



WALWORTH®

Since 1842

Cast Iron Valves

Gate

Globe

Check



Index



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Cast Iron Valve

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INTRODUCTION

WALWORTH® is one of the most important industrial valve manufacturers in Mexico and the world. Founded in 1842, **WALWORTH®** has dedicated itself to the design and manufacture of an array of valves for fluid control. We satisfy varied industry and customer requirements by adhering to the highest quality standards. **WALWORTH®** relies on its broad experience in supplying valves to the petrochemical, chemical, gas, petroleum, nuclear energy generation, pulp and paper, water, cryogenic and geothermal industries, among others.

WALWORTH® has developed an extensive range of production and products in order to satisfy the different needs of the world valve market, including Gate, Globe, Check, Trunnion Mounted, Floating Ball, Plug, Safety and Relief, Pressure Seal and Slab Gate valves in materials such as Cast and Forged Steel, Iron, Bronze, special alloys with different trims and any requirement that may be requested by our customers.

Our Quality Assurance System has allowed **WALWORTH®** to be certified under strict international standards such as API, ANSI, ASME, ASTM, MSS, NACE, AWWA, BSI, CSA and ISO-9001:2000, among others. The system requires a rigorous quality control and selection of raw materials from approved vendors, as well as control over the manufacturing process. **WALWORTH®** has been granted the right by API (American Petroleum Institute) to use the official API monogram on its products manufactured to API Specification 6A and API Specification 6D.

Another important element of **WALWORTH®** valves is their identification and traceability. Each valve is issued an identification number and an identification plate with the part information. The identification number enables **WALWORTH®** to monitor the product as it goes through the production process and provides traceability to materials used in the manufacturing process.

The **WALWORTH®** team relies on extensive experience. **WALWORTH®**'s main manufacturing facility located in Mexico consists of more than 500 employees, state-of-the-art technology and sophisticated equipment, manufacturing the highest quality product at competitive prices.

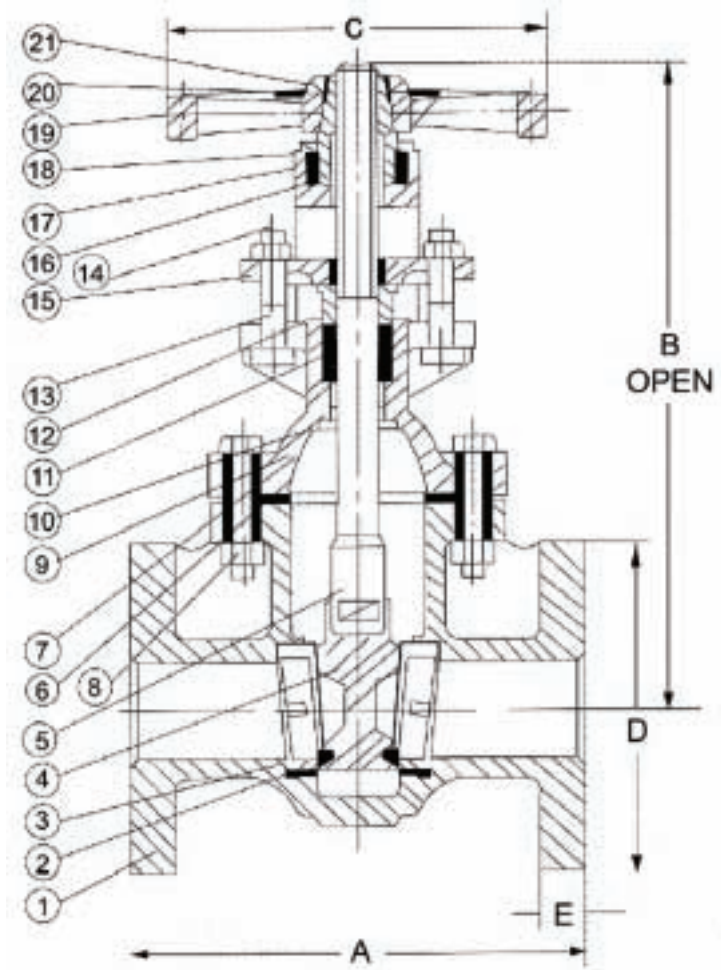


WALWORTH CAST IRON GATE VALVE CLASS 125

- Design According to MSS SP-70
- Flanges Drilled According to ANSI B16.1
- Face to Face Dimensions According to ANSI B16.10
- Solid Wedge
- Bolted Bonnet
- Rising Stem
- Working Pressure: 125 WSP, 200 WOG
- Service Conditions, WSP-Steam Service, WOG-Water, Oil, Gas Service
- Construction Available in all Types of Iron

Figure No.	Ends
W726F	Flat Face

No.	DESCRIPTION	STANDARD MATERIAL
1	Body	ASTM A126 Class B
2	Seat Ring	ASTM B62
3	Wedge Face Ring	ASTM B62
4	Wedge	ASTM A126 Class B
5	Stem	ASTM B16
6	Body Gasket	Non Asbestos
7	Bolts	ASTM A307-B
8	Nuts	ASTM A307-B
9	Bonnet	ASTM A126 Class B
10	Back Seat Bushing	ASTM B584
11	Packing	Non Asbestos
12	Packing Gland	ASTM B584
13	Gland Follower Bolts	ASTM A307-B
14	Gland Follower Nuts	ASTM A307-B
15	Gland Follower	ASTM A536 65-45-12
16	Yoke Bushing	ASTM B62
17	Yoke Bushing Nut	ASTM A126 Class B
18	Screw	ASTM A307-B
19	Handwheel	ASTM A126 Class B
20	Identification Plate	Aluminum
21	Handwheel Nut	ASTM A536 65-45-12



