

PRICE LIST

HARCO DEEP BELL DUCTILE IRON FITTINGS

1 1/2" - 12" FITTINGS AND JOINT RESTRAINTS FOR IPS PVC PIPE

UTILITY PRICE LIST UD1118

See www.harcofittings.com for latest additions

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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U.S. made Push On Fittings available in many configurations. Call for price and availability.

NOTES

1. GASKETS — Included in prices unless otherwise noted.
2. CONNECTION LINKS — Are included in the price and shipped automatically with each SEB reducer, solid and tapped plug, and spigot x flange adapter.
3. 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.
4. 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.
5. 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.
6. 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.
7. ADDITIONAL ITEMS — Many additional configurations are possible by assembling standard fittings. Please inquire if fittings required are not in this list.
8. 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	\$42.90
2	80140	6	\$44.00
2½	80240	7	\$45.10
3	80340	10	\$74.80
4	80440	12	\$90.20
5	80540	17	\$134.20
6	80640	23	\$138.60
8	80840	33	\$158.40
10	81040	57	\$264.00
12	81240	71	\$397.10

11¼° BEND

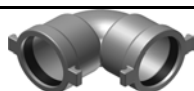
(1/32 Bend)



SIZE	PART NUMBER	WT	LIST PRICE
4	80426	10	\$117.70
6	80626	21	\$178.20
8	80826	35	\$244.20
10	81026	56	\$491.70
12	81226	77	\$628.10

90° BEND

(1/4 Bend)



SIZE	PART NUMBER	WT	LIST PRICE
1½	80020	7	\$35.20
2	80120	6	\$63.80
2½	80220	7	\$69.30
3	80320	10	\$92.40
4	80420	15	\$107.80
6	80620	27	\$214.50
8	80820	42	\$276.10
10	81020	77	\$526.90
12	81220	102	\$551.10

45° BEND

(1/8 Bend)



SIZE	PART NUMBER	WT	LIST PRICE
1½ *	80022	7	\$66.00
2	80122	5	\$62.70
2½	80222	6	\$63.80
3	80322	9	\$80.30
4	80422	13	\$99.00
6	80622	23	\$161.70
8	80822	37	\$253.00
10	81022	56	\$378.40
12	81222	75	\$543.40

* Assembled from subcomponents.

22½° BEND

(1/16 Bend)



SIZE	PART NUMBER	WT	LIST PRICE
2½	80224	7	\$66.00
3	80324	8	\$81.40
4	80424	12	\$99.00
6	80624	21	\$136.40
8	80824	32	\$244.20
10	81024	51	\$457.60
12	81224	77	\$464.20

TEE



SIZE	PART NUMBER	WT	LIST PRICE
1½	8000000	9	\$49.50
2 x 2 x 1½ *	8010100	12	\$108.90
2	8010101	8	\$66.00
2 x 2 x 2½	8010102	9	\$185.90
2 x 2 x 3	8010103	10	\$196.90
2½ x 2½ x 1½ *	8020200	11	\$108.90
2½ x 2½ x 2	8020201	9	\$104.50
2½	8020202	10	\$72.60
2½ x 2½ x 3	8020203	12	\$152.90
3 x 2 x 2	8030101	13	\$214.50
3 x 2½ x 2½	8030202	11	\$224.40
3 x 3 x 1½ *	8030300	14	\$160.60
3 x 3 x 2	8030301	12	\$156.20
3 x 3 x 2½	8030302	12	\$161.70
3	8030303	14	\$129.80
4 x 4 x 1½ *	8040400	16	\$176.00
4 x 4 x 2	8040401	16	\$158.40
4 x 4 x 2½	8040402	17	\$161.70
4 x 4 x 3	8040403	18	\$166.10
4	8040404	21	\$168.30
6 x 6 x 2	8060601	25	\$207.90
6 x 6 x 2½	8060602	26	\$213.40
6 x 6 x 3	8060603	28	\$213.40
6 x 6 x 4	8060604	31	\$255.20
6	8060606	37	\$271.70
8 x 8 x 3	8080803	39	\$271.70
8 x 8 x 4	8080804	44	\$387.20
8 x 8 x 6	8080806	51	\$390.50
8	8080808	61	\$393.80
10 x 10 x 4	8101004	70	\$690.80
10 x 10 x 6	8101006	79	\$573.10
10 x 10 x 8	8101008	89	\$590.70
10	8101010	109	\$607.20
12 x 12 x 6	8121206	100	\$566.50
12 x 12 x 8	8121208	112	\$652.30
12 x 12 x 10 †	8121210	214	\$1,295.80
12	8121212	147	\$990.00

* Assembled with Service Tee and Male Adapter.

† Assembled with Tee and S.E.B. Reducer

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

UTILITY PRICE LIST

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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	\$63.80
1½ x 1½ *	800503	8	\$63.80
2 x 1	801502	7	\$52.80
2 x 1¼	8015025	6	\$52.80
2 x 1½	801503	6	\$50.60
2 x 2 *	801504	30	\$115.50
2½ x 1	802502	7	\$52.80
2½ x 1¼	8025025	7	\$52.80
2½ x 1½	802503	7	\$50.60
2½ x 2	802504	9	\$50.60
2½ x 2½ *	802505	15	\$130.90
3 x 1	803502	10	\$104.50
3 x 1¼	8035025	11	\$104.50
3 x 1½	803503	10	\$102.30
3 x 2	803504	9	\$102.30
3 x 2½	803505	11	\$104.50
3 x 3 *	803506	20	\$143.00
4 x 1	804502	14	\$119.90
4 x 1¼	8045025	14	\$119.90
4 x 1½	804503	13	\$119.90
4 x 2	804504	13	\$115.50
4 x 2½	804505	16	\$115.50
4 x 3	804506	16	\$115.50
6 x 1	806502	16	\$151.80
6 x 1¼	8065025	16	\$151.80
6 x 1½	806503	15	\$151.80
6 x 2	806504	16	\$151.80
6 x 2½	806505	22	\$151.80
6 x 3	806506	21	\$151.80
8 x 1	808502	32	\$216.70
8 x 1¼	8085025	32	\$216.70
8 x 1½	808503	32	\$216.70
8 x 2	808504	31	\$216.70
8 x 2½	808505	31	\$216.70
8 x 3	808506	30	\$216.70
10 x 1 *	810502	66	\$409.20
10 x 1¼ *	8105025	66	\$425.70
10 x 1½ *	810503	67	\$432.30
10 x 2 *	810504	66	\$432.30
10 x 2½ *	810505	66	\$432.30
10 x 3 *	810506	66	\$432.30
10 x 4	810508	66	\$471.90
12 x 1 *	812502	84	\$471.90
12 x 1¼ *	8125025	84	\$491.70
12 x 1½ *	812503	85	\$491.70
12 x 2 *	812504	84	\$491.70
12 x 2½ *	812505	84	\$491.70
12 x 3 *	812506	84	\$491.70
12 x 4	812508	84	\$551.10

* Assembled from subcomponents.

10" through 12" Tapped Tees are assembled from Swivel Tee and Swivel x Thread Adapter.

Some items shipped using Ductile Iron Threaded Bushing to accomplish smaller thread sizes.

