



QINGDAO HIGH-FLYER INTELLIGENT MANUFACTURING CO.,LTD.

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Brief introduction

Qingdao High-Flyer Intelligent Manufacturing Co., Ltd. is a professional manufacturer specializing manufacturing pneumatic control valve. With our team's innovative spirit, strong R&D capability, accumulated stainless steel processing experience, state of art testing equipment, strict Quality control, enables us to meet our customer's need and stay on top of the competition.

Tailor-made ERP system manages our every process of our operation. It creates means of offering the qualified product continuously, flexible service to adapt and exceed our customer's demand. High-Flyer, a people humanistic company, We don't just sell product, we sell value.

High-Flyer Angle Seat Valves

Introduction

An angle seat valve is actuated by a pneumatically driven piston and is capable to handle slurry solutions with particles or corrosive solutions at high temperature up to 180°C and operating pressure up to 16 Bar.

Benefits

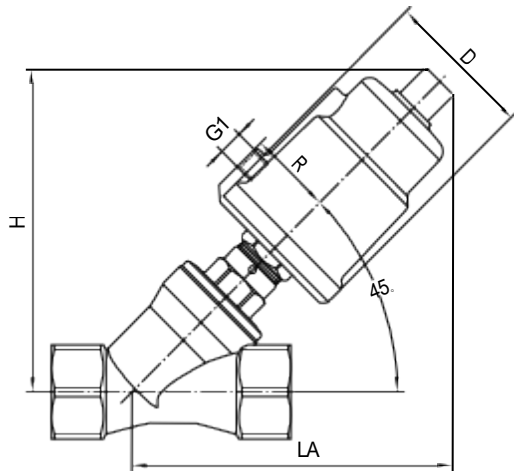
- Compact design, high flow rates
- Visual position indicator
- For temperatures from -10°C to 180°C
- Working pressures up to 16 Bar • Dampened closing anti-water hammer design (fluid under seat)
- Stainless Steel actuator housing for exceptional durability in steam and aggressive applications
- Valves meeting Pressure Equipment Directive 97/23/EC
- Mountable in any position
- Tight shut-off and Long Service Life

Applications

Angle seat valves are suitable for many process and industrial applications:

- Food and Beverage Processing
- Water Technology & Treatment
- Textile Industry
- Cooling systems on injection molding machines
- Pharmaceutical & cosmetic industry
- Chemical Process technology
- Refrigeration & Cooling heat exchangers
- Sterilizers steam supply
- Water applications: Mining, Cement / Concrete Systems, Pulp & Paper
- General industrial applications of aggressive fluids
- Industrial Laundry Equipment • Industrial Air Dryers

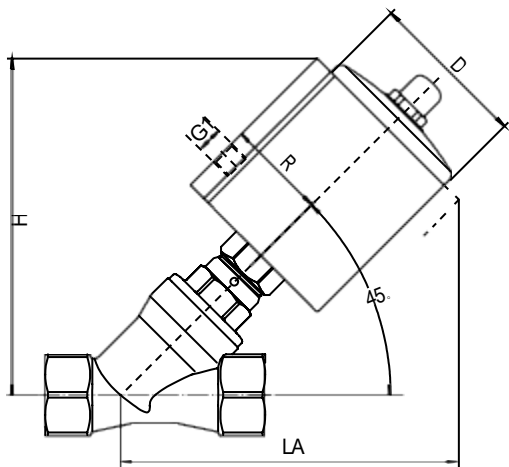
Installation Dimensions



Installation size (mm)

Size	Actuator	D	R	G1	H/LA		
					Thread	ISO1127/4200	DIN11850
DN10	40	50.5	27	G1/8	109	110	110
	50	62	34	G1/8	121	122	122
DN15	40	50.5	27	G1/8	109	109	109
	50	62	34	G1/8	121	121	121
DN20	50	62	34	G1/8	125	125	125
DN25	50	62	34	G1/8	131	131	131
	63	77	41.5	G1/8	153	153	153
DN32	63	77	41.5	G1/8	161	161	161
	80	98	52	G1/4	178	178	178
DN40	63	77	41.5	G1/8	169	169	169
	80	98	52	G1/4	185	185	185
	100	121	63	G1/4	203	203	203
DN50	63	77	41.5	G1/8	180	180	180
	80	98	52	G1/4	195	195	195
	100	121	63	G1/4	213	213	213
DN65	80	98	52	G1/4	220	220	220
	100	121	63	G1/4	237	237	237

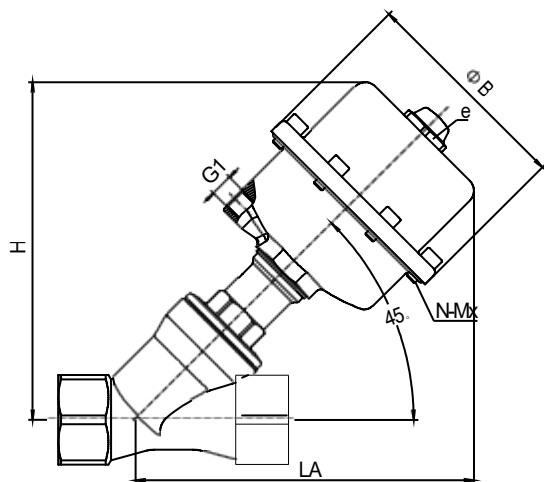
Installation Dimensions



Installation size (mm)

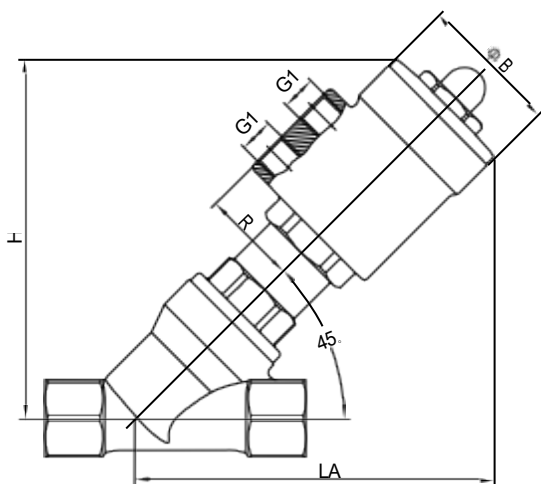
Size	Actuator	D	R	G1	H/LA		
					Thread	ISO1127/4200	DIN11850
DN10	40	50	33	G1/8	115	116	116
	50	61	38	G1/8	127	128	128
DN15	40	50	33	G1/8	115	115	115
	50	61	38	G1/8	127	127	127
DN20	50	61	38	G1/8	130	130	130
DN25	50	61	38	G1/8	136	136	136
	63	75	45	G1/8	158	158	158
DN32	63	75	45	G1/8	167	167	167
	80	94	54	G1/4	185	185	185
DN40	63	75	45	G1/8	174	174	174
	80	94	54	G1/4	192	192	192
	100	115	64	G1/4	212	212	212
DN50	63	75	45	G1/8	185	185	185
	80	94	54	G1/4	203	203	203
	100	115	64	G1/4	222	222	222
DN65	80	94	54	G1/4	224	224	224
	100	115	64	G1/4	244	244	244

Installation Dimensions



Installation size (mm)