Dimensions

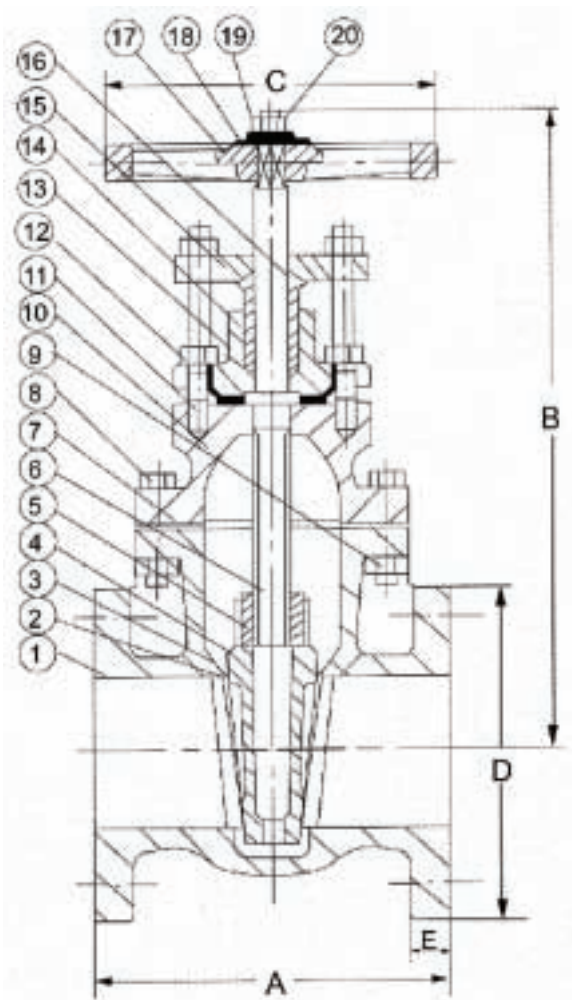
D Nominal Diameter	MM INCH	50	65	80	100	125	150	200	250	300	350	400	450	500	600
		2	2 1/2	3	4	5	6	8	10	12	14	16	18	20	24
A	MM	177.8	190	203.2	228.6	254	266.7	292.1	330.2	355.6	381	406.4	431.8	457.2	508
	INCH	7	7 1/2	8	9	10	10 1/2	11 1/2	13	14	15	16	17	18	20
B	MM	349	391	454	562	660	781	930	1184	1391	1640	1804	2090	2490	2960
	INCH	13 3/4	15 3/8	17 7/8	22 1/8	26	30 3/4	36	5/8	54 3/4	64 9/16	71	82 1/4	98 1/32	116 1/2
C	MM	178	178	200	254	300	300	348	400	457	508	558	610	610	762
	INCH	7	7	8	10	12	12	13 11/16	16	18	20	22	24	24	30
D	MM	152	178	180	229	254	279.4	343	406	483	533	597	635	699	813
	INCH	6	7	7 1/2	9	10	11	13 1/2	16	19	21	23 1/2	25	27 1/2	32
E	MM	15.9	17.5	19.1	23.8	23.8	25.4	28.6	30.2	31.8	35.0	36.6	39.7	42.9	47.7
	INCH	5/8	1 1/16	3/4	15/16	15/16	1	1 1/8	1 3/16	1 1/4	1 3/8	1 7/16	19/16	1 11/16	1 7/8
Weight	KG	17	23	28	50	70	92	129	208	289	496	647	789	946	1445
	LB	37.5	50.7	61.7	110.2	154.3	202.8	284.4	458.5	637.1	1093.5	1426.4	1739.4	2085.5	3185.6

WALWORTH CAST IRON GATE VALVE CLASS 125

- Design According to MSS SP-70
- Flanges Drilled According to ANSI B16.1
- Face to Face Dimensions According to ANSI B16.10
- Solid Wedge
- Bolted Bonnet
- Non-Rising Stem
- Working Pressure: 125 WSP, 200 WOG
- Service Conditions, WSP-Steam Service, WOG-Water, Oil, Gas Service
- Construction Available in all Types of Iron

Figure No.	Ends
W719F	Flat Face

No.	DESCRIPTION	STANDARD MATERIAL
1	Body	ASTM A126 Class B
2	Seat Ring	ASTM B62
3	Wedge Face Ring	ASTM B62
4	Wedge	ASTM A126 Class B
5	Wedge Connection	ASTM B62
6	Stem	ASTM B16
7	Body Gasket	Non Asbestos
8	Bolts	ASTM A307-B
9	Nuts	ASTM A307-B
10	Bonnet	ASTM A126 Class B
11	Gland Follower Bolts	ASTM A307-B
12	Stuffing Box Gasket	Non Asbestos
13	Stuffing Box	ASTM A126 Class B
14	Packing	Non Asbestos
15	Gland Follower	ASTM A536 65-45-12
16	Packing Gland	ASTM B584
17	Handwheel	ASTM A126 Class B
18	Identification Plate	Aluminum
19	Washer	ASTM A307-B
20	Handwheel Nut	ASTM A307-B



