

ISO 9002

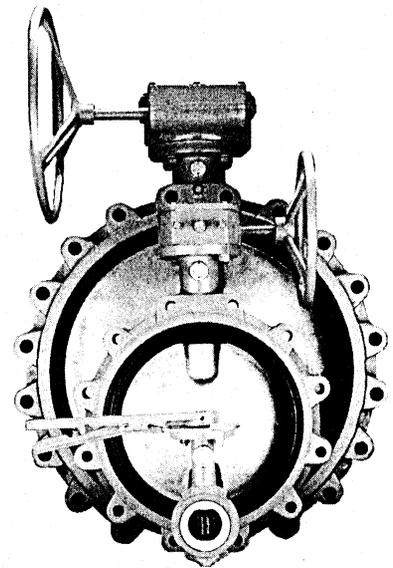


SERIES 8000 & SERIES 9000 BUTTERFLY VALVES

INDUSTRIAL PRICE SHEET IBFV-7.96

EFFECTIVE: July 1, 1996
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SUBJECT TO CHANGE WITHOUT NOTICE



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ORDER BY FIGURE NUMBER

SIZE 2-36"

8" W C — 8 2 7 2 — 3 — S

BODY STYLE	BODY MATERIAL	SERIES	SEAT MATERIAL	DISC MATERIAL	OPERATOR	STEM	Special Configuration
W-Wafer L-Lug	B-Bronze C-Cast Iron D-Ductile Iron E-Epoxy Coated C.I. N-Electroless Ni Plated Iron S-316 St. Steel X-Special ■	8-8000	0-Teflon** 1-Buna-N 2-EPDM 3-Food-Grade Buna-N 4-White Neoprene 5-Viton* 6-Black Neoprene 7-Hypalon 8-Natural Rubber 9-Food Grade EPDM X-Special ■	0-Nickel-plated ductile iron 2-Monel 3-PVDF (Kynar) coated*** 4-Rubber coated 5-PVDF coated S.S. 7-316 S.S. 8-Bronze (Al-Brz) X-Special ■	0-None 1-10 Pos. L/Lock 2-Gear Operator 3-Double Acting Pneumatic 4-Electric 5-Spring Return Pneumatic 6-Square Nut (w/Gear Operator) 7-Chain Wheel (w/Gear Operator) 9-Infinite Lever w/Memory A-10 Pos. Push Lock B-2 Pos. Push Lock C-2 Pos. L/Lock D-Ni Plated L/Lock F-Bronze L/Lock G-Epoxy coated gear op. X-Special ■	3-416 S.S. w/bronze bushings 4-316 S.S. w/bronze bushings 5-316 S.S. w/bronze bushing & shaft vent hole 6-416 S.S. w/TFE bushing 7-316 S.S. w/TFE bronze bushings 8-Monel w/brz. bushings 9-Monel/TFE bushings X-Special ■	(leave blank if none) S-Sanitary R-50 PSI FP-UL/ULC Listed, FM Approved

■ Details Required.
 * Viton, an E.I. DuPont Trademark or 3 M's Fluorel will be supplied.
 ** Teflon, an E.I. DuPont Trademark or equivalent will be supplied.
 *** Kynar, a Pennwalt Corp. Trademark or equivalent will be supplied.
 NOTE: Operator designations 3, 4 & 5 must have actuator name, number and details.

VALVE PRICES

WAFER TYPE BODY, CAST IRON

NI-PLATED DUCTILE IRON DISC, EPDM LINER, 416 STAINLESS STEEL STEM W/BUSHINGS

Fig. No.	Operator	2	2½	3	4	5	6	8	10	12	14	16	18	20	24	30	36
WC-8200-3	None	\$102	\$104	\$114	\$139	\$188	\$237	\$319	\$427	\$641	\$897	\$1306	\$1687	\$2013	\$3465	POA	POA
WC-8201-3	10 Position Handle	\$117	\$119	\$129	\$154	\$203	\$252	\$341	\$449	\$663	← N/A →						
WC-8202-3	Gear Operator	\$243	\$245	\$255	\$280	\$329	\$378	\$476	\$584	\$820	\$1238	\$1647	\$2028	\$2354	\$3991	POA	POA

