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EDULE 40 **CONNECT** STEEL  
FITTINGS **WITH** BLACK IRO  
D CROSS **QUALITY** RED BR



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We offer one of the most extensive selections of black and galvanized malleable iron fittings in the industry. Available in 13 diameters from 1/8" to 6", every fitting is produced to exact specifications. All galvanized products are zinc-coated for water applications and meet all low-lead requirements. In addition, all of our iron fittings undergo our rigorous testing and quality inspections.



## 01 Malleable Fittings

Black Iron | Galvanized Steel



## 02 Black & Galvanized Nipples

Schedule 40, 80 & 160 | Welded & Seamless  
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## 03 Red Brass Fittings & Nipples

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## 04 Product Specifications

Finish Specs | Pressure Specs

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## SECTION 01 MALLEABLE FITTINGS

We offer one of the most extensive selections of black and galvanized malleable iron fittings in the industry. Available in 13 diameters from 1/8" to 6", every fitting is produced to exact specifications. All galvanized products are zinc-coated for water applications and meet all low-lead requirements. In addition, all of our iron fittings undergo our rigorous testing and quality inspections.

### 150# Black & Galv. Fittings.....004

- Elbows
- Tees
- Locknuts
- Crosses
- Couplings
- Caps
- Flanges
- Unions
- Plugs



# BLACK & GALVANIZED FITTINGS | MALLEABLE FITTINGS



**90° Elbow**  
150# Malleable Iron Threaded Fittings  
FIP x FIP

## BULK PART NUMBER

Size	Black	Galvanized	Inner	MC
1/8	520-000	510-000	50	600
1/4	520-001	510-001	35	420
3/8	520-002	510-002	45	270
1/2	520-003	510-003	50	200
3/4	520-004	510-004	35	105
1	520-005	510-005	20	60
1-1/4	520-006	510-006	20	40
1-1/2	520-007	510-007	15	30
2	520-008	510-008	8	32
2-1/2	520-009	510-009	-	13
3	520-010	510-010	-	7
4	520-011	510-011	2	6
6	520-013	510-013	-	2

## BARCODED PART NUMBER

Size	Black	Galvanized	Inner	MC
1/8	520-000HC	510-000HC	-	25
1/4	520-001HN	510-001HN	-	10
3/8	520-002HN	510-002HN	-	5
1/2	520-003HN	510-003HN	-	25
3/4	520-004HN	510-004HN	-	25
1	520-005HN	510-005HN	-	10
1-1/4	520-006HN	510-006HN	-	5
1-1/2	520-007HN	510-007HN	-	5
2	520-008HN	510-008HN	-	4
2-1/2	520-009BC	510-009BC	-	20
3	520-010BC	510-010BC	-	7
4	520-011BC	510-011BC	2	6
6	-	-	-	-



**90° Reducing Elbow**  
150# Malleable Iron Threaded Fittings  
FIP x FIP

## BULK PART NUMBER

Size	Black	Galvanized	Inner	MC
1/4 X 1/8	520-110	-	60	360
3/8 X 1/4	520-121	-	60	360
1/2 X 1/4	520-131	-	40	240
1/2 X 3/8	520-132	510-132	50	200
3/4 X 1/4	520-141	-	50	150
3/4 X 1/2	520-143	510-143	40	120
1 X 1/2	520-144	510-144	30	90
1 X 3/4	520-154	510-154	25	75
1-1/4 X 1/2	520-163	-	35	70
1-1/4 X 3/4	520-164	510-164	30	60
1-1/4 X 1	520-165	510-165	20	40
1-1/2 X 3/4	520-174	-	15	45
1-1/2 X 1	520-157	510-157	20	40
1-1/2 X 1-1/4	520-176	510-176	15	60
2 X 1/2	520-183	-	15	60
2 X 3/4	520-184	-	15	30
2 X 1	520-185	510-185	14	28
2 X 1-1/4	520-186	510-186	10	40
2 X 1-1/2	520-187	510-187	10	40
2-1/2 X 1-1/4	520-196	-	-	15
2-1/2 X 1-1/2	520-197	-	-	15
2-1/2 X 2	520-198	510-198	5	15
3 X 2	520-118	510-118	-	10
3 X 2-1/2	520-119	-	-	8
4 X 2	520-111	-	-	6

