

Filling Valve

1AA Series
27mm Actuator
Pipe-less Filling Valve



1AA Series
32mm Actuator
Pipe-less Filling Valve



1AB Series
Pipe-less Filling Valve



1AC/1AF Series
Filling Valve with
Internal Sealing



1AP Series
Filling Valve with Internal
Sealing and Suction

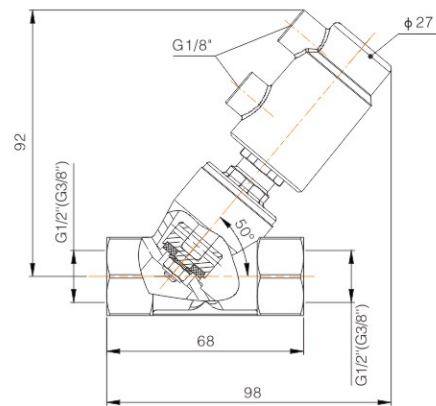


Advantages

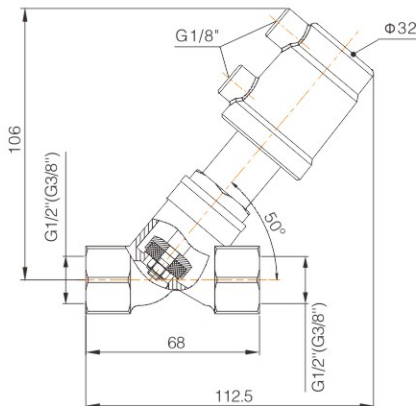
1. The filling valves is widely used in filling machinery, suitable for viscous, pasty and even foamy fluids with accurate and stable filling.
2. 1AA series with 27mm actuator and 1AS series, the valve core made a flexible seat, it can be the self-adjustable with good sealing performance.
3. 1AA series with 32mm actuator, the connection and stem seal are used the angle seat valve seal structure, long life use and perfect sealing.
4. 1AA series with 32mm actuator, valve core are used the angle seat valve seat, it can be the self-adjustable with good sealing performance to make sure the long life cycle.

Technical Specification

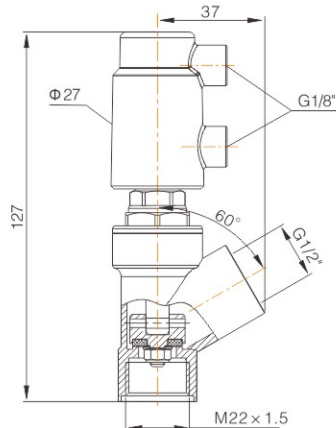
- Control type: Double acting spring return, Double acting without spring
- Operating pressure: 0–7bar (0–102psi)
- Control medium: Filtered compressed air or neutral gas
- Control pressure: 3–4.5bar (44–65psi)
- Body material: CF8 or CF8M
- Seal material: PTFE
- Medium temperature: –10°C — +120°C
- Ambient temperature: –10°C — +80°C
- Connection type: Threaded connection (BSP, BSPT, NPT)



1AA Series 27mm Actuator
Pipe-less Filling Valve



1AA Series 32mm Actuator
Pipe-less Filling Valve



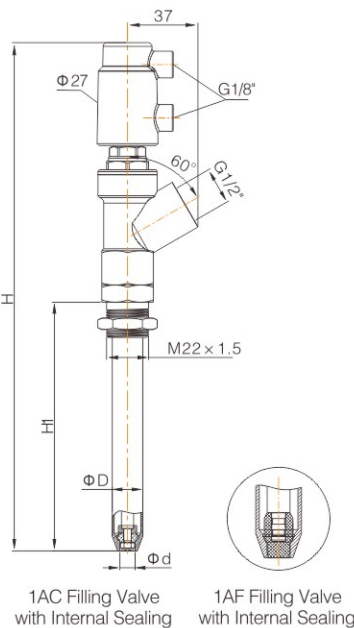
1AB Series
Pipe-less Filling Valve

Advantages

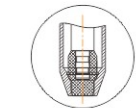
1. It is widely used in filling machinery, especially for applications with viscous, pasty and even foamy fluids.
2. Fast, accurate and stable filling.
3. Delicate and compact, easy to arrange pipeline layout.
4. Special nozzle structure and sealing design ensure no dripping leakage.
5. Bottom chamfer structure of the filling nozzle self-locates and enables submerged filling.
6. Internal suction pipe effectively recovers dripping liquid.

