

NEWCO

IRON VALVES



Newco Valves



Newmans



INTRODUCTION

Newco is not just a brand name, but more a commitment to the future of the valve industry. Newman's, throughout its long history as a major valve supplier, has maintained an innovative posture. Therefore, it is only natural that a company of our stature would lead the way in the creation of a truly high quality, international valve line.

Newco products are designed, engineered, produced, tested, warehoused and shipped under the strict supervision of Newman's trained professionals. Prior to issuing the licensing agreement which allows the international factory to use the Newco Brand name, Newman's insures that every step, from design to completed product, meets or exceeds all applicable industry standards, including ASTM, MSS, API and ANSI, as well as Newman's own stringent criteria. This Newco Iron Valve catalog is a true representation of Newco's commitment to quality and service.

Newco valves are stocked in depth throughout North America in Newman's operated warehouses, insuring you the product you need when you need it. All Newco valves, flanges and fittings can be purchased through authorized Newco distributors and agents.

When quality, engineering, modifications, special application products and rapid delivery are necessary, come to Newco.

TERMS & CONDITIONS

QUOTATIONS

Goods quoted FOB our warehouses are subject to prior sale. Prices quoted are valid only for the duration indicated in the quotation. Quoted prices supercede all previous prices, quotations or contracts and are subject to change without notice.

TAXES

Any sales or use tax which may be imposed or any excise or occupational tax measured or required, whether or not the law imposing such tax is now in effect, shall be in addition to the quoted price and shall be paid by the Buyer. If any tax is required to be paid by Newman's, the Buyer shall reimburse Newman's upon presentation of invoice.

ORDERS

Orders for standard valves should state the exact size and figure number desired. Orders for special items or modifications of standard items must be confirmed in writing and accompanied with detailed prints and/or specifications.

INSPECTION

When orders are accepted subject to the Buyer's inspection, the goods must be inspected and accepted prior to shipment.

DESIGN CHANGES

We reserve the right to institute changes in materials, design and specifications without notice.

DELIVERY

Delivery of material to a common carrier shall be considered delivery thereof to the Buyer, and shall be at the Buyer's risk thereafter. Claims for loss or any damage to material in transit shall be filed by the Buyer direct with the carrier. All claims for shortages, corrections or deductions must be made within 10 days after receipt of goods.

CANCELLATIONS & RETURNS

Orders placed with us cannot be cancelled without our prior consent. Requests to return merchandise must be submitted to us in writing and have our written approval before any returned goods will be accepted. A cancellation charge will be applicable unless otherwise

agreed upon. Special items or modification of standard items are not returnable. We assume no responsibility for goods returned without prior agreement.

FORCE MAJEURE

We are not responsible for delays in delivery or defaults in completing a contract due to strikes, work stoppages, fires, floods, accident, inability to obtain materials, fuel, transportation or other causes beyond our control.

SPARE PARTS

Spare parts are available for all Newco valves. When ordering, please state size and figure number of valves and name or identification number of part desired.

LIMITED WARRANTY

Newman's, warrants to the original purchaser, for a period of one year from and after the date of delivery to the original customer, that its products will be free from defects in workmanship and materials, not caused or resulting from improper usage or application, improper installation, improper maintenance, repair modification or alterations.

In the event the original purchaser shall determine that a product purchased from Newman's shall be defective in workmanship or materials, the customer shall notify the Newman's Warranty Representative by telephone (918) 838-9971 within 24 hours from such determination, followed by written notice to such effect within 7 days therefrom, addressed to:

Newman's
P.O. Box 1856
Tulsa, OK 74101

In the event Newman's, shall determine that the product is defective based upon such examination of the product which Newman's may deem appropriate, Newman's shall thereupon, at its sole option, (a) cause the defective product to be repaired, (b) replaced with a substantially identical product, or (c) accept the return of a defective product and refund the purchasing price to the original purchaser. Newman's shall bear all normal surface transportation costs to the original purchaser but shall in no event bear any installation, re-installation, engineering or other costs incurred in connection with repair or replacement.

Unless Newman's shall have provided engineering and/or suitability of application or installation services for a purchaser, for which a separate charge shall have been specifically identified and made, the selection, suitability, installation and fitness of all products sold by Newman's shall be deemed to have been determined exclusively by and within the sole discretion of the purchaser. Accordingly, Newman's disclaims any obligation, warranty or guarantee in any manner relating to or resulting from the selection, application, suitability, fitness or installation of its products.

The foregoing constitutes the sole obligation of Newman's with respect to defective products purchased from it and in no manner shall Newman's assume or be liable for any other expenses, incidental or consequential damages, losses, lost profits, downtime or otherwise, whether directly or indirectly suffered, or in any other manner relating to or as the result of any defect or failure of any product that it may sell.

