

Standard Features (Sizes 1-1/2" - 14")

- Straight through flow with minimal pressure drop
- Unique sliding cylindrical plug design provides larger seating area than conventional gate valves
- Made of durable, corrosion resistant plastic
- No metal to media contact anywhere in valve
- Clean-out (drain) plug in bottom area of valve body
- Rated for full vacuum service
- Lightweight for easier and economical installation
- Positive bubble-tight shut-off
- Visual position indicator

Options

- 2" square operating nut
- Stem extensions
- Locking handles
- Electric actuation, up to 3"
- FKM seals

Caution

- Never remove valve from pipeline under pressure.
- · Always wear protective gloves and goggles.

Specifications

Sizes: 1-1/2" - 14"

Body: High Impact PVC

Models: Flanged (ANSI)

Types/Sizes: "P" Type: PP, 1-1/2" - 14"

Seals: EPDM, FKM(Optional)

Sizes 1-1/2" - 14" PVC/PP/EPDM/FKM NSF-61 Certified

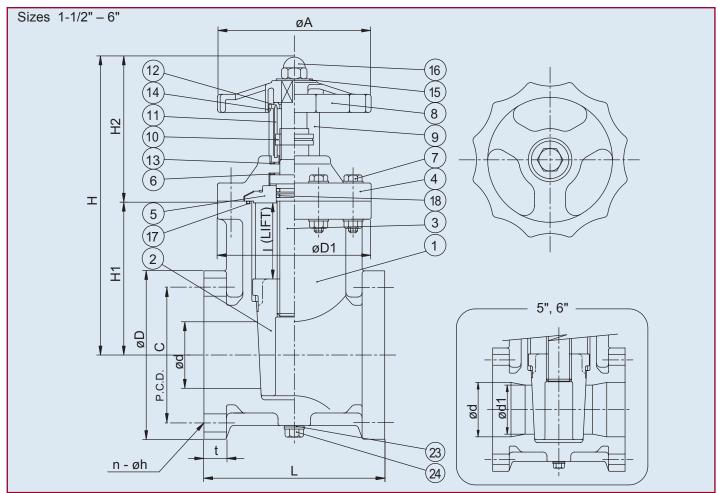
Type P Parts (Sizes 1-1/2" - 6")

PARTS									
NO.	DESCRIPTION	PCS.	MATERIAL						
1	Body	1	HI-PVC						
2	Gate (Plug)	1	PP						
3	Stem	1	HI-PVC						
4	Bonnet (A)	1	HI-PVC						
5	Bonnet (B)*	1	HI-PVC						
6	Thrust Bearing	1 Set	PP						
7	Bolt, Nut, Washer	1	Stainless Steel 304						
8	Hand Wheel	1	PP						
9	Indicating Cover	1	PC						
10	Indicating Ring	1	PVC						
11	Guide Pin	1	Stainless Steel 304						
12	Guide Pin Holder	1	PVC						
13	Gasket	1	EPDM						
14	O-Ring (A)	1	EPDM						
15	Washer	1	PVC						
16	Nut	1	Stainless Steel 304						
17	O-Ring (B)	1	EPDM, FKM						
18	O-Ring (C)	2	EPDM, FKM						
23	Sheet Gasket	1	EPDM, FKM						
24	Plug	1	PVC						

* Stem holder



Gate Valves



Troubleshooting

What if fluid still flows when fully closed?

- 1. Body or plug is worn or damaged. Replace.valve.
- 2. Seat is worn or damaged. Replace.
- 3. Foreign material caught at the bottom of body. Needs cleaning.

What if handle does not engage with stem?

1. Stem damaged or broken. Replace valve..

2. Engaging part of stem and/or plug damaged or broken. Replace valve.

What if there are leaks between bonnet and body?

- 1. Bolts are not tightened properly. Tighten diagonally and evenly.
- 2. O-ring between body and bonnet damaged or worn. Change O-ring.

Dimensions (Sizes 1-1/2''-6'') (in.)