Technical Specification

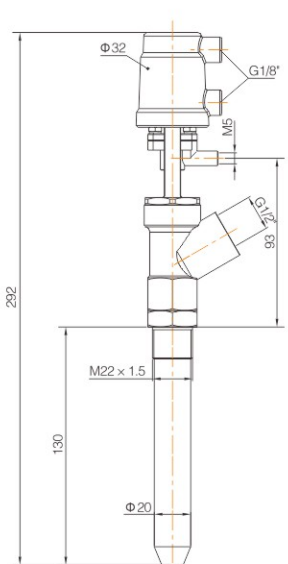
- Control type: Double acting spring return, Double acting without spring
- Operating pressure: 0–7bar (0–102psi)
- Control pressure: 3–4.5bar (44–65psi)
- Body material: CF8M
- Seal material: PTFE
- Medium temperature: –10°C — +120°C
- Ambient temperature: –10°C — +80°C



1AC Filling Valve
with Internal Sealing



1AF Filling Valve
with Internal Sealing

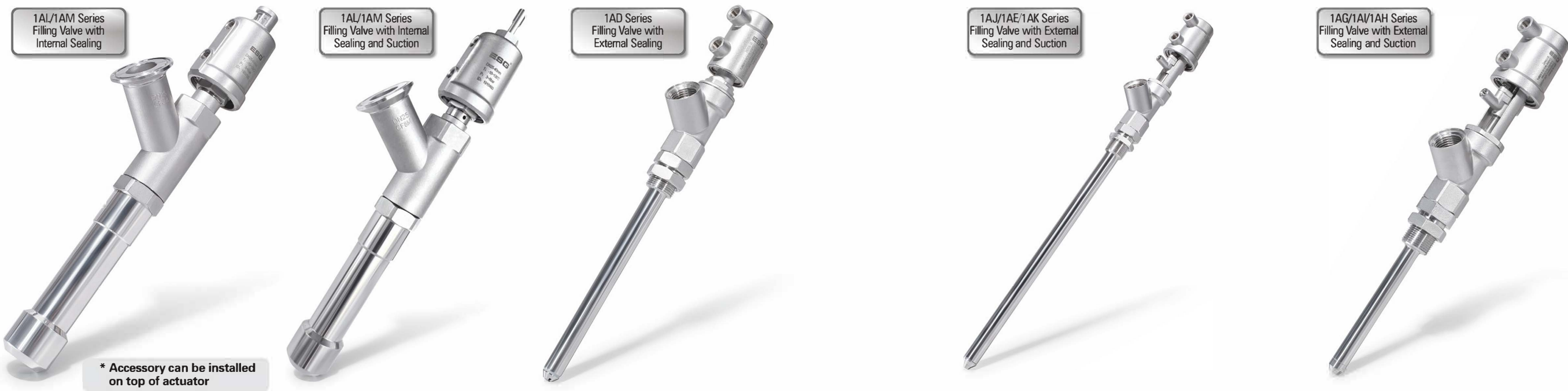


1AP Filling Valve with Internal
Sealing and Suction

1AC/1AF Main Dimension

Size	ΦD	Φd	H	H1
1AC	20	10	267	130
1AC	18	9	267	130
1AF	20	10	267	130
1AF	16	8	267	130