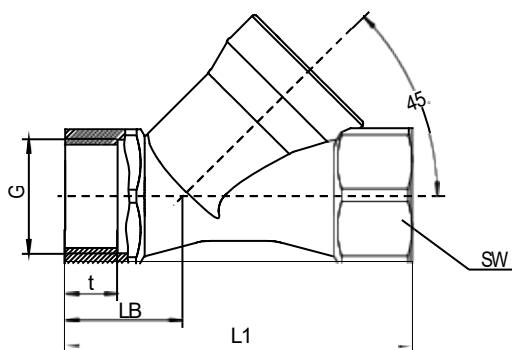
Size	Actuator	ΦB	G1	e	N-Mx	H/LA		
						Thread	Welded ISO1127/4200	Welded DIN11850
DN10	50	71	G1/8	M16×1.5	6-M4	121	122	122
DN15	50	71	G1/8	M16×1.5	6-M4	121	121	121
DN20	50	71	G1/8	M16×1.5	6-M4	123	123	123
	70	94	G1/8	M16×1.5	8-M5	141	141	141
DN25	50	71	G1/8	M16×1.5	6-M4	130	130	130
	70	94	G1/8	M16×1.5	8-M5	148	148	148
DN32	70	94	G1/8	M16×1.5	8-M5	157	157	157
	100	132	G1/4	M22×1.5	8-M6	192	192	192
DN40	70	94	G1/8	M16×1.5	8-M5	164	164	164
	100	132	G1/4	M22×1.5	8-M6	202	202	202
	125	160	G1/4	M22×1.5	14-M6	228	228	228
DN50	70	94	G1/8	M16×1.5	8-M5	174	174	174
	100	132	G1/4	M22×1.5	8-M6	212	212	212
	125	160	G1/4	M22×1.5	14-M6	238	238	238
DN65	100	132	G1/4	M22×1.5	8-M6	239	239	239
	125	160	G1/4	M22×1.5	14-M6	271	271	271



F32 Installation size (mm)

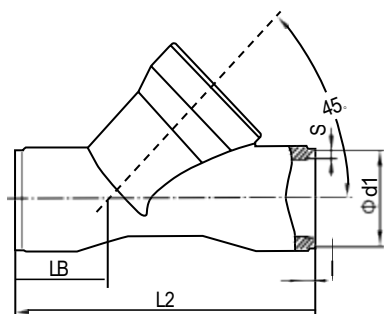
Size	Actuator	ΦB	R	G1	H/LA		
					Thread	Welded ISO1127/4200	Welded DIN11850
DN10	32	40	27	G1/8	102	103	103
DN15	32	40	27	G1/8	102	102	102
DN20	32	40	27	G1/8	106	106	106

Valve Body Size



Body size-Thread (mm)

						BSP	NPT	NPTF	BSPT
DN	L1	LB	SW		G	t	t	t	t
10	74	25.5	22	6-kt	3/8"	10	10.6	11.7	10.1
15	74	25.5	25	6-kt	1/2"	11.5	13.8	15.4	13.2
20	84	29	31	6-kt	3/4"	14	14.3	15.9	14.5
25	100	33.5	39	6-kt	1"	15	17	19	16.8
32	112	36	50	8-kt	1-1/4"	18	17.5	19.5	19.1
40	126	41	56	8-kt	1-1/2"	18	17.5	19.5	19.1
50	146	46	68	8-kt	2"	22	18	19.9	23.4
65	196	61	85	8-kt	2-1/2"	25	24	30	26.7

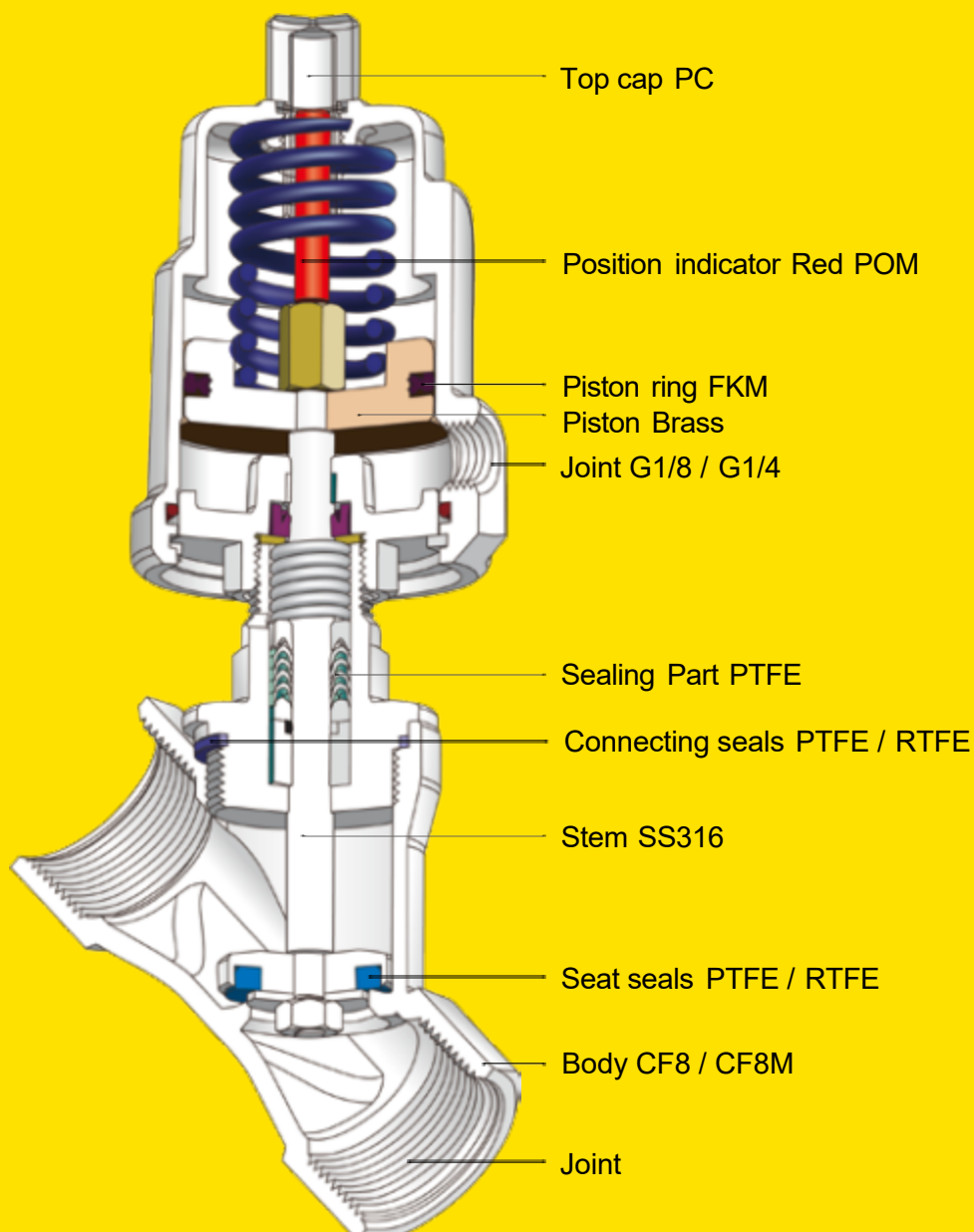


Body size-Welded (mm)

