



Specifications

Model/Specifications	DN4/6	DN8	DN10	DN15	DN20	DN25	DN32	DN40	DN50
Control function	2/2 Way normally closed (NC)/open (open)								
Actuator material	PA/PPS Actuator								
Valve body material	Stainless steel 316L								
Nominal pressure	PN16(body)								
Pilot pressure	max.7 bar.								
Diaphragm materials	EPDM(AB), PTFE/EPDM(EA), EPDM(AD), advanced PTFE/EPDM(EU) and FKM(FF) on request								
Operating method	Plunger pilot								
Medium	Neutral gases and liquids, high purity, sterile, aggressive or abrasive fluids								
Viscosity	Up to viscous								
Medium temperature	EPDM(AB) PTFE/ EPDM(EA)	-10~130°C (steam sterilisation +140°C for 60min)							
	EPDM(AD) advanced PTFE/ EPDM(EU)	-5~143°C (steam sterilisation +150°C for 60min)							
	FKM(FF)	-0~130°C (not recommended for steam)							
Ambient temperature	PA Actuator: -10~120°C								
Installation	As required, preferably with actuator in upright position								
Control medium	Neutral gases, air								

Product feature

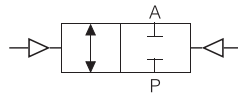
2/2-way Diaphragm valve, cast valve body, weld ends and clamp connection, port connection DN 4-50

1. Hermetical separation of fluids from the operating mechanism by diaphragm;
2. Zero dead volume;
3. Various surface finishes;
4. Universal accessory program up to control heads;

Symbol

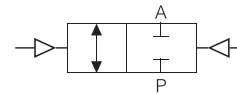
Control function A

(closed by spring force in rest position)



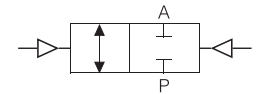
Control function B

(open by spring force in rest position)



Control function I

(double-acting actuator)



Product application

- Water treatment
- Biotechnology
- Food industry

Ordering code

DM10		P	015	NC	□	□	×	63mm
Model		Nominal diameter		Control function		Body material		
DM10	10 Diaphragm valve (tri-clamp)	4	- 20 G3/4"	NO	Normally closed by spring action		Blank	Cast stainless steel 316L/1.4435
DM20	20 Diaphragm valve (weld ends)	6	- 25 G1"	NC	Normally open by spring action			
Actuator material code		8	G1/4" 32 G1 1/4"	NA	Double acting			
P	PA Actuator	10	G3/8" 40 G1 1/2"	Seal material				
R	PPS Actuator	15	G1/2" 50 G2"	AB	EPDM in food grade			
				AD	EPDM			
				EA	PTFE/EPDM			
				FF	FKM			
				EU	advanced PTFE/EPDM in two pieces			

Actuator size

Port size	Standard actuator size (mm)	
	Standard actuator size (mm)	Connection
DN4	40	weld
DN6	40	weld
DN8	40	weld
DN10	40	weld & tri-clamp
DN15	50, 63	weld & tri-clamp
DN20	63, 80	weld & tri-clamp
DN25	63, 80	weld & tri-clamp
DN32	90, 100	weld
DN40	90, 100	weld & tri-clamp
DN50	90, 100	weld & tri-clamp

The externally piloted diaphragm valve consists of a pneumatically operated piston actuator, a diaphragm and a 2-way valve housing made of investment cast stainless steel;

The standard material of the actuator is PPS, with its favourable flow characteristics and zero dead volume, the valve housing enables high flow capacities and a variety of applications to be realized.

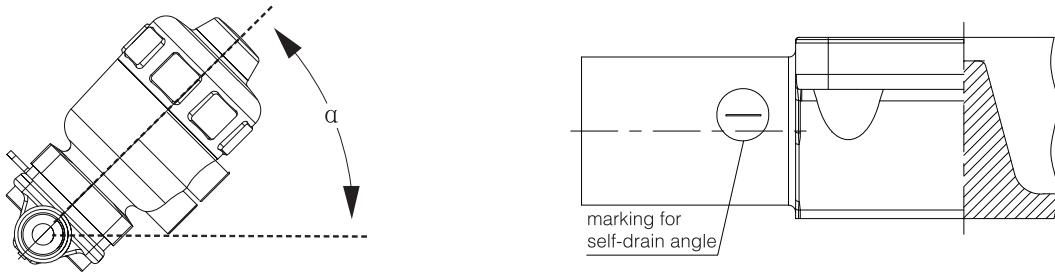
Maintenance free, compatible with various accessories, direction indicating, stroke limiting or manual switching can be achieved conveniently.

Kv-values

Port size	DN(mm)	Actuator(mm)	Orifice diaphragm size(mm)	Kv-value water ¹⁾ (m³/h)	Pilot pressure (bar)		Max. operating pressure for seal material (bar)	
					min.	max.	EPDM, FKM	PTFE/EPDM, advanced PTFE/EPDM
-	DN4/6	40	8	0.8	5.0	7.0	10.0	10.0
G1/4"	DN8	40	8	1.0	5.0	7.0	10.0	10.0
G3/8"	DN10	40	8	1.0	5.0	7.0	10.0	10.0
G1/2"	DN15	50	15	4.0	5.0	7.0	8.5	5.0
		63	15	4.5	5.0	7.0	10.0	10.0
G3/4"	DN20	80	20	7.5	5.0	7.0	10.0	10.0
G1"	DN25	80	25	12.0	5.5	7.0	10.0	7.5
G1 1/4"	DN32	90	32	30.0	5.5	7.0	6.5	6.0
G1 1/2"	DN40	90	40	30.0	5.5	7.0	10.0	10.0
G2"	DN50	100	50	51.5	5.5	7.0	4.5	2.5

1) Measured at +20! , 1bar pressure at valve inlet and free outlet.
Remark: For low operating pressures we recommend reduced spring versions.