Filling Valve

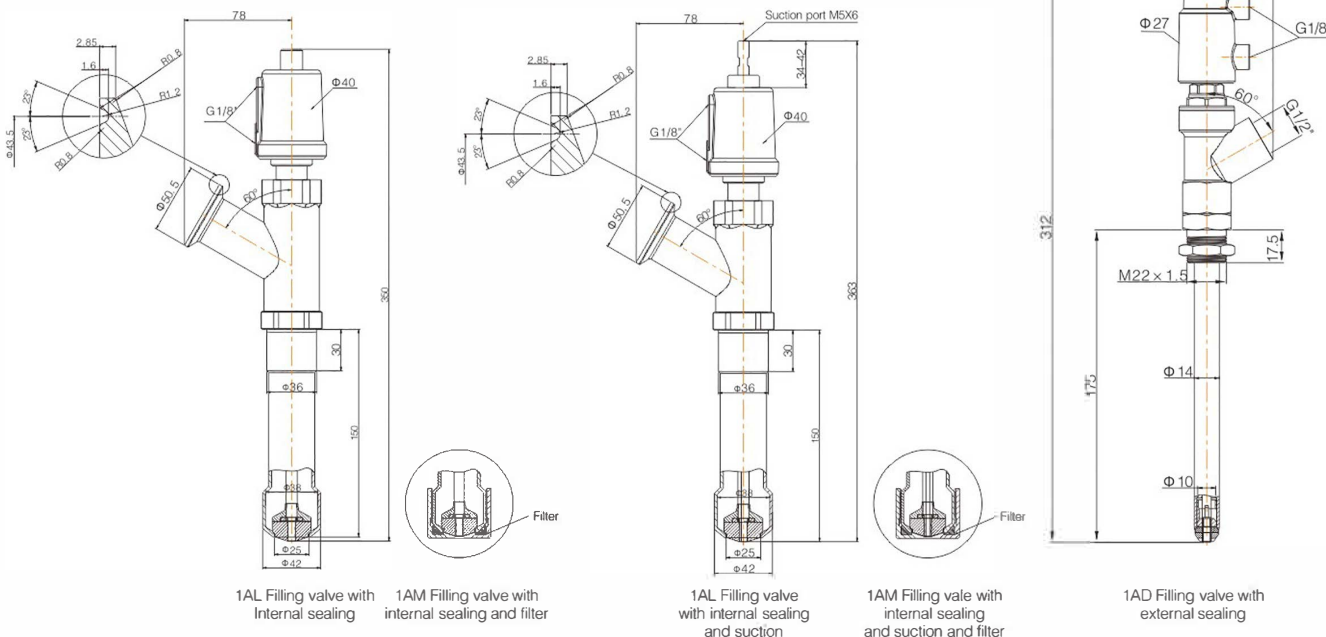


Advantages

1. It is widely used in filling machinery, especially for applications with viscous, pasty and even foamy fluids.
2. Fast, accurate and stable filling.
3. Delicate and compact, easy to arrange pipeline layout.
4. Special nozzle structure and sealing design ensure no dripping leakage.
5. Bottom chamfer structure of the filling nozzle self-locates and enables submerged filling.
6. The head gourd shape design of the filling tube reduces weight and cost without sacrificing flow rate.
7. With super strong suction function, it can timely recover the liquid sliding down the pipe wall without dripping.

Technical Specification

- Control type: Double acting spring return, Double acting without spring
- Operating pressure: 0–7bar (0–102psi)
- Control pressure: 3–4.5bar (44–65psi)
- Body material: CF8M
- Seal material: PTFE
- Medium temperature: –10℃ — +120℃
- Ambient temperature: –10℃ — +80℃

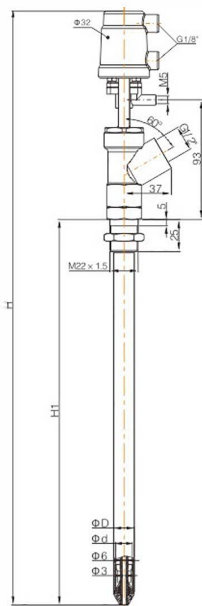


Advantages

1. It is widely used in filling machinery, especially for applications with viscous, pasty and even foamy fluids.
2. Fast, accurate and stable filling.
3. Delicate and compact, easy to arrange pipeline layout.
4. Special nozzle structure and sealing design ensure no dripping leakage.
5. Bottom chamfer structure of the filling nozzle self-locates and enables submerged filling.
6. Internal suction structure recovers dripping liquid along the pipe wall.

