

## USE

3F.. series valves are used to control fluids belonging to the group showed in the table in accordance to article 9 of 97/23/CE (PED) directive, in air-conditioning, thermoventilation and heating plants and in industrial processes; therefore, they cannot be used as safety valves.

## MANUFACTURING CHARACTERISTICS

They consist in a 3-way valve body to be assembled on electrical bidirectional actuator.



## MOTORIZED VALVES TECHNICAL CHARACTERISTICS AND PERFORMANCES

Model	3FGB DN25÷150	3FSA DN25÷80	3FSAS DN25÷80	3FAA DN25÷125	3FAA.P DN25÷125
Construction	PN16	PN25	PN25 <sup>(3)</sup>	PN40 <sup>(7)</sup>	PN40 <sup>(7)</sup>
Body	cast iron	spher. Cast iron	spher. Cast iron	steel	steel
Seat	cast iron	stainless steel	stainless steel	stainless steel	stainless steel
Plug	forged brass	stainless steel	stainless steel	stainless steel	stainless steel
Stem (D 9 mm.)	stainless steel	stainless steel	stainless steel	stainless steel	stainless steel
Control characteristic	direct way=equal perc. Angle way=linear	Direct way=equip. (DN25÷65) linear (DN80) angle way=linear	Direct way=equip. (DN25÷65) linear (DN80) angle way=linear	linear	linear
Stem packing	EPDM O-ring <sup>(5)</sup>	Teflon V-ring	Stainless steel bellows	Teflon V-ring	<sup>(2)</sup>
Max. Fluid temp. °C	150	230	300	230	350
Min. Fluid temp. °C	-10 <sup>(1)</sup>	-10 <sup>(1)</sup>	-10 <sup>(1)</sup>	-10 <sup>(1)</sup>	-20 <sup>(1)(4)</sup>
Fluid (5)	Group 2	Group 2	Group 1	Group 2	Group 1
Connections	Flanged PN16	Flanged PN25	Flanged PN25	Flanged PN40	Flanged PN40
Leakage	direct way 0,03	0,02	0,02	0,02	0,02
Kvs % (8)	angle way 2				

(1) For applications with possible ice formation on stem and packing, see 248 accessory.

(2) Graphite packing for high temperatures; forced lubrication on extended neck. Teflon packing for low temperatures, see (4).

(3) Due to the bellows presence, the max applicable pressure must not be higher than 5 bar

(4) For applications on fluids from -10 to -20 °C replace letter P with the T, e.g. 3FAA50T. In such case the max temperature is 230°C

(5) Double O-ring and graphite teflon scraper ring.

(6) Group 1: water, overheated water, steam, diathermic oil.

For different fluids belonging to group 1, please contact our Sales Support.

Group 2: water, overheated water, steam.