			ISO1127/4200			DIN11850.1			DIN11850.2			DIN11850.3		
DN	L2	LB	I	Φd1	S	I	Φd1	S	I	Φd1	S	I	Φd1	S
10	70	22	2	17.2	1.6	2	12	1	2	13	1.5	2	14	2
15	88	30	2	21.3	1.6	2	18	1	2	19	1.5	2	20	2
20	92	30	2.5	26.9	1.6	2.5	22	1	2.5	23	1.5	2.5	24	2
25	110	35	3	33.7	2	3	28	1	3	29	1.5	3	30	2
32	126	39	3	42.4	2	3	34	1	3	35	1.5	3	36	2
40	144	46	3	48.3	2	3	40	1	3	41	1.5	3	42	2
50	166	48	3	60.3	2	3	52	1	3	53	1.5	3	54	2
65	208	60	3	76.1	2	-	-	-	3	70	2	-	-	-

			SMS 3008			ASME BPE			The technical data is the same with below sizes of any other welded standard					
DN	L2	LB	I	Φd1	s	I	Φd1	s						
15	70	22	2.5	12	1	2.5	12.7	1.65	DN10					
20	88	30	2	18	1	2	19.05	1.65	DN15					
25	92	30	2.5	25	1.2	2.5	25.4	1.65	DN20					
40	126	39	3	38	1.2	3	38.1	1.65	DN32					
50	144	46	3	51	1.2	3	50.8	1.65	DN40					
65	166	48	3	63.5	1.6	3	63.5	1.65	DN50					
80	208	60	3	76.1	1.6	3	76.2	1.65	DN65					

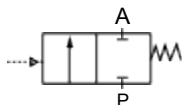
H2500



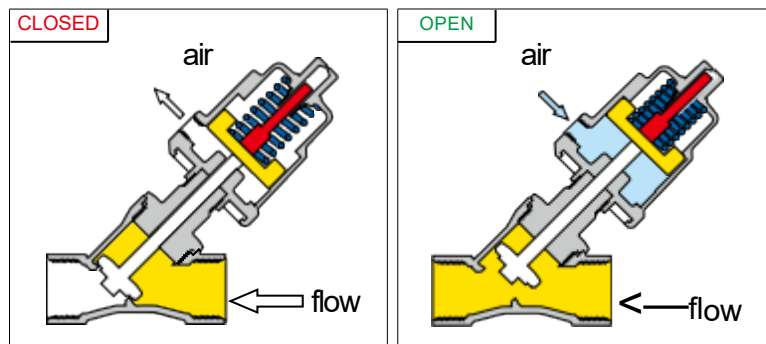
Technical Data

Joint size:	DN10-DN65	Stem seals:	PTFE/FKM
Thread:	BSP, BSPT.NPT, NPTF	Piston seals:	FKM
Welded:	ISO1127/4200, DIN11850.1, DIN11850.2 DIN11850.3, SMS3008, ASME BPE	Applicable medium:	Water, liquid, neutral gas, Water steam, Slight corrosive gas and liquid
Valve body:	CF8/CF8M	Temperature range:	-10°C to +180°C
Actuator:	CF8	Ambient temperature:	-10°C to +60°C
Seat seals:	PTFE/RTFE	Viscosity:	max 600mm ² /s
		Installation:	Any position
		Controlling medium:	Air or neutral gas
		Controlling pressure range:	0.3-1Mpa

H2500 Spring return normal close (Normal type)

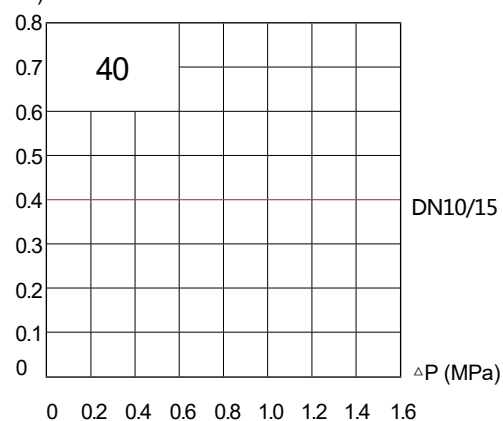


Normal close with flow direction

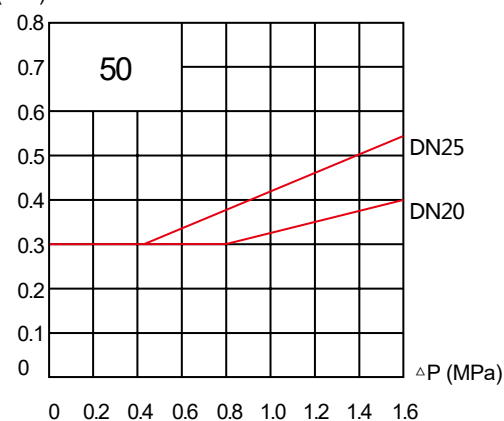


Size	End	Orifice (mm)	Actuator (mm)	Kv (m³/h)	Max working pressure at 180°C (Mpa)	Pressure range (Mpa)	Min control pressure (Mpa)
DN10	3/8"	13	40	4.7	1.6	0-1.6	≥ 0.4
			50	4.7		0-1.6	≥ 0.3
DN15	1/2"	13	40	4.7		0-1.6	≥ 0.4
			50	4.7		0-1.6	≥ 0.3
DN20	3/4"	18	50	9.5		0-1.6	0.3-0.4
			50	18.1		0-1.6	0.3-0.55
DN25	1"	24	63	18.1		0-1.6	0.3-0.35
			63	23.1		0-1.6	0.3-0.5
DN32	1-1/4"	31	63	32.9		0-1.6	0.3-0.6
			63	52.8		0-1.0	0.3-0.65
DN50	2"	45	80	52.8		0-1.6	0.3-0.66
			100	52.8		0-1.6	0.3-0.5
			100	82		0-1.0	0.3-0.6
DN65	2-1/2"	65	100	82		0-1.0	0.3-0.6

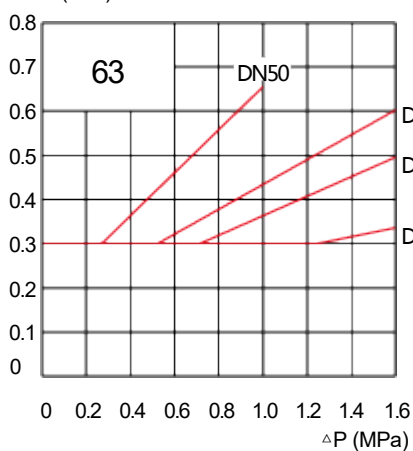
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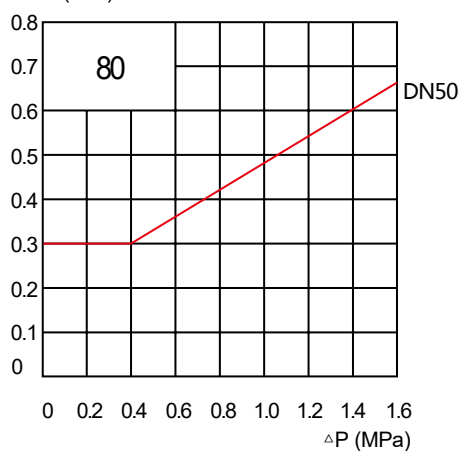
Ctrl P (MPa)