BRONZE DISC, EPDM LINER, 416 STAINLESS STEEL STEM W/BUSHINGS

Fig. No.	Operator	2	2½	3	4	5	6	8	10	12	14	16	18	20	24	30	36
WC-8280-3	None	\$102	\$104	\$114	\$139	\$195	\$244	\$335	\$454	\$688	\$1258	\$1711	\$2466	\$2906	\$4563	POA	POA
WC-8281-3	10 Position Handle	\$117	\$119	\$129	\$154	\$210	\$259	\$357	\$476	\$710	← N/A →						
WC-8282-3	Gear Operator	\$243	\$245	\$255	\$280	\$336	\$385	\$492	\$611	\$867	\$1599	\$2052	\$2807	\$3247	\$5089	POA	POA

316 STAINLESS STEEL DISC, EPDM LINER, 416 STAINLESS STEEL STEM W/BUSHINGS

Fig. No.	Operator	2	2½	3	4	5	6	8	10	12	14	16	18	20	24	30	36
WC-8270-3	None	\$142	\$164	\$175	\$221	\$321	\$371	\$533	\$788	\$1078	\$1649	\$2317	\$2845	\$4071	\$6760	POA	POA
WC-8271-3	10 Position Handle	\$157	\$179	\$190	\$236	\$336	\$386	\$555	\$810	\$1100	← N/A →						
WC-8272-3	Gear Operator	\$298	\$305	\$316	\$362	\$462	\$512	\$690	\$945	\$1257	\$1990	\$2658	\$3186	\$4412	\$7286	POA	POA

NOTE: (1) BUNA-N LINER SAME PRICE AS EPDM (2) ALL VALVES HAVE STEM BUSHINGS AS STANDARD; 2"-12" HAVE BRONZE BUSHINGS/ 14"-36" HAVE TEFLON STEM BUSHINGS (3) TEFLON LINED VALVES 6" AND ABOVE REQUIRE GEAR OPERATORS

LUG TYPE BODY, CAST IRON

NI-PLATED DUCTILE IRON DISC, EPDM LINER, 416 STAINLESS STEEL STEM W/BUSHINGS

Fig. No.	Operator	2	2½	3	4	5	6	8	10	12	14	16	18	20	24	30	36
LC-8200-3	None	\$115	\$120	\$135	\$166	\$231	\$268	\$362	\$492	\$761	\$1086	\$1491	\$1863	\$2446	\$3907	POA	POA
LC-8201-3	10 Position Handle	\$130	\$135	\$150	\$181	\$246	\$283	\$384	\$514	\$783	← N/A →						
LC-8202-3	Gear Operator	\$256	\$261	\$276	\$307	\$372	\$409	\$519	\$649	\$940	\$1427	\$1832	\$2204	\$2787	\$4433	POA	POA

BRONZE DISC, EPDM LINER, 416 STAINLESS STEEL STEM W/BUSHINGS

Fig. No.	Operator	2	2½	3	4	5	6	8	10	12	14	16	18	20	24	30	36
LC-8280-3	None	\$115	\$120	\$135	\$166	\$237	\$276	\$378	\$518	\$808	\$1447	\$1895	\$2642	\$3340	\$5005	POA	POA
LC-8281-3	10 Position Handle	\$130	\$135	\$150	\$181	\$252	\$291	\$400	\$540	\$830	← N/A →						
LC-8282-3	Gear Operator	\$256	\$261	\$276	\$307	\$378	\$432	\$557	\$697	\$987	\$1788	\$2236	\$2983	\$3681	\$5531	POA	POA

