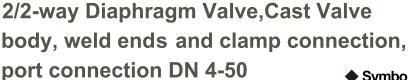
Diaphragm Valve, Pneumatically Operated

Series DM(DM10 Tri-Clamp,Dm20 Weld Ends)



Symbol

Control function B

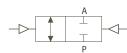
- Hermetical separation of fluids from the operating mechanism by diaphragm;
- Zero dead volume;
- Various surface finishes:
- universal accessory program up to control heads;

(closed by spring force in rest position)

Control function A

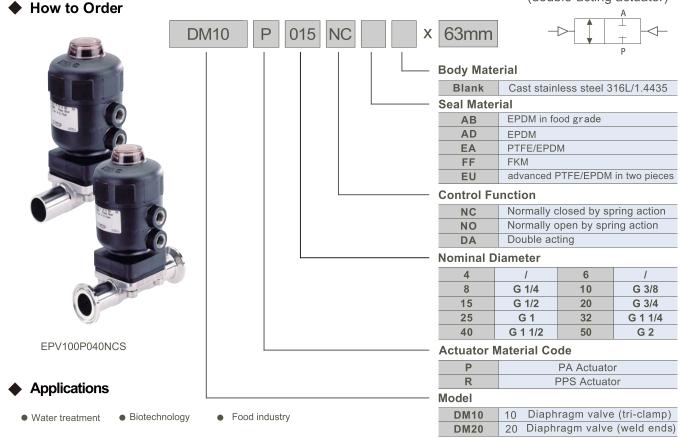
(open by spring force in rest position)

FESCO



Control function I

(double-acting actuator)



Actuator Size

Port Size	Standard Actuator Size (mm)						
Port Size		Connection					
DN 4	40	weld					
DN 6	40	weld					
DN 8	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

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

Diaphragm Valve, Pneumatically Operated Series DM(DM10 Tri-Clamp, Dm20 Weld Ends)

Specifications

Model /	Specifications	DN 4/6	DN 8	DN10	DN15	DN20	DN25	DN32	DN40	DN50
Control	Function	2/2 way normally closed(NC)/opend (open)								
Actuator Material PA/PPS Actuator										
Valve B	dy Material Stainless steel 316L									
Nomina	l Pressure	ressure PN16(body)								
Pilot Pre	essure	max.7 bar.								
Diaphra	gm Materials	EPDM	(AB),PTFE	/EPDM(EA)	EPDM(AD)	advanced F,	PTFE/EPDN	I(EU) and F	KM(FF) on	request
Operati	Operating Method Plunger Pilot									
Mediun	Medium Neutral Gases and liquids, high purity, sterile, aggressive or abrasive fluids									
Viscosit	Viscosity up to viscous									
	EPDM(AB) PTFE/EPDM(EA)		- 10 ~130℃ (steam sterilisation +140℃ for 60min							
Medium Temperature	EPDM(AD) advanced PTFE/ EPDM(EU)		- 5∼143℃ (steam sterilisation +150℃ for 60min							
	FKM(FF)	- 0 ∼130°C (not recommended for steam)								
Ambient Temperature PA Actuator: -10~120°C										
Installat	ion	As required, preferably with actuator in upright position								
Control	Medium	Neutral gases,air								

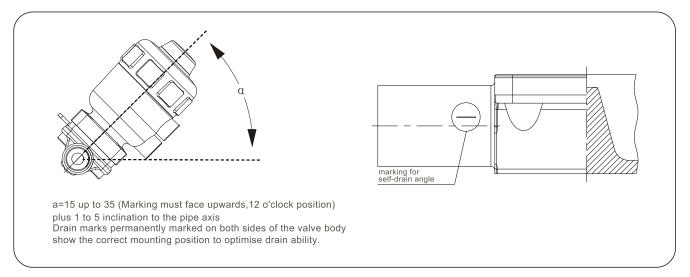
Kv-values

Port	DN	Actuator (mm)	Orifice Diaphragm size	Kv-value water 1)	Pilot pres	ssure (bar)	Max.operating pressure for seal material (bar)		
Size	Size (mm)		(mm)	(m ³ /h)	min.	max.	EPDM,FKM	PTFE/EPDM,advanced PTFE/EPDM	
/	DN 4/6	40	8	0.8	5.0	7.0	10.0	10.0	
1/4"	DN 8	40	8	1.0	5.0	7.0	10.0	10.0	
3/8"	DN10	40	8	1.0	5.0	7.0	10.0	10.0	
1/2"	1/2" DN15	50	15	4.0	5.0	7.0	8.5	5.0	
1/2	DIVIS	63	15	4.5	5.0	7.0	10.0	10.0	
3/4"	DN20	80	20	7.5	5.0	7.0	10.0	10.0	
1"	DN25	80	25	12.0	5.5	7.0	10.0	7.5	
1-1/4	DN32	90	32	30.0	5.5	7.0	6.5	6.0	
1-1/2	DN40	90	40	30.0	5.5	7.0	10.0	10.0	
2"	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.

