



FIRE PROTECTION VALVES | SPECIFICATION SHEETS



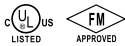
WARD MFG

117 Gulick Street, Blossburg, PA 16912 | www.wardmfg.com | (800) 248-1027

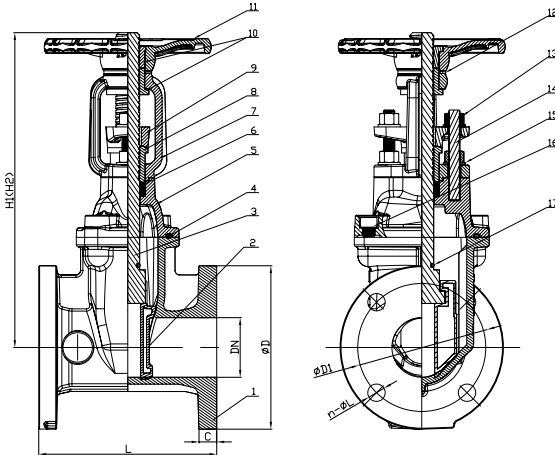
Flanged Resilient OS&Y
 Gate Valve (WGV41FF),
 UL/FM Approved



WGV41FF



- Pre-Grooved Stem
- NSF/ANSI 372
- AWWA C515
- Flanged valve is consistent with ANSI B16.1
- Working Pressure: 300PSI
- Temperature Range: 0°C-80°C
- Coating: Fusion Bonded Epoxy Coating Complies with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	Resilient Wedge Disc	ASTM A536, 65-45-12+EPDM	
3	Stem	ANSI 420	AISI 304, AISI 316, AISI 431, Al-bronze
4	Bonnet Gasket	EPDM	
5	Bonnet	ASTM A536, 65-45-12	
6	Stem Packing	EPDM	
7	Yoke	ASTM A536, 65-45-12	
8	Stem Bushing	Brass Hpb59-1	
9	Gland	ASTM A536, 65-45-12	
10	Stem Nut	Brass Hpb59-1	Bronze ZQSn5-5-5
11	Handwheel	ASTM A536, 65-45-12	Pressed Steel
12	Washer	Brass Hpb59-1	
13	Gland Nut	Carbon Steel Zinc Plated	AISI 304, AISI 316
14	Stud	Carbon Steel Zinc Plated	AISI 304, AISI 316
15	Flat Washer	Carbon Steel Zinc Plated	AISI 304, AISI 316
16	Nut	Carbon Steel Zinc Plated	AISI 304, AISI 316
17	O-Ring	EPDM	NBR

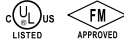
Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.

DN		Dimensions(mm)						
Inch	mm	L	H1(Close)	H2(Open)	D	D1	C	n-ΦL
2"	50	178	348	400	152	120.7	16.0	4-Φ19.1
2.5"	65	190	373	440	178	139.7	17.5	4-Φ19.1
3"	80	203	408	490	191	152.4	19.1	4-Φ19.1
4"	100	229	471	573	229	190.5	19.1	8-Φ19.1
5"	125	254	541	665	254	215.9	19.1	8-Φ22.2
6"	150	267	601	755	279	241.3	19.1	8-Φ22.2
8"	200	292	774	975	343	298.5	22.2	8-Φ22.2
10"	250	330	939	1193	406	362.0	23.8	12-Φ25.4
12"	300	356	1065	1370	483	431.8	25.4	12-Φ25.4

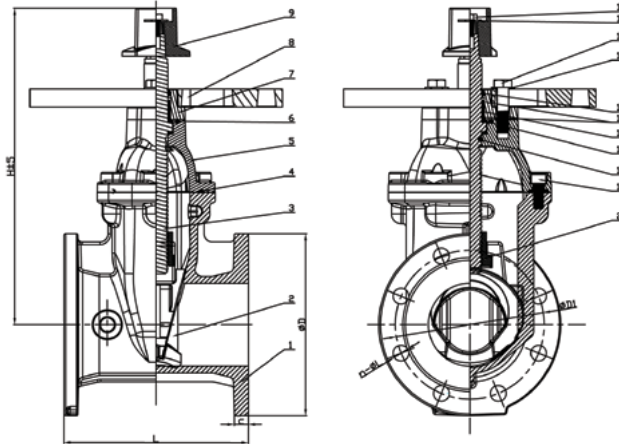
Flanged Resilient NRS Gate Valve with Post Flange (WGV45FF), UL/FM Approved