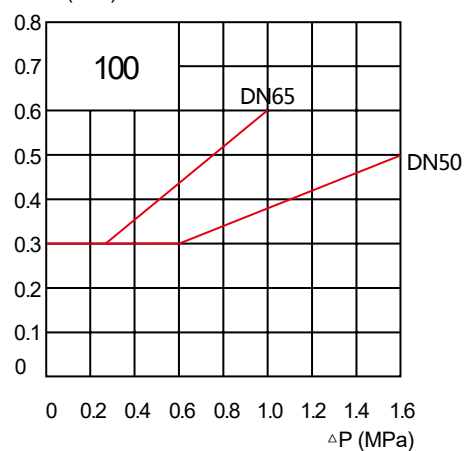
Ctrl P (MPa)



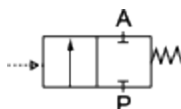
Ctrl P (MPa)



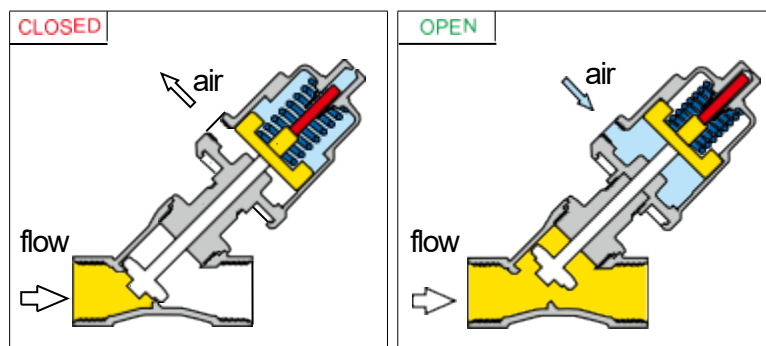
Ctrl P (MPa)



H2500 Spring return normal close (Anti-water hammer)

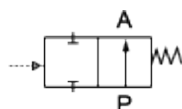


Normal close against flow direction

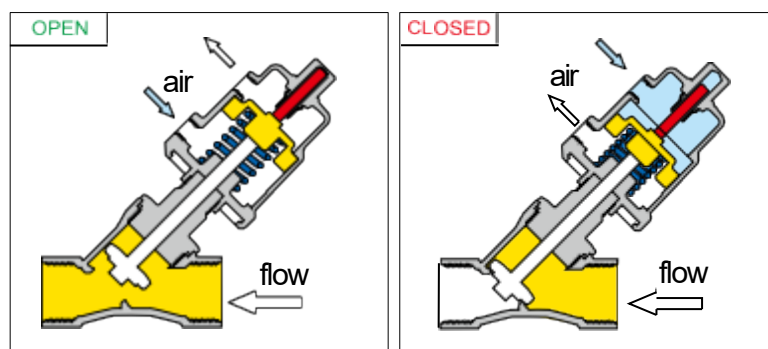


Size	End	Orifice (mm)	Actuator (mm)	Kv (m³/h)	Max working pressure at 180°C (Mpa)	Pressure range (Mpa)	Min control pressure (Mpa)
DN10	3/8"	13	50	4.7	1.6	0-1.6	0.45
DN15	1/2"	13	50	4.7		0-1.6	0.45
DN20	3/4"	18	50	9.5		0-1.0	0.45
DN25	1"	24	63	18.1		0-0.8	0.45
DN32	1-1/4"	31	80	23.1		0-1.1	0.4
DN40	1-1/2"	35	80	32.9		0-0.8	0.4
			100	32.9		0-1.6	0.4
DN50	2"	45	100	52.8		0-0.9	0.4

H2500 Normal open

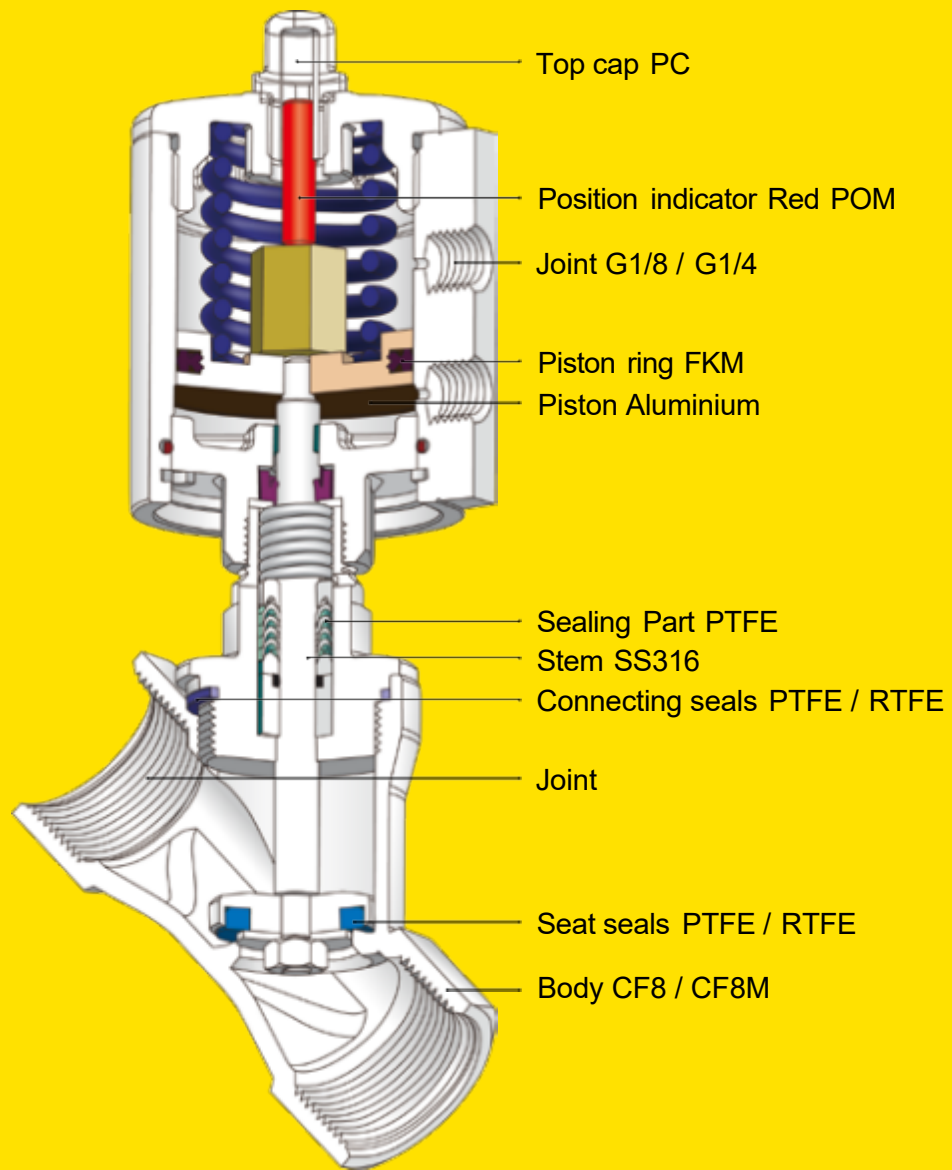


Normal open with flow direction



Size	End	Orifice (mm)	Actuator (mm)	Kv (m³/h)	Max working pressure at 180°C (Mpa)	Pressure range (Mpa)	Min control pressure (Mpa)
DN10	3/8"	13	50	4.7	1.6	0-1.6	0.35
DN15	1/2"	13	50	4.7		0-1.6	0.35
DN20	3/4"	18	50	9.5		0-1.6	0.35
DN25	1"	24	63	18.1		0-1.6	0.45
DN32	1-1/4"	31	63	23.1		0-1.4	0.45
DN40	1-1/2"	35	63	32.9		0-1.1	0.45
DN50	2"	45	63	52.8		0-0.6	0.5
			80	52.8		0-1.2	0.5

