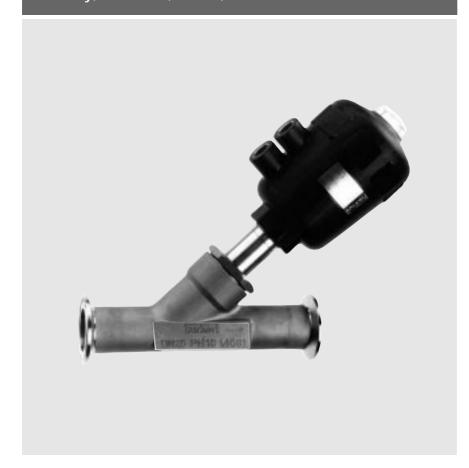
for steam, gases and low velocity liquids

2/2-Way; DN15-50; PN10; Stainless Steel



Design

The externally piloted angle-seat valve is either operated with a single-or double-acting piston actuator.

The actuator is available in two materials, depending on ambient temperatures. Standard material is PA, optional for ambient temperatures of up to 130°C is PPS (e.g. external sterilizing). Flow from above seat permits to apply smaller actuators resulting in lower costs and more compact overall dimensions. High flow rates are attained with the stainless steel 2-way body. The reliable self-adjusting packing gland provides high sealing integrity. These maintenance-free and robust valves can be retro-fitted with a comprehensive range of accessories for position indication, stroke limitation or manual override.

- Visual position indication
- low control air consumption
- 360° positioning of actuator control ports
- Simple conversion of control functions
- Safe and fast actuator servicing due to no preloaded spring tension and few parts
- Externally sterilizable with optional PPS-actuator
- Manual override (optional)
- Electr. position feedback (optional)
- Adjustable stroke limiter (optional)

Advantages / Benefits

The superior alternative e.g. to complex actuated ball valves:

- ▶ Compact size
- ▶ Min. 2-4 times increased cycle life
- Superior packing gland reduces risk of leaks to atmosphere (proven record)
- ▶ More cost-effective due to lower installation and running costs
- More versatility by a comprehensive range of options and accessories
- ► Hygienically clean and smooth surfaces
- Externally sterilizable with optional PPS-actuator

Applications

Gases and liquids up to 10 bar

Steam up to 10 bar / 180° C (SIP)

Aggressive fluids (CIP-fluids)

Systems engineering

Sterilizers

Food and beverage processing

Dairy product processing

Pharmaceutical and cosmetics industry



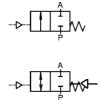
for steam, gases and low velocity liquids

Technical Data

Control Functions

A 2/2-way valve, normally closed spring return

I 2/2-way valve, with doubleacting actuator (on request)



Control Functions

B 2/2-way valve, normally open spring return



Specifications

Connections	Orifice	Kv-Value	Max. Ope	erating Pressure	Weight	Actuator
	DN	Water	Differenti	al Pressure ¹⁾		
ISO 2852			CFA	CFB ²⁾		
	[mm]	[m³/h]	[bar]	[bar]	[kg]	Ø
15	13,0	4,2	10		0,83	50
				10		50
20	20,0	8	10		0,96	50
				10		50
25	25,0	19	10		1,83	63
				10		63
32	32,0	27,5	10		3,1	63
				10		63
40	40,0	42	10		3,5	63
				9		63
			10		5,0	80
				10		80
50	50,0	55	10		7,0	63
				6		63
			10		6,5	80
				10		80

¹⁾ Higher differential pressures by other combinations of actuators on request.

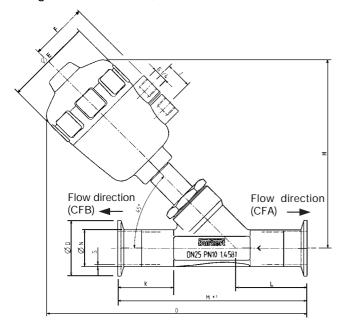
All pressures quoted are gauge pressures with respect to the prevailing atmospheric pressure.