WGV45FF



- Flanged valve is consistent with ANSI B16.1
- Working Pressure: 300PSI
- Temperature Range: 0°C-80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	Resilient Wedge Disc	ASTM A536, 65-45-12+EPDM	
3	Stem	AISI 431	AISI 304, AISI 316, AISI 420, Al-bronze
4	Bonnet Gasket	EPDM	NBR
5	Bonnet	ASTM A536, 65-45-12	
6	O-Ring	NBR	EPDM
7	Gland	ASTM A536, 65-45-12	
8	Post Flange	ASTM A536, 65-45-12	
9	Square Operating Nut	ASTM A536, 65-45-12	
10	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
11	Flat Washer	Carbon Steel Zinc Plated	AISI 304, AISI 316
12	Nut	Carbon Steel Zinc Plated	AISI 304, AISI 316
13	Flat Washer	Carbon Steel Zinc Plated	AISI 304, AISI 316
14	Ring Wiper	EPDM	NBR
15	O-Ring	NBR	EPDM
16	Axis Guide	Brass Hpb59-1	
17	Washer	Brass Hpb59-1	
18	O-Ring	NBR	EPDM
19	Nut	Carbon Steel Zinc Plated	AISI 304, AISI 316
20	Wedge Nut	Brass Hpb59-1	Bronze ZQSn5-5-5

Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.
 Size 4"-5" with 1pc of 1/2" bronze NPT tapping plug, size 6"-12 with 1pc of 3/4" bronze NPT tapping plug.

DN		Dimensions(mm)					
Inch	mm	L	H	D	D1	C	n-ΦL
4"	100	229	395	229	190.5	19.1	8-Φ19.1
6"	150	267	475	279	241.3	19.1	8-Φ22.2
8"	200	292	585	343	298.5	22.2	8-Φ22.2
10"	250	330	656	406	362	23.8	12-Φ25.4
12"	300	356	751	483	431.8	25.4	12-Φ25.4

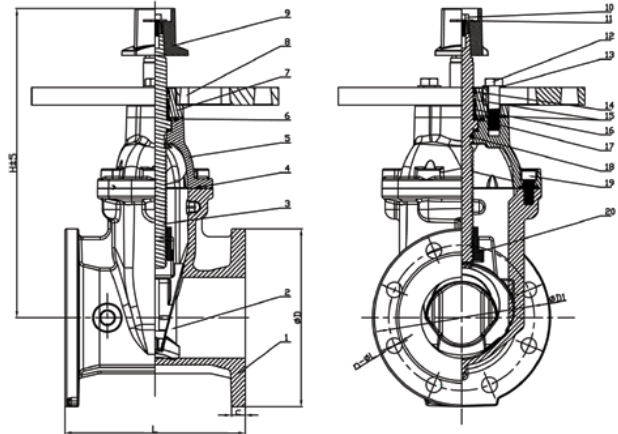
AWWA C515 Mechanical Joint Resilient
 NRS Gate Valve (WGV35MM), NSF Approved,
 UL/FM Approved



WGV35MM

NSF/ANSI 61 NSF/ANSI 372

- Connection Ends: Mechanical Joint to ANSI/AWWA C153/A21.53
- Working Pressure: 300PSI
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating Complies with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	Resilient Wedge Disc	ASTM A536, 65-45-12+EPDM	
3	Stem	AISI420	AISI 304, AISI 316, AISI 431, Al-bronze
4	Bonnet Gasket	EPDM	NBR
5	Bonnet	ASTM A536, 65-45-12	
6	O-Ring	NBR	EPDM
7	Gland	ASTM A536, 65-45-12	
8	Handwheel	ASTM A536, 65-45-12	
9	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
10	Flat Washer	Carbon Steel Zinc Plated	AISI 304, AISI 316
11	Ring Washer	EPDM	NBR
12	O-Ring	NBR	EPDM
13	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
14	Axis Guide	Brass HPb59-1	
15	Washer	Brass HPb59-1	
16	O-Ring	NBR	EPDM
17	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
18	Wedge Nut	Brass HPb59-1	Bronze ZQSn5-5-5

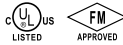
Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.

