



Gate Valve

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)

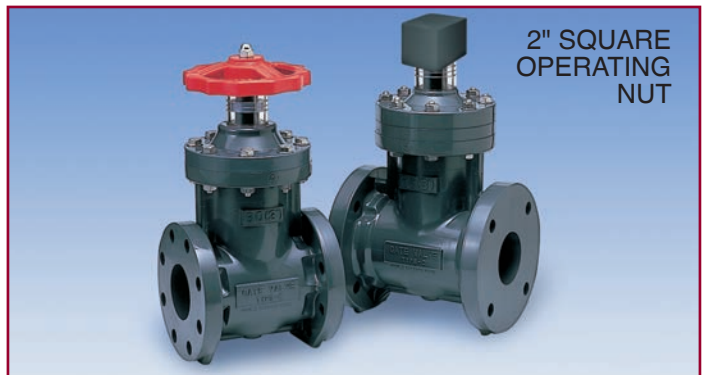
Types/Sizes: "P" Type: PP, 1-1/2" - 14"
Seals: EPDM, FKM(Optional)

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

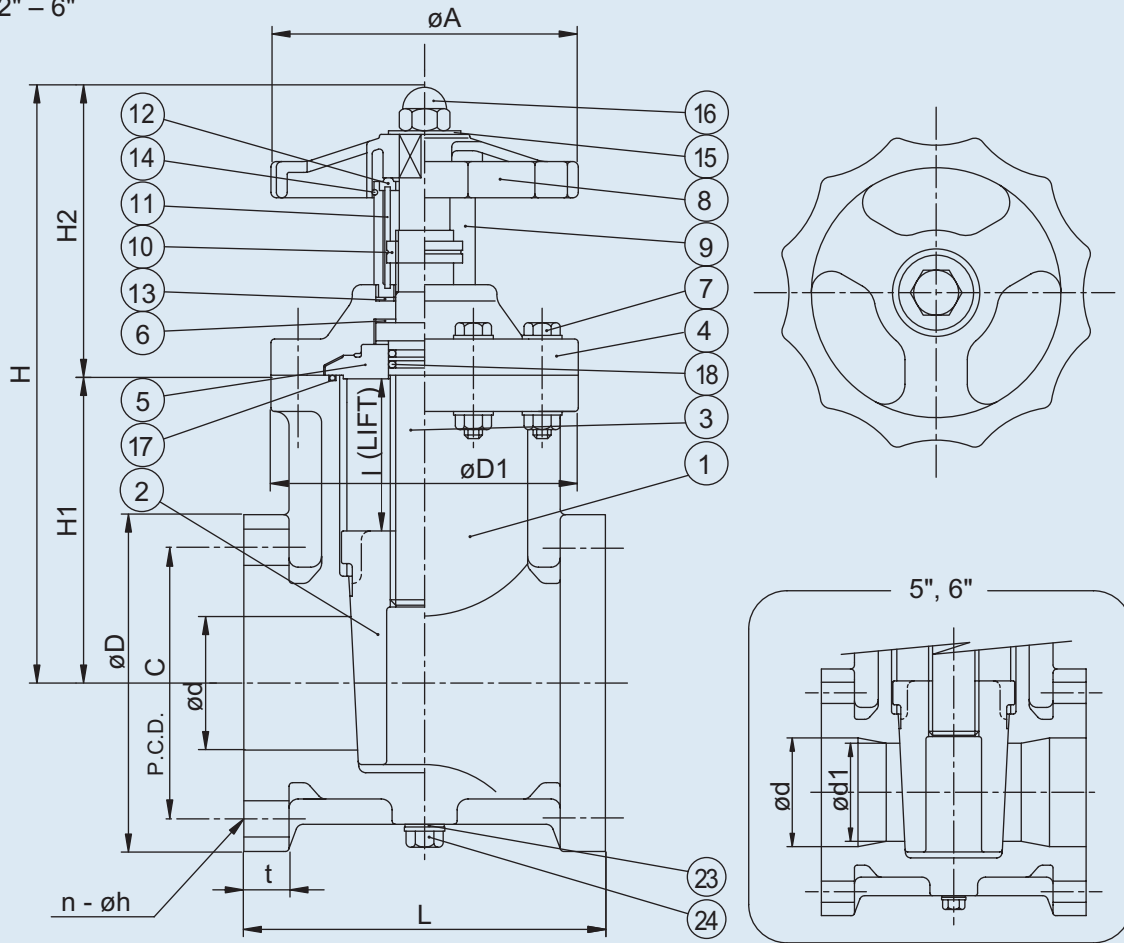
* Stem holder



Type P

Gate Valves

Sizes 1-1/2" – 6"



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.)