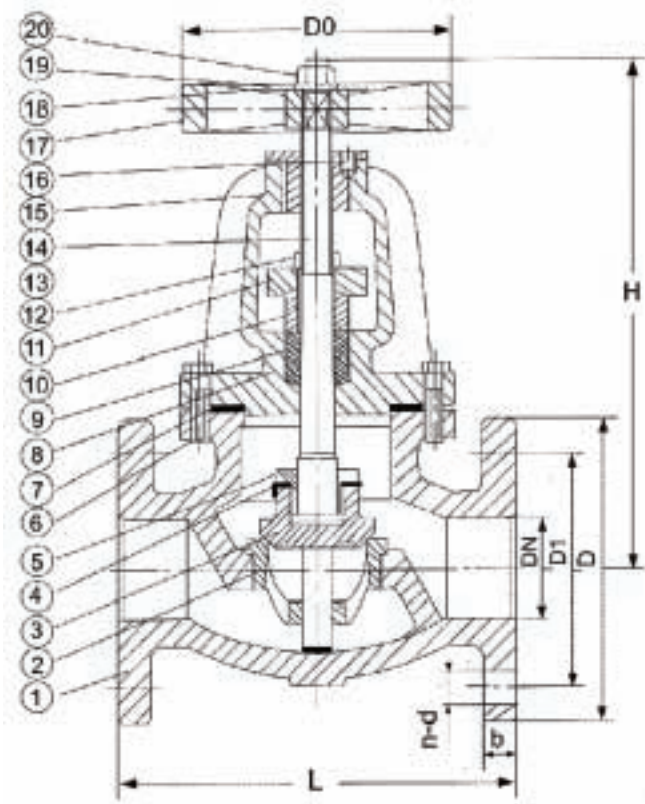
		Dimensions															
D Nominal Diameter	MM INCH	50 2	65 2 1/2	80 3	100 4	125 5	150 6	200 8	250 10	300 12	350 14	400 16	450 18	500 20	600 24	750 30	900 36
A	MM	177.8	190	203.2	228.6	254	266.7	292.1	330.2	355.6	381	406.4	431.8	457.2	508	609.2	711.2
	INCH	7	7 1/2	8	9	10	10 1/2	11 1/2	13	14	15	16	17	18	20	24	28
B	MM	280	318	333	387	453	502	635	735	875	940	1080	1180	1380	1460	2140	2340
	INCH	11	12 1/2	13 1/8	15 1/4	17 13/16	19 3/4	25	28 15/16	34 7/16	37	42 1/2	46 1/4	54 5/16	57 1/2	84 1/4	92 1/8
C	MM	178	178	200	254	300	300	348	400	457	508	558	610	610	762	762	762
	INCH	7	7	8	10	12	12	13 11/16	16	18	20	22	24	24	30	30	30
D	MM	152	178	190	229	254	279.4	343	406	483	533	597	635	699	813	984	1168
	INCH	6	7	7 1/2	9	10	11	13 1/2	16	19	21	23 1/2	25	27 1/2	32	38 3/4	46
E	MM	15.9	17.5	19.1	23.8	23.8	25.4	28.6	30.2	31.8	35	36.6	39.7	42.9	50	64	60.4
	INCH	5/8	11/16	3/4	15/16	15/16	1	1 1/8	1 3/16	1 1/4	1 3/8	1 7/16	1 9/16	1 11/16	1 7/8	2 1/8	2 3/8
Weight	KG	16.5	21.6	26.6	47.2	68	87	118	197	275	440	614	772	993	1432	2728	4000
	LB	36.4	47.6	58.6	104.1	149.9	191.8	260.1	434.3	606.3	970	1353.6	1702.6	2189.2	3157	6014.1	8818

WALWORTH CAST IRON GLOBE VALVE CLASS 125

- Design According to MSS SP-85
- Flanges Drilled According to ANSI B16.1
- Face to Face Dimensions According to ANSI B16.10
- Bolted Bonnet
- Rising Stem
- Working Pressure: 125 WSP, 200 WOG
- Service Conditions, WSP-Steam Service, WOG-Water, Oil, Gas Service

Figure No.	Ends
W906F	Flat Face

No.	DESCRIPTION	STANDARD MATERIAL
1	Body	ASTM A126 Class B
2	Seat Ring	ASTM B62
3	Wedge Face Ring	ASTM B62
4	Gasket	ASTM B16
5	Swivel Nut	ASTM B584
6	Bolts	ASTM A307-B
7	Body Gasket	Non Asbestos
8	Bonnet	ASTM A126 Class B
9	Packing	Non Asbestos
10	Packing Gland	ASTM B584
11	Gland Follower	ASTM A536 65-45-12
12	Gland Follower Bolts	ASTM A307-B
13	Nuts	ASTM A307-B
14	Stem	ASTM B16
15	Yoke Bushing	ASTM B62
16	Screws	ASTM A307-B
17	Handwheel	ASTM A126 Class B
18	Identification Plate	Aluminum
19	Washer	ASTM A307-B
20	Handwheel Nut	ASTM A307-B