CROSS

(All Gasketed Bell)



SIZE	PART NUMBER	WT	LIST PRICE
2½ x 2½ x 1½ x 1½	802150303	16	\$168.30
2½ x 2½ x 2 x 2	802150404	17	\$181.50
3 x 3 x 2 x 2	803150404	21	\$225.50
3 x 3 x 2½ x 2½	803150505	24	\$231.00
4 x 4 x 2 x 2	804150404	26	\$242.00
4 x 4 x 2½ x 2½	804150505	28	\$247.50
4 x 4 x 3 x 3	804150606	30	\$249.70
6 x 6 x 2 x 2	806150404	40	\$278.30
6 x 6 x 2½ x 2½	806150505	41	\$283.80
6 x 6 x 3 x 3	806150606	44	\$286.00
8 x 8 x 2 x 2	808150404	51	\$363.00
8 x 8 x 2½ x 2½	808150505	54	\$367.40
8 x 8 x 3 x 3	808150606	57	\$370.70

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	\$62.70
2½ x 1½	802510303	10	\$62.70
2½ x 2	802510404	10	\$62.70
3 x 2	803510404	14	\$161.70
3 x 2½	803510505	14	\$161.70
4 x 2	804510404	18	\$176.00
4 x 2½	804510505	17	\$176.00
4 x 3	804510606	17	\$176.00
6 x 2	806510404	31	\$200.20
6 x 2½	806510505	31	\$200.20
6 x 3	806510606	30	\$200.20
8 x 2	808510404	43	\$293.70
8 x 2½	808510505	43	\$293.70
8 x 3	808510606	43	\$293.70

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

HARCO DEEP BELL DUCTILE IRON FITTINGS

WYE

(Bell x Bell x Bell)



SIZE	PART NUMBER	WT	LIST PRICE
1½	80010B	10	\$117.70
2	80110B	12	\$133.10
2½	80210B	16	\$144.10
3	80310B	24	\$196.90

Wyes may be configured for any size gasketed branch up to run diameter.

WYE

(Bell x Bell x Female NPT)



SIZE	PART NUMBER	WT	LIST PRICE
1½	80010	7	\$79.20
2	80110	8	\$86.90
2½	80210	12	\$95.70
3	80310	18	\$148.50

Wyes may be configured for any size thread branch from 1¼" to maximum tap size shown. Please specify thread tap size required.

REDUCER

(Bell x Bell)



SIZE	PART NUMBER	WT	LIST PRICE
2 x 1½	80130BB	13	\$149.60
2½ x 1½	80232BB	19	\$151.80
2½ x 2	80230BB	16	\$100.10
3 x 2	80332BB	17	\$124.30
3 x 2½	80330BB	17	\$133.10
4 x 2	80434BB	21	\$152.90
4 x 2½	80432BB	22	\$152.90
4 x 3	80430BB	23	\$156.20
6 x 2	80638BB	43	\$281.60
6 x 2½	80636BB	44	\$255.20
6 x 3	80634BB	38	\$255.20
6 x 4	80630	40	\$127.60
8 x 2½	80838BB	60	\$312.40
8 x 3	80836BB	61	\$300.30
8 x 4	80834BB	55	\$290.40
8 x 6	80830	58	\$172.70
10 x 6	81032BB	106	\$523.60
10 x 8	81030BB	107	\$523.60
12 x 6	81234BB	130	\$625.90
12 x 8	81232BB	134	\$625.90
12 x 10	81230BB	143	\$685.30

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	\$93.50
2½ x 1½	80232	11	\$94.60
2½ x 2	80230	6	\$58.30
3 x 2	80332	7	\$58.30
3 x 2½	80330	8	\$66.00
4 x 2	80434	9	\$70.40
4 x 2½	80432	9	\$70.40
4 x 3	80430	10	\$72.60
6 x 2	80638	19	\$127.60
6 x 2½	80636	20	\$129.80
6 x 3	80634	14	\$112.20
6 x 4	80632	16	\$124.30
6 x 5	80628	16	\$114.40
8 x 2½	80838	26	\$152.90
8 x 3	80836	27	\$152.90
8 x 4	80834	21	\$147.40
8 x 6	80832	25	\$147.40
10 x 3	81036	31	\$162.80
10 x 4	81034	57	\$258.50
10 x 6	81032	42	\$258.50
10 x 8	81030	43	\$258.50
12 x 4	81236	67	\$378.40
12 x 6	81234	52	\$255.20
12 x 8	81232	55	\$255.20
12 x 10	81230	69	\$311.30

Two (2) links and two (2) wedges for each spigot side only of S.E.B. Reducer are included in price and shipped automatically. Some S.E.B. Reducers assembled from Tapped Plug and Male Adapter

MALE ADAPTER

(Bell x Male NPT)



SIZE	PART NUMBER	WT	LIST PRICE
1½ x 1½	80070	3	\$41.80
2 x 1½	80172	3	\$45.10
2 x 2	80170	4	\$45.10
2½ x 2	80272	3	\$51.70
2½ x 2½	80270	5	\$51.70
3 x 2½	80372	5	\$61.60
3 x 3	80370	6	\$61.60
4 x 4	80470	8	\$72.60

See "Knuckle Restraint," page 10, for economical restraint of Male Adapter.

Discount Category A

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HARCO DEEP BELL DUCTILE IRON FITTINGS

Discount Category A

PLUG

(Solid x Spigot)



SIZE	PART NUMBER	WT	LIST PRICE
2	80155	5	\$45.10
2½	80255	6	\$47.30
3	80355	6	\$48.40
4	80455	12	\$58.30
6	80655	17	\$60.50
8	80855	20	\$85.80
10	81055	37	\$112.20
12	81255	51	\$133.10

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

CAP



SIZE	PART NUMBER	WT	STYLE	LIST PRICE
1½	80066	4	A	\$85.80
2	80166	8	B	\$85.80
2½	80266	4	A	\$85.80
3	80366	17	B	\$117.70
4	80466	25	B	\$139.70
6	80666	40	B	\$187.00
8	80866	55	B	\$229.90
10	81066	97	B	\$345.40
12	81266	127	B	\$498.30

TAPPED PLUG

(Spigot x Female NPT)



SIZE	PART NUMBER	WT	LIST PRICE
2 x 1	8015602	5	\$60.50
2 x 1½	8015603	5	\$60.50
2½ x 1	8025602	6	\$61.60
2½ x 1½	8025603	6	\$61.60
2½ x 2	8025604	6	\$61.60
3 x 1	8035602	6	\$51.70
3 x 1½	8035603	6	\$63.80
3 x 2	8035604	6	\$63.80
3 x 2½	8035605	6	\$67.10
4 x 1½	8045603	12	\$61.60
4 x 2	8045604	12	\$72.60
4 x 2½	8045605	12	\$61.60
4 x 3	8045606	12	\$72.60
6 x 1½	8065603	16	\$63.80
6 x 2	8065604	16	\$75.90
6 x 2½	8065605	16	\$63.80
6 x 3	8065606	16	\$75.90
8 x 1½	8085603	20	\$92.40
8 x 2	8085604	20	\$100.10
8 x 2½	8085605	20	\$92.40
8 x 3	8085606	19	\$100.10
10 x 1½	8105603	37	\$111.10
10 x 2	8105604	36	\$127.60
10 x 2½	8105605	36	\$111.10
10 x 3	8105606	36	\$127.60
10 x 4	8105608	51	\$215.60
12 x 1½	8125603	51	\$132.00
12 x 2	8125604	51	\$147.40
12 x 2½	8125605	51	\$132.00
12 x 3	8125606	51	\$147.40
12 x 4	8125608	51	\$235.40

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

TAPPED CAP

(Bell x Female NPT)