Except as otherwise provided herein, NEWMAN'S MAKES NO WARRANTIES OR REPRESENTATIONS, WHETHER EXPRESS OR IMPLIED, OF ANY KIND WHATSOEVER WITH RESPECT TO GOODS AND PRODUCTS SOLD BY IT, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES WITH RESPECT TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NO PERSON IS AUTHORIZED TO GRANT OR EXTEND ANY WARRANTY OR REPRESENTATION ON BEHALF OF NEWMAN'S OTHER THAN AS SET FORTH HEREIN.



NEWCO FIGURE NUMBERS

Type	Pressure Class	End Connections	Trim Material	*SUFFIX LETTERS
1 = Gate, OS&Y	1 = 150	F = Flanged	1 = CR13	PS = Pressure Seal Bonnet
2 = Globe, OS&Y	2 = 125	W = Butt Weld	2 = CR13/HF**	SO = Safe-O-Seal Bonnet
3 = Swing Check	3 = 300	J = RTJ	3 = HF/HF**	WB = Welded Bonnet
4 = Lift Check	4 = 400	S = Socket Weld	4 = 316	UB = Union Bonnet
5 = Ball	5 = 250	T = Threaded	5 = NI CU (Monel***)	HP = Horizontal Piston Check
6 = Gate, NRS	6 = 600	B = Wafer	6 = Alloy 20	HB = Horizontal Ball Check
7 = Angle, OS&Y	8 = 800	X = Special (Customer to specify)	7 = Bronze	VB = Vertical Ball Check
8 = Plug	9 = 900		8 = Iron	TD = Tilting Disc Check
9 = Butterfly	15 = 1500		9 = Special (Customer to specify)	FP = Full Port
	25 = 2500			RP = Regular Port
	45 = 4500			TF = Teflon* Insert
				VT = Viton* Insert
				SC = Stop-Check
				NR = Non-Return
				SG = Solid Wedge, Gate
				N1 = NACE Valve, Class I Bolting
				N2 = NACE Valve, Class II Bolting
				N3 = NACE Valve, Class III Bolting
				HL = High Lift
				FS = Firesafe
				PT = PTFE Seats
				GO = Gear Operator
				MO = Motor Operator
				PO = Pneumatic Operator
				HO = Hydraulic Operator
				CR = Cryogenic Service
				OL = Outside Weight & Lever
				VP = V-Port Disc
				BP = By-Pass
				OX = Oxygen Service
				CL = Chlorine Service
				GI = Grease Injection
				BS = Bellows Seal
				VG = Venturi Gate
				ST = Socket Weld x Threaded
				SL = Special Lining

FIG. 22F-IB7*

BODY/BONNET MATERIAL

CB = ASTM A216, WCB	= Cast Carbon Steel
C5 = ASTM A217, C5	= Cast Alloy Steel (5% Chrome, 1/2% Moly)
C6 = ASTM A217, WC6	= Cast Alloy Steel (1 1/4% Chrome, 1/2% Moly)
C9 = ASTM A217, WC9	= Cast Alloy Steel (2 1/4% Chrome, 1% Moly)
C12 = ASTM A217, C12	= Cast Alloy Steel (9% Chrome, 1% Moly)
LCB = ASTM A352, LCB	= Cast Low Temperature Carbon Steel
LC3 = ASTM A352, LC3	= Cast Low Temperature 3 1/2% Nickel Steel
CF8 = ASTM A351, CF8	= Cast 304 Stainless Steel
C8M = ASTM A351, CF8M	= Cast 316 Stainless Steel
A20 = ASTM A351, CN7M	= Cast Alloy 20
MO = ASTM A296, M35	= Cast NI CU (Monel***)
FS = ASTM A105	= Forged Carbon Steel
F5 = ASTM A182, F5	= Forged Alloy Steel (5% Chrome, 1/2% Moly)
LF-2 = ASTM A350, LF2	= Forged Low Temperature Carbon Steel
F11 = ASTM A182, F11	= Forged Alloy Steel (1 1/4% Chrome, 1/2% Moly)
F22 = ASTM A182, F22	= Forged Alloy Steel (2 1/4% Chrome, 1% Moly)
F8M = ASTM A182, F316	= Forged 316 Stainless Steel
F8 = ASTM A182, F304	= Forged 304 Stainless Steel
F8C = ASTM A182, F321	= Forged 321 Stainless Steel
DI = ASTM A395	= Cast Ductile Iron
IB = ASTM A126, CLB	= Cast Iron
BR = ASTM B61	= Bronze
SPL = Special (Customer to specify)	

* = Viton and Teflon are registered trademarks of DuPont Company.
 ** HF = Hardfaced - AWS 5.13 Class C₀C₁A.
 *** = Monel is a registered trademark of International Nickel Company.