316 STAINLESS STEEL DISC, EPDM LINER, 416 STAINLESS STEEL STEM W/BUSHINGS

Fig. No.	Operator	2	2½	3	4	5	6	8	10	12	14	16	18	20	24	30	36
LC-8270-3	None	\$155	\$180	\$196	\$248	\$363	\$402	\$576	\$853	\$1198	\$1839	\$2501	\$3021	\$4504	\$7202	POA	POA
LC-8271-3	10 Position Handle	\$170	\$195	\$211	\$263	\$378	\$417	\$598	\$875	\$1220	← N/A →						
LC-8272-3	Gear Operator	\$296	\$321	\$337	\$389	\$504	\$543	\$733	\$1010	\$1377	\$2180	\$2842	\$3362	\$4845	\$7728	POA	POA

OPERATORS

ADD TO NO OPERATOR VALVE PRICE

MANUAL OPERATORS

Fig. No.	Operator	2	2½	3	4	5	6	8	10	12	14	16	18	20	24	30	36
XX-XXX6-X	Square Nut w/ Gear Operator	\$171	\$171	\$171	\$171	\$171	\$171	\$185	\$185	\$185	\$401	\$401	\$401	\$401	\$586	POA	POA
XX-XXX7-X	Chainwheel w/ Gear Operator	\$228	\$228	\$228	\$228	\$228	\$228	\$286	\$286	\$348	\$523	\$523	\$523	\$523	\$1043	POA	POA
XX-XXX9-X	Infinite Leverlock w/Memory Stop	\$21	\$21	\$21	\$21	\$21	\$21	\$48	\$48	\$48	← N/A →						
XX-XXXA-X	10 Position Pushlock	\$38	\$38	\$38	\$38	\$38	\$38	\$49	\$49	\$49	← N/A →						
XX-XXXB-X	2 Position Pushlock	\$38	\$38	\$38	\$38	\$38	\$38	\$49	\$49	\$49	← N/A →						
XX-XXXC-X	2 Position L.Lock	\$15	\$15	\$15	\$15	\$15	\$15	\$22	\$22	\$22	← N/A →						
XX-XXXD-X	Nickel Plated L. Lock	\$48	\$48	\$48	\$48	\$48	\$48	\$58	\$58	\$58	← N/A →						
XX-XXXE-X	Bronze L. Lock	\$52	\$52	\$52	\$52	\$52	\$52	\$74	\$74	\$74	← N/A →						
XX-XXXG-X	Epoxy Coated Gear Operator	← STANDARD →						\$196	\$196	\$219	\$400	\$400	\$400	\$400	\$627	POA	POA
—	Chain per Foot	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6	\$6
STEM EXTENSION		\$350. + \$4.00 Per inch over 36" thru 10' over 10' POA						\$450. + \$5.00 per inch Over 36" thru 10' over 10' P.O.A			← POA →						

AUTOMATIC OPERATORS:

— All electric, hydraulic and pneumatic actuators are available through Grinnell's Valve Automation Centers. Contact your local Grinnell branch for pricing.

VALVE OPTIONS — ADD TO C.I. BODY, NICKEL PLATED D.I. DISC VALVE PRICE

BODY

Fig. No.	Operator	2	2½	3	4	5	6	8	10	12	14	16	18	20	24	30	36
LD-XXXX-X	Lug Type Ductile Iron	\$14	\$15	\$18	\$19	\$20	\$35	\$43	\$49	\$59	\$328	\$345	\$360	\$980	\$1103	POA	POA
WD-XXXX-X	Wafer Type Ductile Iron	\$14	\$15	\$18	\$19	\$20	\$25	\$29	\$34	\$34	\$294	\$309	\$328	\$409	\$817	POA	POA
WB-XXXX-X	Wafer Type Bronze	\$160	\$175	\$180	\$213	\$249	\$288	\$399	\$536	\$647	← N/A →						
LB-XXXX-X	Lug Type Bronze	\$179	\$194	\$203	\$242	\$300	\$329	\$463	\$611	\$788	← N/A →						
XE-XXXX-X	Epoxy Coated	← STANDARD →									\$123	\$158	\$183	\$214	\$339	POA	POA
XN-XXXX-X	Nickel Plated	\$171	\$182	\$194	\$228	\$284	\$312	\$439	\$579	\$748	← POA →						
LS-XXXX-X	Lug Type Stainless Steel	← POA →									← N/A →						
WS-XXXX-X	Wafer Type Stainless Steel	← POA →									← N/A →						

LINERS (See note 1, page 2) Buna & Food Grade EPDM same price as EPDM.