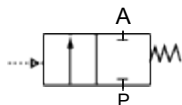
H2600



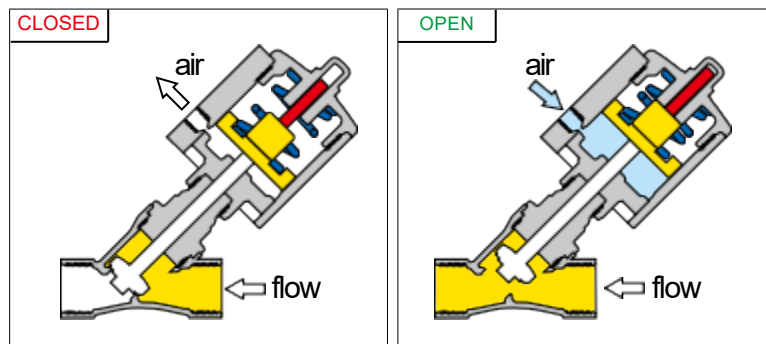
Technical Data

Joint size:	DN10-DN65	Stem seals:	PTFE/FKM
Thread:	BSP, BSPT.NPT, NPTF	Piston seals:	FKM
Welded:	ISO1127/4200, DIN11850.1, DIN11850.2 DIN11850.3, SMS3008, ASME BPE	Applicable medium:	Water, liquid, neutral gas, Water steam, Slight corrosive gas and liquid
Valve body:	CF8/CF8M	Temperature range:	-10°C to +180°C
Actuator:	Aluminium alloy	Ambient temperature:	-10°C to +60°C
Seat seals:	PTFE/RTFE	Viscosity:	max 600mm ² /s
		Installation:	Any position
		Controlling medium:	Air or neutral gas
		Controlling pressure range:	0.3-1Mpa

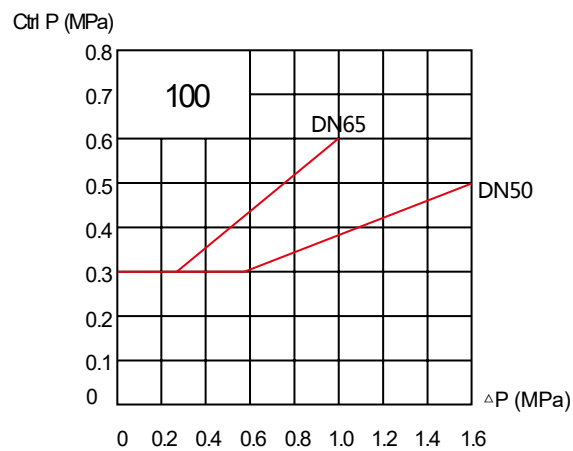
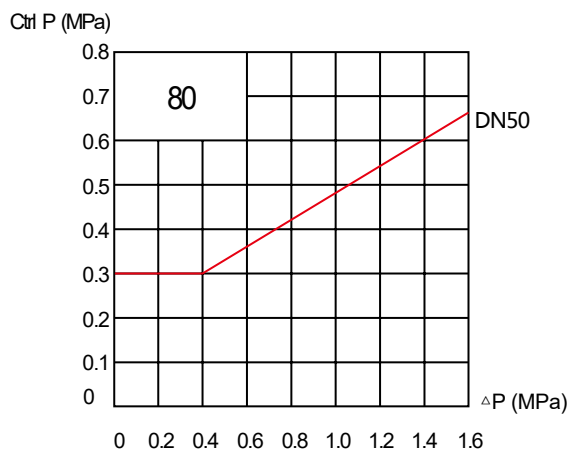
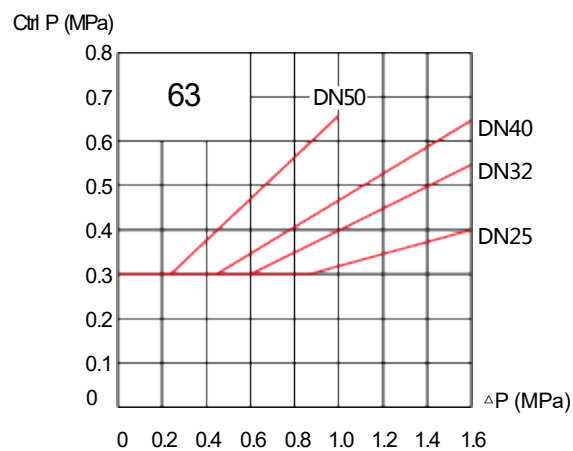
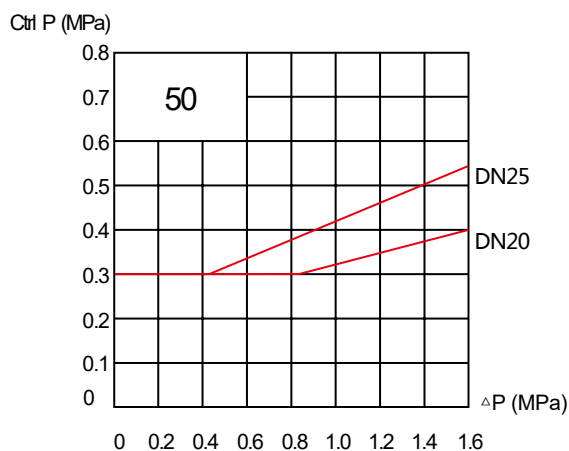
H2600 Spring return normal close (Normal type)