Please order by size, figure number (which specifies type), pressure class, end connections, materials and special features, as shown above.

For End Connections, Body Materials and Trims not listed, please specify.



GATE VALVES

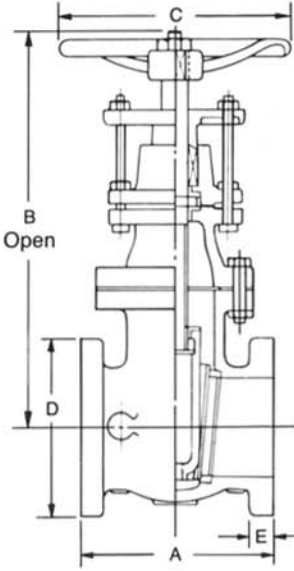


Fig. 62F-IB7 (Bronze Trim)
62F-IB8 (Iron Trim)

IRON NRS & OS&Y-CLASS 125

		2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	*30"	*36"
A	IN	7.0	7.5	8.0	9.0	10.0	10.5	11.5	13.0	14.0	15.0	16.0	17.0	18.0	20.0	24.0	28.0
	MM	178	190	203	229	254	267	292	330	356	381	406	432	457	508	610	711
B	IN	12.0	12.75	14.88	17.38	20.25	22.0	27.25	32.38	35.88	40.38	45.75	49.0	53.0	59.0		
	NRS MM	305	324	378	441	514	559	692	822	911	1026	1162	1245	1346	1499		
B	IN	15.0	16.88	19.25	24.0	28.75	32.60	41.0	49.88	57.5	65.5	74.75	82.38	91.0	107.13	134.0	159.5
	OSY MM	381	429	489	610	730	828	1041	1267	1460	1664	1899	2092	2311	2721	3404	4051
C	IN	8.0	8.0	9.0	10.0	12.0	12.0	16.0	18.0	18.0	20.0	22.0	24.0	24.0	30.0	36.0	42.0
	MM	203	203	229	254	305	305	406	457	457	508	559	610	610	762	914	1067
D	IN	6.0	7.0	7.5	9.0	10.0	11.0	13.5	16.0	19.0	21.0	23.5	25.0	27.5	32.0	38.75	46.0
	MM	152	178	190	229	254	279	343	406	483	533	597	635	698	813	984	1168
E	IN	.63	.69	.75	.94	.94	1.0	1.13	1.19	1.25	1.38	1.44	1.56	1.69	1.88	2.19	2.38
	MM	16.00	17.53	19.05	23.88	23.88	25.40	28.70	30.23	31.75	35.05	36.58	39.62	42.93	47.75	55.63	60.45
Turn to Open	IN	6.88	8.38	10.0	8.75	10.88	12.88	17.0	21.13	25.25	29.38	33.5	37.63	41.38	45.88		
	NRS MM	175	213	254	222	276	327	432	537	641	746	851	956	1051	1165		
NRS	LB	40	50	64	107	143	169	303	475	653	908	1264	1550	2045	3100		
	WT KG	18	23	29	49	65	81	137	215	296	413	574	714	932	1410		
OSY	LB	42	53	68	114	156	198	328	526	704	968	1342	1659	2182	3256	4813	8708
	WT KG	19	24	31	52	71	90	149	239	320	440	610	754	992	1480	2188	3958

*OS&Y only

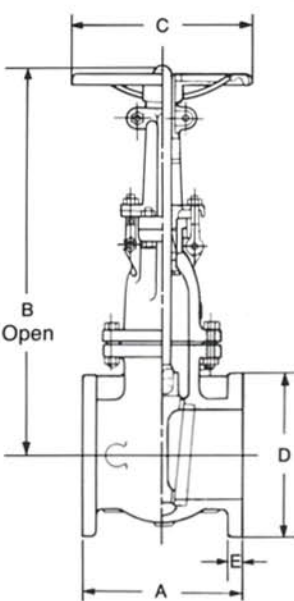


Fig. 12F-IB7 (Bronze Trim)
12F-IB8 (Iron Trim)



NRS APPLICABLE STANDARDS:
Face-to-Face: ANSI B16.10
End Flanges: ANSI B16.1
Design: MSS-SP-70
API 595

OS&Y APPLICABLE STANDARDS:
Face-to-Face: ANSI B16.10
End Flanges: ANSI B16.1
Federal Spec.: WW-V-58-B,
Type 1, Class 1
Design: MSS-SP-70
API 595

