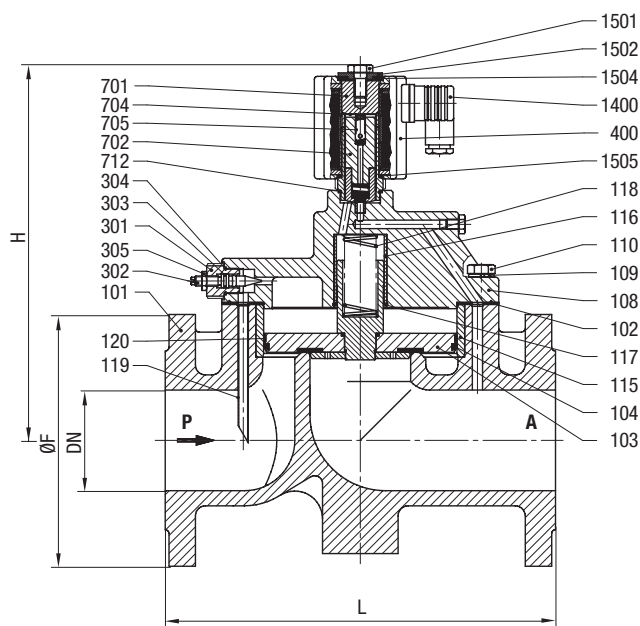
Index	Description
101	Valve body
*102	Gasket
*103	Valve plate
*104	Lip seal
108	Valve cover
109	Spring washer
110	Hexagon screw
115	Bushing
116	Bushing
117	Snap ring
*118	Pressure spring
119	Tube
*120	Guide foil
301	Screw piece
302	Valve spindle
*303	O-ring
*304	O-ring
305	Hexagon nut
400	Solenoid
701	Core tube
*702	Plunger
704	Round plate
*705	Pressure spring
*712	O-ring
1400	Electrical connector
1501	Hexagon screw
1502	Round plate
1504	Gasket
1505	O-ring

\* A service kit consists of these individual parts.

Connection size DN	L mm	B* mm	H mm	øF mm
65	290	195	280	185
80	310	220	300	200
100	350	260	330	235

\* B = maximum width

## DN 65 - DN 100



## Service kits

For valves with solenoid 8301(4)	Part number
8434200	1239508
8434300	1232746
8434400	1232746
8434500	1246878
8434600	1246878
8434700	1232219
For valves with solenoid 8401(4)	Part number
8434800	1230893
8434900	1235727
8435000	1249917

## Further options (valves)

- XXXXX**02**.XXXX Manual override, from DN 65  
XXXXX**06**.XXXX Seat seal: PTFE, up to DN 50,  
maximum operating pressure 16 bar,  
maximum fluid temperature +110 °C  
leak rate E according to EN 12266-1

## Further options (solenoids)

- XXXXXX**.8336** Solenoid in protection class  
⊗ II 2 GD EEx me II T4 T 140 °C  
XXXXXX**.8436** Solenoid protection class  
⊗ II 2 GD EEx me II T4 T 140 °C  
XXXXXX**.8900** Solenoid protection class  
⊗ II 2 GD EEx de II C T4 and T5 T 130 °C / 95 °C  
XXXXXX**.8920** Solenoid protection class  
⊗ II 2 GD EEx d II C T4 and T5 T 130 °C / 95 °C

## Further options on request

Please turn to page 276 for technical information on our valves.