Technical Specification

- Control type: Double acting spring return, Double acting without spring
- Operating pressure: 0–7bar (0–102psi)
- Control pressure: 3–4.5bar (44–65psi)
- Body material: CF8M
- Seal material: PTFE
- Medium temperature: –10℃ — +120℃
- Ambient temperature: –10℃ — +80℃



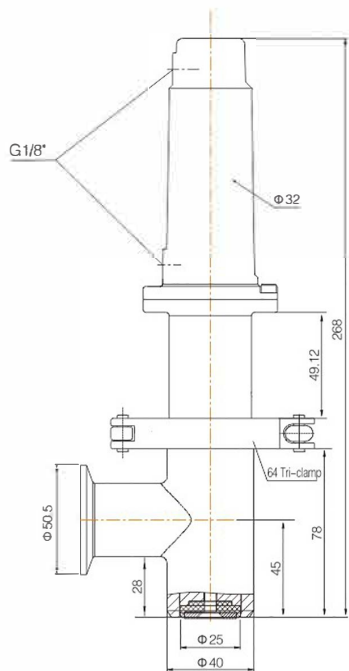
1AJ/1AG/1AE/1AI/1AK/1AH Series

Main Dimension

Size	Φ D	Φ d	H1	H
1AJ	20	17	300	462
1AG	20	17	130	292
1AE	16	13	300	462
1AI	16	13	220	382
1AK	12	9	130	292
1AH	12	9	300	462

Filling Valve

1A1 Series
Sauce Filling Valve
with Internal Sealing



Advantages

- 1. Widely used in filling machinery. Suitable for viscous, granular sauce filling. Such as beef sauce, chili sauce, bean paste, etc.
- 2. Fast, accurate and stable filling.
- 3. The internal structure adopts plunger design, resulting in easy cleaning and minimal residue.
- 4. The filling body and the connection are connected by tri-clamp, so that they can be installed, uninstalled, and adjusted easily.
- 5. Long valve stroke enables large-capacity filling.
- 6. Accessories, such as proximity switch and position indicator, can be installed on top of actuator to enable feedback of valve open/close state.

Technical Specification

- Control type: Double acting
- Operating pressure: 0–7bar (0–102psi)
- Control pressure: 3–4.5bar (44–65psi)
- Control medium: CF8M
- Seal material: PTFE
- Medium temperature: –10℃ — +120℃

Order Instruction

1AX	XXX	X	XXX	XX	XXX	X	X	XX	X	X	(*)
Series	Actuator	Control type	Inlet size	Pipe outer diameter (mm)	Pipe length (mm)	Sealing structure	Suction	Connection type	Valve securement	Body Material	Spec al custom-ization
		2:Double acting normally closed 3:Double acting without spring				I: Internal sealing E: External sealing	0: Without suction 1: With suction	G1: Threaded BSP DIN ISO 228–1 T1: Threaded BSPT DIN 2999–1 N1: Threaded NPT ASMEB1.20.1 M1: M26*1.5 K7: Tri-clamp ISO2852 H7: WeldedDIN11850–2/DIN11866 A H8: WeldedDIN11850–3 H9: Welded Chamfer	0: No securement M: Thread securement D: Pipe securement	1: CF8 2: CF8M	
1AA	A27	2/3	D10	00	000	I	0	G1/T1/N1	0	1/2	
	A27	2/3	D15	00	000	I	0	G1/T1/N1/H7/H8/H9/K7	0	1/2	
1AA	A32	2/3	D10	00	000	I	0	G1/T1/N1	0	1/2	
	A32	2/3	D15	00	000	I	0	G1/T1/N1/H7/H8/H9/K7	0	1/2	
1AB	A27	2/3	D15	00	000	I	0	G1/T1/N1	0	1/2	
1AC	A27	2/3	D15	20	130	I	0	G1/T1/N1	M/D	2	
	A27	2/3	D15	18	130	I	0	G1/T1/N1	M/D	2	
1AF	A27	2/3	D15	16	130	I	0	G1/T1/N1	M/D	2	
	A27	2/3	D15	20	130	I	0	G1/T1/N1	M/D	2	
1AP	A32	2/3	D15	20	130	I	1	G1/T1/N1	M/D	2	
1AD	A27	2/3	D15	14	175	E	0	G1/T1/N1	M/D	2	
1AJ	A32	2/3	D15	20	300	E	1	G1/T1/N1/k7	M/D	2	
						E	1	G1/T1/N1/k7	M/D	2	
1AG	A32	2/3	D15	20	130	E	1	G1/T1/N1/k7	M/D	2	
1AE	A32	2/3	D15	16	300	E	1	G1/T1/N1/k7	M/D	2	
	A32	2/3	D15	16	220	E	1	G1/T1/N1/k7	M/D	2	
1AI	A32	2/3	D15	16	130	E	1	G1/T1/N1/k7	M/D	2	
1AK	A32	2/3	D15	12	300	E	1	G1/T1/N1/k7	M/D	2	
1AH	A32	2/3	D15	12	130	E	1	G1/T1/N1/k7	M/D	2	
1AL	A40	2/3	D25	42	150	I	0	K7	D	2	
1AM	A40	2/3	D25	50	150	I	0	K7	D	2	
1A1	A32	3	D32	40	010	I	0	K7	D	2	
1A2	A32	2/3	D15	12 14 16 18 20	60–380	I	0	G1/T1/N1/K7	M/D	2	
			D25	18 20 22 24 26 28				M1/K7			