PART	MATERIAL	ASTM SPEC.
Body/Bonnet	Iron	A126 CL B
Wedge Face Ring Bronze Trim Iron Trim	Bronze Iron	B62 A126 CL B
Seat Ring Bronze Trim Iron Trim	Bronze Steel (Ni-Plated)	B62 A 108 Gr 1018
Gasket/Packing	TFE. Imp.	Commercial
Bonnet Bolting	Steel	A307 Gr B

GLOBE & ANGLE VALVES



IRON OS&Y - CLASS 125

		2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"
A	IN	8.0	8.5	9.5	11.5	13.0	14.0	19.5	24.5	27.5	31.0
	MM	203	216	241	292	330	356	495	622	699	787
A ₁	IN	4.0	4.5	4.75	5.75	6.5	7.0	9.75	12.25	13.75	
	MM	102	114	121	146	165	178	248	311	349	
B	IN	10.19	11.81	12.5	15.81	16.66	18.38	26.13	26.81	34.13	37.75
	MM	259	299	317	401	422	466	663	680	867	959
C	IN	8.0	8.0	9.0	10.0	12.0	12.0	16.0	18.0	20.0	20.0
	MM	203	203	229	254	305	305	406	457	508	508
D	IN	6.0	7.0	7.5	9.0	10.0	11.0	13.5	16.0	19.0	21.0
	MM	152	178	190	229	254	279	342	406	483	533
E	IN	.63	.69	.75	.94	.94	1.0	1.13	1.19	1.25	1.38
	MM	16.00	17.53	19.05	23.88	23.88	25.40	28.70	30.23	31.75	35.05
GLOBE	LB	31	40	53	88	119	150	378	622	865	1157
WT	KG	14	18	24	40	54	68	172	283	393	526
ANGLE	LB	31	40	51	84	119	150	370	598	827	986
WT	KG	14	18	23	38	54	68	168	272	376	448

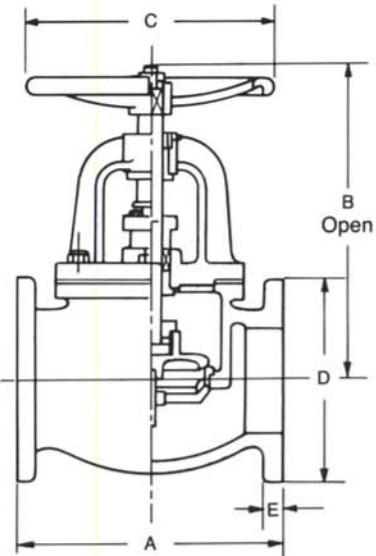


Fig. 22F-IB7 (Bronze Trim)
22F-IB8 (Iron Trim)

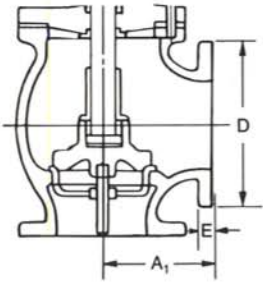


Fig. 72F-IB7 (Bronze Trim)
72F-IB8 (Iron Trim)

PART	MATERIAL	ASTM SPEC.
Body/Bonnet	Iron	A126 CL B
Disc Face Bronze Trim Iron Trim	Bronze Iron	B62 A126 CL B
Seat Ring Bronze Trim Iron Trim	Bronze Iron	B62 A395
Stem Bronze Trim Iron Trim	Manganese Bronze Steel (Ni-Plated)	B585 Alloy 864 A108 Gr 1018
Bonnet Bolting	Steel	A307 GrB
Packing/Gasket	TFE Imp.	Commercial

APPLICABLE STANDARDS:
Face-to-Face: ANSI B16.10
End Flanges: ANSI B16.1



SWING CHECK VALVES

IRON - CLASS 125

		2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
A	IN	8.0	8.5	9.5	11.5	13.0	14.0	19.5	24.5	27.5	31.0	30.0	33.0	36.0	45.0
	MM	203	216	241	292	330	356	495	622	698	787	762	838	914	1143
B	IN	5.0	5.63	6.0	7.12	8.38	8.88	11.5	14.13	14.63	17.25	18.88	20.5	22.68	28.75
	MM	127	143	152	181	213	226	292	359	372	438	480	521	576	730
D	IN	6.0	7.0	7.5	9.0	10.0	11.0	13.5	16.0	19.0	21.0	23.5	25.0	27.5	32.0
	MM	152	178	191	229	254	279	343	406	483	533	597	635	698	813
E	IN	.63	.69	.75	.94	.94	1.0	1.13	1.19	1.25	1.38	1.44	1.56	1.69	2.0
	MM	16.00	17.53	19.05	23.88	23.88	25.40	28.70	30.23	31.75	35.05	36.58	39.62	42.93	50.80
WT	LB	24	42	48	88	112	143	288	473	642	891	1256	1577	1907	3960
	KG	11	19	22	40	51	65	131	215	292	405	571	717	867	1800