SIZE	PART NUMBER	WT	LIST PRICE
2 x 1	8016702	5	\$85.80
2 x 1½	8016703	5	\$85.80
2½ x 1	8026702	6	\$86.90
2½ x 1½	8026703	6	\$86.90
2½ x 2	8026704	6	\$86.90
3 x 1	8036702	6	\$119.90
3 x 1½	8036703	6	\$119.90
3 x 2	8036704	6	\$119.90
3 x 2½	8036705	6	\$119.90
4 x 1½	8046703	12	\$139.70
4 x 2	8046704	12	\$139.70
4 x 2½	8046705	12	\$139.70
4 x 3	8046706	12	\$139.70
6 x 1½	8066703	16	\$187.00
6 x 2	8066704	16	\$187.00
6 x 2½	8066705	16	\$187.00
6 x 3	8066706	16	\$187.00
8 x 1½	8086703	20	\$229.90
8 x 2	8086704	20	\$229.90
8 x 2½	8086705	20	\$229.90
8 x 3	8086706	19	\$229.90
10 x 1½	8106703	37	\$345.40
10 x 2	8106704	36	\$345.40
10 x 2½	8106705	36	\$345.40
10 x 3	8106706	36	\$345.40
10 x 4	8106708	51	\$433.40
12 x 1½	8126703	51	\$500.50
12 x 2	8126704	51	\$500.50
12 x 2½	8126705	51	\$500.50
12 x 3	8126706	51	\$500.50
12 x 4	8126708	51	\$588.50

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HARCO DEEP BELL DUCTILE IRON FITTINGS

Discount Category A

SPIGOT x FLANGE ADAPTER



SIZE	PART NUMBER	WT	LIST PRICE
3	80360	13	\$104.50
4	80460	17	\$124.30
6	80660	24	\$179.30
8	80860	33	\$206.80
10	81060	71	\$412.50
12	81260	94	\$434.50

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

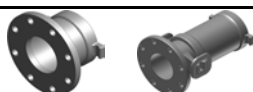
FLANGE ACCESSORIES (For Class 125 & 150)



SIZE	PART NUMBER	WT	LIST PRICE
3	856031	2	\$14.30
4	856041	4	\$20.90
6	856061	6	\$33.00
8	856081	6	\$37.40
10	856101	13	\$67.10
12	856121	14	\$75.90

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

FLANGE x BELL ADAPTER



SIZE	PART NUMBER	WT	STYLE	LIST PRICE
3 x 3	80360FB	22	B	\$167.20
3 x 4	80360-04	35	B	\$254.10
4 x 4	80460FB	29	A	\$190.30
4 x 6	80460-06	57	B	\$364.10
6 x 6	80660FB	47	A	\$293.70
6 x 8	80660-08	93	B	\$460.90
8 x 8	80860FB	67	A	\$335.50
8 x 10	80860-10	141	B	\$731.50
10 x 10	81060FB	56	A	\$619.30
10 x 12	81060-12	216	B	\$1,073.60
12 x 12	81260FB	76	B	\$757.90

FLANGE OUTLET TEE (Bell x Bell x Flange)



SIZE	PART NUMBER	WT	LIST PRICE
3 x 3	80300F	27	\$226.60
4 x 4	80400F	39	\$270.60
6 x 4	80601F	49	\$370.70
6 x 6	80600F	62	\$441.10
8 x 6	80801F	76	\$566.50
8 x 8	80800F	94	\$588.50
10 x 6	81002F	111	\$761.20
10 x 8	81001F	130	\$801.90
10 x 10	81000F	180	\$992.20
12 x 6	81203F	128	\$745.80
12 x 8	81202F	145	\$863.50
12 x 12	81200F	240	\$1,392.60

* Flange gaskets and bolts not included.

REPLACEMENT GASKETS



SIZE	PART NUMBER	WT	LIST PRICE
1 1/2	851015	0.1	\$4.40
2	85102	0.1	\$4.40
2 1/2	851025	0.1	\$4.40
3	85103	0.1	\$5.50
4	85504	0.2	\$5.50
6	85506	0.4	\$7.70
8	85508	0.7	\$12.10
10	85510	1.2	\$28.60
12	85512	1.8	\$30.80

LINKS



SIZE & TYPE	PART NUMBER	WT	LIST PRICE
1 1/2 - 8	82000	1.0	\$7.70
10 - 12	82003	3.6	\$23.10
10 - 12 Transition *	82004	1.4	\$7.70

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
N/A	82009	0.3	\$3.30

Alternative to wood wedge used when linking fittings together.

UTILITY PRICE LIST

HARCO DUCTILE IRON SADDLES

Discount Category B

SADDLE (Female NPT)



SIZE	PART NUMBER	WT	LIST PRICE
3 x 1 *	803802	5	\$56.10
3 x 1½ *	803803	5	\$56.10
3 x 2	803804	4	\$56.10
3 x 2½	803805	4	\$63.80
4 x 1 *	804802	5	\$66.00
4 x 1½ *	804803	5	\$66.00
4 x 2	804804	5	\$66.00
4 x 2½	804805	4	\$74.80
6 x 1 *	806802	6	\$70.40
6 x 1½ *	806803	6	\$70.40
6 x 2	806804	5	\$70.40
6 x 2½	806805	5	\$79.20
8 x 1 *	808802	7	\$79.20
8 x 1½ *	808803	7	\$79.20
8 x 2	808804	6	\$79.20
8 x 2½	808805	6	\$86.90
10 x 1½ *	810803	8	\$89.10
10 x 2	810804	6	\$89.10
10 x 2½	810805	6	\$97.90
12 x 1½ *	812803	8	\$99.00
12 x 2	812804	7	\$99.00
12 x 2½	812805	7	\$107.80

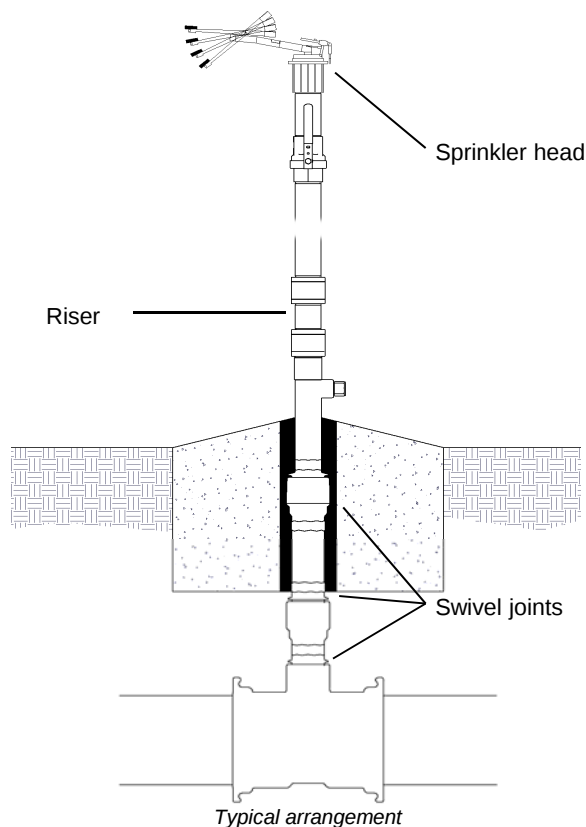
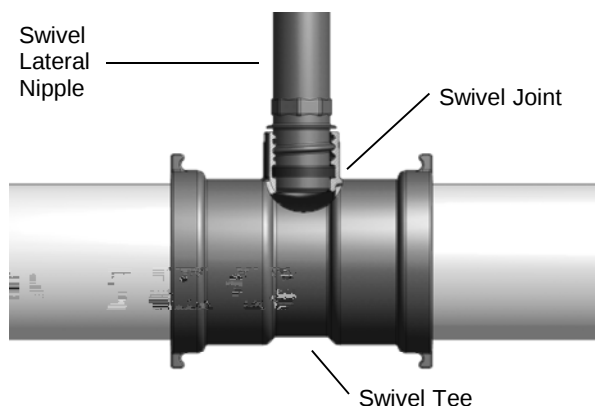
* Produced using 2" NPT with 2" x 1½" or 2" x 1" Ductile Iron
Bushing, installed and sealed at factory.

UTILITY PRICE LIST

HARCO LATERAL CONNECTION SYSTEM

HARCO's swivel fittings for use in effluent spray field systems.

The HARCO swivel joint lateral connection systems provide for ease of installation, orientation, and "in ground" flexibility especially useful in effluent spray field riser assemblies and lateral connections.