DN		Dimensions(mm)							
Inch	mm	L	H	D	D1	E	F	C	n-ΦL
3"	80	229	301	195	157.0	125.5	103.1	19.1	4-Φ19.1
4"	100	229	355	232	190.5	152.9	124.5	19.1	4-Φ22.2
6"	150	292	448	282	241.3	206.2	177.8	19.1	6-Φ22.2
8"	200	318	548	340	298.0	260.9	232.4	22.2	6-Φ22.2
10"	250	375	626	397	355.6	313.4	284.4	23.8	8-Φ22.2
12"	300	378	722	454	412.7	366.7	337.8	25.4	8-Φ22.2

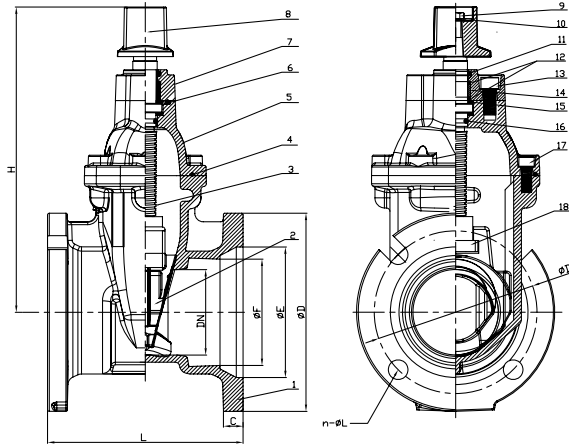
Mechanical Joint NRS Gate Valve
 Resilient Wedge, with Square
 Operating Nut (WGV35MMSN),
 UL/FM Approved



WGV35MMSN



- Connection Ends: Flange to ASME B16.1 CL 125
- Working Pressure: 300PSI
- Temperature Range: 0°C - 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536, 65-45-12	
2	Resilient Wedge Disc	ASTM A536, 65-45-12+EPDM	
3	Stem	AISI 431	AISI 304, AISI 316, AISI 420, Al-bronze
4	Bonnet Gasket	EPDM	NBR
5	Bonnet	ASTM A536, 65-45-12	
6	O-Ring	NBR	EPDM
7	Gland	ASTM A536, 65-45-12	
8	Post Flange	ASTM A536, 65-45-12	
9	Square Operating Nut	ASTM A536, 65-45-12	
10	Bolt	Carbon Steel Zinc Plated	AISI 304, AISI 316
11	Flat Washer	Carbon Steel Zinc Plated	AISI 304, AISI 316
12	Nut	Carbon Steel Zinc Plated	AISI 304, AISI 316
13	Flat Washer	Carbon Steel Zinc Plated	AISI 304, AISI 316
14	Ring Wiper	EPDM	NBR
15	O-Ring	NBR	EPDM
16	Axis Guide	Brass Hpb59-1	
17	Washer	Brass Hpb59-1	
18	O-Ring	NBR	EPDM
19	Nut	Carbon Steel Zinc Plated	AISI 304, AISI 316
20	Wedge Nut	Brass Hpb59-1	Bronze ZQSn5-5-5

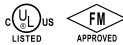
Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.
 Size 4"-5" with 1pc of 1/2" bronze NPT tapping plug, size 6"-12 with 1pc of 3/4" bronze NPT tapping plug.