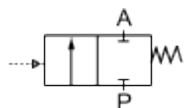
Normal close with flow direction



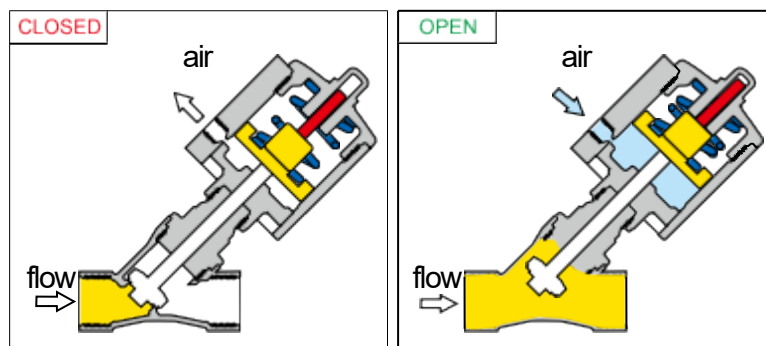
Size	End	Orifice (mm)	Actuator (mm)	Kv (m³/h)	Max working pressure at 180°C (Mpa)	Pressure range (Mpa)	Min control pressure (Mpa)
DN10	3/8"	13	50	4.7	1.6	0-1.6	≥ 0.3
DN15	1/2"	13	50	4.7		0-1.6	≥ 0.3
DN20	3/4"	18	50	9.5		0-1.6	0.3-0.4
DN25	1"	24	50	18.1		0-1.6	0.3-0.55
			63	18.1		0-1.6	0.3-0.4
DN32	1-1/4"	31	63	23.1		0-1.6	0.3-0.55
DN40	1-1/2"	35	63	32.9		0-1.6	0.3-0.65
			63	52.8		0-1.0	0.3-0.65
			80	52.8		0-1.6	0.3-0.66
DN50	2"	45	100	52.8		0-1.6	0.3-0.5
			100	82		0-1.0	0.3-0.6



H2600 Spring return normal close (Anti-water hammer)

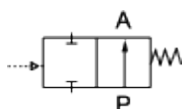


Normal close against flow direction

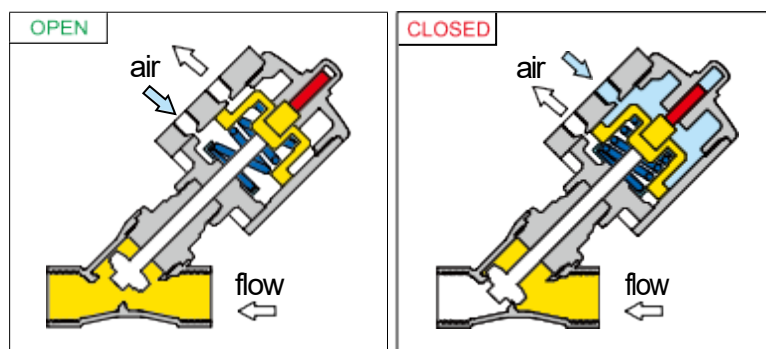


Size	End	Orifice (mm)	Actuator (mm)	Kv (m³/h)	Max working pressure at 180°C (Mpa)	Pressure range (Mpa)	Min control pressure (Mpa)
DN10	3/8"	13	50	4.7	1.6	0-1.6	0.45
DN15	1/2"	13	50	4.7		0-1.6	0.45
DN20	3/4"	18	50	9.5		0-1.0	0.45
DN25	1"	24	63	18.1		0-0.8	0.45
DN32	1-1/4"	31	80	23.1		0-1.1	0.4
DN40	1-1/2"	35	80	32.9		0-0.8	0.4
			100	32.9		0-1.6	0.4
DN50	2"	45	100	52.8		0-0.9	0.4

H2600 Normal open

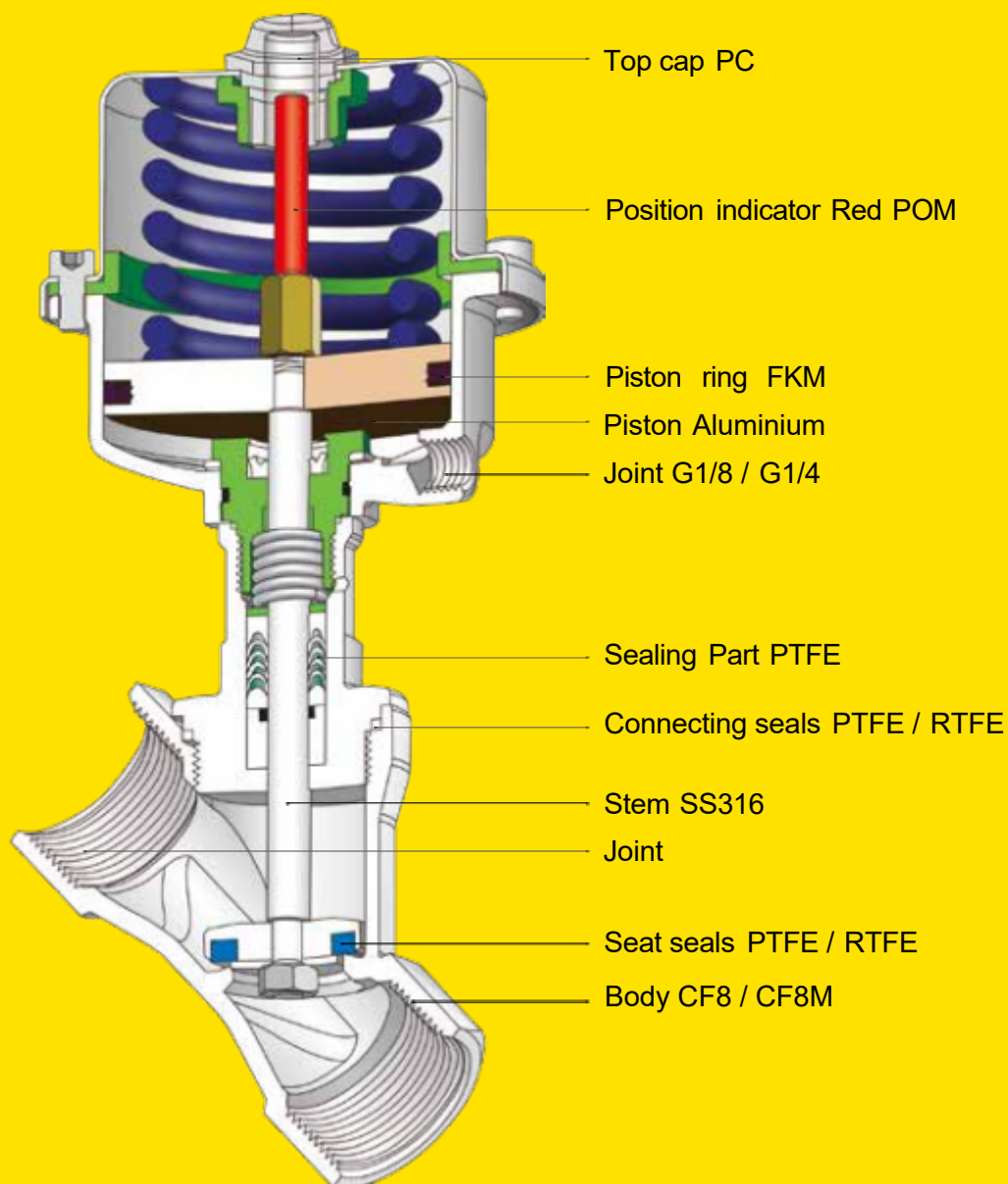


Normal open with flow direction



Size	End	Orifice (mm)	Actuator (mm)	Kv (m³/h)	Max working pressure at 180°C (Mpa)	Pressure range (Mpa)	Min control pressure (Mpa)
DN10	3/8"	13	50	4.7	1.6	0-1.6	0.35
DN15	1/2"	13	50	4.7		0-1.6	0.35
DN20	3/4"	18	50	9.5		0-1.6	0.35
DN25	1"	24	63	18.1		0-1.6	0.45
DN32	1-1/4"	31	63	23.1		0-1.4	0.45
DN40	1-1/2"	35	63	32.9		0-1.1	0.45
DN50	2"	45	63	52.8		0-0.6	0.5
			80	52.8		0-1.2	0.5