Discount Category C

	SWIVEL TEE			
	SIZE	PART NUMBER	WT	LIST PRICE
	2	8015405	23	\$52.80
	2½	8025405	10	\$52.80
	3	8035405	12	\$107.80
	4	8045405	16	\$123.20
	6	8065405	26	\$160.60
	8	8085405	35	\$229.90
	10	8105405	62	\$458.70
	12	8125405	79	\$521.40
	14	8145405	153	\$937.20
	16	8165405	189	\$1,211.10

	SADDLE (Female Swivel Outlet)			
	SIZE	PART NUMBER	WT	LIST PRICE
	3	80381	7	\$70.40
	4	80481	6	\$71.50
	6	80681	7	\$84.70
	8	80881	7	\$94.60
	10	81081	8	\$113.30
	12	81281	9	\$126.50
*Assembled from Service Saddle & Male Adapter Bolt torque: 40-50 ft-lbs. See installation instructions.				

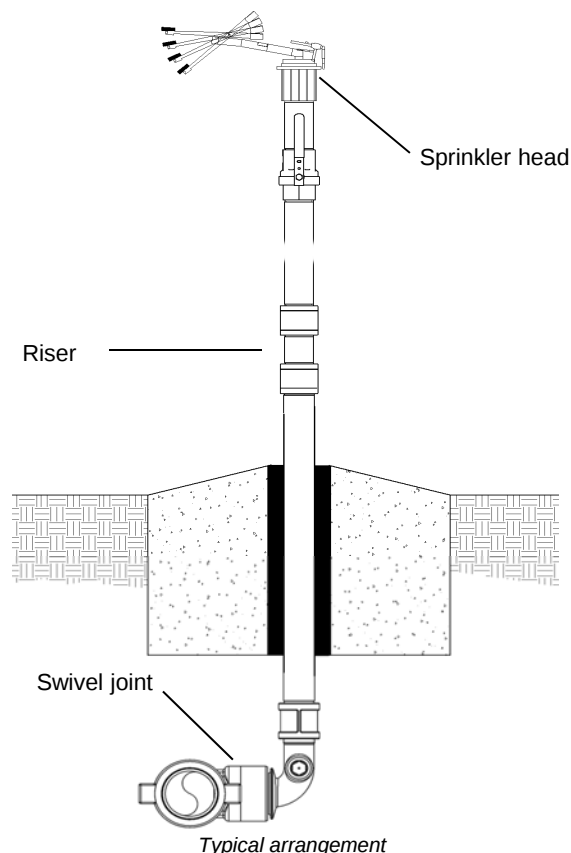
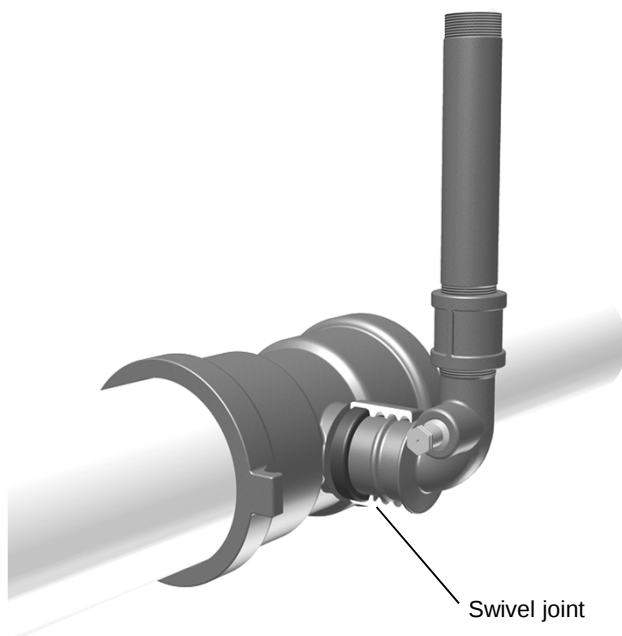
LATERAL NIPPLE (Male NPT x Male Swivel)								
	SIZE x RISE	WT	Standard		1" Side Outlet		1" Side Outlet Plugged	
			PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
	2 x 8	4	8720808	\$38.50	87208082	\$42.90	87208082P	\$45.10
	2 x 12	6	8721208	\$41.80	87212082	\$45.10	87212082P	\$48.40
	2 x 14 *	6	8721408	\$48.40	87214082	\$52.80	87214082P	\$56.10
	2 x 18	8	8721808	\$60.50	87218082	\$63.80	87218082P	\$67.10
	2½ x 8	4	8720810	\$42.90	87208102	\$47.30	87208102P	\$50.60
	3 x 10	5	8721012	\$48.40	87210122	\$52.80	87210122P	\$56.10
	* Will not be replenished when current quantities are exhausted.							

UTILITY PRICE LIST

HARCO LATERAL CONNECTION SYSTEM

Discount Category C

The HARCO swivel joint lateral connection systems provide for ease of installation, orientation, and "in ground" flexibility especially useful in effluent spray field riser assemblies and lateral connections.



LATERAL 90° (Male NPT x Male Swivel)

	SIZE x RISE	WT	Standard		1" Side Outlet		1" Side Outlet Plugged	
			PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE	PART NUMBER	LIST PRICE
	1 x 6	4	80B86	\$50.60	80B862	\$53.90	80B862P	\$57.20
	1½ x 6	4	80086	\$50.60	800862	\$53.90	800862P	\$57.20
	2 x 6	5	80186	\$52.80	801862	\$57.20	801862P	\$60.50
	2 x 12	7	8018612	\$70.40	80186122	\$74.80	80186122P	\$77.00
	2½ x 6	5	80286	\$57.20	802862	\$61.60	802862P	\$63.80
	3 x 7	6	80386	\$60.50	803862	\$63.80	803862P	\$67.10

LATERAL 90° (Spigot x Male Swivel)

	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	6	8018506	\$36.30	80185062	\$41.80	80185062P	\$44.00
	2½ x 6	7	8028506	\$47.30	80285062	\$51.70	80285062P	\$53.90
	3 x 7	8	8038507	\$52.80	80385072	\$57.20	80385072P	\$60.50

LATERAL NIPPLE (Spigot x Male Swivel)

	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 10	4	8731008	\$24.20	87310082	\$28.60	87310082P	\$31.90
	2 x 12	5	8731208	\$28.60	87312082	\$33.00	87312082P	\$35.20
	2 x 18	7	8731808	\$48.40	87318082	\$52.80	87318082P	\$56.10

UTILITY PRICE LIST

HARCO LATERAL CONNECTION SYSTEM

Discount Category C

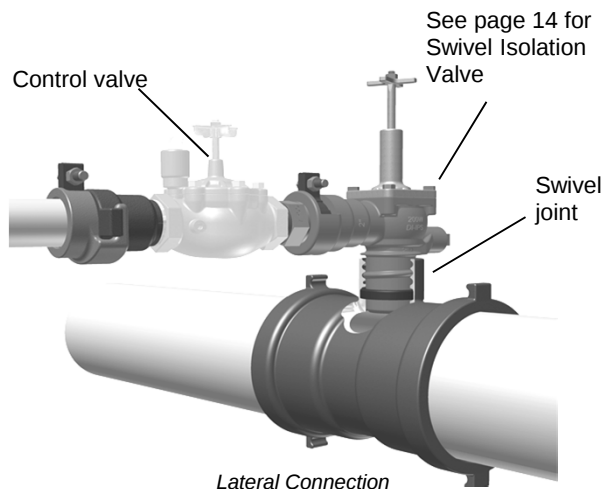
LATERAL 90° (Male NPT x Male NPT)

	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	\$61.60	800882	\$68.20	800882P	\$72.60
	2	7	80188	\$62.70	801882	\$69.30	801882P	\$72.60
	2½	8	80288	\$72.60	802882	\$79.20	802882P	\$84.70
	3	9	80388	\$75.90	803882	\$81.40	803882P	\$86.90

SPIGOT x MALE NPT ADAPTER

 X- SECT. IN USE	SIZE	PART NUMBER	WT	LIST PRICE
	1½ x 6	8740606	3	\$36.30
	2 x 4	8740408	2	\$36.30
	2 x 6	8740608	3	\$40.70
	2 x 8	8740808	5	\$45.10
	2 x 10	8741008	6	\$48.40
	2 x 12	8741208	7	\$52.80
	2½ x 6	8740610	4	\$42.90
	3 x 6	8740612	5	\$47.30

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.