DN		Dimensions(mm)							
inch	mm	L	H	D	D1	E	F	C	n-φL
3"	80	229	321	195	157	125.5	103.1	19.1	4-φ19.1
4"	100	229	375	232	190.5	152.9	124.5	19.1	4-φ22.2
6"	150	292	455	282	241.3	206.2	177.8	19.1	6-φ22.2
8"	200	318	565	340	298	260.9	232.4	22.2	6-φ22.2
10"	250	375	636	397	355.6	313.4	284.4	23.8	8-φ22.2
12"	300	378	731	454	412.7	366.7	337.8	25.4	8-φ22.2

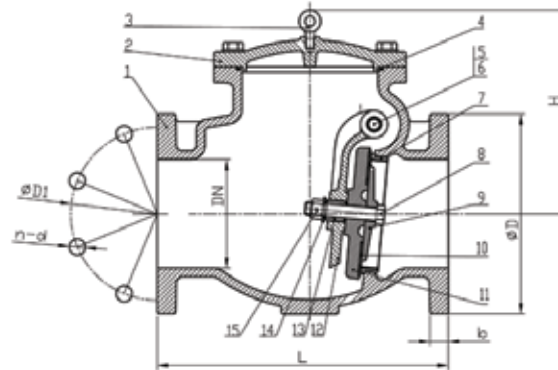
Flanged Resilient Swing Check Valve (WSC44FF), UL/FM Approved 3/4" Tapping, NSF 372 Compliant



WSC44FF



- Flanged valve is consistent with ANSI B16.1
- Working Pressure: 300PSI
- Temperature Range: 0°C-80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536,65-45-12	
2	Bonnet	ASTM A536,65-45-12	
3	Eye Bolt	Carbon Steel Zinc Plated	
4	O-Ring	NBR	EPDM
5	Hinge Pin	AISI 304	
6	Hinge Bushing	Brass ASTM B16 C36000/Hpb63-3	
7	Seat Ring	Bronze ASTM B62 C83600/ZQSn5-5-5(Pressed Fit)	AISI 304, AISI 316 Pressed Fit or Threaded
8	Disc Seat Bolt	AISI 304	
9	Retainer Washer	Bronze ASTM B62 C83600/ZQSn5-5-5	
10	Disc Sealing Ring	EPDM	AISI 304, AISI 316, Bronze ASTM B62
11	Disc	ASTM A536,65-45-12	
12	Clapper Arm	ASTM A536,65-45-12	
13	Stud Bushing	Brass ASTM B16 C36000/Hpb63-3	
14	O-Ring	NBR	EPDM
15	Nut	AISI 304	AISI 316

Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.

DN		Dimensions(mm)					
Inch	mm	L	D	D1	b	n-Φd	H
2"	50	203	152	120.5	16	4-Φ19.1	133
2.5"	65	254	178	139.5	17.5	4-Φ19.1	150
3"	80	278	191	152.5	19	4-Φ19.1	243
4"	100	330	229	190.5	24	8-Φ19.1	284
6"	150	406	279	241.5	25.5	8-Φ22.2	290
8"	200	495	343	298.5	28.5	8-Φ22.2	330
10"	250	622	406	362	30.5	12-Φ25.4	350

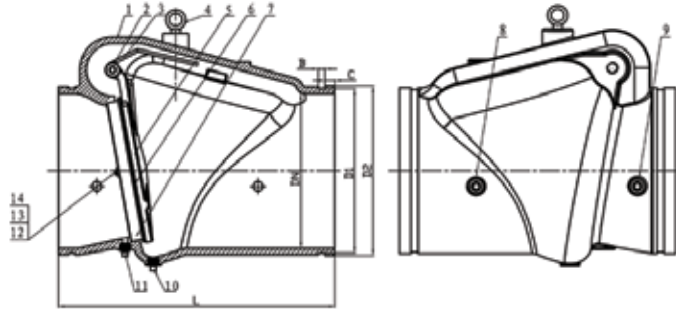
Grooved Resilient
 Swing Check Valve (WGC84GG),
 UL Listed, 3/4" Tapping for
 Ball Drip Outlet, UL/FM Approved



WGC84GG



- Connection Ends: Groove to AWWA C606
- Working Pressure: 300PSI
- Temperature Range: 0°C- 80°C
- Coating: Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550 or painting upon request