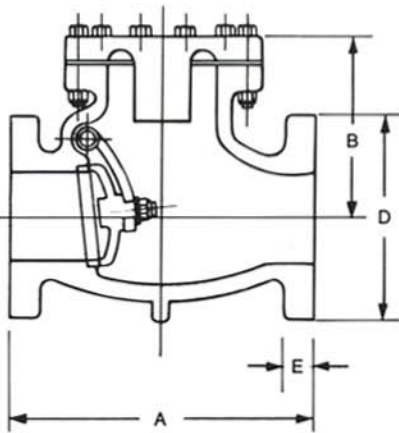


Fig. 32F-IB7 (Bronze Trim)
32F-IB8 (Iron Trim)

APPLICABLE STANDARDS:
Face-to-Face: ANSI B16.10
End Flanges: ANSI B16.1

PART	MATERIAL	ASTM SPEC.
Body/Cap	Iron	A126 CL B
Disc		
Bronze Trim - NPS 2-5	Bronze	B 61
Bronze Trim - NPS 6-24	Carbon Steel Bronze Faced	A 216 Gr WCB
Iron Trim	Carbon Steel	A 216 Gr WCB
Seat Ring		
Bronze Trim	Bronze	B 62
Iron Trim	Iron	A 395
Cap Bolting	Steel	A 307 Gr B
Side Plug	Bronze	B 140 Alloy 320

GATE, GLOBE & CHECK VALVES

Newco Valves



IRON GATE OS&Y - CLASS 250

		2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"
A	IN	8.5	9.5	11.13	12.0	15.0	15.88	16.5	18.0	19.75	22.5	24.0
	MM	216	241	283	305	381	403	419	457	503	571	610
B	IN	15.44	18.25	20.06	26.13	30.5	33.63	44.63	53.75	63.75	65.0	71.13
	MM	392	464	509	664	775	854	1134	1365	1619	1651	1807
C	IN	8.0	9.0	10.0	12.0	14.0	16.0	18.0	22.0	24.0	27.0	27.0
	MM	203	229	254	305	356	406	457	559	610	686	686
D	IN	6.5	7.5	8.25	10.0	11.0	12.5	15.0	17.5	20.5	23.0	25.5
	MM	165	190	210	254	279	317	381	444	521	584	641
E	IN	.88	1.0	1.13	1.25	1.38	1.44	1.63	1.88	2.0	2.13	2.25
	MM	22.35	25.40	28.70	31.75	35.05	36.58	41.40	47.75	50.80	54.10	57.15
WT	LB	53	75	108	182	274	352	624	933	1378	1770	2264
	KG	24	34	49	83	124	160	284	424	626	804	1029

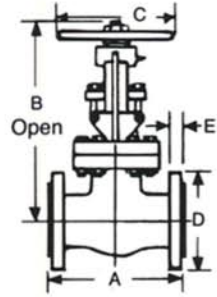


Fig. No. 15F-IB7

IRON GLOBE OS&Y - CLASS 250

		2"	2½"	3"	4"	5"	6"	8"
A	IN	10.5	11.5	12.5	14.0	15.75	17.5	21.0
	MM	267	292	318	356	400	444	533
B	IN	14.31	15.63	16.94	19.25	22.63	24.38	28.88
	MM	363	397	430	489	575	619	734
C	IN	9.0	10.0	12.0	16.0	18.0	18.0	22.0
	MM	229	254	305	406	457	457	559
D	IN	6.5	7.5	8.25	10.0	11.0	12.5	15.0
	MM	165	190	210	254	279	317	381
E	IN	.88	1.0	1.13	1.25	1.38	1.44	1.63
	MM	22.35	25.40	28.70	31.75	35.05	36.58	41.40
WT	LB	71	96	125	190	291	390	696
	KG	32	44	57	86	132	177	316