SPIGOT x MALE NPT ADAPTER, COMPACT

 X- SECT.	SIZE	PART NUMBER	WT	LIST PRICE
	2 x 1	874030804	3	\$35.20
	2 x 1¼	874030805	3	\$35.20
	2 x 1½	874030806	3	\$35.20
	2 x 2	874030808	3	\$35.20
	2 x 2½	874030810	3	\$38.50

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

SWIVEL EXTENSION

(Male Swivel x Female Swivel)

 RISE	RISE	PART NUMBER	WT	LIST PRICE
	6	87106	6	\$31.90
	12	87112	11	\$51.70

ADAPTER

(Female Swivel x Thread)

	SIZE	PART NUMBER	WT	LIST PRICE
	2 MNPT	873-008	3	\$66.00

UTILITY 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	1.9	\$28.60
2	60-100-02	2.5	\$31.90
2½	60-100-25	3.2	\$35.20
3	60-100-03	3.4	\$40.70
4	60-100-04	5.8	\$78.10

Knuckle bolt torque: 35 ft.-lbs.

FITTING TO PIPE RESTRAINT (Clamshell Restraint)



SIZE	PART NUMBER	WT	LIST PRICE
4	820411	11	\$91.30
6	820611	12	\$118.80
8	820811	16	\$159.50
10	821011	29	\$215.60
12	821211	38	\$287.10

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

FITTING TO PIPE RESTRAINT (Style A)



SIZE	PART NUMBER	WT	LIST PRICE
2	820110	4	\$59.40
2½	820210	4	\$64.90
3	820310	5	\$70.40
4	820410	8	\$91.30
6	820610	10	\$118.80
8	820810	15	\$159.50

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

FITTING TO VALVE RESTRAINT



SIZE	PART NUMBER	WT	LIST PRICE
3	820320	5	\$50.60
4	820420	7	\$64.90
6	820620	8	\$72.60
8	820820	11	\$88.00

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

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

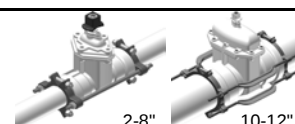
PIPE TO PIPE RESTRAINT (Style A)



SIZE	PART NUMBER	WT	LIST PRICE
2	820115	7	\$71.50
2½	820215	7	\$89.10
3	820315	10	\$134.20
4	820415	14	\$165.00
6	820615	18	\$215.60
8	820815	26	\$270.60
10	821015	47	\$508.20
12	821215	52	\$643.50

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.

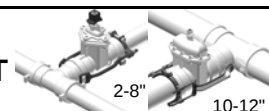
VALVE TO PIPE RESTRAINT (Style B)



SIZE	PART NUMBER	WT	LIST PRICE
2	820125	7	\$190.30
2½	820225	7	\$206.80
3	820326	13	\$215.60
4	820426	17	\$253.00
6	820626	22	\$312.40
8	820826	33	\$392.70
10	821025	47	\$526.90
12	821225	52	\$661.10

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

FITTING TO VALVE TO PIPE RESTRAINT (Style A)



SIZE	PART NUMBER	WT	LIST PRICE
2	820121	6	\$171.60
2½	820221	6	\$178.20
3	820322	8	\$182.60
4	820422	10	\$201.30
6	820622	14	\$233.20
8	820822	22	\$268.40
10	821021	50	\$348.70
12	821221	60	\$421.30

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

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

UTILITY PRICE LIST

HARCO JOINT RESTRAINT

Discount Category D

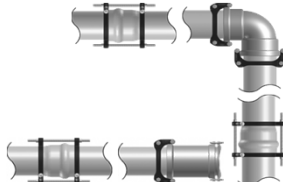
Tables below list number of adjacent pipe joints to be restrained for basic fitting configurations. These were calculated using the joint restraint calculator available at www.harcofittings.com for a set of assumptions that will envelop many applications. Check that the assumptions listed below meet 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
	11½"	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

Bends & Caps/Dead Ends:

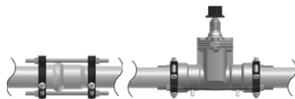
Restrain all bells and the adjacent joints listed in table (both directions for bends).



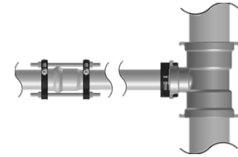
Reducers: Restrain large bell and adjacent joints listed in table.



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.



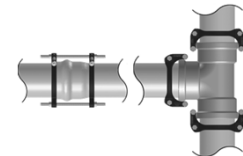
Tees - Branch bell only restrained: Use joint restraints ONLY on branch. Number below is number of 20' joints to be restrained with pipe to pipe restraints.



Run Size	Tees (Branch Size)									
	2"	2½"	3"	4"	6"	8"	10"	12"	14"	16"
2"	—	—	—	—	—	—	—	—	—	—
2½"	—	—	—	—	—	—	—	—	—	—
3"	—	—	—	—	—	—	—	—	—	—
4"	—	—	—	—	—	—	—	—	—	—
6"	—	1	1	—	—	—	—	—	—	—
8"	—	1	1	—	—	—	—	—	—	—
10"	—	—	1	1	—	—	—	—	—	—
12"	—	—	1	1	—	—	—	—	—	—
14"	—	—	1	1	1	—	—	—	—	—
16"	—	—	1	1	1	—	—	—	—	—

Use chart below for more economical method

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.

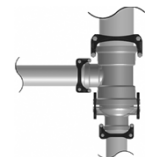


Run Size	Tees (Branch Size)									
	2"	2½"	3"	4"	6"	8"	10"	12"	14"	16"
2"	—	—	—	1	—	—	—	—	—	—
2½"	—	—	—	—	—	—	—	—	—	—
3"	—	—	—	—	—	—	—	—	—	—
4"	—	—	—	—	—	—	—	—	—	—
6"	—	—	—	—	—	1	1	—	—	—
8"	—	—	—	—	—	—	—	2	2	3
10"	—	—	—	—	—	—	—	1	1	2
12"	—	—	—	—	—	—	—	—	1	2
14"	—	—	—	—	—	—	—	—	—	1
16"	—	—	—	—	—	—	—	—	—	1

Use chart above

Use joint restraint calculator at www.harcofittings.com

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

UTILITY PRICE LIST

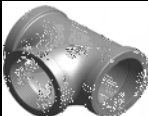
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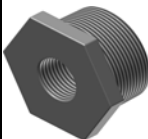
EFFECTIVE NOVEMBER 1, 2018

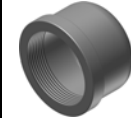
PAGE 14 OF 21

HARCO DUCTILE IRON THREADED FITTINGS

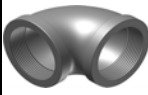
Discount Category E

TEE	SIZE	PART NUMBER	WT	LIST PRICE
	1½	88115	2	\$23.10
	2	88120	3	\$34.10
	2½	88125	5	\$73.70
	3	88130	7	\$94.60

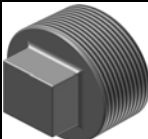
BUSHING	SIZE	PART NUMBER	WT	LIST PRICE
	1¼ x 1	8851210	1	\$9.90
	1½ x 1	8851510	1	\$9.90
	1½ x 1¼	8851512	1	\$12.10
	2 x 1	8852010	1	\$12.10
	2 x 1¼	8852012	1	\$12.10
	2 x 1½	8852015	1	\$12.10
	2½ x 1½	8852515	1	\$17.60
	2½ x 2	8852520	1	\$17.60
	3 x 2	8853020	1	\$20.90
	3 x 2½	8853025	2	\$18.70