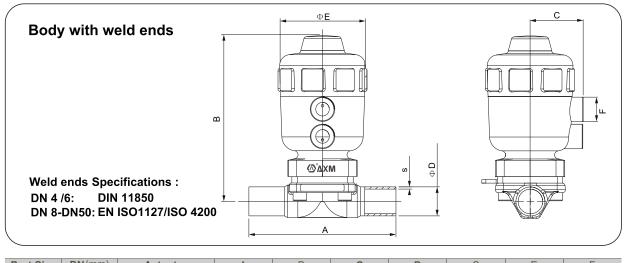
Installation for self-draining operation



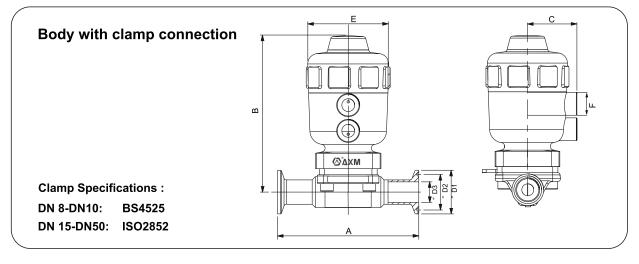


Diaphragm Valve,Pneumatically Operated Series GM(DM10 Tri-Clamp,Dm20 Weld Ends)

Dimensions [mm]



Port Size	DN (mm)	Actuator	A	В	С	D	S	E	F
/	DN 4	40	90	100	34	6.0	1.0	53	G 1/8
/	DN 6	40	90	100	34	8.0	1.0	53	G 1/8
1/4"	DN 8	40	90	100	34	13.5	1.6	53	G 1/8
3/8"	DN10	40	90	100	34	17.2	1.6	53	G 1/8
1/2"	DN15	50	110	121	39	21.3	1.6	64	G 1/8
172	DINIS	63	110	138	52	21.3	1.6	80	G 1/8
3/4"	DN20	63	119	148	52	26.9	1.6	80	G 1/8
3/4		80	119	174	60	26.9	1.6	101	G 1/4
1"	DN25	63	129	157	52	33.7	2.0	80	G 1/8
1		80	129	177	60	33.7	2.0	101	G 1/4
1-1/4	DN32	90	161	203	65	42.4	2.0	115	G 1/4
1-1/4		100	161	233	73	42.4	2.0	127	G 1/4
1-1/2	DN40	90	161	203	65	48.3	2.0	115	G 1/4
1-1/2		100	161	233	73	48.3	2.0	127	G 1/4
2"	DN50	90	192	214	65	60.3	2.0	115	G 1/4
2"		100	192	244	73	60.3	2.0	127	G 1/4



Port Size	DN(mm)	Actuator (mm)	А	В	С	D1	D2	D3	E	F
1/4"	DN 8	40	89	100	34	25	20.22	7.1	53	G 1/8
3/8"	DN10	40	89	100	34	25	20.22	10.3	53	G 1/8
1/2"	DN15	50	110	121	39	34	27.5	16.0	64	G 1/8
1/2	DINIS	63	110	138	52	34	27.5	16.0	80	G 1/8
3/4"	DN20	63	119	148	52	34	27.5	20.0	80	G 1/8
		80	119	174	60	34	27.5	20.0	101	G 1/4
1"	DN25	63	129	157	52	50.5	43.5	22.6	80	G 1/8
1		80	129	177	60	50.5	43.5	22.6	101	G 1/4
1-1/2	DN40	90	161	203	65	50.5	43.5	35.6	115	G 1/4
1-1/2		100	161	233	73	50.5	40.5	35.6	127	G 1/4
2"	DN50	90	192	214	65	64	56.5	48.6	115	G 1/4
	D1130	100	192	244	73	64	56.5	48.6	127	G 1/4