Dimensions

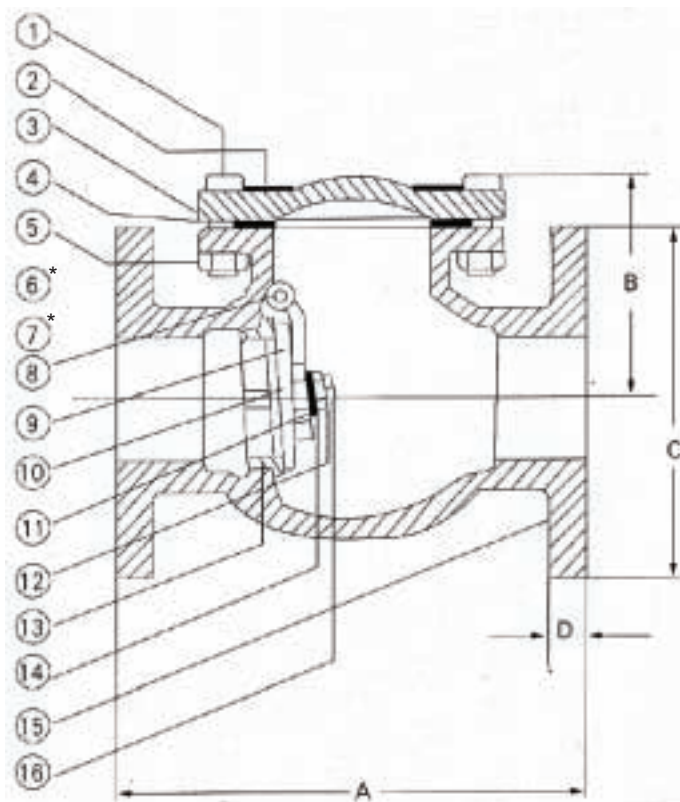
D Nominal Diameter	MM INCH	50 2	65 2 1/2	80 3	100 4	125 5	150 6	200 8	250 10	300 12
L	MM	203.2	251.9	241.3	292.1	330.2	355.6	495.3	622.3	698.5
	INCH	8	8 1/2	9 1/2	11 1/2	13	14	19 1/2	24 1/2	27 1/2
D	MM	152	178	190	228.6	254	279.4	343	406	483
	INCH	6	7	7 1/2	9	10	11	13 1/2	16	19
D1	MM	121	140	152.5	190.5	215.9	241.3	298.5	362	432
	INCH	4 3/4	5 1/2	6	7 1/2	8 1/2	9 1/2	11 3/4	14 1/2	17
b	MM	15.9	17.5	19	23.8	23.8	25.4	28.6	30.2	31.8
	INCH	5/8	11/16	3/4	15/16	15/16	1	1 1/8	1 3/16	1 1/4
n-d	MM	4-19	4-19	4-19	8-19	8-22.5	8-22.5	8-22.5	12-25.4	12-25.4
	INCH	4-3/4	4-3/4	4-3/4	8-3/4	8-7/8	8-7/8	8-7/8	12-1	12-1
DO	MM	178	178	200	254	300	300	348	400	457
	INCH	7	7	8	10	12	12	13 11/16	16	18
H	MM	259	300	318	402	419	479	537	640	733
	INCH	10 3/16	11 13/16	12 1/2	15 13/16	16 1/2	18 7/8	21 1/8	25 3/16	28 7/8
Weight	KG	13	20	24	42	64	83	141	227	335
	LB	28.6	44.1	52.9	92.6	141.1	183	310.8	500.4	738.5

WALWORTH CAST IRON SWING CHECK VALVE CLASS 125

- Design According to MSS SP-71
- Flanges Drilled According to ANSI B16.1
- Face to Face Dimensions According to ANSI B16.10
- Bolted Flanged Cover
- Working Pressure: 125 WSP, 200 WOG
- Service Conditions, WSP-Steam Service, WOG-Water, Oil, Gas Service

Figure No.	Ends
W928F	Flat Face

No.	DESCRIPTION	STANDARD MATERIAL
1	Bolts	ASTM A307-B
2	Identification Plate	Aluminum
3	Cover	ASTM A126 Class B
4	Body Gasket	Non Asbestos
5	Nuts	ASTM A307-B
6	Side Plug*	ASTM B16
7	Plug Gasket	Non Asbestos
8	Hanger Pin	ASTM B16
9	Hanger	ASTM A536 65-45-12
10	Disc	ASTM A126 Class B
11	Disc Ring	ASTM B62
12	Washer	ASTM A307-B
13	Split Pin	Stainless Steel 420
14	Seat Ring	ASTM B62
15	Disc Nut	ASTM A307-B
16	Body	ASTM A126 Class B
17	Stud Bolt	ASTM A307-B



*NOT SHOWN

		Dimensions								
D Nominal Diameter	MM INCH	50 2	65 2 1/2	80 3	100 4	125 5	150 6	200 8	250 10	300 12
A	MM	203.2	251.9	241.3	292.1	330.2	355.6	495.3	622.3	698.5
	INCH	8	8 1/2	9 1/2	11 1/2	13	14	19 1/2	24 1/2	27 1/2
B	MM	113	133	142	163	197	212	257	299	331
	INCH	4 7/16	5 1/4	5 5/8	6 13/32	7 3/4	8 11/32	10 1/8	11 3/4	13
C	MM	152	178	190	228.6	254	279.4	343	406	483
	INCH	6	7	7 1/2	9	10	11	13 1/2	16	19
D	MM	15.95	17.5	19	23.8	23.8	25.4	28.6	30.2	31.8
	INCH	5/8	11/16	3/4	15/16	15/16	1	1 1/8	1 3/16	1 1/4
Weight	KG	20	22.4	29	42.5	62	88.4	143	220	290
	LB	44.1	49.4	63.9	93.7	136.7	194.9	315.2	485	639.3