CAP	SIZE	PART NUMBER	WT	LIST PRICE
	1½	88403	1	\$17.60
	2	88404	1	\$20.90
	2½	88405	2	\$50.60
	3	88406	3	\$67.10

COUPLING	SIZE	PART NUMBER	WT	LIST PRICE
	1½	88015	1	\$13.20
	2	88020	1	\$18.70
	2½	88025	3	\$31.90
	3	88030	3	\$37.40

90° BEND	SIZE	PART NUMBER	WT	LIST PRICE
	1½	88215	1	\$17.60
	2	88220	2	\$23.10
	2½	88225	4	\$50.60
	3	88230	5	\$73.70

45° BEND	SIZE	PART NUMBER	WT	LIST PRICE
	1½	88315	1	\$23.10
	2	88320	2	\$26.40
	2½	88325	3	\$62.70
	3	88330	5	\$83.60

PLUG	SIZE	PART NUMBER	WT	LIST PRICE
	1	88102	1	\$7.70
	1½	88103	1	\$9.90
	2	88104	1	\$12.10
	2½	88105	1	\$13.20
	3	88106	2	\$17.60

UNION	SIZE	PART NUMBER	WT	LIST PRICE
	1½	88615	2	\$61.60
	2	88620	3	\$78.10
	2½	88625	4	\$139.70
	3	88630	5	\$169.40

NIPPLE (Male NPT x Male NPT)		T.O.E. Nipples available 		
SIZE	PART NUMBER	WT	LIST PRICE	
1½ x Close	87015-00	1	\$9.90	
1½ x 2	87015-02	1	\$9.90	
1½ x 3	87015-03	2	\$11.00	
1½ x 4	87015-04	2	\$12.10	
1½ x 6	87015-06	3	\$17.60	
1½ x 8	87015-08	4	\$24.20	
1½ x 10	87015-10	5	\$29.70	
1½ x 12	87015-12	5	\$35.20	
1½ x 14	87015-14	6	\$41.80	
1½ x 16	87015-16	7	\$48.40	
1½ x 18	87015-18	8	\$56.10	
1½ x 20	87015-20	9	\$64.90	
2 x Close	87020-00	1	\$12.10	
2 x 3	87020-03	2	\$12.10	
2 x 4	87020-04	2	\$15.40	
2 x 6	87020-06	3	\$23.10	
2 x 8	87020-08	5	\$30.80	
2 x 10	87020-10	6	\$37.40	
2 x 12	87020-12	7	\$45.10	
2 x 14	87020-14	8	\$61.60	
2 x 16	87020-16	9	\$67.10	
2 x 18	87020-18	10	\$70.40	
2 x 20	87020-20	12	\$78.10	
2 x 24	87020-24	14	\$94.60	
2 x 30	87020-30	18	\$112.20	
2 x 36	87020-36	21	\$133.10	
2½ x 4	87025-04	3	\$34.10	
2½ x 6	87025-06	4	\$39.60	
2½ x 8	87025-08	6	\$46.20	
2½ x 10	87025-10	7	\$51.70	
2½ x 12	87025-12	9	\$67.10	
2½ x 14	87025-14	10	\$67.10	
2½ x 16	87025-16	11	\$73.70	
2½ x 18	87025-18	13	\$81.40	
2½ x 20	87025-20	14	\$89.10	
3 x Close	87030-00	2	\$34.10	
3 x 3	87030-03	3	\$35.20	
3 x 4	87030-04	4	\$35.20	
3 x 6	87030-06	5	\$42.90	
3 x 8	87030-08	7	\$50.60	
3 x 10	87030-10	9	\$61.60	
3 x 12	87030-12	11	\$75.90	
3 x 14	87030-14	13	\$75.90	
3 x 16	87030-16	14	\$83.60	
3 x 18	87030-18	16	\$92.40	
3 x 20	87030-20	18	\$101.20	

UTILITY PRICE LIST

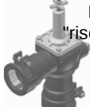
HARCO VALVES

For Swivel Lateral Connection Fittings. See page 9. Useful in effluent sprayfield systems.

LATERAL ISOLATION VALVE

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

Outlet Size x Main to Lateral Rise

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	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	\$46.20		LIV Bonnet Assembly, 2" & 2½"	841-03	5.0	\$192.50
	LIV Square Operating Nut	841-12	1.8	\$19.80		LIV Bonnet Assembly, 3" & 4"	8413-03	9.0	\$323.40
	2" Grip Ring Assembly	8411-04	0.8	\$19.80		2" Gasket	85102	0.1	\$4.40
	2½" Grip Ring Assembly	8412-04	0.8	\$24.20		2½" Gasket	851025	0.1	\$4.40
	3" Grip Ring Assembly	8413-04	0.9	\$28.60		3" Gasket	85103	0.1	\$5.50
	4" Grip Ring Assembly	8414-04	0.9	\$33.00		4" Gasket	85104	0.2	\$5.50

HARCO PUSH JOINT DUCTILE IRON SEWER FITTINGS

Discount Category G

Harco DI Sewer Fittings are for gravity sewer systems using various types of pipes, including:

- **Sewer:** PVC Pipe to ASTM D3034
- **DIPS:** PVC Pipe to AWWA C900 and DI Pipe to AWWA C900
- **IPS:** PVC Pipe to ASTM D2665, D1785, D2241

Sewer: PVC Sewer Pipe
DIPS: C900 PVC or Ductile Iron Pipe
IPS: PVC DWV, Sch 40 & 80, SDR Pressure Pipe
* Currently assembled from two components

		TEE-WYE (GxGxG)									
			Sewer x Sewer			Sewer x DIPS			DIPS x Sewer		
SIZE	COATING		PART #	WT	LIST	PART #	WT	LIST	PART #	WT	LIST
6 x 4	Bituminous		280522-0604		\$151.80						
	Cement		280522-0604C	28	\$160.60						
	Coal Tar		280522-0604T		\$176.00						
	Protecto 401		280522-0604P		\$368.50						
8 x 4	Bituminous		280522-0804		\$211.20	280523-0804		\$280.50	280532-0804		\$364.10
	Cement		280522-0804C	41	\$223.30	280523-0804C	41	\$294.80	280532-0804C	74	\$382.80
	Coal Tar		280522-0804T		\$243.10	280523-0804T		\$323.40	280532-0804T		\$419.10
	Protecto 401		280522-0804P		\$426.80	280523-0804P		\$712.80	280532-0804P		\$796.40
8 x 6	Bituminous		280522-0806		\$267.30	280523-0806		\$311.30	280532-0806		\$311.30
	Cement		280522-0806C	49	\$281.60	280523-0806C	49	\$325.60	280532-0806C	63	\$325.60
	Coal Tar		280522-0806T		\$306.90	280523-0806T		\$358.60	280532-0806T		\$358.60
	Protecto 401		280522-0806P		\$482.90	280523-0806P		\$525.80	280532-0806P		\$525.80