Fig. No.	Operator	2	2½	3	4	5	6	8	10	12	14	16	18	20	24	30	36
XX-X0XX-X	Teflon*	\$327	\$376	\$376	\$416	\$588	\$588	\$779	\$968	\$1402	← N/A →						
XX-X1XX-X	Buna-N	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
XX-X3XX-X	Food Grade Buna-N	\$35	\$36	\$37	\$38	\$59	\$60	\$71	\$81	\$94	\$195	\$199	\$255	\$257	\$259	POA	POA
XX-X4XX-X	White Neoprene	\$35	\$36	\$37	\$38	\$59	\$60	\$71	\$81	\$94	\$195	\$199	\$255	\$257	\$259	POA	POA
XX-X5XX-X	Viton	\$120	\$131	\$138	\$155	\$193	\$195	\$291	\$513	\$602	\$1591	\$1853	\$2380	\$3116	\$4133	POA	POA
XX-X6XX-X	Black Neoprene	\$35	\$36	\$37	\$38	\$59	\$60	\$71	\$81	\$94	\$195	\$199	\$255	\$257	\$259	POA	POA
XX-X7XX-X	Hypalon	\$35	\$36	\$37	\$38	\$59	\$60	\$71	\$81	\$94	\$195	\$199	\$255	\$257	\$259	POA	POA
XX-X8XX-X	Natural Rubber	\$35	\$36	\$37	\$38	\$59	\$60	\$71	\$81	\$94	\$195	\$199	\$255	\$257	\$259	POA	POA
XX-X9XX-X	Food Grade EPDM	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

*Can be used with St. St., PVDF coated, stainless steel and monel discs only.

DISCS

Fig. No.	Operator	2	2½	3	4	5	6	8	10	12	14	16	18	20	24	30	36
XX-XX2X-X	Monel	\$119	\$124	\$126	\$177	\$293	\$360	\$451	\$887	\$1361	← POA →						
XX-XX3X-X	PVDF Coated D.I., 25 Mil.	\$119	\$119	\$126	\$167	\$182	\$196	\$313	\$368	\$507	\$814	\$1045	\$1335	\$1683	\$2322	POA	POA
XX-XX4X-X	Rubber Coated	← N/A →		\$80	\$95	N/A	\$155	\$220	\$350	\$425	← POA →						
XX-XX5X-X	PVDF Coated St. St., 25 Mil.	\$155	\$175	\$181	\$242	\$306	\$319	\$525	\$705	\$915	← POA →						
XX-XX7X-X	316 St. St.*	\$40	\$60	\$61	\$82	\$133	\$134	\$214	\$361	\$437	\$753	\$1011	\$1158	\$2058	\$3295	POA	POA
XX-XX8X-X	Alum. Bronze*	\$0	\$0	\$0	\$0	\$7	\$8	\$16	\$26	\$47	\$361	\$404	\$779	\$894	\$1098	POA	POA

*Bronze and St. Steel Disc Valves with C.I. Bodies and EPDM/BUNA Liners are priced on page 2 & 3.