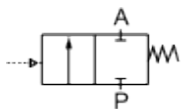
H3600



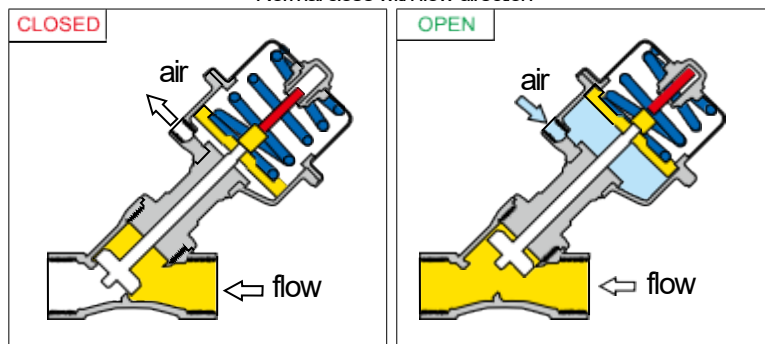
Technical Data

Joint size:	DN10-DN65	Stem seals:	PTFE/FKM
Thread:	BSP, BSPT.NPT, NPTF	Piston seals:	FKM
Welded:	ISO1127/4200, DIN11850.1, DIN11850.2 DIN11850.3, SMS3008, ASME BPE	Applicable medium:	Water, liquid, neutral gas, Water steam, Slight corrosive gas and liquid
Valve body:	CF8/CF8M	Temperature range:	-10°C to +180°C
Actuator:	CF8	Ambient temperature:	-10°C to +60°C
Seat seals:	PTFE/RTFE	Viscosity:	max 600mm ² /s
		Installation:	Any position
		Controlling medium:	Air or neutral gas
		Controlling pressure range:	0.3-1Mpa

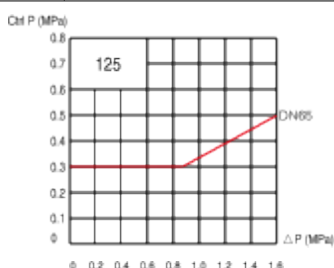
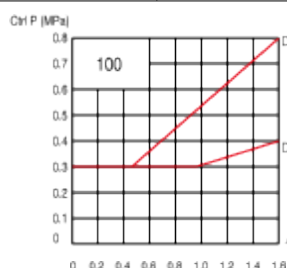
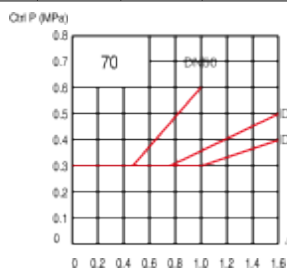
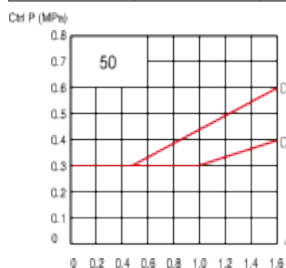
H3600 Spring return normal close (Normal type)



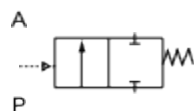
Normal close with flow direction



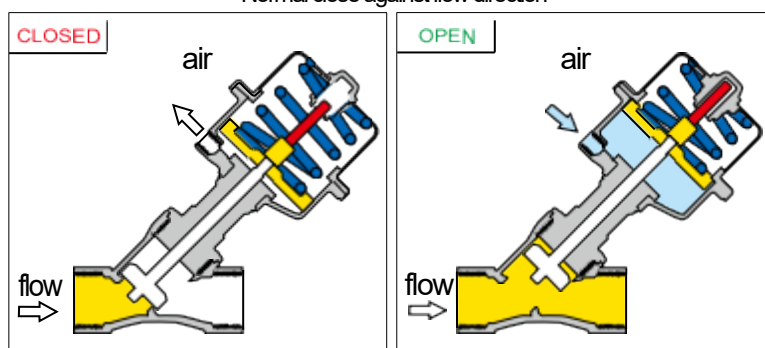
Size	End	Orifice (mm)	Actuator (mm)	Kv (m³/h)	Max working pressure at 180°C (Mpa)	Pressure range (Mpa)	Min control pressure (Mpa)
DN10	3/8"	13	50	4.7	1.6	0-1.6	≥ 0.3
DN15	3/8"	13	50	4.7		0-1.6	≥ 0.3
DN20	3/4"	18	50	9.5		0-1.6	0.3-0.4
DN25	1"	24	50	18.1		0-1.6	≥ 0.3
			70	18.1		0-1.6	0.3-0.4
DN32	1-1/4"	31	70	23.1		0-1.6	≥ 0.3
			100	23.1		0-1.6	0.3-0.5
			70	32.9		0-1.0	≥ 0.3
DN40	1-1/2"	35	100	32.9		0-1.6	0.3-0.6
			70	52.8		0-1.6	≥ 0.3
			100	52.8		0-1.6	0.3-0.4
DN50	2"	45	125	52.8		0-1.6	≥ 0.3
			100	82		0-1.6	0.3-0.8
			125	82		0-1.6	0.3-0.5



H3600 Spring return normal close (Anti-water hammer)