WYE (GxGxG)											
	SIZE	COATING	Sewer x Sewer			DIPS x DIPS			DIPS x Sewer		
			PART #	WT	LIST	PART #	WT	LIST	PART #	WT	LIST
	4 x 4	Bituminous	280122-0404		\$117.70						
		Cement	280122-0404C	21	\$124.30						
		Coal Tar	280122-0404T		\$136.40						
		Protecto 401	280122-0404P		\$333.30						
	6 x 4	Bituminous	280122-0604		\$166.10						
		Cement	280122-0604C	30	\$172.70						
		Coal Tar	280122-0604T		\$190.30						
		Protecto 401	280122-0604P		\$380.60						
	6 x 6	Bituminous	280122-0606		\$205.70						
		Cement	280122-0606C	39	\$216.70						
		Coal Tar	280122-0606T		\$236.50						
		Protecto 401	280122-0606P		\$421.30						
	8 x 4	Bituminous	280122-0804		\$227.70	280133-0804		\$382.80	280132-0804		\$359.70
		Cement	280122-0804C	44	\$239.80	280133-0804C	64	\$403.70	280132-0804C	62	\$378.40
		Coal Tar	280122-0804T		\$262.90	280133-0804T		\$441.10	280132-0804T		\$414.70
		Protecto 401	280122-0804P		\$444.40	280133-0804P		\$622.60	280132-0804P		\$599.50
	8 x 6	Bituminous	280122-0806		\$299.20	280133-0806		\$427.90	280132-0806		\$387.20
		Cement	280122-0806C	54	\$314.60	280133-0806C	76	\$449.90	280132-0806C	73	\$407.00
		Coal Tar	280122-0806T		\$344.30	280133-0806T		\$493.90	280132-0806T		\$445.50
		Protecto 401	280122-0806P		\$514.80	280133-0806P		\$860.20	280132-0806P		\$818.40

UTILITY PRICE LIST

HARCO PUSH JOINT DUCTILE IRON SEWER FITTINGS

		TEE (GxGxG)			
		DIPS x DIPS		DIPS x DIPS	
SIZE	COATING	PART #	WT	PART #	WT
8 x 4	Cement	281233-0804C	93	281233-0804C	93
8 x 6	Cement	281233-0806C	103	281233-0806C	103
8 x 8	Cement	281233-0808C	109	281233-0808C	109

		45° BEND (GxS)											
		Sewer x Sewer				DIPS x DIPS				IPS x IPS			
SIZE	COATING	PART #	WT	LIST		PART #	WT	LIST		PART #	WT	LIST	
4	Bituminous	282322-040		\$62.70		282333-040		\$97.90		282311-040		\$77.00	
	Cement	282322-040C	11	\$67.10		282333-040C	15	\$103.40		282311-040C	14	\$81.40	
	Coal Tar	282322-040T		\$72.60		282333-040T		\$113.30		282311-040T		\$89.10	
	Protecto 401	282322-040P		\$278.30		282333-040P		\$309.10		282311-040P		\$288.20	
6	Bituminous	282322-060		\$113.30									
	Cement	282322-060C	20	\$119.90		282333-060C	34	\$295.90					
	Coal Tar	282322-060T		\$130.90		282333-060T		\$325.60					
	Protecto 401	282322-060P		\$330.00		282333-060P		\$814.00					
8	Bituminous												
	Cement					282333-080C	48	\$358.60					
	Coal Tar					282333-080T		\$394.90					
	Protecto 401					282333-080P		\$986.70					

45° BEND (GxG)														
	Sewer x Sewer				Sewer x DIPS				DIPS x DIPS				IPS x IPS	
	SIZE	COATING	PART #	WT	LIST	PART #	WT	LIST	PART #	WT	LIST	PART #	WT	LIST
4		Bituminous	282222-040		\$62.70	282223-040		\$132.00				80422		\$99.00
		Cement	282222-040C	11	\$67.10	282223-040C	11	\$139.70		22	\$108.90	80422C	13	\$104.50
		Coal Tar	282222-040T		\$72.60	282223-040T		\$151.80			\$154.00	80422T		\$114.40
		Protecto 401	282222-040P		\$278.30	282223-040P		\$640.20			\$352.00	80422P		\$314.60
6		Bituminous	282222-060		\$113.30	282223-060		\$139.70				80622		\$161.70
		Cement	282222-060C	20	\$119.90	282223-060C	20	\$147.40		38	\$157.30	80622C	23	\$170.50
		Coal Tar	282222-060T		\$130.90	282223-060T		\$160.60			\$198.00	80622T		\$187.00
		Protecto 401	282222-060P		\$330.00	282223-060P		\$354.20			\$396.00	80622P		\$378.40
8		Bituminous												
		Cement								54	\$247.50			
		Coal Tar									\$297.00			
		Protecto 401									\$489.50			

Sewer: PVC Sewer Pipe

DIPS: C900 PVC or Ductile Iron Pipe

IPS: PVC DWV, Sch 40 & 80, SDR Pressure Pipe

* Currently assembled from two components

Discount Category G

UTILITY PRICE LIST

HARCO PUSH JOINT DUCTILE IRON SEWER FITTINGS

90° BEND (GxG)									
SIZE	COATING	Sewer x Sewer			DIPS x DIPS			IPS x IPS	
		PART #	WT	LIST	PART #	WT	LIST	PART #	WT LIST
4	Bituminous	282022-040		\$70.40				80420	
	Cement	282022-040C	13	\$74.80	282033-040C	26	\$117.70	80420C	15 \$113.30
	Coal Tar	282022-040T		\$81.40	282033-040T		\$129.80	80420T	\$124.30
	Protecto 401	282022-040P		\$286.00	282033-040P		\$449.90	80420P	\$323.40
6	Bituminous	282022-060		\$119.90				80620	
	Cement	282022-060C	23	\$126.50	282033-060C	44	\$187.00	80620C	27 \$225.50
	Coal Tar	282022-060T		\$138.60	282033-060T		\$205.70	80620T	\$247.50
	Protecto 401	282022-060P		\$334.40	282033-060P		\$493.90	80620P	\$430.10
8	Bituminous				282033-080C		\$291.50		
	Cement				282033-080T	71	\$321.20		
	Coal Tar				282033-080P		\$770.00		
	Protecto 401								

ADAPTER (GxS)									
SIZE	COATING	DIPS x Sewer			Sewer x DIPS			IPS x Sewer	
		PART #	WT	LIST	PART #	WT	LIST	PART #	WT LIST
4	Bituminous	2836-040		\$70.40				2835-040	
	Cement	2836-040C	11	\$74.80				2835-040C	8 \$50.60
	Coal Tar	2836-040T		\$81.40				2835-040T	\$53.90
	Protecto 401	2836-040P		\$286.00				2835-040P	\$262.90
6	Bituminous	2836-060		\$119.90				2835-060	
	Cement	2836-060C	18	\$126.50				2835-060C	15 \$77.00
	Coal Tar	2836-060T		\$138.60				2835-060T	\$81.40
	Protecto 401	2836-060P		\$334.40				2835-060P	\$89.10
8	Bituminous				2834-080		\$187.00		
	Cement				2834-080C	26	\$196.90		
	Coal Tar				2834-080T		\$215.60		
	Protecto 401				2834-080P		\$401.50		
10	Bituminous				2834-100		\$211.20		
	Cement				2834-100C	39	\$229.90		
	Coal Tar				2834-100T		\$264.00		
	Protecto 401				2834-100P		\$498.30		
12	Bituminous				2834-120		\$266.20		
	Cement				2834-120C	54	\$290.40		
	Coal Tar				2834-120T		\$333.30		
	Protecto 401				2834-120P		\$695.20		

Discount Category G

CONCENTRIC INCREASER (GxS)				
SIZE	COATING	Sewer x Sewer		
		PART #	WT	LIST
4 x 6	Bituminous	2816-0406		\$56.10
	Cement	2816-0406C	11	\$58.30
	Coal Tar	2816-0406T		\$63.80
	Protecto 401	2816-0406P		\$271.70