For different fluids belonging to group 2, please contact our Sales Support

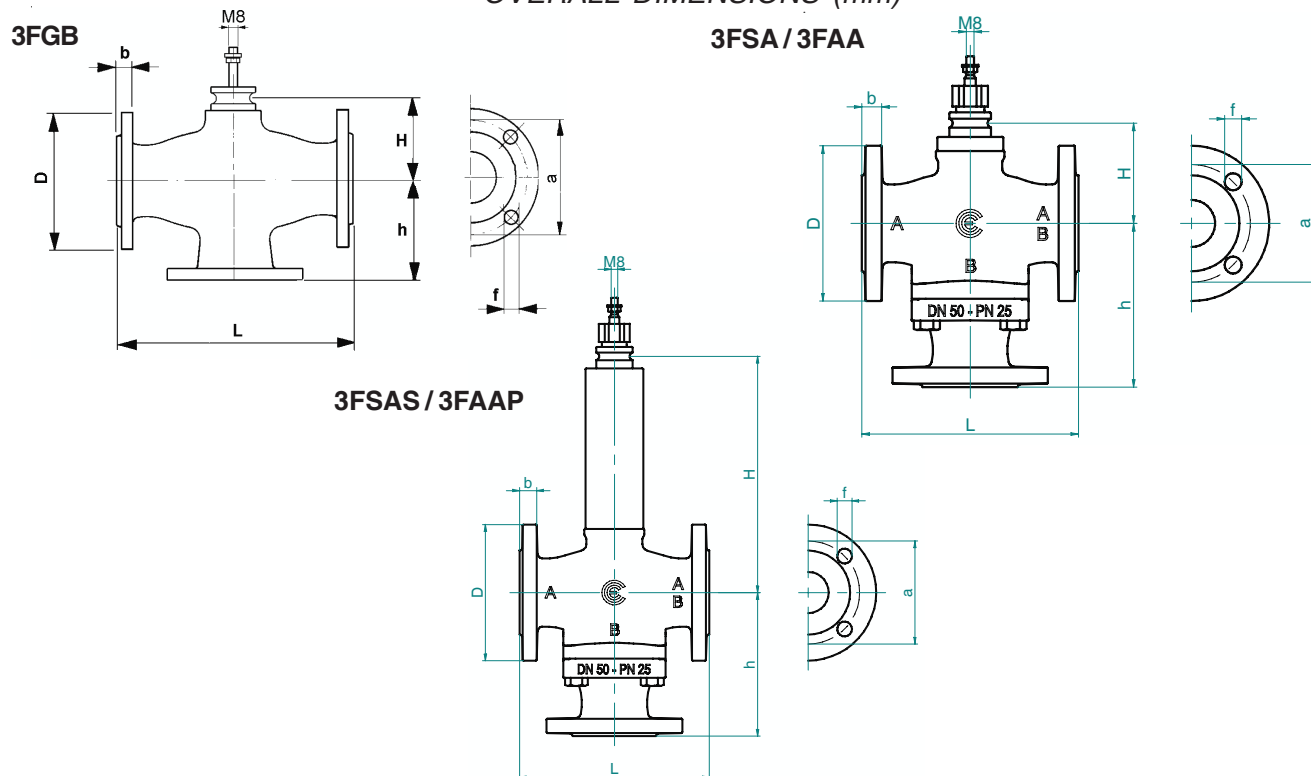
(7) PN25 only for 3FAA125 and 3FAA125P.

(8) Leakage is measured according to the EN1349 standard.





OVERALL DIMENSIONS (mm)



Model	DN	L	H	h	D	b	a	f	N° holes	Weight Kg.	Stroke mm
3FGB (PN16)	25	160	50	80	115	16	85	14	4	5,2	16,5
	40	200	64	100	150	18	110	18	4	9,4	25
	50	230	66	115	165	20	125	18	4	14	25
	65	290	84	145	185	20	145	18	4	19,1	25
	80	310	94	155	200	22	160	18	8	23,5	45
	100	350	105	175	220	22	180	18	8	32	45
	125	400	128	200	250	24	210	18	8	45,6	45
150	480	146	240	285	24	240	22	8	61,2	45	
3FSA (PN25)	25	160	92	137	115	18	85	14	4	8	16,5
	32	180	97	159	140	20	100	18	4	12	25
	40	200	98	162	150	20	110	18	4	14	25
	50	230	107	171	165	22	125	18	4	18	25
	65	270	117	190	185	24	145	18	8	25	25
3FSA (PN25)	80	310	181	207	200	26	160	18	8	42,8	45
3FAA (PN40)	25	160	124	140	115	17	85	14	4	12,4	16,5
	32	180	139	157	140	17	100	18	4	18,2	25
	40	200	165	160	150	17	110	18	4	21,6	25
	50	230	168	172	165	19	125	18	4	26	25
	65	270	183	190	185	21	145	18	8	36	25
	80	310	199	207	200	23	160	18	8	47,8	45
	100	350	178	247	235	24	190	22	8	55	45
125	400	203	282	270	26	220	25	8	78	45	
3FSAS (PN25)	25	160	274	137	115	18	85	14	4	10	16,5
	32	180	279	159	140	20	100	18	4	15	25
	40	200	280	162	150	20	110	18	4	17	25
	50	230	289	171	165	22	125	18	4	21	25
	65	270	299	191	185	24	145	18	8	29	25
3FSAS (PN25)	80	310	413	207	200	26	160	18	8	45,6	45
3FAAP (PN40)	25	160	195	140	115	18	85	14	4	15,7	16,5
	32	180	269	157	140	18	100	18	4	22,3	25
	40	200	277	160	150	18	110	18	4	25	25
	50	230	293	172	165	20	125	18	4	29,7	25
	65	270	308	190	185	22	145	18	8	39,3	25
	80	310	324	207	200	24	160	18	8	50,8	45
	100	350	303	247	235	24	190	22	8	67	45
125	400	328	282	270	26	220	25	8	98,6	45	

The performances stated in this sheet can be modified without any prior notice due to design improvements

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DBL317E

**CONTROLLI**  
by Schneider Electric

Automatic control systems for:  
air conditioning/heating/industrial thermal process.

ISO 9000