

# 2/2-way valves ND 65 to 150



for neutral gaseous and liquid fluids  
Indirectly solenoid actuated  
Diaphragm valves  
Flange connection PN 16  
Operating pressure 0.5 to 10 bar

Publication 7502739.06.10.96  
Catalogue index  
**A 6**  
83 580 series

## Description (standard valve)

Solenoid valve for air, water, oil

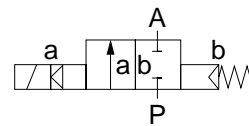
Flow direction: determined  
Fluid temperature: max. +90 °C  
Ambient temperature: max. +50 °C  
Sum of fluid- and ambient temperature: max. +130 °C  
Mounting position: optional, solenoid preferably vertical on top  
Material Body: Grey cast iron  
Seat seal: NBR  
Internal parts: 430F, 304, Gun Metal



For contaminated fluids insertion of a strainer is recommended (see accessories).

## Features

- Adjustable damped operation
- Easily interchangeable solenoid
- Insensitive to deposit
- Low power consumption



Switching function:  
Normally closed

## Characteristic data

ND	Operating pressure with gaseous and liquid fluids up to 40 mm <sup>2</sup> /s (cSt) [bar]		k <sub>v</sub> -value <sup>2)</sup> (Base m <sup>3</sup> /h)	Weight [kg]	Dimension table no	Cat. no.	
	min. <sup>1)</sup>	max.				Valve XX XXX XX.	Solenoid DC or AC XXXX
65	0.5	10	56	21.3	01	83 588 00.	9366
80	0.5	10	90	28.6	02	83 589 00.	9366
100	0.5	10	150	40.2	03	83 590 00.	9366
125	0.5	10	191	63.0	04	83 591 00.	9366
150	0.5	10	277	93.0	05	83 592 00.	9366

<sup>1)</sup> Minimum pressure differential P→A 0.5 bar

State voltage [V] and frequency [Hz]

<sup>2)</sup> C<sub>v</sub>-value (US) ≈ k<sub>v</sub>-value x 1.2

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## Solenoids

Standard voltages	DC	AC	
		50 Hz	60 Hz
	24 V	24 V	–
	–	110 V	120 V
	205 V	230 V	220 V

Design acc. to VDE 0580  
 Voltage range  $\pm 10\%$   
 100 % duty cycle  
 Protection class acc. to EN 60529 IP 65 (previous DIN 40050)  
 Socket acc. to 43 650, AC solenoid with rectifier

Power consumption <sup>1)</sup>

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

<sup>1)</sup> According to VDE 0580 at coil temperature +20 °C. In operating the solenoid coil decrease the power consumption appr. 30 %.

### Attention! Restricted temperature range for explosion proof solenoids.

For technical details see catalog-register "Solenoids"

