

PRICE LIST

HARCO DEEP BELL DUCTILE IRON FITTINGS

1½" - 12" FITTINGS AND JOINT RESTRAINTS FOR IPS PVC PIPE
14" - 18" FITTINGS AND JOINT RESTRAINTS FOR DIPS PVC PIPE
2" - 4" LATERAL ISOLATION VALVES

IRRIGATION PRICE LIST ID0212

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FREIGHT TERMS - F.O.B. Lynchburg, Virginia

ALL FITTINGS MEET OR EXCEED:

Materials ASTM A-536
Joints AWWA C-111
Gaskets ASTM F-477
Coating AWWA C-153



ENGINEERED FOR DURABILITY

Applicable U.S. Patents: #5,183,298; #5,464,247; #7,055,865; #7,255,124; #7,552,949

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IRRIGATION PRICE LIST HARCO DUCTILE IRON PRODUCTS

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NOTES

1. All 14", 16", and 18" bells are for Ductile Iron Pipe Size (DIPS) PVC Pipe made to AWWA C905 and ductile iron pipe.
2. GASKETS — Included in prices unless otherwise noted.
3. CONNECTION LINKS — Are included in the price and shipped automatically with each SEB reducer, solid and tapped plug, and spigot x flange adapter.
4. CEMENT LINING — Per AWWA C153. Available upon request. Add 5% to list prices, please specify on purchase order and allow up to two weeks for shipment. Cement lined fittings are non-cancellable, non-returnable, and non-refundable.
5. FUSION BOND EPOXY EXTERIOR COATING — Per AWWA C116. Available upon request. Add 15% to list prices, please specify on purchase order and allow up to three weeks for shipment. Non-cancellable. Returnable value subject to restock and coating charge.
6. FUSION BOND EPOXY INTERIOR COATING — Per AWWA C116. Available upon request. Add 15% to list prices, please specify on purchase order and allow up to three weeks for shipment. Non-cancellable. Returnable value subject to restock and coating charge.
7. OTHER COATINGS available upon request, COAL TAR EPOXY, PROTECTO 401, and others. Call for pricing and lead times. Non-cancellable. Returnable value subject to restock and coating charge.
8. ADDITIONAL ITEMS — Many additional configurations are possible by assembling standard fittings. Please inquire if fittings required are not in this list.
9. SUITABILITY — The presence of corrosive soils or carried water may require the use of protective measures such as polyethylene encasement and/or coatings.

HARCO DEEP BELL DUCTILE IRON FITTINGS

Discount Category A

REPAIR COUPLING

(Knock-On)



SIZE	PART NUMBER	WT	LIST PRICE
1½	80040	6	\$39.00
2	80140	6	\$40.00
2½	80240	7	\$41.00
3	80340	10	\$68.00
4	80440	12	\$82.00
5	80540	17	\$122.00
6	80640	23	\$126.00
8	80840	33	\$144.00
10	81040	57	\$240.00
12	81240	71	\$361.00
14	81440MJ	193	\$833.00
16	81640MJ	232	\$971.00
18	81840MJ	270	\$2,014.00

MJ suffix in part number indicates Mechanical Joint, price includes accessories

90° BEND

(1/4 Bend)



SIZE	PART NUMBER	WT	LIST PRICE
1½	80020	4	\$32.00
2	80120	7	\$58.00
2½	80220	7	\$63.00
3	80320	10	\$84.00
4	80420	15	\$98.00
6	80620	27	\$195.00
8	80820	42	\$251.00
10	81020	77	\$479.00
12	81220	102	\$501.00
14	81420	230	\$1,123.00
16	81620	309	\$2,001.00
18 **	81820	482	\$3,273.00

45° BEND

(1/8 Bend)



SIZE	PART NUMBER	WT	LIST PRICE
1½ *	80022	7	\$60.00
2	80122	5	\$57.00
2½	80222	6	\$58.00
3	80322	9	\$73.00
4	80422	13	\$90.00
6	80622	23	\$147.00
8	80822	37	\$230.00
10	81022	56	\$344.00
12	81222	75	\$494.00
14	81422	180	\$750.00
16	81622	266	\$914.00
18 **	81822	209	\$2,599.00

* Assembled from subcomponents.

22½° BEND

(1/16 Bend)



SIZE	PART NUMBER	WT	LIST PRICE
2½	80224	7	\$60.00
3	80324	8	\$74.00
4	80424	12	\$90.00
6	80624	21	\$124.00
8	80824	32	\$222.00
10	81024	51	\$416.00
12	81224	77	\$422.00
14	81424	180	\$893.00
16	81624	269	\$1,307.00
18 **	81824	290	\$2,451.00

11¼° BEND

(1/32 Bend)



SIZE	PART NUMBER	WT	LIST PRICE
4	80426	10	\$107.00
6	80626	21	\$162.00
8	80826	35	\$222.00
10	81026	56	\$447.00
12	81226	77	\$571.00
14	81426	180	\$893.00
16	81626	271	\$1,168.00
18 **	81826	290	\$2,599.00

The HARCO Ductile Iron Fitting product line of easily connected modular components is covered by US Patent #5,183,298.

Products in this price list are mostly import. Call for domestic products, which are available for a limited set of configurations.

1½" - 12": Bells and spigots are IPS size

14" - 18": Bells and spigots are Ductile Iron Pipe Size (DIPS) for AWWA C905 PVC Pipe or Ductile Iron Pipe

** 18" Push-On bells are not joint restrainable. Concrete thrust block only. If joint restraint is required, ask for MJ fitting.

Call for other MJ sizes and configurations.

HARCO DEEP BELL DUCTILE IRON FITTINGS

Discount Category A

ONE-PIECE TEE



SIZE	PART NUMBER	WT	LIST PRICE
1½	800000	6	\$45.00
2	8010101	8	\$60.00
2 x 2 x 2½	8010102	9	\$169.00
2 x 2 x 3	8010103	10	\$179.00
2½ x 2½ x 2	8020201	9	\$95.00
2½	8020202	10	\$66.00
2½ x 2½ x 3	8020203	12	\$139.00
2½ x 2½ x 4	8020204	40	\$269.00
3 x 2 x 2	8030101	13	\$195.00
3 x 2½ x 2½	8030202	11	\$204.00
3 x 3 x 2	8030301	12	\$142.00
3 x 3 x 2½	8030302	12	\$147.00
3	8030303	14	\$118.00
4 x 4 x 2	8040401	16	\$144.00
4 x 4 x 2½	8040402	17	\$147.00
4 x 4 x 3	8040403	18	\$151.00
4	8040404	21	\$153.00
6 x 6 x 2	8060601	25	\$189.00
6 x 6 x 2½	8060602	26	\$194.00
6 x 6 x 3	8060603	28	\$194.00
6 x 6 x 4	8060604	31	\$232.00
6	8060606	37	\$247.00
8 x 8 x 3	8080803	39	\$247.00
8 x 8 x 4	8080804	44	\$352.00
8 x 8 x 6	8080806	51	\$355.00
8	8080808	61	\$358.00
10 x 10 x 4	8101004	70	\$628.00
10 x 10 x 6	8101006	79	\$521.00
10 x 10 x 8	8101008	89	\$537.00
10	8101010	109	\$552.00
12 x 12 x 6	8121206	100	\$515.00
12 x 12 x 8	8121208	112	\$593.00
12	8121212	147	\$900.00
14	8141414	286	\$1,317.00
16	8161616	335	\$1,622.00
18 x 18 x 16 **	8181816	362	\$3,950.00
18	8181818MJ	435	\$4,155.00

One Piece Tees are one piece castings. At times, some of these may be supplied as Assembled Tees due to inventory status.

** 18 x 16 One Piece Tee is not joint restrainable. Concrete thrust block only. If joint restraint required, ask for MJ fitting.

L.E.B. REDUCER

Large End Bell (Bell x Spigot)



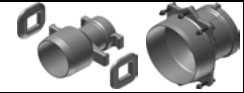
SIZE	PART NUMBER	WT	LIST PRICE
4 x 3	80431	10	\$66.00

Links sold separately.

S.E.B. REDUCER

Small End Bell (Spigot x Bell)

U.S. Patent #5,183,298



SIZE	PART NUMBER	WT	LIST PRICE
2 x 1½	80130	9	\$85.00
2½ x 1½	80232	11	\$86.00
2½ x 2	80230	6	\$53.00
3 x 2	80332	7	\$53.00
3 x 2½	80330	8	\$60.00
4 x 2	80434	9	\$64.00
4 x 2½	80432	9	\$64.00
4 x 3	80430	10	\$66.00
6 x 2	80638	19	\$116.00
6 x 2½	80636	20	\$118.00
6 x 3	80634	14	\$102.00
6 x 4	80632	16	\$113.00
6 x 5	80628	16	\$104.00
8 x 2½	80838	26	\$139.00
8 x 3	80836	27	\$139.00
8 x 4	80834	21	\$134.00
8 x 6	80832	25	\$134.00
10 x 3	81036	31	\$148.00
10 x 4	81034	57	\$235.00
10 x 6	81032	42	\$235.00
10 x 8	81030	43	\$235.00
12 x 4	81236	67	\$344.00
12 x 6	81234	52	\$232.00
12 x 8	81232	55	\$232.00
12 x 10	81230	69	\$283.00
14 x 2½	81437	135	\$713.00
14 x 3	81436	137	\$725.00
14 x 4	81435	163	\$739.00
14 x 6	81434	148	\$801.00
14 x 8	81433	151	\$801.00
14 x 10	81432	159	\$547.00
14 x 12	81430	98	\$401.00
16 x 3	81637	166	\$954.00
16 x 4	81636	195	\$967.00
16 x 6	81635	179	\$1,009.00
16 x 8	81634	183	\$1,022.00
16 x 10	81633	192	\$1,044.00
16 x 12	81632	130	\$753.00
16 x 14	81630	126	\$637.00
18 x 12 *	81834MJ	150	\$1,721.00
18 x 14 *	81832MJ	175	\$1,738.00
18 x 16 *	81830MJ	170	\$1,895.00


Two (2) links and two (2) wedges for each spigot side only of S.E.B. Reducer are included in price and shipped automatically. In case of 14" and 16", six (6) restraint rods supplied. Some S.E.B.s assembled from Tapped Plug and Male Adapter.

* 18" S.E.B.s do not "lock" into bells for 18" tees or bends. 18" Reducers must be independently thrust blocked with concrete.


