

Filling Valve

1AA Series
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

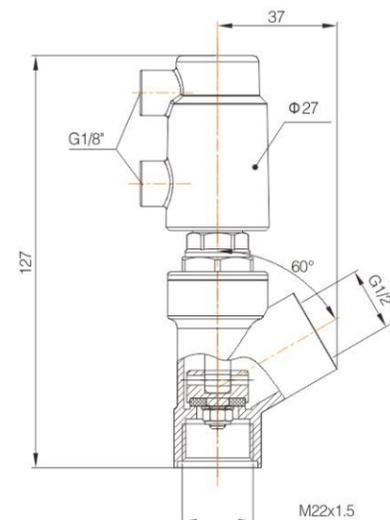
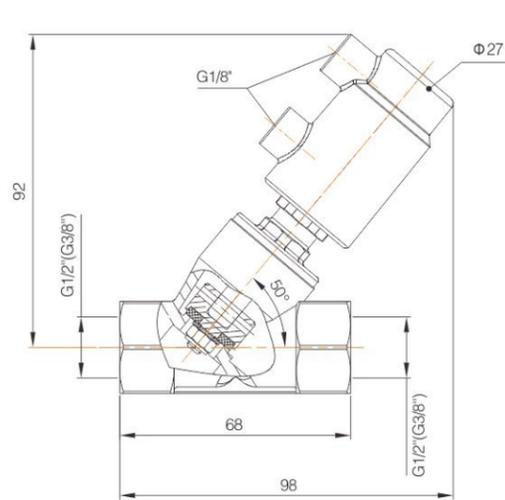


Advantages

Valve adopts compact and aesthetic design and is made of stainless steel material. Flexible valve seat design automatically adjusts to tilted surface and thereby improves sealing performance.

Technical Specification

- Control type: Double acting normally closed, Double acting without spring
- Operating pressure: 0–7bar (0–102psi)
- Control medium: Filtered compressed air or neutral gas
- Control pressure: 3–3.5bar (44–51psi)
- 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)

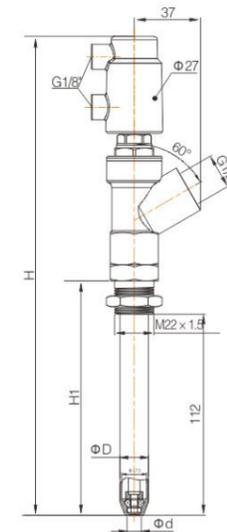


Advantages

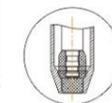
- It is widely used in filling machinery, especially for applications with viscous, pasty and even foamy fluids.
- Fast, accurate and stable filling.
- Delicate and compact, easy to arrange pipeline layout.
- Special nozzle structure and sealing design ensure no dripping leakage.
- Bottom chamfer structure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

Technical Specification

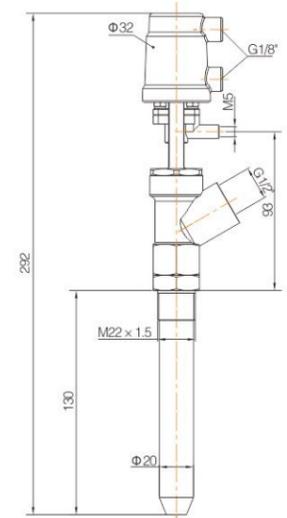
- Control type: Double acting normally closed, Double acting without spring
- Operating pressure: 0–7bar (0–102psi)
- Control pressure: 3–4.5bar (44–65psi)
- Body material: CF8M
- Seal material: PTFE
- Medium temperature: –10°C — +120°C
- Ambient temperature: –10°C — +80°C