Technical Data				
Nominal pressure Min. required control pressure Control pressure Control fluid Max. viscosity Ambient temperature PA-actuator PPS-actuator Fluid temperature min max max PPS-inctuator Fluid temperature min max max min max max min max	ISO 2852	Body material	1.4581	
	PN 10 see diagram max. 10 bar	Seal material Packing gland	PTFE self-adjusting PTFE-stem seals with intermediate relief and wiper	
	neutral gases, air 600 mm²/s min10 °C max. +60 °C min. +5 °C max.+130 °C	Fluids (Examples)	water, alcohols, salt solutions, lyes, organic solvents, steam, CIP-fluids, beverages, pharmaceutical products and cosmetics	
	min10 °C max.+180 °C	Installation		
		Installation	as required	

²⁾ Flow below seat only.

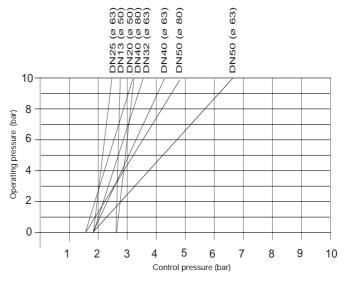
Dimensions in mm

Length M to DIN 3202, F1

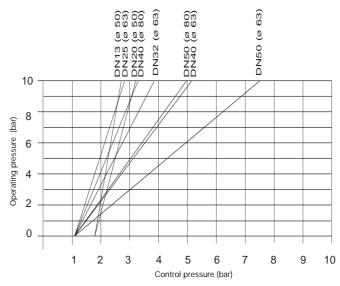


Control Pressure

Control Function A (CFA)



Control Function B (CFB)



Specifications

Function	A + B							
Actuator	ø50 mm		ø63 mm				ø80 mm	
DN	DN 13	DN 20	DN 25	DN 32	DN 40	DN50	DN40	DN50
D	34	50.5	50.5	50.5	64	77.5	64	77.5
E	64	64	80	80	80	80	101	101
F	44	44	52	52	52	52	60	60
Н	137	145	173	186	189	205	213	225
J	24	24	24	24	24	24	24	24
K	35	42.5	45	47.5	50	57.5	50	57.5
L	49	56.5	58	62.5	69	77,5	69	77.5
M	130	150	160	180	200	230	200	230
N	21,5	27	33.5	42.5	48.5	60.5	48.5	60.5
0	189	199	232	248	258	283	278	303
S	1.6	1.6	2	2	2	2.6	2	2.6

Ordering Chart

Type 2000 with stainless steel body, PA-actuator, control port with stainless steel inserts

Control	Orifice	Actuator	Flow	Operating	Order-No.
Function	DN	Size	Direction	Pressure	
	[mm]	[mm]		[bar]	
A	13	ø 50	over seat	10	415 082 G
	20	ø 50	over seat	10	415 083 H
	25	ø 63	over seat	10	415 084 A
	32	ø 63	over seat	10	415 085 B
	40	ø 63	over seat	10	415 086 C
	40	ø 80	over seat	10	415 090 L
	50	ø 63	over seat	10	415 087 D
	50	ø 80	over seat	10	415 069 S
В	13	ø 50	under seat	10	415 076 R
	20	ø 50	under seat	10	415 077 J
	25	ø 63	under seat	10	415 078 T
	32	ø 63	under seat	10	415 079 U
	40	ø 63	under seat	9	415 080 J
	40	ø 80	under seat	10	415 088 N
	50	ø 63	under seat	6	415 081 F
	50	ø 80	under seat	10	415 089 P

On request:

- · Double-acting actuator
- PPS-actuator for ambient temperatures up to 130°C
- Vacuum version

Options:

- Position feedback with Type 1062 or with external inductive switches
- Manual override
- NAMUR adapter for pilot valve
- Stroke adjustment (high/low flow)

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