NOMINAL SIZE	ANSI CLASS 150														
	INCHES	mm	d	d1	D	C	n	h	L	t	D1	A	I	H1	H2
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)

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

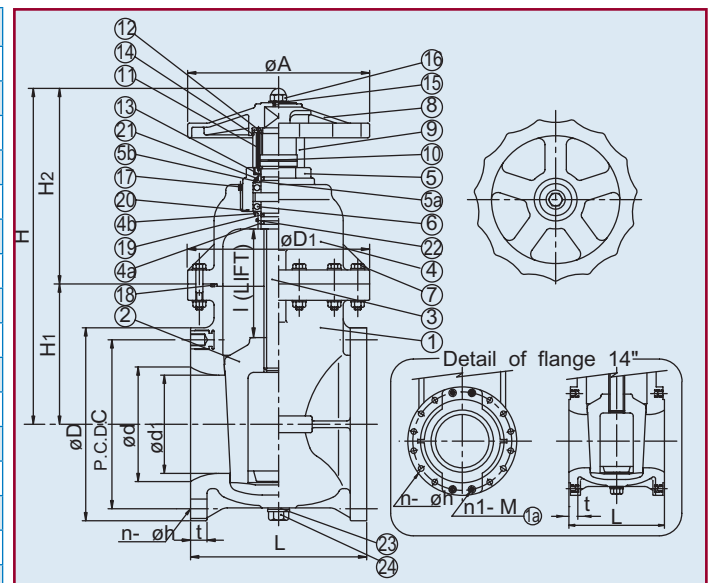
Gate Valves

Type P

Type P Parts (Sizes 8" – 14")

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
1a	Body Metal Inserts**	-	Copper Alloy



* Stem holder
 ** 8" and 12" sizes: 4 inserts; 14" size: 8 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

PPO210B67272. 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 non-rising stem, come standard with sealed position indicator, clean-out plug and EPDM or FKM seals, as manufactured by Asahi/America, Inc.

Dimensions (Sizes: 8" – 14") (in.)

NOMINAL SIZE		ANSI CLASS 150														
INCHES	mm	d	d1	D	C	n	h	n1 - M	L	t	D1	A	I	H1	H2	H
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

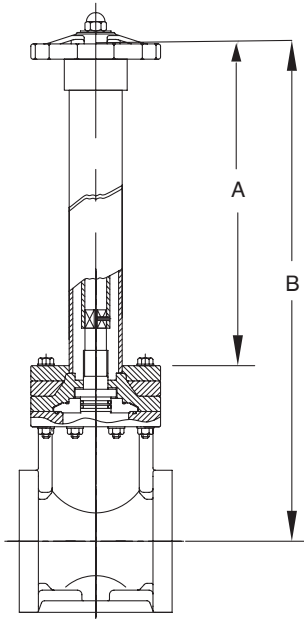
Cv Values

NOMINAL SIZE		Cv
INCHES	mm	
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

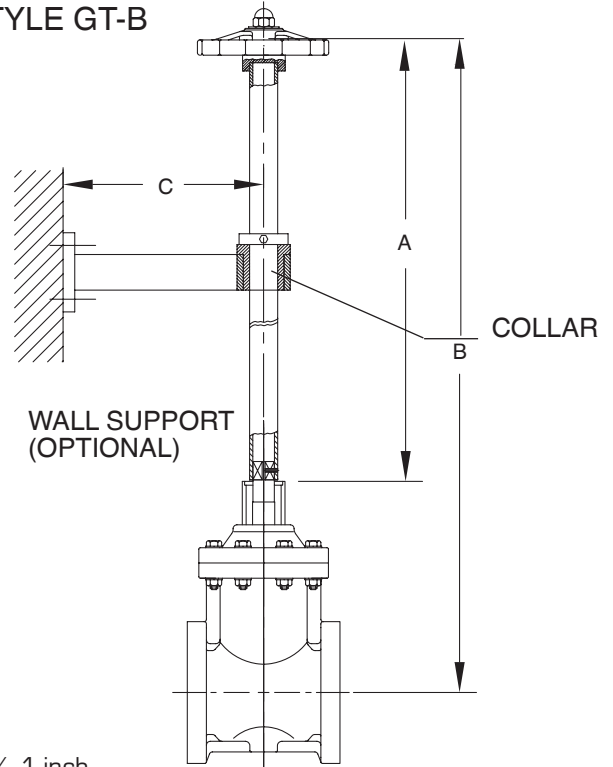
Weight (lbs.)