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification	Options
1	Valve Body	ASTM A536,65-45-12	
2	Hinge Pin	AISI 420	
3	Spring	AISI 304	AISI 316
4	Eye Bolt	Carbon Steel Zinc Plated	
5	Disc	DN50-100 AISI 304 DN150-300 ASTM A536,65-45-12	AISI 304
6	Disc Sealing Ring	EPDM	
7	Seat Ring	ASTM B62 C83600 (Pressed Fit)	AISI 304, AISI 316 Pressed Fit or Threaded
8	Plug	Malleable Iron Galvanized	Bronze ASTM B584
9	Plug	Malleable Iron Galvanized	Bronze ASTM B584
10	Plug	Malleable Iron Galvanized	Bronze ASTM B584
11	Plug	Malleable Iron Galvanized	Bronze ASTM B584
12	Bolt	AISI 304	AISI 316
13	Washer	AISI 304	AISI 316
14	Nut	AISI 304	AISI 316

Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list.

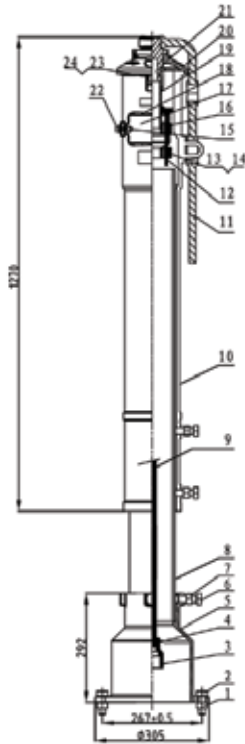
DN		Dimensions(mm)				
Inch	mm	L	D1	D2	B	C
2"	50	171	57.15	60.3	7.93	15.88
2.5"	65	184	69.09	73	7.93	15.88
3"	80	197	84.94	88.9	7.93	15.88
4"	100	210	110.08	114.3	9.53	15.88
5"	125	248	137.03	141.3	9.53	15.88
6"	150	324	163.96	168.3	9.53	15.88

Vertical Indicator Post (WVIND1AJ),

UL Listed, UL/FM Approved



WVIND1AJ



MATERIAL SPECIFICATION

Part No.	Part	Standard Specification
1	Hex Nut	Carbon Steel Zinc Plated
2	Hex Bolt	Carbon Steel Zinc Plated
3	Socket	ASTM A536,65-45-12
4	Cotter Pin	AISI 304
5	Base Flange	Cast Iron ASTM A126 Class B
6	Hex Bolt	Carbon Steel Zinc Plated
7	Hex Nut	Carbon Steel Zinc Plated
8	Standpipe	Carbon Steel ASTM A53
9	Stem 1" Square	Carbon Steel AISI 1045
10	Body	Cast Iron ASTM A126 Class B
11	Locking Wrench	ASTM A536,65-45-12
12	Target Carrier Nut	AISI 304
13	Hex Bolt	Carbon Steel Zinc Plated
14	Hex Nut	Carbon Steel Zinc Plated
15	Hex Bolt	Carbon Steel Zinc Plated
16	Target	Cast Aluminum
17	Window Class	Plexiglass
18	Gasket	PTFE
19	Operating Nut	AISI 304
20	Top Section	Cast Iron ASTM A126 Class B
21	Snap Ring	AISI 1066
22	Plug	Malleable Iron
23	Square Nut	Carbon Steel Zinc Plated
24	Hex Bolt	Carbon Steel Zinc Plated

Field Adjustment:

1. Remove the Top Section from the top of the Indicator Post assembly;
2. Cut the required stem length and adjust the Standpipe to match up to the ground line;
3. Set the "OPEN" and "SHUT" targets for the appropriate valve size;
4. Reattach the Top Section to the top of the Indicator Post assembly.

• Statement:

Vertical indicator post provides a means to operate a buried or otherwise inaccessible valve and able to indicate the open or shut position of the valve.