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

1AL/1AM Series
Filling Valve with
Internal Sealing



1AD Series
Filling Valve with
External Sealing



* Accessory can be installed on top of actuator

1AJ/1AE/1AK Series
Filling Valve with External
Sealing and Suction



1AG/1AI/1AH Series
Filling Valve with External
Sealing and Suction

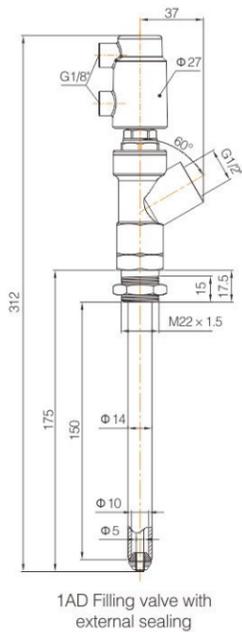
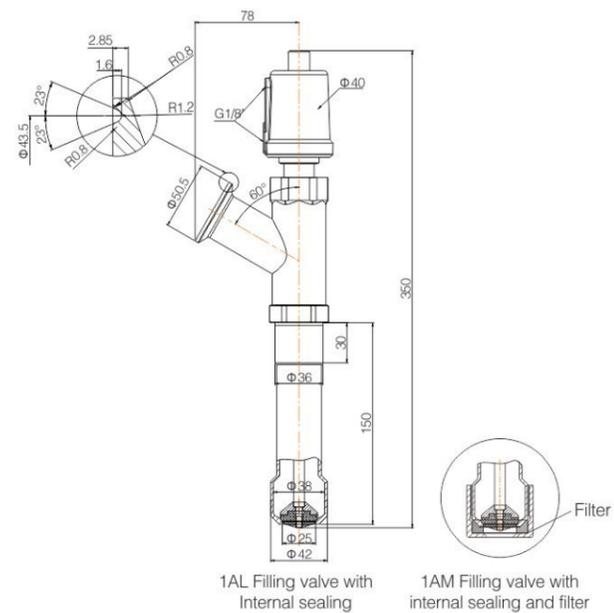


Advantages

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.

Technical Specification

- Control type: Double acting normally closed, Double acting without spring
- Operating pressure: 0–7bar (0–102psi)
- Control pressure: 3.5–4.5bar (44–65psi)
- Body material: CF8M
- Seal material: PTFE
- Medium temperature: -10°C — +120°C
- Ambient temperature: -10°C — +80°C



Advantages

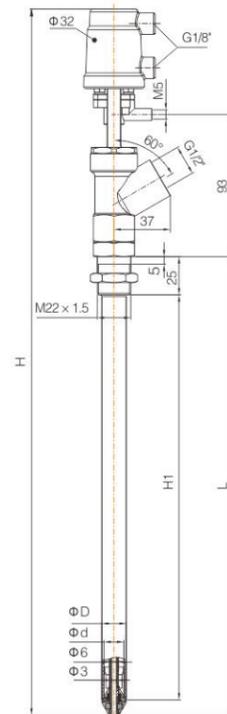
1. It is widely used in filling machinery, especially for applications with viscous, pasty and even foamy fluids.
2. Fast, accurate and stable filling.
3. Delicate and compact, easy to arrange pipeline layout.
4. Special nozzle structure and sealing design ensure no dripping leakage.
5. Bottom chamfer 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 normally closed, Double acting without spring
- Operating pressure: 0–7bar (0–102psi)
- Control pressure: 3–3.5bar (44–51psi)
- Body material: CF8M
- Seal material: PTFE
- Medium temperature: -10°C — +120°C
- Ambient temperature: -10°C — +80°C

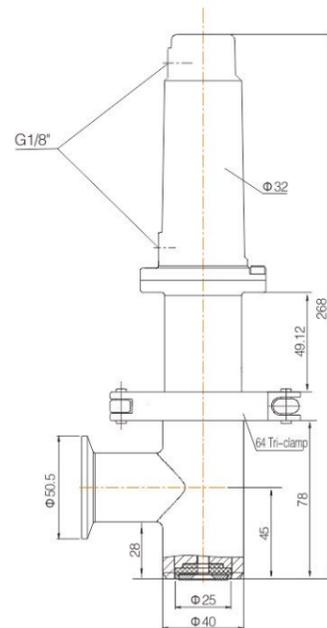
Main Dimension

Size	ΦD	Φd	L	H	H1
1AJ	20	17	300	462	265
1AG	20	17	130	292	95
1AE	16	13	300	462	265
	16	13	220	382	185
1AI	16	13	130	292	95
1AK	12	10	300	462	265
1AH	12	10	130	292	95



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 bar (44psi)
- Control medium: CF8M
- Seal material: PTFE
- Medium temperature: -10°C — $+120^{\circ}\text{C}$

Order Instruction

Series	Actuator	Control type	Inlet size	Pipe outer diameter (mm)	Pipe length (mm)	Sealing structure	Suction	Connection type	Valve securement	Body Material	Special customization
1AX	XXX	X	XXX	XX	XXX	X	X	XX	X	X	(*)
		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 ASME B1.20.1 K7: Tri-clamp ISO2852	0: No securement M: Thread securement D: Pipe securement	1: CF8 2: CF8M	
1AA	A27	2/3	D10/D15	00	000	I	0	G1/T1/N1	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	
1AC	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	
1AF	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	M/D	2	
1AG	A32	2/3	D15	20	130	E	1	G1/T1/N1	M/D	2	
1AE	A32	2/3	D15	16	300	E	1	G1/T1/N1	M/D	2	
1AE	A32	2/3	D15	16	220	E	1	G1/T1/N1	M/D	2	
1AI	A32	2/3	D15	16	130	E	1	G1/T1/N1	M/D	2	
1AK	A32	2/3	D15	12	300	E	1	G1/T1/N1	M/D	2	
1AH	A32	2/3	D15	12	130	E	1	G1/T1/N1	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	D25	40	010	I	0	K7	D	2	