PRESSURE-TEMPERATURE CHART FOR GRAY IRON VALVES

Walworth Iron-Bodied Gate, Globe and Check Valves, Maximum Allowable Pressure, Psig, in accordance with MSS-SP-70

GRAY IRON			
Temperature in degrees °F	Class 125 200 WOG		
	NPS 2"-12"	NPS 14"-24"	NPS 30"-48"
-20 to 100	200	150	150
200	190	135	115
225	180	130	100
250	175	125	85
275	170	120	65
300	165	110	50
325	155	105	
350	150	100	
375	145		
400	140		
425	130		
**450	125		

The temperature indicated for the corresponding classification will be the temperature of the metal of the pressure-containing parts. It will be assumed that the temperature of the metal will be the temperature of the fluid content.

** Maximum temperature for bronze trims.

CHEMICAL COMPOSITION AND MECHANICAL PROPERTIES

MATERIAL SPECIFICATIONS CAST IRON

Cast gray iron is an iron alloy composed of iron, carbon, silicon and manganese. Cast gray iron is the most versatile of all foundry metals. The high carbon content is responsible for ease of melting and casting in the foundry and for ease of machining in subsequent manufacturing. The low degree or absence of shrinkage and high fluidity provide a quality casting.

This grade of cast gray iron is a higher strength iron modified to control the microstructure and hardness. It achieves its greater strength as a result of fine control of the chemical composition and graphite flake size and type. It is through the control of these elements and through the addition of other alloy elements that the desired stress properties are obtained.

Cast gray iron is used extensively in valve fittings and other pressure containing parts of various sizes.

GRAY IRON	ASTM A126 Class B
Chemical Requirements	percentage
Phosphorus	0.75 max.
Sulfur	0.15 max.
Stress Requirements	
Tensile Strength, psi	31000 min.
Hardness	195 Hb.

IRON VALVE ACCESSORIES

CHAIN WHEEL OPERATORS

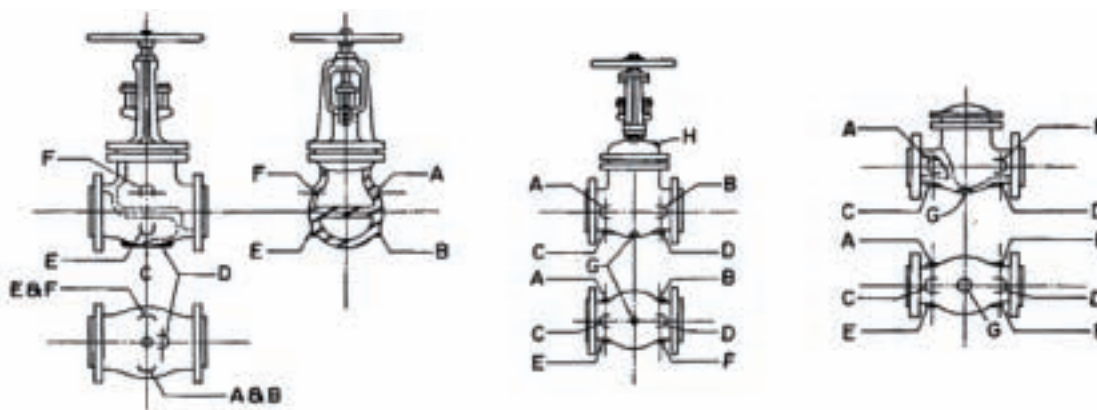
All **Walworth®** handwheel or gear operated valves can be furnished with chain wheels. Chain wheels are normally furnished with chain guides to prevent the chain from jumping off the wheel and to increase traction. To order specify the valve size, figure number, the type of chain wheel required and length of chain.



BYPASSES AND DRAINS

Walworth® Iron Body Valves can be furnished with bypasses suitable for equalizing pressure around the main valve or for warming up the line preparatory to opening the main valve. Bosses for bypasses and drains are provided on iron valve castings at locations in accordance with MSS-SP-45 and may be tapped and/or plugged according to the size chart. The bypass valve will be a globe valve.

The standard method for designating the location(s) of bypass and/or drain connections is shown on the drawings. Always specify the valve size, figure number and tap location by letter. Should a tapping or boss be required at some other point, both the inquiry and order should be accompanied by a sketch clearly indicating the desired location.



**MSS Standard Practice SP-45
Series A for Steam Service**

Size of Main Valve, Inches	4	5 to 8	10 to 24
Size of Bypass Valve, Inches	1/2	3/4	1

OPERATING NUTS

Non-rising stem gate valves may be provided with operating nuts instead of handwheels when the valve is to be installed in an inaccessible location. All operating nuts are a standard 2" square which permits operation with a square socket wrench. Specify valve size and figure number when ordering.