## BARCODED PART NUMBER

Size	Black	Galvanized	Inner	MC
1/4 X 1/8	-	-	-	-
3/8 X 1/4	520-121HC	510-121HC	-	25
1/2 X 1/4	520-131HC	-	-	25
1/2 X 3/8	520-132HN	510-132HN	-	10
3/4 X 1/4	520-142HC	-	-	15
3/4 X 1/2	520-143HN	510-143HN	-	10
1 X 1/2	520-144HP	510-144HP	-	10
1 X 3/4	520-154HN	510-154HN	-	5
1-1/4 X 1/2	-	-	-	-
1-1/4 X 3/4	520-164HC	510-164HC	-	8
1-1/4 X 1	520-165HP	510-165HN	-	8 / 5
1-1/2 X 3/4	520-174HC	-	-	10
1-1/2 X 1	520-157HC	510-157HC	-	10
1-1/2 X 1-1/4	520-176HC	510-176HC	-	10
2 X 1/2	-	-	-	-
2 X 3/4	-	-	-	-
2 X 1	520-185HC	510-185HC	-	8
2 X 1-1/4	520-186HC	510-186HC	-	8
2 X 1-1/2	520-187HC	510-187HC	-	8
2-1/2 X 1-1/4	-	-	-	-
2-1/2 X 1-1/2	-	-	-	-
2-1/2 X 2	-	-	-	-
3 X 2	-	-	-	-
3 X 2-1/2	-	-	-	-
4 X 2	-	-	-	-



**45° Elbow**  
**150# Malleable Iron Threaded Fittings**  
FIP x FIP

**BULK PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/8	520-200	510-200	50	600
1/4	520-201	510-201	35	420
3/8	520-202	510-202	50	300
1/2	520-203	510-203	50	200
3/4	520-204	510-204	40	120
1	520-205	510-205	20	60
1-1/4	520-206	510-206	20	80
1-1/2	520-207	510-207	15	60
2	520-208	510-208	9	36
2-1/2	520-209	510-209	12	24
3	520-210	510-210	5	15
4	520-211	510-211	3	6
6	520-213	-	-	2

**BARCODED PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/8	520-200HC	510-200HC	-	25
1/4	520-201HC	510-201HC	-	25
3/8	520-202HN	510-202HC	0	5 / 25
1/2	520-203HN	510-203HP	0	10 / 5
3/4	520-204HN	510-204HN	-	10
1	520-205HN	510-205HN	-	5
1-1/4	520-206HN	510-206HN	-	5
1-1/2	520-207HN	510-207HN	-	5
2	520-208HN	510-208HN	-	3
2-1/2	520-209BC	510-209BC	8	16
3	520-210BC	510-210BC	5	15
4	520-211BC	510-211BC	3	6
6	-	-	-	-



**90° Street Elbow**  
**150# Malleable Iron Threaded Fittings**  
MIP x FIP

**BULK PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/8	520-300	510-300	50	600
1/4	520-301	510-301	35	420
3/8	520-302	510-302	40	240
1/2	520-303	510-303	60	180
3/4	520-304	510-304	35	105
1	520-305	510-305	30	60
1-1/4	520-306	510-306	18	72
1-1/2	520-307	510-307	18	54
2	520-308	510-308	10	30
2-1/2	520-309	510-309	9	18
3	520-310	510-310	-	7
4	520-311	510-311	2	6

**BARCODED PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/8	520-300HC	510-300HC	-	25
1/4	520-301HN	510-301HN	-	10
3/8	520-302HN	510-302HN	-	5
1/2	520-303HN	510-303HN	-	15
3/4	520-304HN	510-304HP	-	15 / 10
1	520-305HN	510-305HN	-	5
1-1/4	520-306HN	510-306HN	-	5
1-1/2	520-307HP	510-307HN	-	5
2	520-308HN	510-308HN	-	4
2-1/2	520-309BC	510-309BC	9	18
3	520-310BC	510-310BC	-	7
4	520-311BC	510-311BC	2	6





**45° Street Elbow**  
 150# Malleable Iron Threaded Fittings  
 MIP x FIP

**BULK PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/8	520-500	-	50	1,200
1/4	520-501	510-501	35	420
3/8	520-502	510-502	50	300
1/2	520-503	510-503	40	240
3/4	520-504	510-504	60	120
1	520-505	510-505	25	75
1-1/4	520-506	510-506	20	80
1-1/2	520-507	510-507	15	60
2	520-508	510-508	9	36
2-1/2	520-509	510-509	-	13
3	520-510	510-510	3	9
4	520-511	510-511	-	7

**BARCODED PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/8	520-500HC	510-500HC	-	25
1/4	520-501HC	510-501HC	-	25
3/8	520-502HP	510-502HC	0	5 / 25
1/2	520-503HN	510-503HP	-	5
3/4	520-504HN	510-504HN	-	5
1	520-505HN	510-505HC	0	5 / 15
1-1/4	520-506HC	510-506HC	-	10
1-1/2	520-507HC	510-507HC	-	10
2	520-508HC	510-508HC	-	8
2-1/2	520-509BC	510-509BC	-	13
3	520-510BC	510-510BC	3	9
4	520-511BC	510-511BC	-	7



**Side Outlet Elbow**  
 150# Malleable Iron Threaded Fittings  
 FIP x FIP x FIP

**BULK PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/2	520-803	-	45	135
3/4	520-804	-	40	80
1	520-805	-	20	80

**BARCODED PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/2	-	510-803HN	-	10
3/4	-	510-804HN	-	10
1	-	510-805HN	-	10