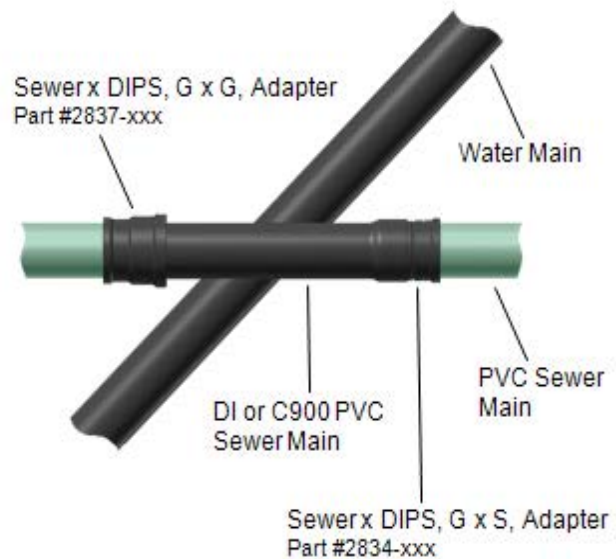
ADAPTER (GxG)				
SIZE	COATING	Sewer x DIPS		
		PART #	WT	LIST
6	Bituminous	2837-060		\$121.00
	Cement	2837-060C	20	\$127.60
	Coal Tar	2837-060T		\$139.70
	Protecto 401	2837-060P		\$335.50
8	Bituminous	2837-080		\$187.00
	Cement	2837-080C	32	\$196.90
	Coal Tar	2837-080T		\$215.60
	Protecto 401	2837-080P		\$402.60
10	Bituminous	2837-100		\$201.30
	Cement	2837-100C	51	\$211.20
	Coal Tar	2837-100T		\$240.90
	Protecto 401	2837-100P		\$456.50
12	Bituminous	2837-120		\$254.10
	Cement	2837-120C	67	\$265.10
	Coal Tar	2837-120T		\$305.80
	Protecto 401	2837-120P		\$638.00

Sewer: PVC Sewer Pipe
DIPS: C900 PVC or Ductile Iron Pipe
IPS: PVC DWV, Sch 40 & 80, SDR Pressure Pipe
* Currently assembled from two components

HARCO PUSH JOINT DUCTILE IRON SEWER FITTINGS

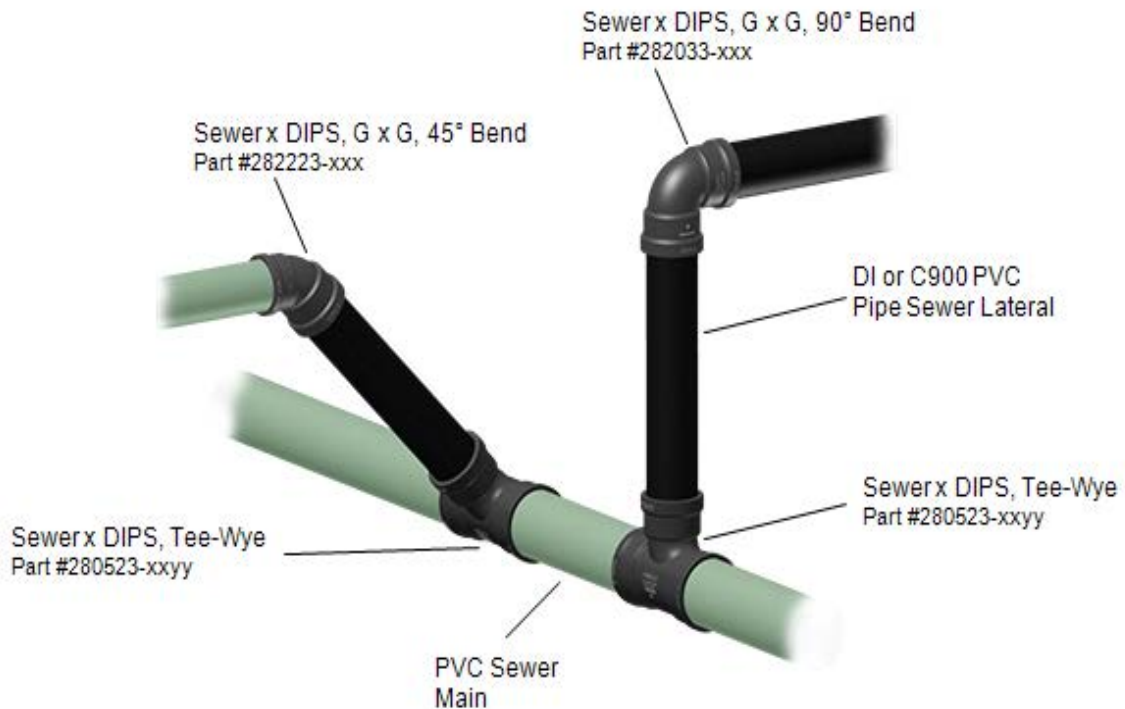
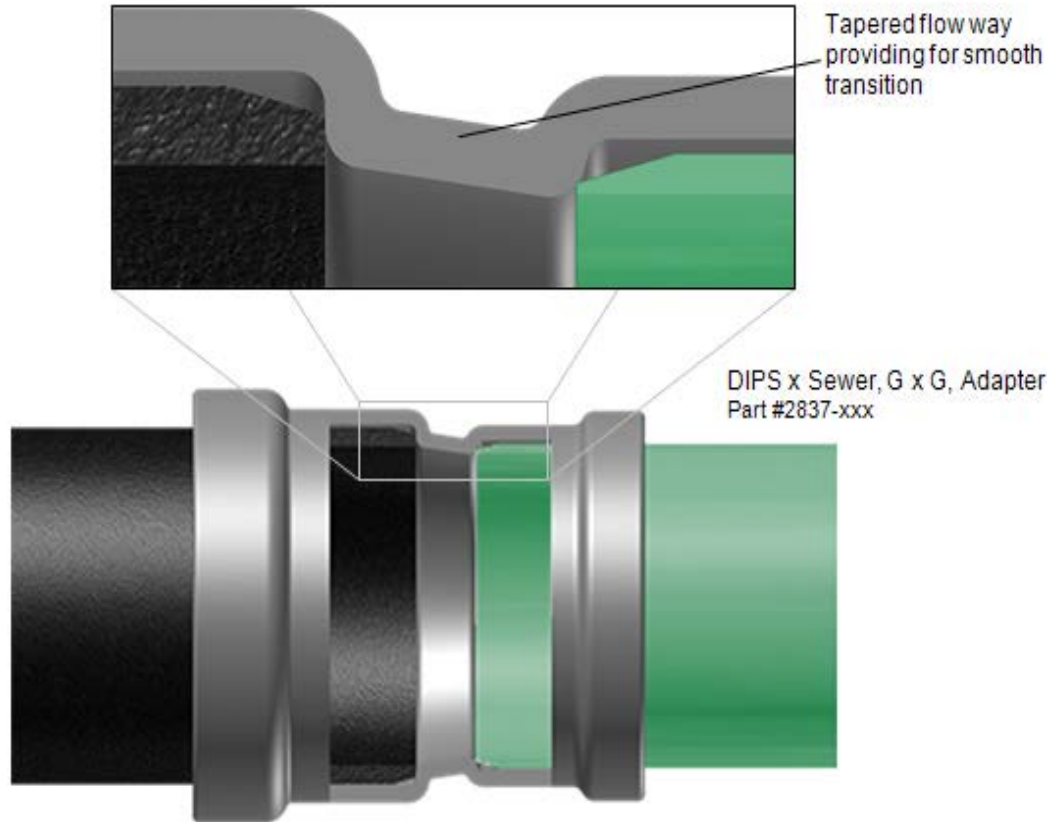
TYPICAL USES

Discount Category G



HARCO PUSH JOINT DUCTILE IRON SEWER FITTINGS

Discount Category G



NOTES

Notes

UTILITY PRICE LIST

NOTES

Notes

NOTES

Notes

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.

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