IRON VALVE ACCESSORIES

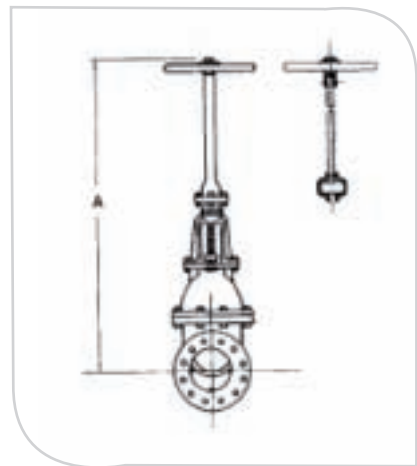
POSITION INDICATOR

Non-rising stem gate valves may be fitted with position indicators to indicate the valve disc position. A needle is provided that indicates full open, partly open or closed as the valve is operated. Installation may be factory or field mounted. Specify the size and figure number of the valve when ordering.



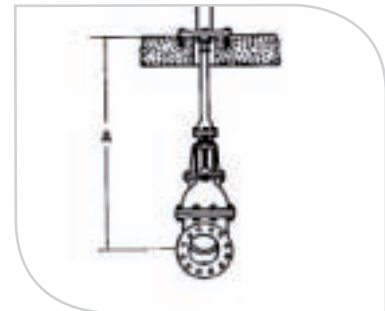
STEM EXTENSIONS

Stem extensions are designed to permit remote operation of valves by providing an extension to the valve stem long enough to reach the desired operating location. The user must provide supports that keep long extensions that are over 12 ft from buckling. The support must be rigid and strong enough to prevent “wind up”, deflection or transmit abnormal forces to the valve. Specify valve size, figure number and dimension (A) from the center of the pipeline to the top of the handwheel when ordering.



FLOOR STANDS

Floor stands are designed to operate valves that are installed under floors or operating platforms and may also be equipped with position indicators. To order specify the valve size, figure number and dimension (A) from the pipeline center to the top of the floor and if a position indicator is required.



LEVER

Walworth® Swing Check Valves are available with an outside lever and weight. The lever and weight arrangement is used to prevent disc flutter and also to assist/control the disc closing under rapid flow reversal conditions to prevent damage to the disc or seat. A spring can also be used with a lever to provide more rapid closing. A dash pot or snubber can be used to soften the closing during a flow reversal. Add LW as a suffix to the figure number.



Lever and spring swing check

Outside lever and weight

ACTUATORS

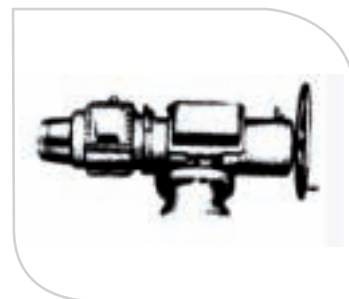
Operation by conventional handwheel or lever is not always suitable to perform the function of the valve. A manual gear unit may be furnished to gain mechanical advantage or to retard the closing and opening speed of operation. An electric or air actuator may be utilized to operate from a remote location. Process computerization may require sophisticated electric actuators.

Walworth® Valves can be furnished with any of these types of valve operators. It is extremely important that the correct method of operation to be selected and that all relevant details of the required device to be stated when ordering the valve/operator unit.

ELECTRIC ACTUATORS

The following information is required along with the size and type of valve:

- Maximum differential pressure across valve
- Opening and closing speed in seconds
- Electric characteristics (AC or DC, voltages, phases, cycles)
- Maximum temperature of line medium and ambient temperature at valve location
- Type of frequency of service (regulating or intermittent)
- Class desired (weatherproof or explosion-proof)
- Type of contact-panel enclosure
- Type of control-station enclosure
- Control voltage
- Any special equipment not covered above



AIR, GAS OR HYDRAULIC MOTOR ACTUATORS

When a compressed air or gas supply is the power source, an actuator utilizing an “air” motor may be used. The following information is required along with the size and type of valve:

- Maximum differential pressure across valve
- Opening and closing speed in seconds
- Pressure of compressed gas supply
- Method of control and control accessories required

The valves may also be equipped with an actuator utilizing a Hydraulic Motor.



MANUAL GEARING

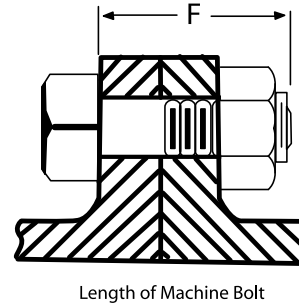
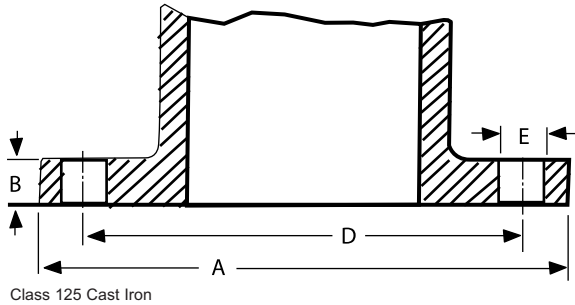
When the handwheel or lever is to be replaced by a manual gear unit the following information is required along with the size and type of valve:

- Maximum differential pressure across valve
- Is the operator for buried service
- Is the operator weatherproof
- Is hammer blow feature required
- Position of handwheel on gearing in relation to pipeline