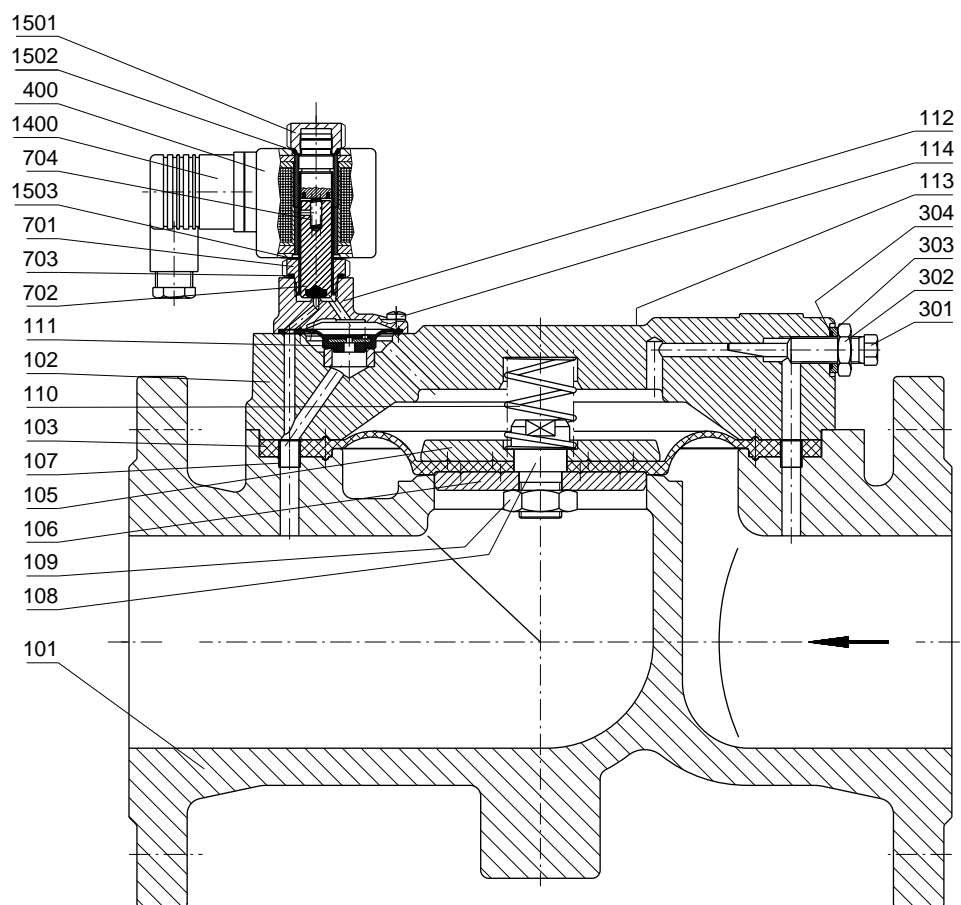
### Further models

available at extra cost

● XX XXX 01.XXXX Normally open

● On request Solenoids in several protection classes and other versions

### Sectional drawing



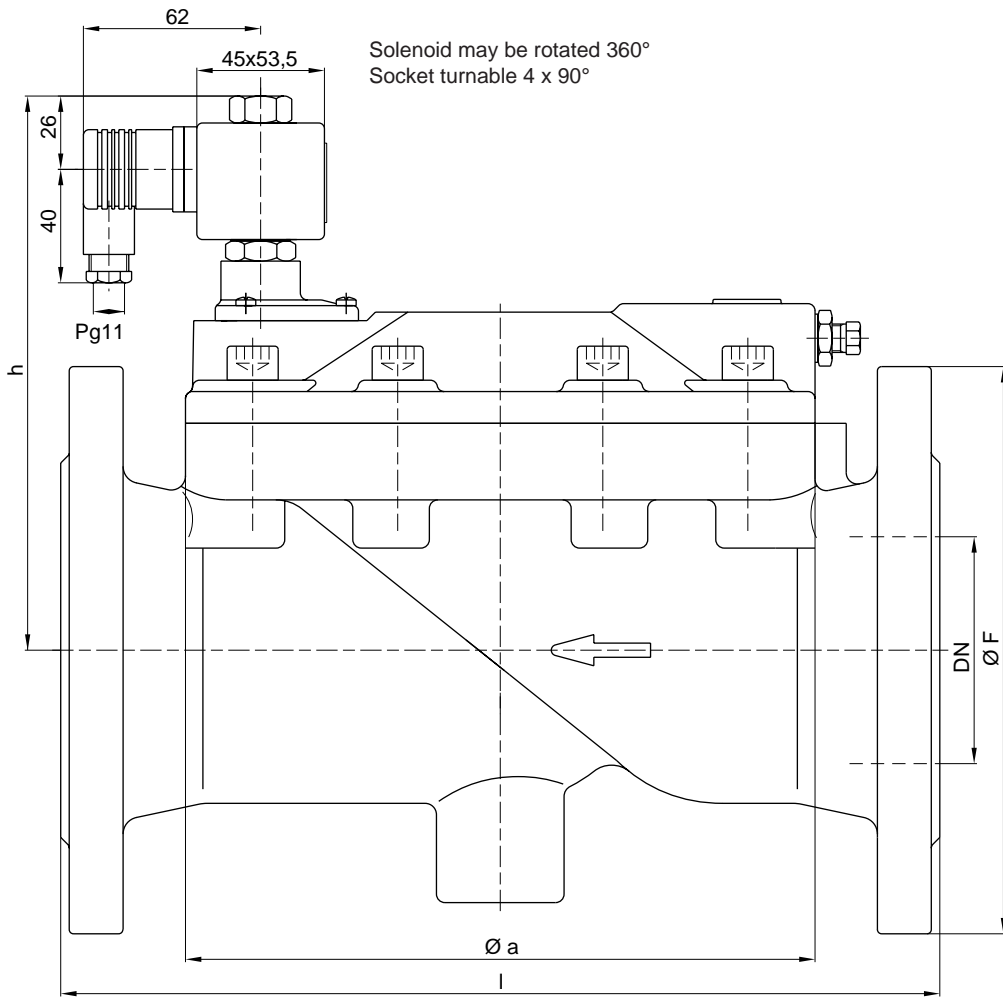
To avoid high shock pressure, you can control the closing time with the adjusting stem pos. 301. Turning clockwise increases restriction and slows down closing time. A totally closed restriction would result in a malfunction.

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

\*These individual parts form a complete wearing unit.

When ordering spare parts please state Cat. no. and series no.

# Dimensional drawing



Flange connection PN 16 acc. to DIN 2533  
Contact face acc. DIN 2526 Type C

Dimension table no.	Ø a	h	l	ND	Ø F
01	190	185	290	65	185
02	220	195	310	80	200
03	250	220	350	100	220
04	285	235	400	125	250
05	330	265	480	150	285