Call for other MJ sizes and configurations.

HARCO DEEP BELL DUCTILE IRON FITTINGS

Discount Category A

ASSEMBLED TEE 			
SIZE	PART NUMBER	WT	LIST PRICE
2 x 1½ x 1½	8010000	20	\$197.00
2 x 1½ x 2	8010001	14	\$147.00
2 x 2 x 1½	8010100	12	\$99.00
2 x 2 x 4	8010104	37	\$269.00
2 x 2 x 6	8010106	78	\$505.00
2½ x 1½ x 1½	8020000	21	\$201.00
2½ x 1½ x 2	8020001	16	\$205.00
2½ x 1½ x 2½	8020002	19	\$206.00
2½ x 2 x 1½	8020100	16	\$157.00
2½ x 2 x 2	8020101	17	\$152.00
2½ x 2 x 2½	8020102	17	\$116.00
2½ x 2 x 3	8020103	19	\$189.00
2½ x 2½ x 1½	8020200	11	\$99.00
2½ x 2½ x 6	8020206	80	\$452.00
3 x 2 x 2½	8030102	19	\$197.00
3 x 2 x 3	8030103	21	\$168.00
3 x 2 x 4	8030104	41	\$273.00
3 x 2½ x 1½	8030200	21	\$214.00
3 x 2½ x 2	8030201	21	\$203.00
3 x 2½ x 3	8030203	21	\$178.00
3 x 2½ x 4	8030204	41	\$273.00
3 x 3 x 1½	8030300	14	\$146.00
3 x 3 x 4	8030304	42	\$273.00
3 x 3 x 6	8030306	66	\$479.00
4 x 2 x 2	8040101	25	\$221.00
4 x 2 x 2½	8040102	26	\$222.00
4 x 2 x 3	8040103	27	\$225.00
4 x 2 x 4	8040104	31	\$209.00
4 x 2 x 6	8040106	72	\$471.00
4 x 2½ x 2	8040201	25	\$238.00
4 x 2½ x 2½	8040202	26	\$206.00
4 x 2½ x 3	8040203	27	\$206.00
4 x 2½ x 4	8040204	31	\$206.00
4 x 2½ x 6	8040206	74	\$469.00
4 x 3 x 2	8040301	26	\$209.00
4 x 3 x 2½	8040302	27	\$209.00
4 x 3 x 3	8040303	26	\$209.00
4 x 3 x 4	8040304	32	\$209.00
4 x 3 x 6	8040306	64	\$469.00
4 x 4 x 1½	8040400	16	\$160.00
4 x 4 x 6	8040406	70	\$460.00
4 x 4 x 8	8040408	86	\$608.00
6 x 2 x 4	8060104	52	\$361.00
6 x 2 x 6	8060106	58	\$361.00
6 x 2 x 8	8060108	111	\$600.00
6 x 2½ x 3	8060203	49	\$308.00
6 x 2½ x 4	8060204	53	\$346.00
6 x 2½ x 6	8060206	59	\$361.00
6 x 2½ x 8	8060208	116	\$608.00
6 x 3 x 2	8060301	41	\$292.00

Assembled Tees assembled using One Piece Tees and S.E.B. reducers. Call for other configurations.

ASSEMBLED TEE 			
(Continued)			
SIZE	PART NUMBER	WT	LIST PRICE
6 x 3 x 2½	8060302	42	\$309.00
6 x 3 x 3	8060303	44	\$309.00
6 x 3 x 4	8060304	47	\$346.00
6 x 3 x 6	8060306	53	\$362.00
6 x 3 x 8	8060308	88	\$623.00
6 x 4 x 2	8060401	43	\$301.00
6 x 4 x 2½	8060402	43	\$301.00
6 x 4 x 3	8060403	45	\$301.00
6 x 4 x 4	8060404	48	\$344.00
6 x 4 x 6	8060406	54	\$355.00
6 x 4 x 8	8060408	88	\$615.00
6 x 6 x 1½	8060600	18	\$196.00
6 x 6 x 8	8060608	88	\$615.00
6 x 6 x 10	8060610	164	\$1,057.00
8 x 2½ x 6	8080206	78	\$491.00
8 x 2½ x 8	8080208	86	\$491.00
8 x 3 x 6	8080306	79	\$492.00
8 x 3 x 8	8080308	87	\$492.00
8 x 4 x 4	8080404	67	\$486.00
8 x 4 x 6	8080406	74	\$486.00
8 x 4 x 8	8080408	82	\$486.00
8 x 4 x 10	8080410	217	\$1,220.00
8 x 6 x 2	8080601	60	\$412.00
8 x 6 x 2½	8080602	61	\$414.00
8 x 6 x 3	8080603	64	\$379.00
8 x 6 x 4	8080604	69	\$486.00
8 x 6 x 6	8080606	76	\$486.00
8 x 6 x 8	8080608	84	\$486.00
8 x 6 x 10	8080610	203	\$1,057.00
8 x 6 x 12	8080612	264	\$1,363.00
8 x 8 x 2	8080801	36	\$261.00
8 x 8 x 2½	8080802	36	\$265.00
8 x 8 x 10	8080810	205	\$1,057.00
8 x 8 x 12	8080812	265	\$1,363.00
10 x 3 x 8	8100308	127	\$684.00
10 x 3 x 10	8100310	146	\$701.00
10 x 3 x 12	8100312	258	\$1,520.00
10 x 4 x 6	8100406	143	\$942.00
10 x 4 x 8	8100408	153	\$959.00
10 x 4 x 10	8100410	172	\$972.00
10 x 4 x 12	8100412	285	\$1,520.00
10 x 6 x 4	8100604	119	\$883.00
10 x 6 x 6	8100606	127	\$774.00
10 x 6 x 8	8100608	137	\$791.00
10 x 6 x 10	8100610	156	\$800.00
10 x 6 x 12	8100612	260	\$1,406.00
10 x 8 x 3	8100803	120	\$694.00
10 x 8 x 4	8100804	120	\$883.00
10 x 8 x 6	8100806	127	\$785.00
10 x 8 x 8	8100808	138	\$792.00
10 x 8 x 10	8100810	157	\$800.00

HARCO DEEP BELL DUCTILE IRON FITTINGS

Discount Category A

ASSEMBLED TEE

(Continued)



SIZE	PART NUMBER	WT	LIST PRICE
10 x 8 x 12	8100812	274	\$1,406.00
10 x 10 x 2	8101001	70	\$447.00
10 x 10 x 2½	8101002	79	\$447.00
10 x 10 x 3	8101003	80	\$447.00
10 x 10 x 12	8101012	286	\$1,455.00
12 x 4 x 8	8120408	183	\$1,520.00
12 x 4 x 10	8120410	288	\$1,520.00
12 x 4 x 12	8120412	220	\$1,234.00
12 x 6 x 6	8120606	157	\$737.00
12 x 6 x 8	8120608	170	\$822.00
12 x 6 x 10	8120610	213	\$1,413.00
12 x 6 x 12	8120612	204	\$1,129.00
12 x 8 x 3	8120803	193	\$582.00
12 x 8 x 4	8120804	185	\$737.00
12 x 8 x 6	8120806	162	\$737.00
12 x 8 x 8	8120808	173	\$822.00
12 x 8 x 10	8120810	276	\$1,413.00
12 x 8 x 12	8120812	268	\$1,129.00
12 x 10 x 3	8121003	202	\$822.00
12 x 10 x 4	8121004	192	\$900.00
12 x 10 x 6	8121006	169	\$792.00
12 x 10 x 8	8121008	242	\$875.00
12 x 10 x 10	8121010	285	\$1,455.00
12 x 10 x 12	8121012	277	\$1,180.00
12 x 12 x 2	8121201	89	\$501.00
12 x 12 x 2½	8121202	90	\$501.00
12 x 12 x 3	8121203	133	\$503.00
12 x 12 x 4	8121204	116	\$624.00
12 x 12 x 10	8121210	214	\$1,178.00

REDUCER

(Bell x Bell)



SIZE	PART NUMBER	WT	LIST PRICE
2 x 1½	80130BB	13	\$136.00
2½ x 1½	80232BB	19	\$138.00
2½ x 2	80230BB	16	\$91.00
3 x 2	80332BB	17	\$113.00
3 x 2½	80330BB	17	\$121.00
4 x 2	80434BB	21	\$139.00
4 x 2½	80432BB	22	\$139.00
4 x 3	80430BB	23	\$142.00
6 x 2	80638BB	43	\$256.00
6 x 2½	80636BB	44	\$232.00
6 x 3	80634BB	38	\$232.00
6 x 4	80630	40	\$116.00
8 x 2½	80838BB	60	\$284.00
8 x 3	80836BB	61	\$273.00
8 x 4	80834BB	55	\$264.00
8 x 6	80830	58	\$157.00
10 x 6	81032BB	106	\$476.00
10 x 8	81030BB	107	\$476.00
12 x 6	81234BB	130	\$569.00
12 x 8	81232BB	134	\$569.00
12 x 10	81230BB	143	\$623.00
14 x 12	81430BB	250	\$884.00
16 x 12	81632BB	314	\$1,085.00
16 x 14	81630BB	343	\$1,161.00
18 x 14 *	81832BB	217	\$2,158.00
18 x 16 *	81830BB	202	\$2,297.00

* 18" BxB Reducers not joint restrainable. Concrete thrust block only. If joint restraint required, ask for MJ fitting.

CROSS

(All Gasketed Bell)



SIZE	PART NUMBER	WT	LIST PRICE
2½ x 2½ x 1½ x 1½	802150303	16	\$153.00
2½ x 2½ x 2 x 2	802150404	17	\$165.00
3 x 3 x 2 x 2	803150404	21	\$205.00
3 x 3 x 2½ x 2½	803150505	24	\$210.00
4 x 4 x 2 x 2	804150404	26	\$220.00
4 x 4 x 2½ x 2½	804150505	28	\$225.00
4 x 4 x 3 x 3	804150606	30	\$227.00
6 x 6 x 2 x 2	806150404	40	\$253.00
6 x 6 x 2½ x 2½	806150505	41	\$258.00
6 x 6 x 3 x 3	806150606	44	\$260.00
8 x 8 x 2 x 2	808150404	51	\$330.00
8 x 8 x 2½ x 2½	808150505	54	\$334.00
8 x 8 x 3 x 3	808150606	57	\$337.00

Any combination of outlets available; 1½", 2", 2½", and 3".