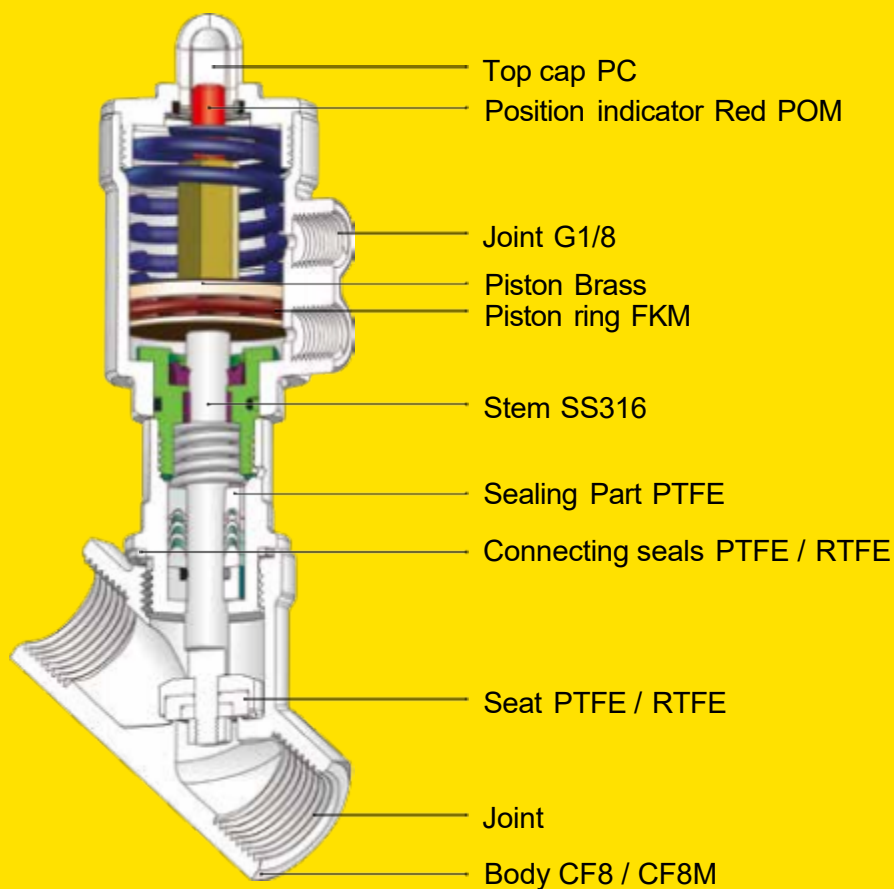


Normal close against flow direction



Size	End	Orifice (mm)	Actuator (mm)	Kv (m³/h)	Max working pressure at 180°C (Mpa)	Pressure range (Mpa)	Min control pressure (Mpa)
DN10	3/8"	13	50	4.7	1.6	0-1.6	0.4
DN15	1/2"	13	50	4.7		0-1.6	0.4
DN20	3/4"	18	50	9.5		0-1.0	0.4
			70	9.5		0-1.6	0.4
DN25	1"	24	70	18.1		0-1.4	0.4
			70	23.1		0-0.7	0.4
DN32	1-1/4"	31	100	23.1		0-1.6	0.4
			100	32.9		0-1.6	0.4
DN40	1-1/2"	35	125	32.9		0-1.6	0.45
			100	52.8		0-0.9	0.4
DN50	2"	45	125	52.8		0-1.6	0.45
			125	82		0-0.8	0.45

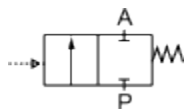
F32



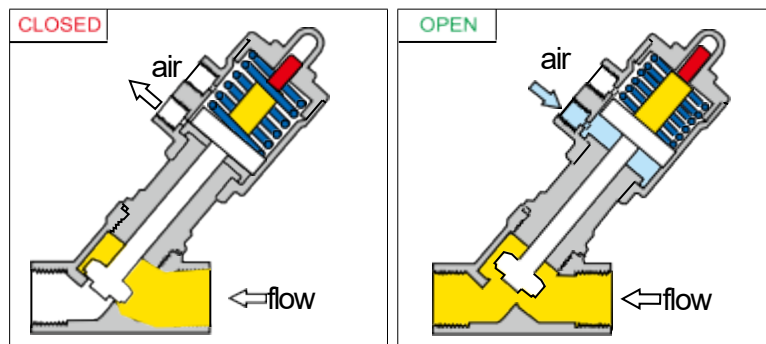
Technical Data

Joint size:	DN10-DN20	Stem seals:	PTFE/FKM
Thread:	BSP, BSPT.NPT, NPTF	Piston seals:	FKM
Welded:	ISO1127/4200, DIN11850.1, DIN11850.2 DIN11850.3, SMS3008, ASME BPE	Applicable medium:	Water, liquid, neutral gas, Water steam, Slight corrosive gas and liquid
Valve body:	CF8/CF8M	Temperature range:	-10°C to +180°C
Actuator:	CF8	Ambient temperature:	-10°C to +60°C
Seat seals:	PTFE/RTFE	Viscosity:	max 600mm ² /s
		Installation:	Any position
		Controlling medium:	Air or neutral gas
		Controlling pressure range:	0.45-1Mpa

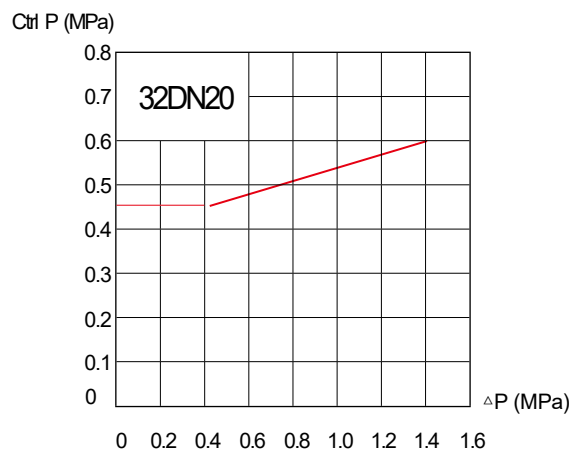
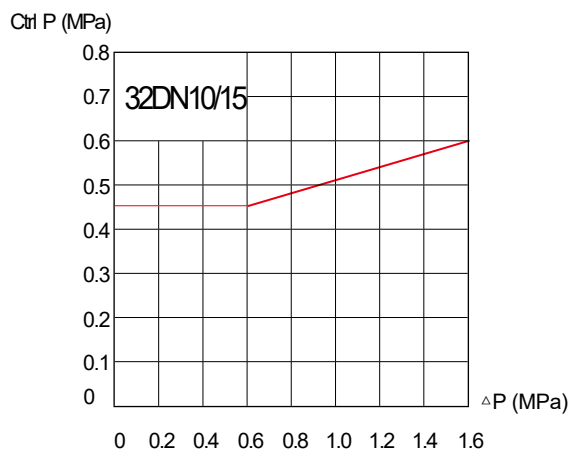
F32 Spring return normal close (Normal type)



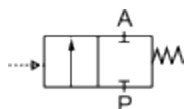
Normal close with flow direction



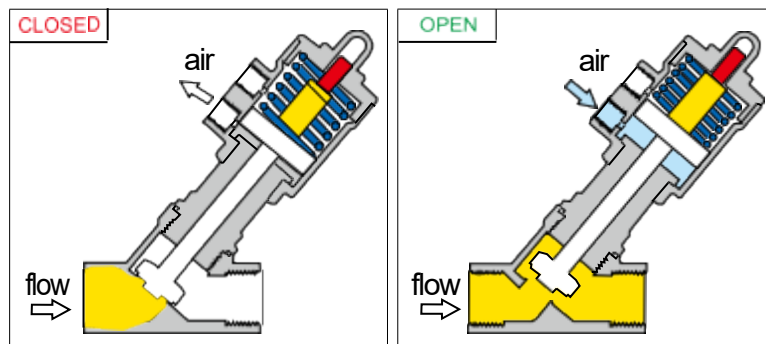
Size	End	Orifice (mm)	Actuator (mm)	Kv (m³/h)	Max working pressure at 180°C (Mpa)	Pressure range (Mpa)	Min control pressure (Mpa)
DN10	3/8"	13	32	4.7	1.6	0-1.6	0.45-0.6
DN15	1/2"	13	32	4.7		0-1.6	0.45-0.6
DN20	3/4"	15	32	5.4		0-1.4	0.45-0.6



F32 Spring return normal close (Anti-water hammer)



Normal close against flow direction



Size	End	Orifice (mm)	Actuator (mm)	Kv (m³/h)	Max working pressure at 180°C (Mpa)	Pressure range (Mpa)	Min control pressure (Mpa)
DN10	3/8"	13	32	4.7	1.6	0-0.6	0.5-0.6
DN15	1/2"	13	32	4.7		0-0.6	0.5-0.6
DN20	3/4"	15	32	5.4		0-0.4	0.5-0.6