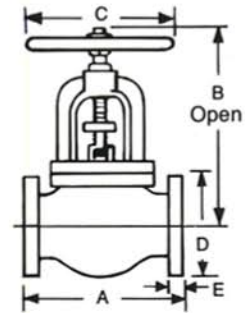


Fig. No. 25F-IB7

IRON SWING CHECK - CLASS 250

		2"	2½"	3"	4"	6"	8"	10"	12"
A	IN	10.5	11.5	12.5	14.0	17.5	21.0	24.5	28.0
	MM	267	292	318	356	444	533	622	711
B	IN	5.5	6.38	6.38	7.75	10.5	13.0	15.0	18.0
	MM	140	162	162	197	267	330	381	457
D	IN	6.5	7.5	8.25	10.0	12.5	15.0	17.5	20.5
	MM	165	190	210	254	317	381	444	521
E	IN	.88	1.0	1.13	1.25	1.44	1.63	1.88	2.0
	MM	22.35	25.40	28.70	31.75	36.58	41.40	47.75	50.80
WT	LB	39	58	76	128	270	480	710	1095
	KG	18	26	34	58	123	218	323	498

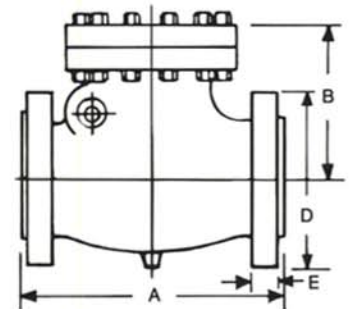


Fig. No. 35F-IB7



GATE VALVES

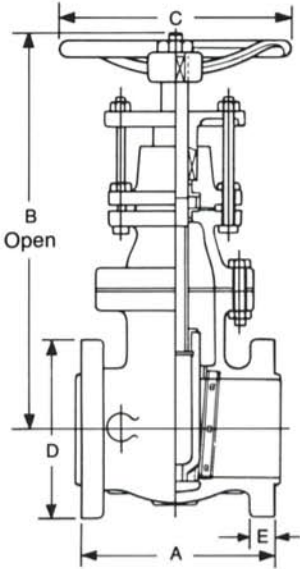


Fig. 61F-DI7 (Bronze Trim)

DUCTILE IRON NRS & OS&Y - CLASS 150

		2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
A	OSY IN	7.0	7.5	8.0	9.0	10.0	10.5	11.5	13.0	14.0	15.0	16.0	17.0	18.0	20.0
	NRS MM	178	190	203	229	254	267	292	330	356	381	406	432	457	508
B	NRS IN	12.0	12.75	14.88	17.38	20.25	22.0	27.25	32.38	35.88	40.38	45.0	49.0	53.0	59.0
	MM	305	324	377	441	514	559	692	822	910	1025	1143	1245	1346	1499
B	OSY IN	15.0	16.88	19.25	24.0	28.75	32.63	41.0	49.88	57.5	65.5	74.38	82.38	91.0	107.13
	MM	381	428	489	610	730	828	1041	1266	1460	1664	1889	2092	2311	2721
C	IN	8.0	8.0	9.0	10.0	12.0	12.0	16.0	18.0	18.0	20.0	22.0	24.0	24.0	30.0
	MM	203	203	229	254	305	305	406	457	457	508	559	610	610	762
D	IN	6.0	7.0	7.5	9.0	10.0	11.0	13.5	16.0	19.0	21.0	23.5	25.0	27.5	32.0
	MM	152	178	190	229	254	279	343	406	483	533	597	635	698	813
E	IN	.63	.69	.75	.94	.94	1.0	1.13	1.19	1.25	1.38	1.44	1.56	1.69	1.88
	MM	16.00	17.53	19.05	23.88	23.88	25.40	28.70	30.23	31.75	35.05	36.58	39.62	42.93	47.75
NRS	LB	40	50	64	108	143	178	301	473	653	908	1264	1550	2045	3100
WT	KG	18	23	29	49	65	81	137	215	296	413	574	714	932	1410
OSY	LB	42	53	68	114	156	198	328	526	704	968	1342	1659	2182	3256
WT	KG	19	24	31	52	71	90	149	239	320	440	610	754	992	1480

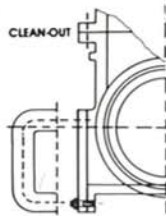
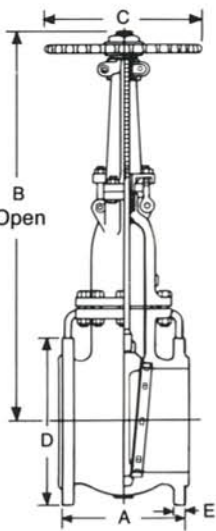


Fig. 11F-DI7 (Bronze Trim)

APPLICABLE STANDARDS:
NRS Gate Valves
 Flanged Ends: CL 150, ANSI B16.5
 Face-to-Face: CL 150, ANSI B16.10