TAPPED CROSS

(Female NPT Outlet)



SIZE	PART NUMBER	WT	LIST PRICE
2½ x 1¼	802510252	10	\$57.00
2½ x 1½	802510303	10	\$57.00
2½ x 2	802510404	10	\$57.00
3 x 2	803510404	14	\$147.00
3 x 2½	803510505	14	\$147.00
4 x 2	804510404	18	\$160.00
4 x 2½	804510505	17	\$160.00
4 x 3	804510606	17	\$160.00
6 x 2	806510404	31	\$182.00
6 x 2½	806510505	31	\$182.00
6 x 3	806510606	30	\$182.00
8 x 2	808510404	43	\$267.00
8 x 2½	808510505	43	\$267.00
8 x 3	808510606	43	\$267.00

Any combination of outlets available; 1½", 2", 2½", and 3".

HARCO DEEP BELL DUCTILE IRON FITTINGS

Discount Category A

TAPPED TEE (Service Tee) (Female NPT Outlet)			
1½ - 8" 10 - 16"			
SIZE	PART NUMBER	WT	LIST PRICE
1½ x 1 *	800502	8	\$58.00
1½ x 1½ *	800503	8	\$58.00
2 x 1	801502	7	\$48.00
2 x 1¼	8015025	6	\$48.00
2 x 1½	801503	6	\$46.00
2 x 2 *	801504	30	\$105.00
2½ x 1	802502	7	\$48.00
2½ x 1¼	8025025	7	\$48.00
2½ x 1½	802503	7	\$46.00
2½ x 2	802504	9	\$46.00
2½ x 2½ *	802505	15	\$119.00
3 x 1	803502	10	\$95.00
3 x 1¼	8035025	11	\$95.00
3 x 1½	803503	10	\$93.00
3 x 2	803504	9	\$93.00
3 x 2½	803505	11	\$95.00
3 x 3 *	803506	20	\$130.00
4 x 1	804502	14	\$109.00
4 x 1¼	8045025	14	\$109.00
4 x 1½	804503	13	\$109.00
4 x 2	804504	13	\$105.00
4 x 2½	804505	16	\$105.00
4 x 3	804506	16	\$105.00
6 x 1	806502	16	\$138.00
6 x 1¼	8065025	16	\$138.00
6 x 1½	806503	15	\$138.00
6 x 2	806504	16	\$138.00
6 x 2½	806505	22	\$138.00
6 x 3	806506	21	\$138.00
8 x 1	808502	32	\$197.00
8 x 1¼	8085025	32	\$197.00
8 x 1½	808503	32	\$197.00
8 x 2	808504	31	\$197.00
8 x 2½	808505	31	\$197.00
8 x 3	808506	30	\$197.00
10 x 1 *	810502	66	\$372.00
10 x 1¼ *	8105025	66	\$387.00
10 x 1½ *	810503	67	\$393.00
10 x 2 *	810504	66	\$393.00
10 x 2½ *	810505	66	\$393.00
10 x 3 *	810506	66	\$393.00
10 x 4	810508	66	\$429.00
12 x 1 *	812502	84	\$429.00
12 x 1¼ *	8125025	84	\$447.00
12 x 1½ *	812503	85	\$447.00
12 x 2 *	812504	84	\$447.00
12 x 2½ *	812505	84	\$447.00
12 x 3 *	812506	84	\$447.00
12 x 4	812508	84	\$501.00
14 x 2 *	814504	158	\$807.00
14 x 2½ *	814505	158	\$807.00
14 x 3 *	814506	158	\$807.00

TAPPED TEE (Service Tee) (Continued)			
1½ - 8" 10 - 16"			
SIZE	PART NUMBER	WT	LIST PRICE
16 x 2 *	816504	194	\$1,042.00
16 x 2½ *	816505	194	\$1,042.00
16 x 3 *	816506	194	\$1,042.00

* Assembled from subcomponents.
10" through 16" Tapped Tees are assembled from Swivel Tee and Swivel x Thread Adapter.
Some items shipped using Ductile Iron Thread Bushing to accomplish smaller thread sizes.

ACME SERVICE TEE (Female ACME)				
Style A Style B				
SIZE	PART NUMBER	WT	STYLE	LIST PRICE
2 x 1	8015302	7	A	\$52.00
2 x 1¼	80153025	6	A	\$52.00
2 x 1½	8015303	6	A	\$47.00
2½ x 1	8025302	7	A	\$52.00
2½ x 1¼	80253025	7	A	\$52.00
2½ x 1½	8025303	7	A	\$47.00
3 x 1	8035302	11	B	\$98.00
3 x 1¼	80353025	11	B	\$98.00
3 x 1½	8035303	11	B	\$98.00
4 x 1	8045302	14	B	\$111.00
4 x 1¼	80453025	14	B	\$111.00
4 x 1½	8045303	13	B	\$111.00
6 x 1	8065302	20	B	\$142.00
6 x 1¼	80653025	20	B	\$142.00
6 x 1½	8065303	19	B	\$142.00
8 x 1	8085302	34	B	\$200.00
8 x 1¼	80853025	34	B	\$200.00
8 x 1½	8085303	33	B	\$200.00


SIDE OUTLET TAPPED CAP (FNPT or Female ACME)				
Style A Style B				
SIZE	PART NUMBER	WT	STYLE	LIST PRICE
2 x 1½	80168	12	B	\$78.00
2 x 1½ ACME	801683	12	B	\$78.00
2½ x 1½	80268	6	A	\$79.00
2½ x 1½ ACME	802683	6	A	\$79.00

Call for other MJ sizes and configurations.


IRRIGATION PRICE LIST

HARCO DEEP BELL DUCTILE IRON FITTINGS

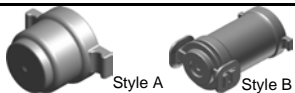
Discount Category A

PLUG (Solid x Spigot) 			
SIZE	PART NUMBER	WT	LIST PRICE
2	80155	5	\$41.00
2½	80255	6	\$43.00
3	80355	6	\$44.00
4	80455	12	\$53.00
6	80655	17	\$55.00
8	80855	20	\$78.00
10	81055	37	\$102.00
12	81255	51	\$121.00
16	81655	59	\$596.00


Two (2) links and two (2) wedges for each Plug are included in price and shipped automatically. In case of 16", six (6) restraint rods supplied.

TAPPED PLUG (Spigot x Female NPT) 			
SIZE	PART NUMBER	WT	LIST PRICE
2 x 1	8015602	5	\$55.00
2 x 1½	8015603	5	\$55.00
2½ x 1	8025602	6	\$56.00
2½ x 1½	8025603	6	\$56.00
2½ x 2	8025604	6	\$56.00
3 x 1	8035602	6	\$47.00
3 x 1½	8035603	6	\$58.00
3 x 2	8035604	6	\$58.00
3 x 2½	8035605	6	\$61.00
4 x 1½	8045603	12	\$56.00
4 x 2	8045604	12	\$66.00
4 x 2½	8045605	12	\$56.00
4 x 3	8045606	12	\$66.00
6 x 1½	8065603	16	\$58.00
6 x 2	8065604	16	\$69.00
6 x 2½	8065605	16	\$58.00
6 x 3	8065606	16	\$69.00
8 x 1½	8085603	20	\$84.00
8 x 2	8085604	20	\$91.00
8 x 2½	8085605	20	\$84.00
8 x 3	8085606	19	\$91.00
10 x 1½	8105603	37	\$101.00
10 x 2	8105604	36	\$116.00
10 x 2½	8105605	36	\$101.00
10 x 3	8105606	36	\$116.00
10 x 4	8105608	51	\$196.00
12 x 1½	8125603	51	\$120.00
12 x 2	8125604	51	\$134.00
12 x 2½	8125605	51	\$120.00
12 x 3	8125606	51	\$134.00
12 x 4	8125608	51	\$214.00

Two (2) links and two (2) wedges for each Tapped Plug are included in price and shipped automatically.

CAP 				
SIZE	PART NUMBER	WT	STYLE	LIST PRICE
1½	80066	4	A	\$78.00
2	80166	8	B	\$78.00
2½	80266	4	A	\$78.00
3	80366	17	B	\$107.00
4	80466	25	B	\$127.00
6	80666	40	B	\$170.00
8	80866	55	B	\$209.00
10	81066	97	B	\$314.00
12	81266	127	B	\$453.00
14	81466MJ	66	A	\$1,437.00
16	81666	92	A	\$1,793.00

MJ suffix in part number indicates MJ bell; price includes accessories.

TAPPED CAP (Bell x Female NPT) 			
SIZE	PART NUMBER	WT	LIST PRICE
2 x 1	8016702	5	\$78.00
2 x 1½	8016703	5	\$78.00
2½ x 1	8026702	6	\$79.00
2½ x 1½	8026703	6	\$79.00
2½ x 2	8026704	6	\$79.00
3 x 1	8036702	6	\$109.00
3 x 1½	8036703	6	\$109.00
3 x 2	8036704	6	\$109.00
3 x 2½	8036705	6	\$109.00
4 x 1½	8046703	12	\$127.00
4 x 2	8046704	12	\$127.00
4 x 2½	8046705	12	\$127.00
4 x 3	8046706	12	\$127.00
6 x 1½	8066703	16	\$170.00
6 x 2	8066704	16	\$170.00
6 x 2½	8066705	16	\$170.00
6 x 3	8066706	16	\$170.00
8 x 1½	8086703	20	\$209.00
8 x 2	8086704	20	\$209.00
8 x 2½	8086705	20	\$209.00
8 x 3	8086706	19	\$209.00
10 x 1½	8106703	37	\$314.00
10 x 2	8106704	36	\$314.00
10 x 2½	8106705	36	\$314.00
10 x 3	8106706	36	\$314.00
10 x 4	8106708	51	\$394.00
12 x 1½	8126703	51	\$455.00
12 x 2	8126704	51	\$455.00
12 x 2½	8126705	51	\$455.00
12 x 3	8126706	51	\$455.00
12 x 4	8126708	51	\$535.00

IRRIGATION PRICE LIST

HARCO DEEP BELL DUCTILE IRON FITTINGS

Discount Category A

FLANGE x BELL ADAPTER



SIZE	PART NUMBER	WT	STYLE	LIST PRICE
3 x 3	80360FB	22	B	\$152.00
3 x 4	80360-04	35	B	\$231.00
4 x 4	80460FB	29	A	\$173.00
4 x 6	80460-06	57	B	\$331.00
6 x 6	80660FB	47	A	\$267.00
6 x 8	80660-08	93	B	\$419.00
8 x 8	80860FB	67	A	\$305.00
8 x 10	80860-10	141	B	\$665.00
10 x 8	81060-08	99	B	\$798.00
10 x 10	81060FB	56	A	\$563.00
10 x 12	81060-12	216	B	\$976.00
12 x 10	81260-10	145	B	\$971.00
12 x 12	81260FB	76	A	\$689.00
14 x 14	81460	115	A	\$965.00
16 x 16	81660	118	A	\$1,034.00
18 x 18	81860MJ	240	A	\$1,750.00

MJ suffix in part number indicates MJ bell; price includes accessories.