DIMENSIONS OF PIPE FLANGES AND UNIONS

Dimensions of Iron Pipe Flanges According to ANSI B16.1



CLASS 125 CAST IRON FLANGES

Dimensions in Inches

Nominal Pipe Size	Flanges		Drilling			Bolting	
	Flange Diameter A	Flange Thickness B	Bolt Hole Circle Diameter D	Bolt Hole Diameter E	Number of Stud Bolts E	Stud Bolt Diameter	Stud Bolt Length F
1	4 1/4	7/16	3 1/8	5/8	4	1/2	1 3/4
1 1/4	4 5/8	1/2	3 1/2	5/8	4	1/2	2
1 1/2	5	9/16	3 7/8	5/8	4	1/2	2
2	6	5/8	4 3/4	3/4	4	5/8	2 1/4
2 1/2	7	11/16	5 1/2	3/4	4	5/8	2 1/2
3	7 1/2	3/4	6	3/4	4	5/8	2 1/2
4	9	15/16	7 1/2	3/4	8	5/8	3
5	10	15/16	8 1/2	7/8	8	3/4	3
6	11	1	9 1/2	7/8	8	3/4	3 1/4
8	13 1/2	1 1/8	11 3/4	7/8	8	3/4	3 1/2
10	16	1 3/16	14 1/4	1	12	7/8	3 3/4
12	19	1 1/4	17	1	12	7/8	3 3/4
14	21	1 3/8	18 3/4	1 1/8	12	1	4 1/4
16	23 1/2	1 7/16	21 1/4	1 1/8	16	1	4 1/2
18	25	1 9/16	22 3/4	1 1/4	16	1 1/8	4 3/4
20	27 1/2	1 11/16	25	1 1/4	20	1 1/8	5
24	32	1 7/8	29 1/2	1 3/8	20	1 1/4	5 1/2
30	38 3/4	2 1/8	36	1 3/8	28	1 1/4	6 1/4
36	46	2 3/8	42 3/4	1 5/8	32	1 1/2	7

- The lengths of the stud bolts refer to the flange thicknesses specified above.
- For valves or fittings with integral flanges the bolt holes, which are in multiples of four are machined with equidistant bolt holes and aligned with the center line of the valve or fitting.
- Class 125 Cast Iron flanges have flat faces.

APPLICABLE STANDARDS AND CODES

ASME STANDARDS

B16.1	Cast Iron Pipe Flanges and Flanged Fittings
B16.10	Face to Face and End to End Dimensions of Ferrous Valves
B16.21	Non-Metallic Flat Gasket for Pipe Flanges

MSS STANDARDS

MSS SP-6	Standard Finishes for Contact Faces of Pipe Flanges and Connecting End Flanges of Valves and Fittings
MSS SP-9	Spot Facing for Bronze, Iron and Steel Flanges
MSS SP-25	Standard Marking System for Valves, Fittings, Flanges and Unions
MSS SP-45	Bypass and Drain Connection Standard
MSS SP-70	Cast Iron Gate Valves, Flanged and Threaded Ends
MSS SP-71	Cast Iron Swing Check Valves, Flanged and Threaded Ends
MSS SP-82	Valve Pressure Test Methods
MSS SP-85	Cast Iron Globe and Angle Valves, Flanged and Threaded Ends
MSS SP-91	Guidelines for Manual Operation of Valves





TERMS AND CONDITIONS

Acceptance: All quotations for acceptance within 30 days from date of quotation unless extended in writing. In the event a purchase order is placed after this period of time, TWC The Valve Company reserves the right to requote base prices of all valves offered. All order and contracts are subject to credit approval and acceptance by TWC The Valve Company.

Freight: When prices are F.O.B. point of shipment – no freight allowance, Walworth will attempt to route shipments in the method which will result in the lowest cost unless otherwise instructed. All shipments will be freight charges collect except when stipulated on the purchase order in which case the buyer will be invoiced for all transportation charges.

Delivery of material to a common carrier shall be considered to be delivery to Buyer and shall be at Buyer's risk thereafter.

The Buyer shall file claims of loss or damage to material in transit directly with the carrier.

Prices: There will be added to all prices quoted, any sales, use, occupation, excise or similar tax which Seller may be required to pay or collect in connection with the sale. Seller reserves the right to cancel any order in the event that selling price(s) shall be established by the Federal, State or other government regulation with respect to the product(s) covered by the order which shall be lower than the price(s) specified in the order.

Escalation Terms: Price shown in the price schedule reflects the cost in effect at the time of publication.

These prices will remain firm on all products with a quoted delivery of twenty-six (26) weeks or less.

On products which have a scheduled delivery of more than twenty-six (26) weeks the goods will be invoiced.

Based on the applicable price sheet in effect at the time of the shipment. In no event will the invoiced price be less than the price originally quoted.

Purchased Components: (i.e. motors, gearing, etc.) Prices are quoted on supplier price in effect at time of quotation. Actual invoice price may be adjusted in accordance with the supplier's escalation policy.

Deferred Shipments: If for any reason the customer desires to delay shipments more than 30 days after manufacturing is complete or to place a hold or stop to the order during the manufacturing cycle, TWC The Valve Company reserves the right to consider the order cancelled and to invoke cancellation charges per the schedule below.

Cancellation: After order acceptance by Walworth, items or complete orders may be cancelled and Buyer will be charged for work performed, based on the following schedule:

Five (5%) percent of price of stock items.

Ten (10%) percent of price of stock items ordered in quantities which exceed normal inventory levels.

Five (5%) percent of price prior to drawing submittal on made to order items.

Fifteen (15%) percent drawing approval, but prior to the start of castings.

Thirty (30%) to Fifty (50%) percent during casting cycle, depending on the state of completion.