APPLICABLE STANDARDS:
OS&Y Gate Valves
 End Flanges: CL 150, ANSI B16.5
 Face-to-Face: CL 150, ANSI B16.10
 Iron Gate Valves: (11F-DI1) API 604

PART	MATERIAL	ASTM SPEC.
Body/Bonnet	Iron	A 395
Wedge Face Ring	Iron	A 395
Seat Ring	Bronze	B 61
Stem	Manganese Bronze	B 124 Gr 377
Gasket/Packing	Reinf. Lub. Material	Commercial
Bonnet Bolting	Alloy Steel	A 193 Gr B 7

GLOBE & ANGLE VALVES



DUCTILE IRON OS&Y - CLASS 150

		2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"
A	IN	8.0	8.5	9.5	11.5	13.0	14.0	19.5	24.5	27.5	31.0
	MM	203	216	241	292	330	356	495	622	699	787
A ₁	IN	4.0	4.25	4.75	5.75	6.5	7.0	9.75	12.25	13.75	15.5
	MM	102	108	121	146	165	178	248	311	349	394
B	IN	10.19	11.06	12.16	14.53	16.66	18.38	26.13	29.81	34.13	37.75
	MM	259	281	309	369	422	466	663	746	867	959
C	IN	8.0	8.0	9.0	10.0	12.0	12.0	16.0	18.0	20.0	20.0
	MM	203	203	229	254	305	305	406	457	508	508
D	IN	6.0	7.0	7.5	9.0	10.0	11.0	13.5	16.0	19.0	21.0
	MM	152	178	191	229	254	279	343	406	482	533
E	IN	.63	.69	.75	.94	.94	1.0	1.13	1.19	1.25	1.38
	MM	16.00	17.53	19.05	23.88	23.88	25.40	28.70	30.23	31.75	35.05
GLOBE	LB	31	40	53	88	119	150	378	623	865	1157
WT.	KG	14	18	24	40	54	68	172	283	393	526
ANGLE	LB	31	40	51	84	119	150	370	598	827	986
WT.	KG	14	18	23	38	54	68	168	272	376	448

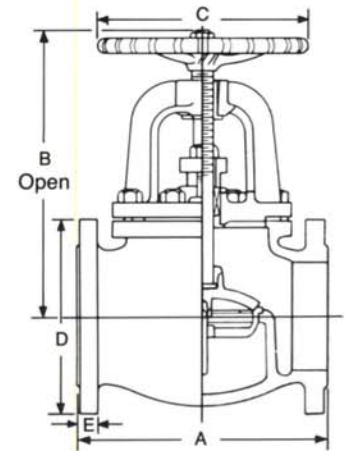


Fig. 21F-DI7 (Bronze Trim)

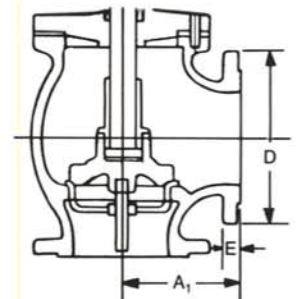


Fig. 71F-DI7 (Bronze Trim)

PART	MATERIAL	ASTM SPEC.
Body/Bonnet	Iron	A 395
Disc Face NPS 2-6 NPS 8-12	Bronze Iron Bronze Faced	B 61 A 395 - B61
Seat Ring	Bronze	B 61
Stem	Manganese Bronze	B 114 Gr 377
Bonnet Bolting	Alloy Steel	A 193 Gr B7

APPLICABLE STANDARDS:
Flanged Ends: ANSI B16.5
Face-to-Face: ANSI B16.10



SWING CHECK VALVES

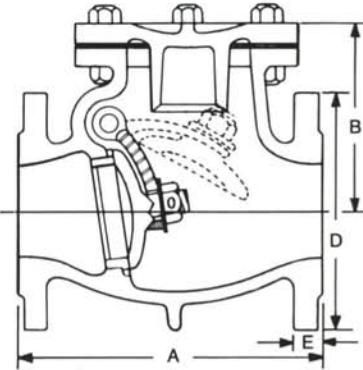


Fig. 31F-DI7 (Bronze Trim)