FLANGE OUTLET TEE (Bell x Bell x Flange)



SIZE	PART NUMBER	WT	LIST PRICE
3 x 3	80300F	27	\$206.00
4 x 4	80400F	39	\$246.00
6 x 4	80601F	49	\$337.00
6 x 6	80600F	62	\$401.00
8 x 6	80801F	76	\$515.00
8 x 8	80800F	94	\$535.00
10 x 6	81002F	111	\$692.00
10 x 8	81001F	130	\$729.00
10 x 10	81000F	180	\$902.00
12 x 6	81203F	128	\$678.00
12 x 8	81202F	145	\$785.00
12 x 12	81200F	240	\$1,266.00

SPIGOT x FLANGE ADAPTER



SIZE	PART NUMBER	WT	LIST PRICE
3	80360	13	\$95.00
4	80460	17	\$113.00
6	80660	24	\$163.00
8	80860	33	\$188.00
10	81060	71	\$375.00
12	81260	94	\$395.00

Two (2) links and two (2) wedges for each Spigot x Flange Adapter are included in price and shipped automatically.

FLANGE ACCESSORIES (For Class 125 & 150)



SIZE	PART NUMBER	WT	LIST PRICE
3	856031	2	\$13.00
4	856041	4	\$19.00
6	856061	6	\$30.00
8	856081	6	\$34.00
10	856101	13	\$61.00
12	856121	14	\$69.00
14	856141	15	\$125.00
16	856161	26	\$142.00
18	856181	40	\$221.00

Each kit contains 1/8" red rubber full face gasket and zinc plated bolts and nuts. Call for other configurations.


Flange bolt pattern compatible with 125 and 150 Class flanges.


Call for other MJ sizes and configurations.

IRRIGATION PRICE LIST


HARCO DEEP BELL DUCTILE IRON FITTINGS

Discount Category A


REPLACEMENT GASKETS 			
SIZE	PART NUMBER	WT	LIST PRICE
1½	851015	0.1	\$4.00
2	85102	0.1	\$4.00
2½	851025	0.1	\$4.00
3	85103	0.1	\$5.00
4	85504	0.2	\$5.00
6	85506	0.4	\$7.00
8	85508	0.7	\$11.00
10	85510	1.3	\$26.00
12	85512	2.0	\$28.00
14	85514	2.5	\$66.00
16	85516	2.9	\$87.00
18	85518	3.2	\$107.00

LINKS 			
SIZE & TYPE	PART NUMBER	WT	LIST PRICE
1½ - 8	82000	1	\$7.00
10 - 12	82003	4	\$21.00
10 - 12 Transition *	82004	1	\$7.00
14 - 16	82007	1	\$14.00


*Links included in price of and automatically shipped with S.E.B.s, flange adapters, and plugs.
* Used to assemble old style lug to new style thicker lug.*


RETAINER CLIP 			
SIZE & TYPE	PART NUMBER	WT	LIST PRICE
Retainer Clip	82009	0.3	\$3.00


Alternative to wood wedge used when linking fittings together.

CROSSOVER RING 			
SIZE	PART NUMBER	WT	LIST PRICE
3	82103	3	\$37.00
4	82104	4	\$37.00
6	82106	8	\$48.00

*Links sold Separately
U.S. Patent #5,464,257
Designed to rotate "lug" axis 90°*

MALE ADAPTER  (Bell x Male NPT)			
SIZE	PART NUMBER	WT	LIST PRICE
1½ x 1½	80070	3	\$38.00
2 x 1½	80172	3	\$41.00
2 x 2	80170	4	\$41.00
2½ x 2	80272	3	\$47.00
2½ x 2½	80270	5	\$47.00
3 x 2½	80372	5	\$56.00
3 x 3	80370	6	\$56.00
4 x 4	80470	8	\$66.00

ACME ADAPTER  (Male NPT x Female ACME)			
SIZE	PART NUMBER	WT	LIST PRICE
2 x 1	872-204	3	\$29.00
2 x 1¼	872-205	3	\$29.00
2 x 1½	872-206	2	\$29.00

POLYETHYLENE ENCASUREMENT  (For use in corrosive soils)			
SIZE	PART NUMBER	WT	LIST PRICE
20 x 400	82320	34	\$375.00
30 x 200	82330	28	\$294.00
37 x 200	82337	35	\$348.00
2 x 100 Tape	823PT	1	\$15.00

Polyethylene encasement supplied in rolls in tubular form, 8 mils thick. 20" for fittings up to 8", 30" for fittings 10" to 14", and 37" for fittings 16" to 20". Complies with AWWA C105.

*For installation, refer to:
<http://www.dipra.com/pdf/polyEncasement.pdf>*

IRRIGATION PRICE LIST

HARCO SADDLES

Discount Category B

SADDLE (Female NPT)			
SIZE	PART NUMBER	WT	LIST PRICE
3 x 1 *	803802	5	\$51.00
3 x 1½ *	803803	5	\$51.00
3 x 2	803804	4	\$51.00
3 x 2½	803805	4	\$58.00
4 x 1 *	804802	5	\$60.00
4 x 1½ *	804803	5	\$60.00
4 x 2	804804	5	\$60.00
4 x 2½	804805	4	\$68.00
6 x 1 *	806802	6	\$64.00
6 x 1½ *	806803	6	\$64.00
6 x 2	806804	5	\$64.00
6 x 2½	806805	5	\$72.00
8 x 1 *	808802	7	\$72.00
8 x 1½ *	808803	7	\$72.00
8 x 2	808804	6	\$72.00
8 x 2½	808805	6	\$79.00
10 x 1½ *	810803	8	\$81.00
10 x 2	810804	6	\$81.00
10 x 2½	810805	6	\$89.00
12 x 1½ *	812803	8	\$90.00
12 x 2	812804	7	\$90.00
12 x 2½	812805	7	\$98.00

** Produced using 2" NPT with 2" x 1½" or 2" x 1" Ductile Iron Bushing, installed and sealed at factory. Saddles supplied with standard powder coating.
Bolt torque: 40-50 ft-lbs. See installation instructions.*



SADDLE FOR PVC & PE (Female NPT)			
SIZE	PART NUMBER	WT	LIST PRICE
2 x 1	80180H2	4	\$99.00
2½ x 1	80280H2	5	\$107.00
3 x 2	80380H4	7	\$127.00
4 x 2	80480H4	10	\$127.00
6 x 2	80680H4	10	\$137.00
8 x 2	80880H4	12	\$172.00
10 x 2	81080H4	14	\$201.00
12 x 2	81280H4	16	\$228.00
14 x 2 **	81480H4	15	\$251.00
16 x 2 **	81680H4	16	\$280.00

*** Careful not to order these for DIPS PVC & PE Pipe. See saddles below for DIPS.
SDR may not exceed SDR 35. Other outlet sizes available.
Fusion Plastic Coating available (Allow 2 weeks for shipment).
Bolt torque: 45-50 ft-lbs. See installation instructions.*



SADDLE FOR DIPS, PVC & PE (Female NPT)			
SIZE	PART NUMBER	WT	LIST PRICE
4 x 2	80490H4	10	\$127.00
6 x 2	80690H4	10	\$137.00
8 x 2	80890H4	12	\$172.00
10 x 2	81090H4	14	\$201.00
12 x 2	81290H4	16	\$228.00
14 x 2	81490H4	15	\$251.00
16 x 2	81690H4	16	\$280.00

*SDR may not exceed SDR 35. Other outlet sizes available.
Fusion Plastic Coating available (Allow 2 weeks for shipment).
Bolt torque: 45-50 ft-lbs. See installation instructions.*



NOTE: Use of Mechanical Saddle on PE pipe is a compromise. Electrofusion PE saddles should be preferred.

IRRIGATION PRICE LIST

HARCO LATERAL CONNECTION SYSTEM

Discount Category C

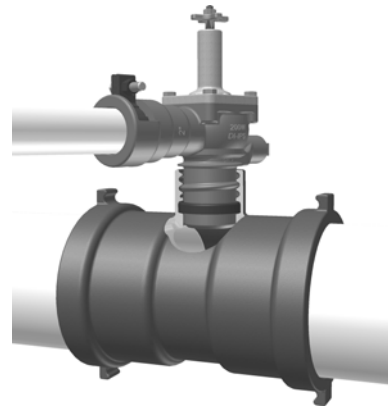
U.S. Patent #7,055,865

HARCO's standard Swivel System utilizes one unique size for the female and male swivel joint connection. All swivel male parts, regardless of functional size, fit all female swivel outlets of Swivel Tees and Swivel Saddles.

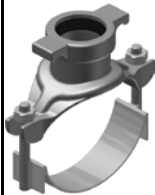
SWIVEL TEE				
SIZE	PART NUMBER	WT	LIST PRICE	
2	8015405	23	\$48.00	
2½	8025405	10	\$48.00	
3	8035405	12	\$98.00	
4	8045405	16	\$112.00	
6	8065405	26	\$146.00	
8	8085405	35	\$209.00	
10	8105405	62	\$417.00	
12	8125405	79	\$474.00	
14	8145405	153	\$852.00	
16	8165405	189	\$1,101.00	



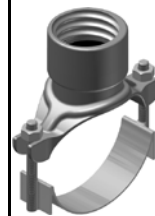
See page 23 for HARCO Swivel Valves.