NOMINAL SIZE		WT (LBS.)
INCHES	mm	
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

STYLE GT-A



STYLE GT-B



All stem extension tolerances +/- 1 inch

Please use **Stem Extension Work Sheet** on **Page 23** when ordering any stem extension

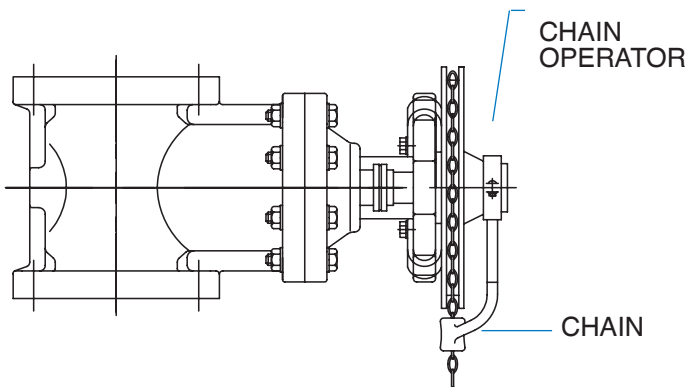
Two-piece Stem Housing

For submerged or buried applications. PVC housing protects stem extensions from aggressive environments. Stems are available in carbon steel with baked powder epoxy coating, stainless steel (303 and 316, etc.)

Single Stem Extensions (Non-supported)

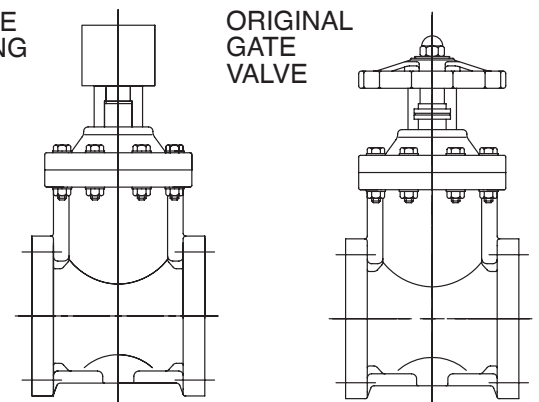
Valve handle can be extended away from the valve for out-of-reach locations. Stems come in carbon steel with baked powder epoxy coating, stainless steel (303 and 316, etc.)

Option: Wall-support (patented) and collar



2" SQUARE OPERATING NUT

ORIGINAL GATE VALVE



Chain Operator

For overhead, out-of-reach locations. The valve is operated by pulling on the chain installed on round handwheel.

Remote Operating Nuts

2" square configuration on valve stem, replacing the handwheel. Used for remote operation of a valve by an extended wrench.

Material: 6061 aluminum, anodized finish

Locking Mechanism

Prevents unauthorized cycling of a valve. Designed to be secured with a padlock. Two designs.

Labcock® Ball Valves

Body	Elastomer	Connection	1/4"
PVC	EPDM	FT x MT	1076002
PVC	EPDM	MT x MT	1077002
PVC	EPDM	MT x H	1078002
PVC	EPDM	H x H	1079002
PVC	EPDM	FT x MT	1080002
PVC	EPDM	FT x H	1082002
PVC	EPDM	MT x EL	1089002

Omni® Type-27 Ball Valves

Body	Elastomer	Connection	3/8" - 3"
PVC	EPDM	Soc	161070***
PVC	EPDM	Thd	161071***
CPVC	EPDM	Soc	161072***
CPVC	EPDM	Thd	161073***

Electromni® Type-27 Valves

Body	Elastomer	Connection	3/8" - 2"
PVC	EPDM	Soc	172015***
PVC	EPDM	Thd	172016***
CPVC	EPDM	Soc	172017***
CPVC	EPDM	Thd	172018***

Ball Valve Actuators

Electric	Series 92	2001***
	Series 94	2085***
	Series 83	2002***
Pneumatic Series 79P	Air-to-Air	2301***
	Air-to-Spring	2302***

AS-i Bus System

Pneumatic Series 79P	(2-way) A79-E79	2407010
	Air-to-Air	
	Air-to-Spring	
Pneumatic Series 79P	(2-way) F79-G79	2407040
	Air-to-Air	
	Air-to-Spring	
Pneumatic Series 79P	(3-way) A79-E79	2407011
	Air-to-Air	
	Air-to-Spring	

Note:

Not all ball or butterfly actuators can be used with all valve types and sizes. Consult price list.

Gate Valves

Body	Gate	Elastomer	Connection	1-1/2" - 14"
PVC	PP	EPDM	Flg	1251***

Constant Flow Valves

Body	Elastomer	Connection	1" - 4"
PVC	EPDM	Flg	1307***

Trademarks

Air-Pro, Asahitec, Chem Proline, Chem Prolok, Duo-Pro, Electromni, Fluid-Lok, Labcock, Multiport, Omni, Plasgear, Poly-Flo, PolyPure, Pool-Pro, Proline, Pro-Vent, PP-Pure, Purad, Quater Master, Speed Handle, Super Proline, and Ultra Proline are registered trademarks of Asahi/America, Inc.

AFLAS is a registered trademark of Asahi Glass Co., Ltd.

Halar is a registered trademark of Ausimont.