DUCTILE IRON - CLASS 150

	2"	2½"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"	
A	IN	8.0	8.5	9.5	11.5	13.0	14.0	19.5	24.5	27.5	31.0	30.0	33.0	36.0	45.0
	MM	203	216	241	292	330	356	495	622	698	787	762	838	914	1143
B	IN	5.0	5.63	6.0	7.12	8.38	8.88	11.5	14.13	14.63	17.25	18.88	20.5	22.68	28.75
	MM	127	143	152	181	213	226	292	359	372	438	480	521	576	730
D	IN	6.0	7.0	7.5	9.0	10.0	11.0	13.5	16.0	19.0	21.0	23.5	25.0	27.5	32.0
	MM	152	178	191	229	254	279	343	406	483	533	597	635	698	813
E	IN	.63	.69	.75	.94	.94	1.0	1.13	1.19	1.25	1.38	1.44	1.56	1.69	2.0
	MM	16.00	17.53	19.05	23.88	23.88	25.40	28.70	30.23	31.75	35.05	36.58	39.62	42.93	50.80
WT.	LB	24	42	48	88	112	143	288	473	642	891	1256	1577	1907	3960
	KG	11	19	22	40	51	65	131	215	292	405	571	717	867	1800

APPLICABLE STANDARDS:
 End Flanges: ANSI B16.5
 Face-to-Face: ANSI B16.10

PART	MATERIAL	ASTM SPEC.
Body/Cap	Iron	A395
Disc	Bronze	B61
NPS 2-5	Carbon Steel Bronze Faced	A 216 Gr WCB
NPS 6-24		
Seat Ring	Bronze	B61
Cap Bolting	Alloy Steel	A193 Gr B7
Side Plug	Bronze	B140 Alloy 320

ENGINEERING SERVICES

- Diagrams and Drawings
- Certifications
- Mill Test Reports
- Special Testing
 - a) Dye Penetrant
 - b) Radiography
 - c) Magnetic Particle
 - d) Ultrasonic

MODIFICATIONS

(Other modifications and services available.)

- Heat Treating
- Cryogenics
- Stop Check (Non-Return)
- By-Passes
- Lever & Weight
- Quick Opening

- Special Ends & Bores
- Controls
- Electric Motor Operators
- Pneumatic Actuators
- Manual Gears
- Floor Stand

- Trim Changes
 - a) 316SS
 - b) 304SS
 - c) HF
 - d) Teflon Insert
 - e) Hastelloys
 - f) A-20



PRESSURE / TEMPERATURE RATINGS - MSS-SP-70, ANSI B16.1, ANSI B16.42

**Newco Iron Body Gate, Globe, Angle and Check Valves
Maximum Allowable Non-Shock Pressure, psig**

Service Temp Deg. F	Class 125			Class 250	
	Sizes 2" to 12"	Sizes 14" to 24"	Sizes 30" to 36"	Sizes 2" to 12"	Sizes 14" to 16"
-20 to 150	200	150	150	500	300
200	190	135	115	460	280
225	180	130	100	440	270
250	175	125	85	415	260
275	170	120	65	395	250
300	165	110	50	375	240
325	155	105		355	230
350	150	100		335	220
375	145			315	210
400	140			290	200
425	130			270	
450	125			250	
Hydrostatic Test Pressure					
Shell	350	265	265	875	525
Seat	220	165	165	550	330

Service Temp. Deg. F	Class 150	Class 300
-20 to 100	275	720
150	255	710
200	240	700
250	225	690
300	210	680
350	195	675
400	180	665
450*	165	650
500	150	625
550	140	590
600	130	555
650	120	515

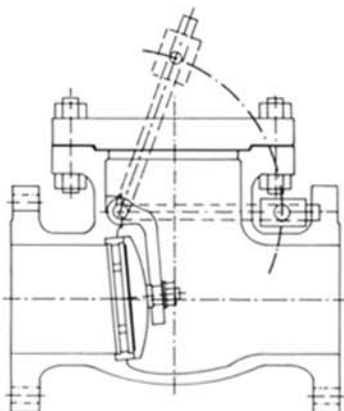
*Bronze trim valves are limited to a maximum temperature of 450°F.

BODY / BONNET / TRIM MATERIALS

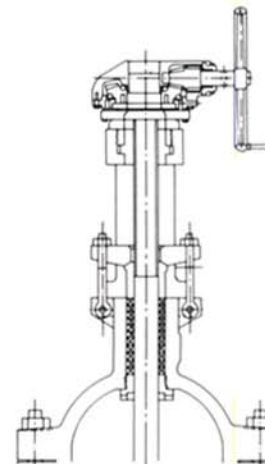
NEWCO MATERIAL DESIGNATION	COMMON DESIGNATION	ASTM SPECIFICATION	STANDARD NEWCO TRIM	OPTIONAL AVAILABLE TRIM
IB	Iron	A126 CL B	Bronze, Iron	316SS NI CU
DI	Iron	A395	Iron	CR13, 316SS NI CU

MODIFICATIONS

**Swing Check With
Lever and Weight**



**Bevel Gear
Operator**



Newco

IRON VALVES

All specifications and materials are subject to change without notice.

Newco Valves



Newmans

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