SADDLE (2" Gasketed Bell Outlet)				
SIZE x OUTLET	PART NUMBER	WT	LIST PRICE	
3 *	80382	7	\$64.00	
4	80482	5	\$65.00	
6	80682	6	\$77.00	
8	80882	6	\$85.00	
10	81082	7	\$87.00	
12	81282	8	\$93.00	
14 **	81492H	18	\$349.00	
16 **	81692H	18	\$352.00	



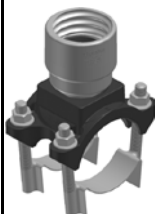
SADDLE (Female Swivel Outlet)				
SIZE	PART NUMBER	WT	LIST PRICE	
3 *	80381	7	\$64.00	
4	80481	6	\$65.00	
6	80681	7	\$77.00	
8	80881	7	\$86.00	
10	81081	8	\$103.00	
12	81281	9	\$115.00	



*Assembled from Service Saddle & Male Adapter
Bolt torque: 40-50 ft-lbs. See installation instructions.

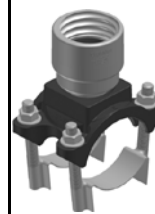
* Assembled from Service Saddle & Male Adapter
** Double strap saddles with Male Adapter factory installed, for DIPS Pipe
Bolt torque: 40-50 ft-lbs. See installation instructions.

SADDLE FOR DIPS, PVC & PE (Female Swivel Outlet)				
PIPE OD	PART NUMBER	WT	LIST PRICE	
4	80491H	14	\$190.00	
6	80691H	14	\$200.00	
8	80891H	16	\$234.00	
10	81091H	18	\$268.00	
12	81291H	20	\$295.00	
14	81491H	19	\$349.00	
16	81691H	19	\$352.00	



SDR 35 maximum.
Bolt torque: 45-50 ft-lbs. See installation instructions.

SADDLE FOR PVC & PE (Female Swivel Outlet)				
PIPE OD	PART NUMBER	WT	LIST PRICE	
3	80381H	11	\$182.00	
4	80481H	14	\$190.00	
6	80681H	14	\$200.00	
8	80881H	16	\$234.00	
10	81081H	18	\$268.00	
12	81281H	20	\$295.00	
14	81481H	19	\$349.00	
16	81681H	19	\$352.00	



SDR 35 maximum.
Bolt torque: 45-50 ft-lbs. See installation instructions.

NOTE: Use of Mechanical Saddle on PE pipe is a compromise. Electrofusion PE saddles should be preferred.


IRRIGATION PRICE LIST

HARCO LATERAL CONNECTION SYSTEM


Discount Category C

HARCO's standard Swivel System utilizes one unique size for the female and male swivel joint connection. All swivel male parts, regardless of functional size, fit all female swivel outlets of Swivel Tees and Swivel Saddles.

LATERAL 90° (Male NPT x Male Swivel)

	SIZE	WT	Standard		1" Side Outlet		1" Side Outlet Plugged	
	x RISE		PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
	1 x 6		4	80B86	\$46.00	80B862	\$49.00	80B862P
1½ x 6	4	80086	\$46.00	800862	\$49.00	800862P	\$52.00	
2 x 6	5	80186	\$48.00	801862	\$52.00	801862P	\$55.00	
2 x 12	7	8018612	\$64.00	80186122	\$68.00	80186122P	\$70.00	
2½ x 6	5	80286	\$52.00	802862	\$56.00	802862P	\$58.00	
3 x 7	6	80386	\$55.00	803862	\$58.00	803862P	\$61.00	


LATERAL 90° (Female NPT x Male Swivel)

	SIZE	WT	Standard		1" Side Outlet		1" Side Outlet Plugged	
	x RISE		PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
	1½ x 6		5	80084	\$55.00	800842	\$58.00	800842P
2 x 6	6	80184	\$56.00	801842	\$60.00	801842P	\$63.00	
2 x 12	12	8018412	\$72.00	80184122	\$76.00	80184122P	\$78.00	
2½ x 6	8	80284	\$66.00	802842	\$70.00	802842P	\$73.00	
3 x 7	9	80384	\$76.00	803842	\$79.00	803842P	\$82.00	

LATERAL 90° (Spigot x Male Swivel)

	SIZE	WT	Standard		1" Side Outlet		1" Side Outlet Plugged	
	x RISE		PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
	2 x 6		6	8018506	\$33.00	80185062	\$38.00	80185062P
2½ x 6	7	8028506	\$43.00	80285062	\$47.00	80285062P	\$49.00	
3 x 7	8	8038507	\$48.00	80385072	\$52.00	80385072P	\$55.00	

LATERAL NIPPLE (Male NPT x Male Swivel)

	SIZE	WT	Standard		1" Side Outlet		1" Side Outlet Plugged	
	x RISE		PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
	2 x 8		4	8720808	\$35.00	87208082	\$39.00	87208082P
2 x 12	6	8721208	\$38.00	87212082	\$41.00	87212082P	\$44.00	
2 x 14 *	6	8721408	\$44.00	87214082	\$48.00	87214082P	\$51.00	
2 x 18	8	8721808	\$55.00	87218082	\$58.00	87218082P	\$61.00	
2½ x 8	4	8720810	\$39.00	87208102	\$43.00	87208102P	\$46.00	
3 x 10	5	8721012	\$44.00	87210122	\$48.00	87210122P	\$51.00	

* Will not be replenished when current quantities are exhausted.

LATERAL NIPPLE (Spigot x Male Swivel)

	SIZE	WT	Standard		1" Side Outlet		1" Side Outlet Plugged	
	x RISE		PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
	2 x 10		4	8731008	\$22.00	87310082	\$26.00	87310082P
2 x 12	5	8731208	\$26.00	87312082	\$30.00	87312082P	\$32.00	
2 x 18	7	8731808	\$44.00	87318082	\$48.00	87318082P	\$51.00	

"Rise" is the rise in inches from "top of main" to "top of lateral line" with valve or fitting installed.

IRRIGATION PRICE LIST


HARCO LATERAL CONNECTION SYSTEM


Discount Category C


U.S. Patent #7,055,865

HARCO's standard Swivel System utilizes one unique size for the female and male swivel joint connection. All swivel male parts, regardless of functional size, fit all female swivel outlets of Swivel Tees and Swivel Saddles.

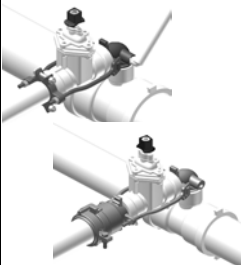
See page 23 for HARCO Swivel Valves.

	LATERAL TEE (Bell x Male Swivel)			
	SIZE x RISE	PART NUMBER	WT	LIST PRICE
	2 x 6	80191	16	\$124.00
	2½ x 6	80291	18	\$136.00
	3 x 7	80391	24	\$143.00
<i>Alternate configurations may be supplied (Swivel Tee not included.)</i>				


	LATERAL 90° (Bell x Male Swivel)			
	SIZE x RISE	PART NUMBER	WT	LIST PRICE
	2 x 6	80190	14	\$77.00
	2½ x 6	80290	16	\$87.00
	3 x 7	80390	24	\$102.00

	SWIVEL LATERAL KIT (2" Push-On Brass Gate Valve)							
	SIZE x RISE	WT	Standard		1" Side Outlet		1" Side Outlet Plugged	
			PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
	2 x 6	9	80185K	\$55.00	801852K	\$58.00	801852PK	\$61.00

(Swivel Tee, Valve, and Swing Joint not included.) Compatible valve: Nibco PR113

	SWIVEL LATERAL KIT (Push-On Iron Gate Valve)							
	SIZE x RISE	WT	Standard		1" Side Outlet		1" Side Outlet Plugged	
			PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
	2 x 6	10	8018506K	\$76.00	80185062K	\$79.00	80185062PK	\$82.00
2½ x 6	10	8028506K	\$96.00	80285062K	\$101.00	80285062PK	\$103.00	
3 x 7	19	8038507K	\$118.00	80385072K	\$121.00	80385072PK	\$124.00	
3 x 4 x 7	48	803048507K	\$209.00	8030485072K	\$213.00	8030485072PK	\$215.00	

(Swivel Tee, Valve, and Swing Joint not included.) Compatible valves: American Flow Control, AVK, Clow, Kennedy, Matco-Norca, M&H, Nibco, Waterous

	PUSH-ON LATERAL KIT (For G x G Lateral Isolation Valve)			
	SIZE	PART NUMBER	WT	LIST PRICE
	4	80482K1	7	\$98.00
	6	80682K1	8	\$99.00
	8	80882K1	8	\$102.00
10	81082K1	9	\$103.00	
12	81282K1	10	\$107.00	

(Valve not included.) Compatible valves: HARCO, see page 23.

IRRIGATION PRICE LIST

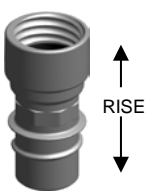
HARCO LATERAL CONNECTION SYSTEM


Discount Category C


U.S. Patent #7,055,865


HARCO's standard Swivel System utilizes one unique size for the female and male swivel joint connection. All swivel male parts, regardless of functional size, fit all female swivel outlets of Swivel Tees and Swivel Saddles.

See page 23 for HARCO Swivel Valves.


	SWIVEL EXTENSION (Male Swivel x Female Swivel)			
	RISE	PART NUMBER	WT	LIST PRICE
	6	87106	6	\$29.00
12	87112	11	\$47.00	

	ADAPTER (Female Swivel x Thread)			
	SIZE	PART NUMBER	WT	LIST PRICE
	2 MNPT	873-008	3	\$60.00


	SPIGOT x MALE NPT ADAPTER			
	SIZE	PART NUMBER	WT	LIST PRICE
	1½ x 6	8740606	3	\$33.00
2 x 4	8740408	2	\$33.00	
2 x 6	8740608	3	\$37.00	
2 x 8	8740808	5	\$41.00	
2 x 10	8741008	6	\$44.00	
2 x 12	8741208	7	\$48.00	
2½ x 6	8740610	4	\$39.00	
3 x 6	8740612	5	\$43.00	

	ADAPTER (Female NPT x Male Swivel)			
	SIZE	PART NUMBER	WT	LIST PRICE
	1½	875-025-06	6	\$52.00
2	875-025-08	5	\$52.00	
2½	875-025-10	5	\$52.00	
3	875-025-12	4	\$52.00	

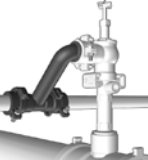
Part has groove on spigot end for restraint to HARCO Bell with Knuckle Restraint. Call for other sizes and lengths. Also available in spigot x spigot. Knuckles sold separately.