Fifty-Five (55%) to Seventy-Five (75%) percent during machining and assembly operations, depending on the state of completion.

One hundred (100%) percent after final assembly and test.

Remittances: Remittances must be made to the address indicated on the invoice.

Credit Terms: As quote. Invoices on balances overdue will be subject to a service

charge of one and a half (1¹/₂%) percent per month on such indebtedness.

Deliveries: Shipments and deliveries shall at all times be subject to the approval of Seller's Credit Department. If the Buyer shall fail to make any payments according to the terms of the contract, Seller may in addition to and not in limitation of its other rights and remedies, at its option, cancel all or any part of Buyer's contracts with Seller except upon receipt of satisfactory security or for cash before shipment.

All schedules of shipment are estimated as closely as possible and Seller will use its best efforts to ship within the time scheduled, but does not guarantee to do so. Schedules commence with the date Seller receives authorization to proceed with the order, subject to the provisions of the next sentence. The order will not be released for manufacture until complete specifications and approved drawings (if drawings approval is required) are received at the plant of manufacture and the estimated schedule of shipment will commence with the date of such receipt.

Seller shall not be liable for any direct, indirect or consequential damage or loss caused by any delay in delivery, regardless of the cause of delay. Without limiting the generality of the foregoing, Seller assumes no responsibility for delays in delivery resulting from fire, flood, accidents, riots, strikes, transportation delays, labor or material shortages, existing or future laws, acts of any governmental authority, or any other cause beyond Seller's control. Items offered from stock are subject to prior sale.

Inspection: Final inspection and acceptance of products must be made at the plant facility, unless otherwise provided in the order and/or agreed upon specifications. Prices do not include charges for special tests or inspections performed at the request of the Buyer, unless called for in the order and/or in agreed upon specifications.

Returns: Permission in writing and return tagging instructions must be obtained from Seller before any goods returned for credit or adjustment will be accepted. Where returned goods are accepted, a minimum charge of twenty-five percent (25%) of the invoice price will be made, plus freight from both directions and costs of reconditioning the material for resale as new.

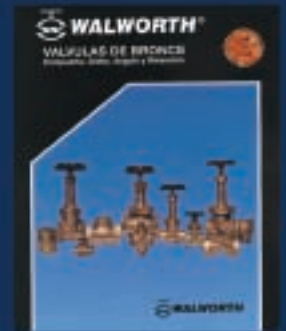
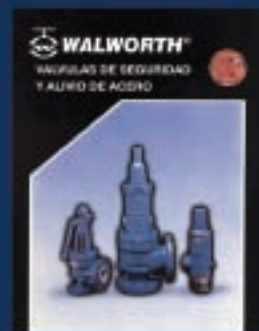
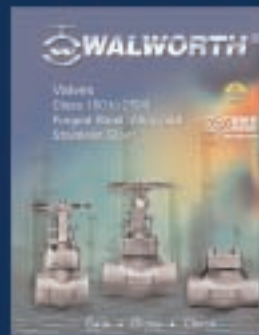
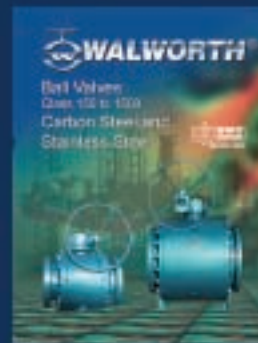
Warranty: Seller will replace without charge or refund the purchase price of products manufactured by Seller which prove to be defective in material or workmanship, provided in each case that the product is properly installed and is used in the service for which the Seller recommends it and that a written claim, specifying the alleged defect, is presented to Seller within one year from date of shipment. Seller shall in no event be responsible for (a) claims for labor, expenses or other damages occasioned by defective products or (b) for consequential or secondary damages. **THE WARRANTY STATED IN THIS PARAGRAPH IS IN LIEU OF ALL OTHER WARRANTIES EITHER EXPRESSED OR IMPLIED. WITH RESPECT TO WARRANTIES THIS PARAGRAPH STATES BUYER'S EXCLUSIVE REMEDY AND SELLER'S EXCLUSIVE LIABILITY.**

Design, etc.: Seller reserves the right to change design, materials or specifications without notice. There will be a charge for modifying an order after it has been entered when such change or modification results in additional engineering or clerical work for either TWC The Valve Company or our suppliers.

Minimum charge: Orders totaling less than \$100.00 (one hundred 00/100 U.S. CY) net will be billed at a minimum charge of \$50.00 (fifty 00/100 U.S. CY).

Note: We reserve the right to correct obvious clerical errors in quotations, invoices and other contracts.





WALWORTH[®]

Since 1842

MEXICO

Industrial de Válvulas S.A. de C.V.
Feacc. de la Industrial El Trébol
C.P. 54600 Tepetzotlán
Edo. de México
Tel. (52 55) 5899-1700
Tel. (52 55) 5876-0100
Fax: (52 55) 5899-1782
Fax: (52 55) 5899-1703
E-mail: ventas@walworth.com.mx
www.walworthmx.com

USA

TWC The Valve Company L.L.C.
4300 Campbell Road
Suite 100
Houston, TX 77041
Phone: (1 713) 996-9696
Toll Free: (1 800) 697-1842
Fax: (1 713) 996-9669
Toll Free: (1 800) 472-1842
E-mail: info@twcwalworth.com
www.twcwalworth.com