NOMII SIZI			ANSI CLASS 150												
INCHES	mm	d	d1	D	С	n	h	L	t	D1	Α	1	H1	H2	Н
1-1/2	40	1.57	-	5.00	3.88	4	0.62	6.5	0.87	4.72	4.72	1.93	4.21	5.20	9.41
2	50	1.97	-	6.00	4.75	4	0.75	7.01	0.91	5.12	5.12	2.36	5.28	5.35	10.63
2-1/2	65	2.56	-	7.00	5.50	4	0.75	7.48	0.94	6.10	6.10	2.95	5.98	5.91	11.89
3	80	2.95	-	7.50	6.00	4	0.75	7.99	0.98	6.69	6.69	3.35	6.69	6.10	12.79
4	100	3.94	-	9.00	7.50	8	0.75	9.02	1.06	7.68	7.68	4.33	8.15	6.42	14.57
5	125	4.92	4.33	10.00	8.50	8	0.88	10.24	1.06	9.25	9.25	4.61	8.94	7.09	16.03
6	150	5.91	5.12	11.00	9.50	8	0.88	10.51	1.06	10.63	10.63	5.43	10.35	7.17	17.52

Pressure vs. Temp. (psi, water, non-shock)

NOMINA	30° F	
INCHES	120° F	
1-1/2 - 8	40-200	150
10	250	110
12 - 14	300-350	75

Gate Valves Type P

Type P Parts (Sizes 8" - 14")

PARTS									
NO.	DESCRIPTION	PCS.	MATERIAL						
1	Body	1	HI-PVC						
2	Gate (Plug)	1	PP						
3	Stem	1	HI-PVC						
4	Bonnet (A)	1	HI-PVC						
4a	Bush (A)	1	PP						
4b	Knock Pin (A)	1	PP						
5	Bonnet (B)*	1	HI-PVC						
5a	Bush (B)	1	PP						
5b	Knock Pin (B)	1	PP						
6	Thrust Bearing	1 Set	PP						
7	Bolt, Nut, Washer	-	Stainless Steel 304						
8	Hand Wheel	1	PP						
9	Indicating Cover	1	PC						
10	Indicating Ring	1	PVC						
11	Guide Pin	1	Stainless Steel 304						
12	Guide Pin Holder	1	PVC						
13	Gasket	1	EPDM						
14	O-Ring (A)	1	EPDM						
15	Washer	1	PVC						
16	Nut	1	Stainless Steel 304						
17	Screw	1	Stainless Steel 304						
18	O-Ring (B)	1	EPDM, FKM						
19	O-Ring (C)	3	EPDM, FKM						
20	O-Ring (D)	1	EPDM, FKM						
21	O-Ring (E)	1	EPDM, FKM						
22	O-Ring (F)	1	EPDM, FKM						
23	Sheet Gasket	1	EPDM, FKM						
24	Plug	1	PVC						

*	Stem	holder

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Body Metal Inserts * *

Sample Specification

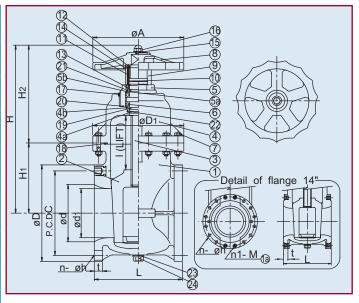
All gate valves shall be constructed of high impact PVC and have no metal to media contact. The gate shall be a tapered cylindrical plug design PVC shall conform to ASTM D1784 Cell Classification 12454-A, and PP to ASTM D4101 Cell Classification

Dimensions (Sizes: 8" - 14") (in.)

NOMINA	L SIZE				ANSI CLASS 150											
INCHES	mm	d	d1	D	С	n	h	n1 - M	L	t	D1	Α	ı	H1	H2	н
8	200	7.72	6.61	13.50	11.75	6	0.88	2-3/4 UNC	11.50	1.10	12.20	12.20	7.09	9.45	13.27	22.72
10	250	9.72	8.27	16.00	14.25	12	0.98	-	14.96	1.18	14.17	14.17	8.90	10.63	16.54	27.17
12	300	11.73	10.04	19.00	17.00	10	0.98	2-7/8 UNC	15.75	1.22	16.14	16.14	10.75	12.60	18.90	31.50
14	350	13.70	11.69	21.00	18.75	8	1.14	4 - 1 UNC	16.93	1.26	17.32	17.91	12.56	12.20	23.62	35.83

Copper Alloy

Sizes: 8" - 14"



PP0210B67272. Valves shall have a pressure rating of 150psi

at 70° F sizes 1-1/2" through 8", 110psi at 70° F size 10",

and 75psi at 70° F sizes 12" and 14". The valve shall have a

clean-out plug and EPDM or FKM seals, as manufactured by

non-rising stem, come standard with sealed position indicator,

Cv Values

NOMINAL	Cv	
INCHES	mm	CV
1-1/2	40	130
2	50	180
2-1/2	65	415
3	80	470
4	100	690
5	125	1000
6	150	1400
8	200	2900
10	250	3700
12	300	5200
14	350	7000

Weight (lbs.)