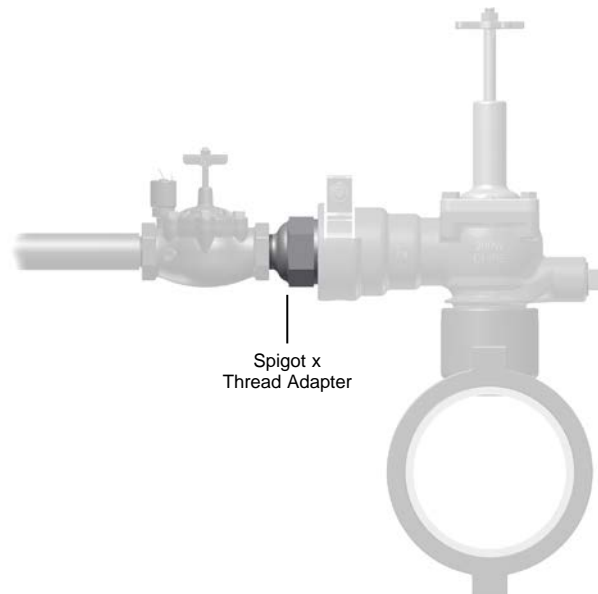
	WEDGE LINK			
	SIZE	PART NUMBER	WT	LIST PRICE
	N/A	82008	0.8	\$5.00

Wedge Link is rated for 1,000 pounds of load.

	SPIGOT x MALE NPT ADAPTER, COMPACT			
	SIZE	PART NUMBER	WT	LIST PRICE
	2 x 1	874030804	3	\$32.00
2 x 1¼	874030805	3	\$32.00	
2 x 1½	874030806	3	\$32.00	
2 x 2	874030808	3	\$32.00	
2 x 2½	874030810	3	\$35.00	

Part has groove on spigot end for restraint to HARCO bell with Knuckle Restraint. Knuckles sold separately.

	2" SWING ARM KIT			
	SIZE	PART NUMBER	WT	LIST PRICE
	2	881-0101K	14	\$62.00



IRRIGATION PRICE LIST

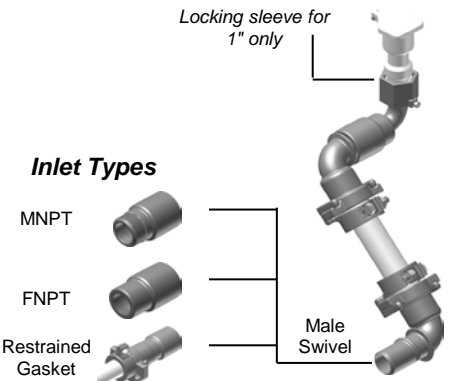
HARCO LATERAL CONNECTION SYSTEM

Discount Category C

U.S. Patent #7,055,865

HARCO's standard Swivel System utilizes one unique size for the female and male swivel joint connection. All swivel male parts, regardless of functional size, fit all female swivel outlets of Swivel Tees and Swivel Saddles.

See page 23 for HARCO Swivel Valves.



Locking sleeve for 1" only

Male Swivel

Inlet Types

MNPT


FNPT

Restrained Gasket

DUCTILE IRON SWING JOINT			
SIZE, INLET x OUTLET	PART NUMBER	WT	LIST PRICE
1 Female NPT x 3/4 Male NPT	878-10-08	19	\$130.00
1 Female NPT x 1 Male NPT	878-10-10	18	\$109.00
1 1/2 Female NPT x 1 Male NPT	878-15-10	17	\$103.00
1 1/2 Male NPT x 1 Male NPT	877-15-10	19	\$122.00
2 Male NPT x 1 Male NPT	877-20-10	17	\$103.00
1 1/2 Restrained Gasket x 1 Male NPT	879-15-10	21	\$118.00
1 1/2 Restrained Gasket x 1 1/2 Male NPT	879-15-15	21	\$144.00
1 1/2 Male Swivel x 1 Male NPT	881-15-10	14	\$104.00
1 1/2 Male Swivel x 1 1/2 Male NPT	881-15-15	15	\$130.00


Quick Coupler Valve and pipe not included. Quick Coupler Anchor purchased separately may be used instead of locking sleeve. Call for other inlets and outlets. Knuckle bolt torque: 35 ft-lbs.

HARCO SPECIAL 1 1/2" LATERAL CONNECTION SYSTEM



SWIVEL TEE (W/ 1 1/2" Female Swivel)				
SIZE	PART NUMBER	WT	LIST PRICE	
2 x 1 1/2	8015403	12	\$105.00	
2 1/2 x 1 1/2	8025403	12	\$105.00	
3 x 1 1/2	8035403	14	\$112.00	
4 x 1 1/2	8045403	16	\$126.00	
6 x 1 1/2	8065403	23	\$157.00	
8 x 1 1/2	8085403	47	\$217.00	
10 x 1 1/2	8105403	73	\$413.00	
12 x 1 1/2	8125403	91	\$467.00	

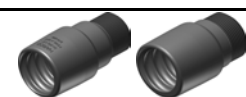
For use with 80090DK and 881-XX-YY Ductile Iron Swing Joints.



SPECIAL KITS			
DESCRIPTION	PART NUMBER	WT	LIST PRICE
1 1/2 Gasket Knuckle / Swing Joint Assembly	875-015	11	\$135.00
1 1/2 Lateral 90° Kit, MSWL x Gasket	80090DK	5	\$73.00
2" Lateral 90° Kit, MSWL x Gasket	80190DK	13	\$96.00

Part number 80090DK: For use with Swivel Tees with 1 1/2" Female Swivel, part number series 8xx5403.
Part number 80190DK: For use with standard Swivel Tees, part number series 8xx5405.
Knuckle bolt torque: 35 ft-lbs.

1 1/2" FEMALE SWIVEL ADAPTERS




DESCRIPTION	PART NUMBER	WT	LIST PRICE
1 1/2 Female Swivel x 1 1/2 Male NPT Adapter	873-006	3	\$57.00
1 1/2 Female Swivel x 2 Male NPT Adapter	876-008	2	\$65.00

IRRIGATION PRICE LIST


HARCO LATERAL CONNECTION SYSTEM

Discount Category C



LATERAL 90° (Male NPT x Male NPT)

	SIZE x RISE	WT	Standard		1" Side Outlet		1" Side Outlet Plugged	
			PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
			1½	5	80088	\$56.00	800882	\$62.00
2	7	80188	\$57.00	801882	\$63.00	801882P	\$66.00	
2½	8	80288	\$66.00	802882	\$72.00	802882P	\$77.00	
3	9	80388	\$69.00	803882	\$74.00	803882P	\$79.00	

LATERAL 90° (Female NPT x Male NPT)

	SIZE x RISE	WT	Standard		1" Side Outlet		1" Side Outlet Plugged	
			PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
			1½	7	80087	\$68.00	800872	\$73.00
2	9	80187	\$72.00	801872	\$77.00	801872P	\$81.00	
2½	11	80287	\$89.00	802872	\$95.00	802872P	\$99.00	
3	12	80387	\$96.00	803872	\$102.00	803872P	\$105.00	

LATERAL 90° WITH 1½" SIDE OUTLET

 	SIZE	WT	1" Side Outlet		1" Side Outlet Plugged	
			PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
			2 Male NPT x Male NPT	7	801883	\$69.00
2 Female NPT x Male NPT	7	801873	\$84.00	801873P	\$87.00	
2½ Male NPT x Male NPT	9	802883	\$79.00	802883P	\$84.00	
2½ Female NPT x Male NPT	9	802873	\$102.00	802873P	\$106.00	
3 Male NPT x Male NPT	11	803883	\$82.00	803883P	\$88.00	
3 Female NPT x Male NPT	11	803873	\$111.00	803873P	\$114.00	

IRRIGATION PRICE LIST

HARCO JOINT RESTRAINT

Discount Category D

KNUCKLE RESTRAINT

U.S. Patent #7,552,949



SIZE	PART NUMBER	WT	LIST PRICE
1½	60-100-01	2	\$26.00
2	60-100-02	3	\$29.00
2½	60-100-25	3	\$32.00
3	60-100-03	3	\$37.00
4	60-100-04	6	\$71.00

Knuckle bolt torque: 35 ft-lbs.

FITTING TO PIPE RESTRAINT

(Clamshell Restraint)



SIZE	PART NUMBER	WT	LIST PRICE
4	820411	11	\$83.00
6	820611	12	\$108.00
8	820811	16	\$145.00
10	821011	29	\$196.00
12	821211	38	\$261.00

Price is for one (1) set consisting of two (2) clamp halves and four (4) clamp bolts with nuts.

FITTING TO PIPE RESTRAINT



SIZE	PART NUMBER	WT	STYLE	LIST PRICE
2	820110	4	A	\$54.00
2½	820210	4	A	\$59.00
3	820310	5	A	\$64.00
4	820410	8	A	\$83.00
6	820610	10	A	\$108.00
8	820810	15	A	\$145.00
10 *	821010	51	B	\$196.00
12 *	821210	66	B	\$261.00
14	821410	50	C	\$389.00
16	821610	55	C	\$470.00

** Will not be replenished when current quantities are exhausted. Style D, Clamshell Restraints, can be used instead.*

Style A: Price is for one (1) set including one (1) clamp and bolt set, and two (2) eye bolts with nuts.

Style B: Price is for one (1) set including one (1) clamp and bolt set, one (1) backup ring, and four (4) restraint rods with nuts.

Style C: Price is for one (1) set including one (1) clamp and bolt set and six (6) restraint rods with nuts.

Grip Ring bolt torque: 100 ft-lbs.
Knuckle Restraint bolt torque: 35 ft-lbs.

QUICK COUPLER ANCHOR

U.S. Patent #7,255,124



SIZE	PART NUMBER	WT	LIST PRICE
¾ or 1	82201	2	\$21.00
1½	82202	2	\$22.00

PIPE TO PIPE RESTRAINT

(Style A)



SIZE	PART NUMBER	WT	LIST PRICE
2	820115	7	\$65.00
2½	820215	7	\$81.00
3	820315	10	\$122.00
4	820415	14	\$150.00
6	820615	18	\$196.00
8	820815	26	\$246.00
10	821015	47	\$462.00
12	821215	52	\$585.00
14	821415	113	\$887.00
16	821615	133	\$1,055.00
18	821815	187	\$1,231.00

Price is for one (1) set consisting of two (2) clamp and bolt sets and two (2) restraint rods with nuts.