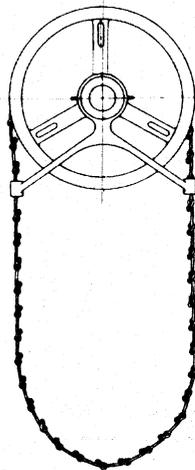
VALVE OPTIONS — ADD TO C.I. BODY, NICKEL PLATED D.I. DISC VALVE PRICE

STEMS & STEM BUSHINGS (see note 2, page 2)

Fig. No.	Operator	2	2½	3	4	5	6	8	10	12	14	16	18	20	24	30	36
XX-XXXX-3	416 S.S. Stem w/ Bronze Bushings	Standard										N/A				POA	POA
XX-XXXX-4	316 S.S. Stem w/ Bronze Bushings	\$10	\$12	\$14	\$15	\$18	\$19	\$22	\$38	\$44	N/A				POA	POA	
XX-XXXX-6	416 S.S. Stem w/ TFE Bushings	\$23	\$23	\$23	\$23	\$28	\$35	\$35	\$36	\$39	Standard				POA	POA	
XX-XXXX-7	316 S.S. Stem w/ TFE Bushings	\$34	\$35	\$37	\$38	\$44	\$53	\$58	\$73	\$84	\$131	\$154	\$199	\$462	\$660	POA	POA
XX-XXXX-8	MONEL Stem w/ Bronze Bushings	\$65	\$65	\$65	\$80	\$91	\$91	\$102	\$104	\$140	POA						
XX-XXXX-9	MONEL Stem w/ TFE Bushings	\$75	\$76	\$79	\$94	\$108	\$109	\$125	\$141	\$184	\$440	\$546	\$711	\$815	\$1256	POA	POA

Other Valve Accessories

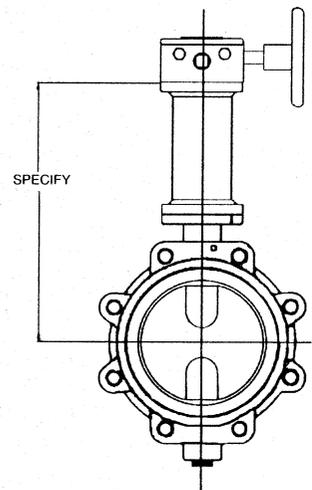
XX-XXX7-X CHAINWHEEL AND GUIDE — Chainwheels are mounted to the gear operator handwheels. Sprocket rim made of high grade cast iron, guide arms made of malleable iron, and attachments made of carbon steel. Chain is galvanized steel.



Valve Size (inches)	Sprocket Size	A	Wt. (Lbs.)	Handwheel Size Dia.
2"-6"	1	6 3/4"	4	5"
8"-10"	2	10 1/2"	9	9"
12"	2 1/2	12 1/2"	14	12"
14"-16"	3	15 1/2"	19	15"
18"	4 1/2	18 1/2"	25	15"
20"	5	21 1/2"	37	15"
24"	5	21 1/2"	37	18"

STEM EXTENSIONS

Stem extensions are used for remote operations of the valve. Actuators, manual or power operated, can be attached to the top of the extension. It is gasketed at the valve flange and sealed with an O-ring at the top. All components are cast iron or carbon steel. Bonnet style as shown or other are available.



Specify extension length per drawing and identify valve by figure number to which the extension will be attached.

HOW TO ORDER:

Specify type valve and operator by figure number and disc system shown on Page 3. EXAMPLE: 4WC-8277-3 always specify length of chain required.

BUTTERFLY VALVE WEIGHTS (LBS.)

	Operator	2	2½	3	4	5	6	8	10	12
Wafer Body	Lever	10	11	12	16	22	24	41	63	92
	Gear	14	15	19	24	30	32	62	84	130
Lug Body	Lever	13	15	16	20	32	36	49	69	125
	Gear	17	19	20	27	40	44	79	115	163
	Operator	14	16	18	20	24	30	36		
Wafer Body	No. Oper.	140	177	222	347	465	820	1540		
	Gear	164	201	246	371	535	890	1610		
Lug Body	No. Oper.	156	226	266	412	495	940	1830		
	Gear	180	250	290	436	565	1010	1900		