• Coating:

Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550

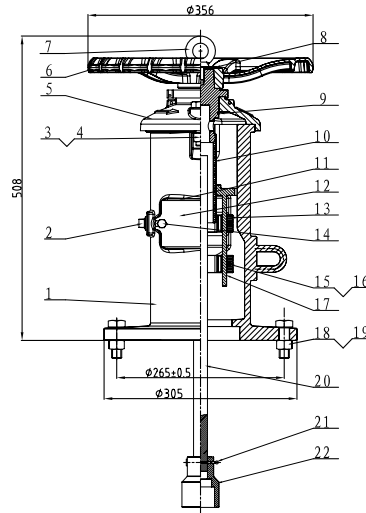
Wall Indicator Post (WWIND3AJ),
 UL Listed, UL/FM Approved



WWIND3AJ



- Statement:
 Wall indicator post provides a means to operate a valve installed behind a wall and able to indicate the open or shut position of the valve.
- Coating:
 Fusion Bonded Epoxy Coating in accordance with ANSI/AWWA C550



MATERIAL SPECIFICATION

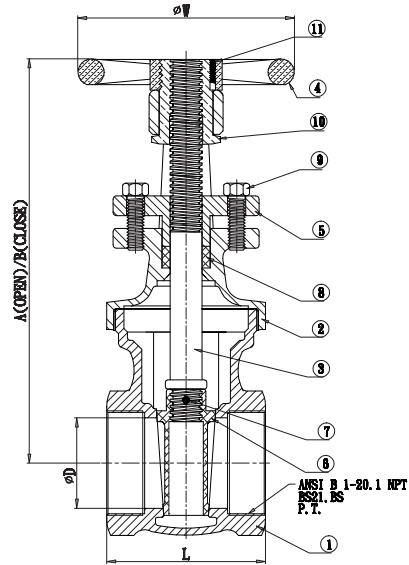
Part No.	Part	Standard Specification
1	Body	Cast Iron ASTM A126 Class B
2	Plug	Malleable Iron
3	Square Nut	Carbon Steel Zinc Plated
4	Hex Bolt	Carbon Steel Zinc Plated
5	Cover	Cast Iron ASTM A126 Class B
6	Hand wheel	ASTM A536, 65-45-12
7	Eye Bolt	Carbon Steel Zinc Plated
8	Gasket	Carbon Steel Zinc Plated
9	Snap Ring	AISI 1066
10	Operating NUT	AISI 304
11	Gasket	PTFE
12	Window Glass	Plexiglass
13	Target	Cast Aluminum
14	Hex Bolt	Carbon Steel Zinc Plated
15	Hex Bolt	Carbon Steel Zinc Plated
16	Hex Nut	Carbon Steel Zinc Plated
17	Target Carrier Nut	AISI 304
18	Hex Nut	Carbon Steel Zinc Plated
19	Hex Bolt	Carbon Steel Zinc Plated
20	Stem 1" Square	Carbon Steel AISI 1045
21	Cotter Pin	AISI 304
22	Socket	ASTM A536, 65-45-12

Note: For special material request other than standard specification, please indicate clearly on the inquiry or order list;

OS&Y Rising Stem (W104), UL/FM Approved



- 175 Cwp, UI/ Fm
- Fire Main Approved
- Bronze B62 Rising Stem
- Outside Stem & Yoke
- Over Bonnet Design



MATERIAL SPECIFICATION

Part No.	Part	Size	Quantity
1	Body	Bronze C83600	1
2	Bonnet	Bronze C83600	1
3	Stem	Brass	1
4	Handwheel	Cast Iron	1
5	Packing Gland	Bronze C83600	1
6	Disc	Bronze C83600	1
7	Disc Pin	SS-304	1
8	Gland Packing	Graphite	1
9	Stud	Steel	2
10	Yoke Bushing	Brass	1
11	Set Screw	Steel	1

DIMENSIONS (MM)

Size	A±2	B±2	L±0.5	øD	øW±3
3/4"	173	145.5	59	20	80
1"	198.5	163	69	25	80
1-1/4"	220.5	181.5	75	32	80
1-1/2"	243	197	82	37.5	100
2"	276	227	90.5	50	120

Distributed by:

TERMS AND CONDITIONS OF SALE:

- 1. PRICES:** This price sheet supersedes all previous issues. Prices in price sheets are subject to change without notice. Prices apply only to standard sizes as listed in catalog.
- 2. APPROVAL & ACCEPTANCE OF ORDERS:** All orders are accepted on the basis of prices in effect at the time of shipment.
- 3. TAXES:** Any Manufacturer or Sales Tax payable on the transaction under any effective statute will be added to the prices and terms quoted, unless a valid exemption certificate is on file.
- 4. CREDIT TERMS:** Two percent cash discount tenth prox., - Net 30 days. Unless otherwise stated.
- 5. DELIVERY & SHIPMENT OF GOODS:** All goods are shipped at buyer's risk. Shipments should be carefully examined upon delivery and before the carrier's delivery receipt is signed. If any loss or damage is evident, the buyer should make an appropriate notation on the delivery receipt and insist that the carrier's driver initial such exception. The contents of all packages should be carefully examined for concealed damage as soon as possible after delivery, so that the carrier can be requested, within 48 hours after delivery, to arrange for prompt inspection of the damaged goods. Completion of all orders accepted and fulfillment of all agreements or contracts entered into are subject to any delay which might be occasioned by labor disputes, fires, accidents, embargoes, trade restrictions, governmental directives or other causes beyond our control. All promises of shipment will be as closely estimated as possible. We use our efforts in every case to ship within the time promised, but cannot guarantee to do so. All claims for shortage must be made on receipt of goods. We prove our count by weighing the package. Claims for shortage are subject to that test. Typographical, clerical, arithmetical errors or omissions in orders, invoices, quotations, price schedules, acknowledgments, or other documents are subject to correction.
- 6. RETURN OF GOODS:** No goods will be taken back and credited without prior approval and issuance of a return goods authorization (RGA) number. All fittings returned with our permission must be goods sold by Ward Manufacturing, LLC, and in clean saleable condition. Credit will only be allowed on the basis of prices agreed upon. If product returned is a result of a customer ordering error or overstocking situation, the credit will be less 20 percent to cover handling costs, less any costs of returning to a saleable condition, and less transportation charges on original and return shipments. Orders for special goods are not subject to cancellation for any reason after work has been started on them, except upon agreement to make payment for all work which has been performed.
- 7. WARRANTY:** Seller warrants the material to be free of defects in material and workmanship, under normal use, proper maintenance and proper operation, for a period of one year from date of delivery to a common carrier for shipment to buyer or his designated agent. The obligation of the seller is limited to (1) repair of the material, or (2) replacement of any component or components proven defective in material or workmanship, or (3) refund of the purchase price. Seller shall have no liability for the cost of removal or reinstallation with respect to any replaced or repaired product. The election of said remedies shall be determined by seller in its sole discretion and shall be considered final disposition. All implied warranties, including the implied warranties of merchantability and fitness for a particular purpose, are hereby disclaimed and excluded. This warranty is in lieu of all other warranties, guarantees, agreements and similar obligations of seller; in no event shall seller be liable for consequential or incidental damages.
- 8. FREIGHT TERM:** Shipments of \$2,000 net or more will be prepaid in the continental U.S. (except Alaska). We reserve the right to choose shipping point and carrier.
- 9. CARTON & BOX QUANTITY ADJUSTMENT:** On orders received for less than master carton or box quantities, we reserve the right to adjust to the next carton or box quantity above the number of pieces shown on the order. Items subject to adjustment are identified with stars in the price sheet.
- 10. WEIGHTS:** The weights per piece or per 100 pieces given in the price sheet, catalogs, and quotations are not guaranteed, but are approximate and for your convenience.
- 12. SPECIAL CONDITIONS:** Any additional cost incurred in packaging or in making any special tests or inspection requested by Buyer in addition to those commercially supplied by Ward Manufacturing, LLC., will be charged to Buyer. Such tests and inspections will be made at the factory before date of shipment. Orders for fittings or parts will be subject to a net minimum invoice charge of \$50.00 Net plus applicable handling and freight charges.
- 13. US EXPORT COMPLIANCE:** The products sold by Ward Manufacturing, LLC. may be subject to the export control laws and regulations of the United States Government. Buyer may not make any disposition of such products, by way of sale, export, re-export, transshipment or otherwise, except as permitted under applicable U.S. law.