PIPE TO PIPE RESTRAINT

(Style B)



SIZE	PART NUMBER	WT	LIST PRICE
3	820316	8	\$122.00
4	820416	12	\$150.00
6	820616	16	\$196.00
8	820816	34	\$246.00

Price is for one (1) set consisting of one (1) clamp and bolt set, one (1) backup ring, and two (2) T-bolts with nuts.

MECHANICAL JOINT BELL RESTRAINT



SIZE	PART NUMBER	WT	LIST PRICE
3	820335	5	\$64.00
4	820435	7	\$83.00
6	820635	9	\$108.00
8	820835	13	\$145.00
10	821035	22	\$196.00
12	821235	25	\$261.00
14	USE FITTING TO PIPE RESTRAINT THIS PAGE		
16	RESTRAINT THIS PAGE		
18	821835	65	\$500.00

*Price is for one (1) joint including one (1) clamp bolt set and restraint rods with nuts as required
3" - 12" for IPS pipe.
14" - 18" for DIPS pipe*

IRRIGATION PRICE LIST

HARCO JOINT RESTRAINT

Discount Category D

FITTING TO VALVE RESTRAINT



SIZE	PART NUMBER	WT	LIST PRICE
3	820320	5	\$46.00
4	820420	7	\$59.00
6	820620	8	\$66.00
8	820820	11	\$80.00

Price is for one (1) set including backup ring and two (2) eye bolts with nuts.

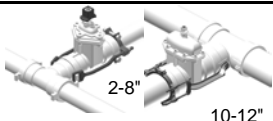
FITTING TO VALVE TO PIPE RESTRAINT (Style B)



SIZE	PART NUMBER	WT	LIST PRICE
3	820321	8	\$166.00
4	820421	10	\$183.00
6	820621	14	\$212.00
8	820821	22	\$244.00

Price is for one (1) set including two (2) backup rings, one (1) clamp and bolt set, two (2) eye bolts with nuts, and two (2) T-Bolts with nuts.

FITTING TO VALVE TO PIPE RESTRAINT (Style A)



SIZE	PART NUMBER	WT	LIST PRICE
2	820121	6	\$156.00
2½	820221	6	\$162.00
3	820322	8	\$166.00
4	820422	10	\$183.00
6	820622	14	\$212.00
8	820822	22	\$244.00
10	821021	50	\$317.00
12	821221	60	\$383.00

Price is for one (1) set including one (1) clamp and bolt set, and restraint rods with nuts.

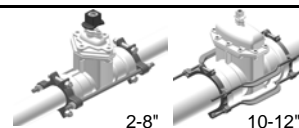
VALVE TO PIPE RESTRAINT (Style A)



SIZE	PART NUMBER	WT	LIST PRICE
3	820325	10	\$196.00
4	820425	14	\$230.00
6	820625	18	\$284.00
8	820825	26	\$357.00

Price is for one (1) set including two (2) clamp and bolt sets, two (2) backup rings, and four (4) T-Bolts with Nuts.

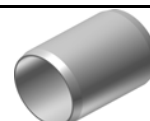
VALVE TO PIPE RESTRAINT (Style B)



SIZE	PART NUMBER	WT	LIST PRICE
2	820125	7	\$173.00
2½	820225	7	\$188.00
3	820326	13	\$196.00
4	820426	17	\$230.00
6	820626	22	\$284.00
8	820826	33	\$357.00
10	821025	47	\$479.00
12	821225	52	\$601.00

Price is for one (1) set including two (2) clamp and bolt sets, and restraint rods with nuts as required.

PVC PIPE SPIGOTS FOR VALVE RESTRAINTS (Factory Beveled, SDR21)



SIZE	PART NUMBER	WT	LIST PRICE
2	820123	1	\$5.00
2½	820223	1	\$6.00
3	820323	1	\$6.00
4	820423	2	\$8.00
6	820623	5	\$14.00
8	820823	8	\$22.00
10	821023	12	\$35.00
12	821223	16	\$52.00

Length is compatible with valves noted and HARCO valve restraints.

Valve restraints fit the following brands:
American Flow Control, AVK, Clow, Kennedy, Matco-Norca, M&H, Nibco, Waterous

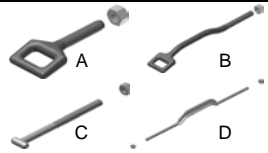
Grip Ring bolt torque: 100 ft-lbs.

IRRIGATION PRICE LIST

HARCO JOINT RESTRAINT

Discount Category D

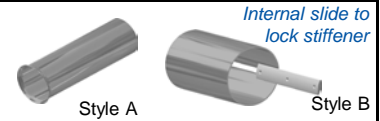
RESTRAINT RODS & BOLTS



DESCRIPTION	PART NO.	STYLE	WT	LIST PRICE
½ x 3 Joint Restraint Bolt	82001	A	1	\$15.00
¾ x 3 Joint Restraint Bolt	82002-3	A	1	\$17.00
¾ x 4 Joint Restraint Bolt	82002	A	1	\$17.00
2-3 Valve to Pipe Rod	820021-17	D	1	\$32.00
4 Valve to Pipe Rod	820021-20	D	2	\$39.00
6 Valve to Pipe Rod	820021-23	D	3	\$49.00
8 Valve to Pipe Rod	820021-26	D	4	\$61.00
10-12 Valve to Pipe Rod	820021-33	D	6	\$65.00
2-3 Fitting to Valve to Pipe Rod	82001-12	B	2	\$28.00
4 Fitting to Valve to Pipe Rod	82002-15	B	3	\$47.00
6 Fitting to Valve to Pipe Rod	82002-19	B	4	\$54.00
8 Fitting to Valve to Pipe Rod	82002-21	B	5	\$63.00
10 Fitting to Valve to Pipe Rod	82010C	B	12	\$81.00
12 Fitting to Valve to Pipe Rod	82012C	B	17	\$97.00
½ x 5 T-Bolt	82006	C	1	\$10.00
¾ x 6 T-Bolt	82007	C	1	\$14.00
¾ x 9 T-Bolt	T-BOLT-9	C	1	\$19.00
¾ x 11 T-Bolt	T-BOLT-11	C	2	\$32.00

Price includes nut.

PE PIPE STIFFENER



SIZE	PART NUMBER	WT	STYLE	LIST PRICE
1½	825-015	1	A	\$37.00
2	825-020	1	A	\$37.00
3	825-030	2	B	\$95.00
4	825-040	2	B	\$102.00
6	825-060	3	B	\$118.00
8	825-080	4	B	\$132.00
10	825-100	5	B	\$150.00
12	825-120	6	B	\$165.00
14	825-140	7	B	\$176.00
16	825-160	7	B	\$263.00
18	825-180	15	B	\$299.00

Specify whether IPS or Ductile Iron Pipe Size and SDR of pipe.

Use PE Pipe Stiffeners when PE Pipe is used with Ductile Iron Fittings.

IRRIGATION PRICE LIST

JOINT RESTRAINT SELECTION

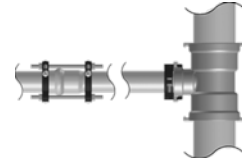
Discount Category D

Tables below list number of adjacent pipe joints to be restrained for basic fitting configurations. These were calculated using the joint restraint calculator available at www.harcofittings.com for a set of assumptions that will envelop many applications. Check that the assumptions listed below meet or exceed your application. If your situation is not covered by the assumptions or a more refined restraint scheme is desired, use the restraint calculator at www.harcofittings.com.

Bends, Reducers, Caps, and Valves

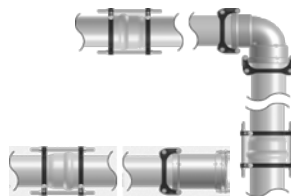
Size	Bends				Reductions			Dead Ends
	11¼	22½	45	90	1	2	3	
2	—	—	—	—	—	—	—	—
2½	—	—	—	—	—	—	—	1
3	—	—	—	—	—	—	1	1
4	—	—	—	—	—	1	1	2
6	—	—	—	1	1	2	2	3
8	—	—	—	1	1	3	3	4
10	—	—	—	1	1	2	3	4
12	—	—	—	1	2	2	3	4
14	—	—	—	1	1	2	3	4
16	—	—	—	2	1	2	3	5

Tees - Branch bell only restrained: Use joint restraints ONLY on branch. Number below is number of 20' joints to be restrained with pipe to pipe restraints.



Run Size	Tees (Branch Size)														
	2	2½	3	4	6	8	10	12	14	16					
2	<i>Use chart below for more economical method</i>														
2½															
3															
4															
6											—	1	1		
8											—	1	1		
10											—	—	1	1	
12											—	—	1	1	
14											—	—	1	1	1
16											—	—	1	1	1

Bends & Caps/Dead Ends: Restrain all bells and the adjacent joints listed in table (both directions for bends).



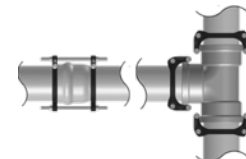
Reducers: Restrain large bell and adjacent joints listed in table.



Valves: Treat as Dead End. Use Valve Restraint and restrain adjacent upstream joints listed in table. If closed valve can have pressure from either side, restrain adjacent joints both sides per table.

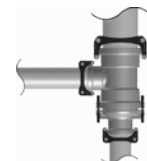


Tees - Branch bell only restrained: Use joint restraint on ALL three branches of tee. Number below is number of 20' joints to be restrained with pipe to pipe restraints in branch only direction.



Run Size	Tees (Branch Size)														
	2	2½	3	4	6	8	10	12	14	16					
2	—	—	—	1	<i>Use joint restraint calculator at www.harcofittings.com</i>										
2½															
3															
4															
6	—	—	—	—							1	1			
8	—	—	—	—							—	—	2	2	3
10	—	—	—	—							—	—	1	1	2
12	—	—	—	—							—	—	—	1	2
14	—	—	—	—							—	—	—	—	1
16	—	—	—	—							—	—	—	—	1

Tees - With Run Reductions: Restrain all bells and adjacent branch joints noted. Treat run reduction as a reducer. Restrain as noted adjacent joints to large bell per reducer table.




