2/2-way valves ND 20 to 50

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

OBSOLETE DOCUMENT
Technical Reference Only

Buschjost

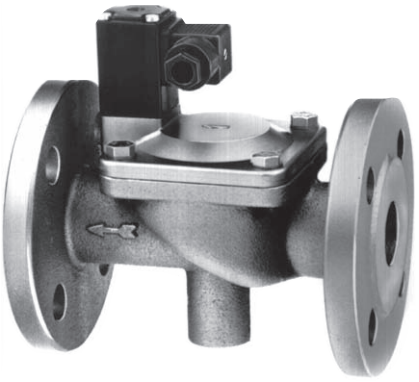
Publication 7500**0972**.06.04.95
Catalogue index
A 6
83 120 series

Description (standard valve)

Solenoid valve for air, water and oil

Flow direction:	**determined**
Fluid temperature:	**max. +90 °C**
Ambient temperature:	**max. +35 °C**
Mounting position:	**optional, preferably solenoid vertical on top**
Material Body:	**Grey cast iron**
Seat seal:	**NBR (Perbunan)**
Internal parts:	**1.4104, 1.4301**

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



Features

- **High flow rate**
- **Clear design**
- **Single part diaphragm**
- **Compact solenoid with integrated core tube**

Switching function:
Normally closed

Characteristic data

ND	Operating pressure with gaseous and liquid fluids up to 25 mm²/s (cSt) [bar]		k_V-value [2]	Weight	Dimension table	Cat no	
						Valve	Solenoid DC or AC
[mm]	min. [1]	max.	(Base m³/h)	[kg]	no	XX XXX	XX.XXXX
20	0.5	10	10.0	3.1	01	**83 123**	**00.8001**
25	0.5	10	12.5	3.5	02	**83 124**	**00.8001**
32	0.5	10	27.0	6.1	03	**83 125**	**00.8001**
40	0.5	10	31.6	6.7	04	**83 126**	**00.8001**
50	0.5	10	45.0	9.3	05	**83 127**	**00.8001**

State voltage [V] and frequency [Hz]

[1] Minimum pressure differential P→A 0.5 bar
[2] C_V-value (US) ≈ k_V-value x 1.2

IMI Norgren Buschjost GmbH + Co. KG
PO Box 10 02 52-53
D-32502 Bad Oeynhausen
Tel +49 (0) 57 31 79 10
Fax +49 (0) 57 31 79 11 79
http://www.buschjost.com
e-mail:mail@buschjost.de

Solenoids

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

Power consumption [1)]

Solenoid	DC	AC	
		Inrush	Holding
8001	12 W	20 VA	16 VA

Design acc. to VDE 0580
Voltage range ±10 %
100 % duty cycle
Protection class acc. to EN 60529 IP 65 (previous DIN 40050)
Socket acc. to DIN 43 650

[1)] **According to VDE 0580 at coil temperature +20 °C. In operating the solenoid coil decrease the power consumption appr. 30 %.**

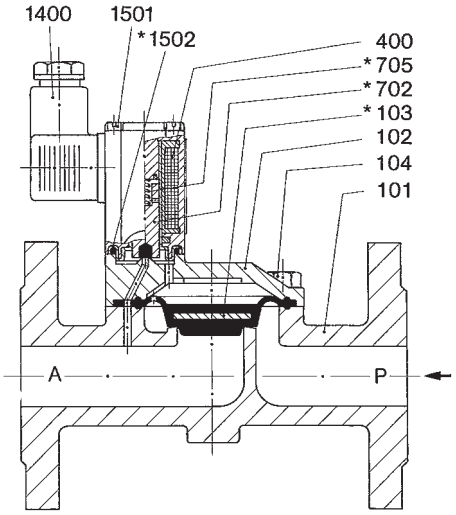
Attention: Restricted temperature range for explosion proof solenoids.
For technical details see catalog-register "Solenoids"

Further models

available at extra cost

- XX XXX **22.**XXXX Higher pressure
- **On request** Further versions
- XX XXX XX**.8004** D.C. Solenoid with rectifier, for A.C.only

Sectional drawing

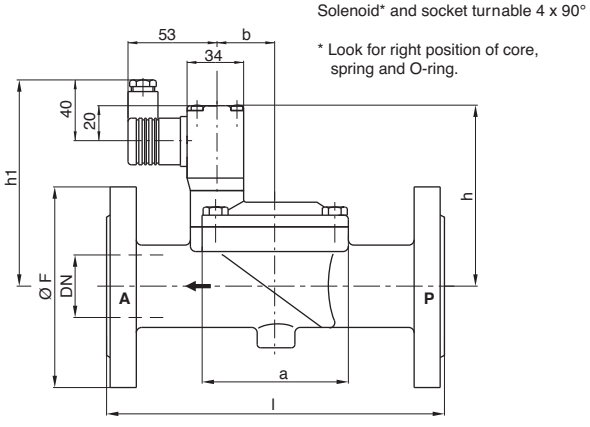


101	Valve body	1400	Socket
102	Body cover	1501	Cheese head cap screw
*103	Diaphragm		
*104	Hexagon screw	*1502	O-ring
400	Solenoid		
*702	Core		
*705	Pressure spring		

* These individual parts form a complete wearing unit.

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

Dimensional drawing



Flanschanschluß PN 16 nach DIN 2533

Dimension table no	□ a	b	h	h_1
01	70	26	96	116
02	70	26	96	116
03	96	39	111	131
04	96	39	115	135
05	112	47	122	142

Dimension table no	l	ND	ØF	
01	150	20	105	
02	160	25	115	
03	180	32	140	
04	200	40	150	
05	230	50	165	