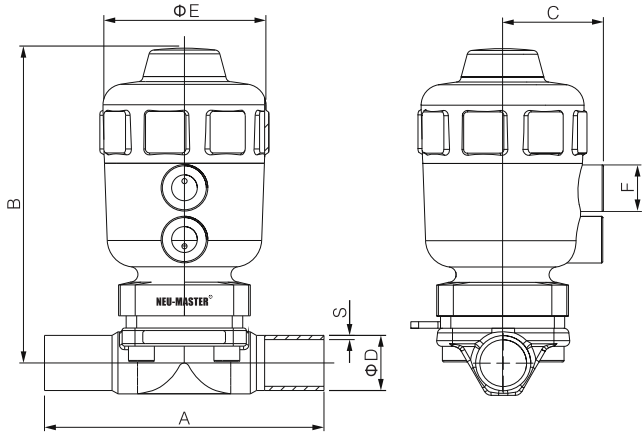
Installation for self-draining operation



a=15 up to 35 (Marking must face upwards, 12 o'clock position), plus 1 to 5 inclination to the pipe axis
 Drain marks permanently marked on both sides of the valve body show the correct mounting position to optimise drain ability.

Dimensions

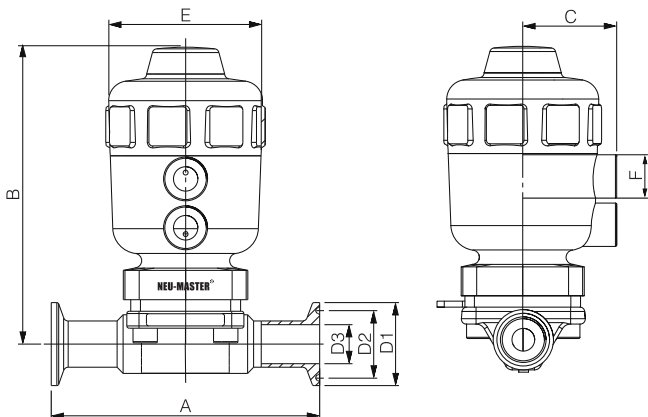
Body with weld ends



Port size	DN(mm)	Actuator	A	B	C	D	S	E	F
-	DN4	40	90	100	34	6.0	1.0	53	G1/8
-	DN6	40	90	100	34	8.0	1.0	53	G1/8
G1/4"	DN8	40	90	100	34	13.5	1.6	53	G1/8
G3/8"	DN10	40	90	100	34	17.2	1.6	53	G1/8
G1/2"	DN15	50	110	121	39	21.3	1.6	64	G1/8
		63	110	138	52	21.3	1.6	80	G1/8
G3/4"	DN20	63	119	148	52	26.9	1.6	80	G1/8
		80	119	174	60	26.9	1.6	101	G1/4
G1"	DN25	63	129	157	52	33.7	2.0	80	G1/8
		80	129	177	60	33.7	2.0	101	G1/4
G1 1/4"	DN32	90	161	203	65	42.4	2.0	115	G1/4
		100	161	233	73	42.4	2.0	127	G1/4
G1 1/2"	DN40	90	161	203	65	48.3	2.0	115	G1/4
		100	161	233	73	48.3	2.0	127	G1/4
G2"	DN50	90	192	214	65	60.3	2.0	115	G1/4
		100	192	244	73	60.3	2.0	127	G1/4

Weld ends specifications: DN 4/6: DIN 11850; DN 8-DN50: EN ISO1127/ISO 4200

Body with clamp connection



Port size	DN(mm)	Actuator	A	B	C	D1	D2	D3	E	F
G1/4"	DN8	40	89	100	34	25	20.22	7.1	53	G1/8
G3/8"	DN10	40	89	100	34	25	20.22	10.3	53	G1/8
G1/2"	DN15	50	110	121	39	34	27.5	16.0	64	G1/8
		63	110	138	52	34	27.5	16.0	80	G1/8
G3/4"	DN20	63	119	148	52	34	27.5	20.0	80	G1/8
		80	119	174	60	34	27.5	20.0	101	G1/4
G1"	DN25	63	129	157	52	50.5	43.5	22.6	80	G1/8
		80	129	177	60	50.5	43.5	22.6	101	G1/4
G1 1/2"	DN40	90	161	203	65	50.5	43.5	35.6	115	G1/4
		100	161	233	73	50.5	40.5	35.6	127	G1/4
G2"	DN50	90	192	214	65	64	56.5	48.6	115	G1/4
		100	192	244	73	64	56.5	48.6	127	G1/4

Clamp specifications: DN 8-DN10: BS4525; DN 15-DN50: ISO2852