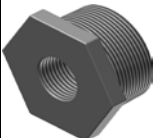
Restraint Calculation Assumptions:

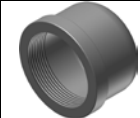
- Maximum pressure:** 125 psi
- Restrained Lengths:** Each restraint connects 20 ft length of pipe
- Soil Type:** Type GM, gravel-sand-silt mixture
- Minimum Burial Depths:** 2"–2½", 18" cover; 3"–8", 24" cover; 10"–12", 30" cover; 14"–16", 36" cover
- Trench Type:** 3, pipe bedded in 4 inches minimum loose soil. Backfill lightly consolidated to top of the pipe.
- Safety Factor:** 1.5


HARCO DUCTILE IRON THREADED FITTINGS


Discount Category E


TEE	SIZE	PART NUMBER	WT	LIST PRICE
	1½	88115	2	\$21.00
	2	88120	3	\$31.00
	2½	88125	5	\$67.00
	3 *	88130	7	\$86.00

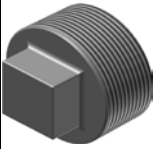
BUSHING	SIZE	PART NUMBER	WT	LIST PRICE
	1¼ x 1	8851210	1	\$9.00
	1½ x 1	8851510	1	\$9.00
	1½ x 1¼	8851512	1	\$11.00
	2 x 1	8852010	1	\$11.00
	2 x 1¼	8852012	1	\$11.00
	2 x 1½	8852015	1	\$11.00
	2½ x 1½ *	8852515	1	\$16.00
	2½ x 2 *	8852520	1	\$16.00
3 x 2 *	8853020	1	\$19.00	
3 x 2½ *	8853025	2	\$17.00	


CAP	SIZE	PART NUMBER	WT	LIST PRICE
	1½	88403	1	\$16.00
	2	88404	1	\$19.00
	2½	88405	2	\$46.00
	3 *	88406	3	\$61.00


COUPLING	SIZE	PART NUMBER	WT	LIST PRICE
	1½	88015	1	\$12.00
	2	88020	1	\$17.00
	2½	88025	3	\$29.00
	3 *	88030	3	\$34.00

90° BEND	SIZE	PART NUMBER	WT	LIST PRICE
	1½	88215	1	\$16.00
	2	88220	2	\$21.00
	2½	88225	4	\$46.00
	3 *	88230	5	\$67.00

45° BEND	SIZE	PART NUMBER	WT	LIST PRICE
	1½	88315	1	\$21.00
	2	88320	2	\$24.00
	2½	88325	3	\$57.00
	3 *	88330	5	\$76.00

PLUG	SIZE	PART NUMBER	WT	LIST PRICE
	1	88102	1	\$7.00
	1½	88103	1	\$9.00
	2	88104	1	\$11.00
	2½ *	88105	1	\$12.00
	3 *	88106	2	\$16.00

UNION	SIZE	PART NUMBER	WT	LIST PRICE
	1½	88615	2	\$56.00
	2	88620	3	\$71.00
	2½ *	88625	4	\$127.00
	3 *	88630	5	\$154.00

NIPPLE (Male NPT x Male NPT)	T.O.E. Nipples available 		
	SIZE	PART NUMBER	WT
1½ x Close	87015-00	1	\$9.00
1½ x 2	87015-02	1	\$9.00
1½ x 3	87015-03	2	\$10.00
1½ x 4	87015-04	2	\$11.00
1½ x 6	87015-06	3	\$16.00
1½ x 8	87015-08	4	\$22.00
1½ x 10	87015-10	5	\$27.00
1½ x 12	87015-12	5	\$32.00
1½ x 14	87015-14	6	\$38.00
1½ x 16	87015-16	7	\$44.00
1½ x 18	87015-18	8	\$51.00
1½ x 20	87015-20	9	\$59.00
2 x Close	87020-00	1	\$11.00
2 x 3	87020-03	2	\$11.00
2 x 4	87020-04	2	\$14.00
2 x 6	87020-06	3	\$21.00
2 x 8	87020-08	5	\$28.00
2 x 10	87020-10	6	\$34.00
2 x 12	87020-12	7	\$41.00
2 x 14	87020-14	8	\$56.00
2 x 16	87020-16	9	\$61.00
2 x 18	87020-18	10	\$64.00
2 x 20	87020-20	12	\$71.00
2 x 24	87020-24	14	\$86.00
2 x 30	87020-30	18	\$102.00
2 x 36	87020-36	21	\$121.00
2½ x 4	87025-04	3	\$31.00
2½ x 6	87025-06	4	\$36.00
2½ x 8	87025-08	6	\$42.00
2½ x 10	87025-10	7	\$47.00
2½ x 12	87025-12	9	\$61.00
2½ x 14	87025-14	10	\$61.00
2½ x 16	87025-16	11	\$67.00
2½ x 18	87025-18	13	\$74.00
2½ x 20	87025-20	14	\$81.00
3 x Close	87030-00	2	\$31.00
3 x 3	87030-03	3	\$32.00
3 x 4	87030-04	4	\$32.00
3 x 6	87030-06	5	\$39.00
3 x 8	87030-08	7	\$46.00
3 x 10	87030-10	9	\$56.00
3 x 12	87030-12	11	\$69.00
3 x 14	87030-14	13	\$69.00
3 x 16	87030-16	14	\$76.00
3 x 18	87030-18	16	\$84.00
3 x 20	87030-20	18	\$92.00

* Malleable iron.







IRRIGATION PRICE LIST

HARCO VALVES

Discount Category G







LATERAL ISOLATION VALVE

(U.S. Patents #7,055,865; #7,552,949)

STYLE	DESCRIPTION (Size x "Rise to Lateral")	WT	With Cross Handle		With Square Nut *	
			PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
	2" x 6" Gasket x Male Swivel	15	**Discontinued		**Discontinued	
	2" x 6" Gasket x Male Swivel, 1" Side Outlet Plugged	15	**Discontinued		**Discontinued	
	2" x 12" Gasket x Male Swivel		**Discontinued		**Discontinued	
	2" x 12" Gasket x Male Swivel, 1" Side Outlet Plugged		**Discontinued		**Discontinued	
	2" Gasket x Gasket <small>Minimum "rise" of 13".</small>	17	**Discontinued		**Discontinued	
	2" Gasket x Gasket, 1" Side Outlet Plugged	17	**Discontinued		**Discontinued	
	2½" x 6" Gasket x Male Swivel, 1" Side Outlet Plugged	15	**Discontinued		**Discontinued	
	3" x 6" Gasket x Male Swivel, 1" Side Outlet Plugged	22	N/A		**Discontinued	
	4" x 6" Gasket x Male Swivel, 1" Side Outlet Plugged	29	N/A		**Discontinued	

**** Use the New HARCO Lateral Isolation Valve Price List for LIV pricing ****

PARTS

STYLE	DESCRIPTION	PART NUMBER	WT	LIST PRICE	STYLE	DESCRIPTION	PART NUMBER	WT	LIST PRICE
	LIV Cross Handle	841-01	0.3	\$42.00		LIV Bonnet Assembly, 2" & 2½"	841-03	5.0	\$175.00
	LIV Square Operating Nut	841-12	1.8	\$18.00		LIV Bonnet Assembly, 3" & 4"	8413-03	9.0	\$294.00
	2" Grip Ring Assembly	8411-04	0.8	\$18.00		2" Gasket	85102	0.1	\$4.00
	2½" Grip Ring Assembly	8412-04	0.8	\$22.00		2½" Gasket	851025	0.1	\$4.00
	3" Grip Ring Assembly	8413-04	0.9	\$26.00		3" Gasket	85103	0.1	\$5.00
	4" Grip Ring Assembly	8414-04	0.9	\$30.00		4" Gasket	85104	0.2	\$5.00

OTHER COMPATIBLE PIPE STANDARDS

British Standards: BS 3505/3506 1½", 2", 3", 4", 6", 8", 10", 12"
Japanese Standards: JIS K 6741 with transition gaskets, Call for Product #'s 50mm, 75, 150, 200, 250, 300

US made Push On fittings are available in many configurations. Call for price and availability.

Mechanical Joint Fittings are available. Call for price and availability.

Conditions of Sale

RETURNS: All returned merchandise must have authorization from Harco. Returned merchandise will only be accepted within one (1) year of the date of invoice. Merchandise must be in new and marketable condition. Freight charges on authorized returns must be prepaid and a restocking charge will be made except for returns resulting from shipping errors on our part or material proven to be defective.

CLAIMS: All claims for damage or shortage in transit shall be handled with the carrier by the consignee.

GUARANTEE: The Harrington Corporation (Seller) guarantees to credit against invoice price or, at its option, to furnish, but not to install, replacement parts of like kind, F.O.B. its plant, Lynchburg, Virginia, any item of its manufacture proved to be defective in material or workmanship within one (1) year from date of shipment provided Buyer (or Purchaser) gives immediate written notice of such alleged defect and, if required, returns defective item to Seller's plant freight prepaid. Items or components not of Seller's manufacture are not included in the foregoing guarantee but are subject only to any warranty of their respective manufacturers. Seller shall not be liable for the cost of any repairs or work done or materials used by the Buyer because of defective or non-conforming items, unless authorized in writing by Seller. IN NO EVENT SHALL SELLER BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED BY BREACH OF THIS GUARANTEE unless applicable federal or state law forbids exclusion of incidental or consequential damages.

WARRANTIES: EXCEPT FOR THE ABOVE "GUARANTEE," SELLER MAKES NO EXPRESS WARRANTIES AND NO IMPLIED WARRANTIES OF MERCHANT ABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE AS TO PRODUCTS SOLD BY US, UNLESS APPLICABLE FEDERAL OR STATE LAW FORBIDS SUCH DISCLAIMER OF WARRANTIES. NO WAIVER, ALTERATION, OR MODIFICATION OF THIS DISCLAIMER OF WARRANTIES SHALL BE VALID UNLESS MADE IN WRITING AND SIGNED BY AN EXECUTIVE OFFICER OF SELLER.

PRICES: Subject to change without notice. Possession of price sheets does not constitute an obligation to sell and orders may be refused without cause.

SUITABILITY: The presence of corrosive soils or carried water may require the use of protective measures such as polyethylene encasement and/or coatings.



Warehouses in Virginia, Florida, Texas, and Arizona



ENGINEERED FOR DURABILITY

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