Filling Valve

1A2 Series
Filling Valve with
Internal Sealing



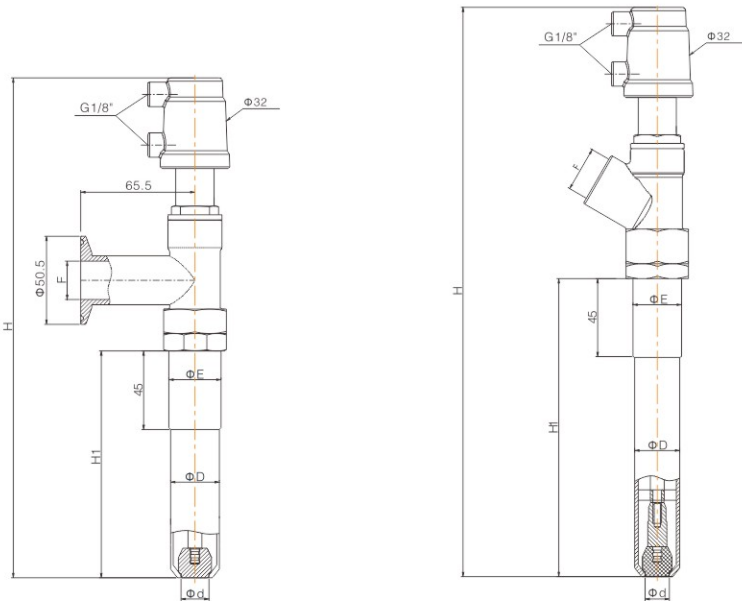
* Customization available

Technical Specification

- Control type: Double acting spring return, Double acting without spring
- Operating pressure: 0–7bar (0–102psi)
- Control pressure: 3–4.5bar (44–65psi)
- Body material: CF8M
- Seal material: PTFE
- Medium temperature: –10℃ — +120℃
- Ambient temperature: –10℃ — +80℃

Advantages

- It is widely used in filling machinery, especially for applications with viscous, pasty and even foamy fluids.
- Fast, accurate and stable filling.
- Delicate and compact, easy to arrange pipeline layout.
- Special nozzle structure and sealing design ensure no dripping leakage.
- Bottom chamfer structure of the filling nozzle self-locates and enables submerged filling.
- The valve utilizes bottom seal and seal ring for connection to valve stem in order to avoid fluid residue and allow effortless cleaning.
- Internal suction structure recovers dripping liquid along the pipe wall.



Main Dimension (1A2 Series)

Size	Connection method	Actuator	Φ D	Φ d	F	H	H1	Φ E (Optional)
DN15	Threaded connection	32	12	5	G1/2 NPT1/2 BSPT1/2 Φ 16	210–530	60–380	Φ 20/M22X1.5
			14	6.5				Φ 20/M22X1.5
			16	8				Φ 25/M25X1.5
			18	9				Φ 28/M28X1.5
			20	10				Φ 30/M30X1.5
DN25	Tri-clamp connection	32	18	9	M26 × 1.5/ Φ 22	217–537	60–380	Φ 28/M28X1.5
			20	10				Φ 28/M28X1.5
			22	11.5				Φ 30/M30X1.5
			24	13				Φ 30/M30X1.5
			26	14				Φ 30/M30X1.5
			28	16				Φ 30/M30X1.5