NOMINAL	NOMINAL SIZE							
INCHES	mm	(LBS.)						
1-1/2	40	7.50						
2	50	10.20						
2-1/2	65	13.00						
3	80	16.60						
4	100	22.00						
5	125	29.00						
6	150	42.00						
8	200	68.50						
10	250	95.00						
12	300	150.00						
14	350	188.00						

Asahi/America, Inc.

^{** 8&}quot; and 12" sizes: 4 inserts; 14" size: 8 inserts

Gate Valves

1.0 Scope:

All requirements are for PVC Gate Valves and accessories.

2.0 Materials:

HI-PVC (Hi Impact) – Conforming to ASTM D1784 Cell Classification 12454A IZOD Impact strength rating of 10 – 15 Kilojoule/M² Polypropylene – Conforming to ASTM D4101 Cell Classification PP0210B67272 FKM – Viton® Fluorocarbon Rubber EPDM – Ethylene Propylene Diene Terpolymer Rubber

3.0 Valves:

Gate Valves shall be PVC body with FKM or EPDM seals and PP tapered cylindrical plug. Valves shall be flat faced flanged end type conforming to ANSI B16.5 bolt pattern for 150 lb flanges. The valve shall have a non-rising stem, visual position indicator, handwheel for operation, and clean-out plug on bottom of valve body.

3.1 Approved Manufacturer

Valves shall be provided by Asahi/America, Inc. of Lawrence, MA with no approved equals. Manufacturer must be ISO-9001 certified.

3.2 Pressure vs. Temperature

Valves shall have a pressure rating of: 150 psi at 70° F sizes 1-1/2" – 8"

110 psi at 70° F size 10"

75 psi at 70° F sizes 12" & 14"

4.0 Accessories:

4.1 Stem extensions

Where required should be designed, built and provided by the Asahi/America, Inc., and be 1 of 2 styles:

Style GT-A Two piece extension with outer housing 100% sealed either free standing or supported design.

Style GT-B Single Piece extension either free standing or supported design

4.2 Actuation

Actuation where required should be designed, built and provided by the Asahi/America, Inc., and be Electric type Series 92 Multi-turn available for 1-1/2" - 3" only. All actuation accessories to be provided and installed by Asahi/America, Inc. in accordance with manufacturers requirements.

4.3 Operating Nuts

Where required 2" square operating nuts can be installed on Gate valves in place of handwheel. Materials of construction – Annodized Aluminum.

5.0 Installation Procedures:

All valve joints shall be prepared using flanged connections. The bolt diameters and torque values shall be in accordance with all requirements put forth in the Gate Valve Operation & Maintenance manual. All accessories should be installed in accordance with the manufacturer's requirements as well as any facility requirements.

Gate Valves

1.0 Scope:

All requirements are for PVC Gate Valves and accessories, applicable to installations in Landfill Applications

2.0 Materials:

HI-PVC (Hi Impact) Conforming to ASTM D1784 Cell Classification 12454A IZOD Impact strength rating of 10 – 15 Kilojoule/M²
Polypropylene Conforming to ASTM D4101 Cell Classification PP0210B67272 FKM – Viton® Fluorocarbon Rubber
EPDM – Ethylene Propylene Diene Terpolymer Rubber

3.0 Valves:

Gate Valves shall be PVC body with FKM or EPDM seals and PP tapered cylindrical plug. Valves shall be flat faced flanged end type conforming to ANSI B16.5 bolt pattern for 150 lb flanges. The valve shall have a non-rising stem, visual position indicator, handwheel for operation, and clean-out plug on bottom of valve body.

3.1 Approved Manufacturer

Valves shall be provided by Asahi/America, Inc. of Lawrence, MA with no approved equals. Manufacturer must be ISO-9001 certified.

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Valves shall have a pressure rating of:

150 psi at 70° F sizes 1-1/2" – 8" 110 psi at 70° F size 10" 75 psi at 70° F sizes 12" & 14"

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