**Tee**  
**150# Malleable Iron Threaded Fittings**  
FIP x FIP x FIP

**BULK PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/8	520-600	-	75	450
1/4	520-601	510-601	50	300
3/8	520-602	510-602	45	180
1/2	520-603	510-603	40	120
3/4	520-604	510-604	35	70
1	520-605	510-605	20	40
1-1/4	520-606	510-606	14	28
1-1/2	520-607	510-607	-	23
2	520-608	510-608	5	15
2-1/2	520-609	510-609	-	9
3	520-610	510-610	-	6
4	520-611	510-611	-	3
6	520-613	-	-	2

**BARCODED PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/8	520-600HC	510-600HC	-	25
1/4	520-601HN	510-601HN	-	10
3/8	520-602HN	510-602HN	-	5
1/2	520-603HN	510-603HN	-	25
3/4	520-604HN	510-604HN	-	15
1	520-605HN	510-605HN	-	5
1-1/4	520-606HN	510-606HN	-	5
1-1/2	520-607HN	510-607HN	-	3
2	520-608HN	510-608HN	-	4
2-1/2	520-609BC	510-609BC	-	9
3	520-610BC	510-610BC	-	6
4	520-611BC	510-611BC	-	3
6	-	-	-	-





# BLACK & GALVANIZED FITTINGS | MALLEABLE FITTINGS



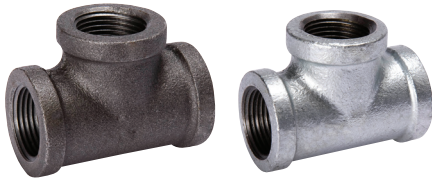
**2-Way Reducing Tee**  
**150# Malleable Iron Threaded Fittings**  
 FIP x FIP

## BULK PART NUMBER

Size	Black	Galvanized	Inner	MC
1/2 X 1/4	520-331	-	50	150
1/2 X 3/8	520-322	-	45	135
3/4 X 1/4	520-444	-	50	100
3/4 X 3/8	520-442	-	45	90
3/4 X 1/2	520-743	510-743	45	90
1 X 1/4	520-551	-	25	100
1 X 3/8	520-552	-	20	60
1 X 1/2	520-753	510-753	20	60
1 X 3/4	520-754	510-754	25	50
1-1/4 X 3/8	520-662	-	16	64
1-1/4 X 1/2	520-663	510-663	16	64
1-1/4 X 3/4	520-664	510-664	18	36
1-1/4 X 1	520-765	510-765	16	32
1-1/2 X 3/8	520-772	-	18	36
1-1/2 X 1/2	520-773	510-773	18	36
1-1/2 X 3/4	520-774	510-774	15	30
1-1/2 X 1	520-766	510-775	13	26
1-1/2 X 1-1/4	520-776	510-776	-	23
2 X 1/2	520-783	510-783	10	40
2 X 3/4	520-884	510-884	9	36
2 X 1	520-785	510-785	9	18
2 X 1-1/4	520-886	510-886	8	16
2 X 1-1/2	520-787	510-787	8	16
2-1/2 X 1/2	520-993	-	8	24
2-1/2 X 3/4	520-994	-	10	20
2-1/2 X 1	520-995	-	9	18
2-1/2 X 1-1/4	520-996	-	9	18
2-1/2 X 1-1/2	520-997	-	9	18
2-1/2 X 2	520-998	-	-	10
3 X 3/4	520-934	-	-	9
3 X 1	520-935	-	6	12
3 X 1-1/4	520-936	-	6	12
3 X 1-1/2	520-937	-	6	12
3 X 2	520-338	-	6	12
3 X 2-1/2	520-939	-	-	6
4 X 1	520-945	-	4	8
4 X 1-1/4	520-946	-	4	8
4 X 1-1/2	520-947	-	4	8
4 X 2	520-948	-	4	8
4 X 2-1/2	520-949	-	-	6
4 X 3	520-388	-	-	6

## BARCODED PART NUMBER

Size	Black	Galvanized	Inner	MC
1/2 X 1/4	520-331HC	510-331HC	-	15
1/2 X 3/8	520-322HC	510-322HC	-	15
3/4 X 1/4	520-444HC	-	-	45
3/4 X 3/8	520-442HC	-	-	45
3/4 X 1/2	520-743HN	510-743HN	-	10
1 X 1/4	-	-	-	-
1 X 3/8	-	-	-	-
1 X 1/2	520-753HN	510-753HN	-	5
1 X 3/4	520-754HN	510-754HN	-	5
1-1/4 X 3/8	-	-	-	-
1-1/4 X 1/2	520-663HC	-	-	5
1-1/4 X 3/4	520-664HP	510-664HC	-	5
1-1/4 X 1	520-765HC	510-765HN	-	5
1-1/2 X 3/8	-	-	-	-
1-1/2 X 1/2	520-773HC	-	-	4
1-1/2 X 3/4	-	510-774HC	-	15
1-1/2 X 1	520-766HC	510-775HC	-	4
1-1/2 X 1-1/4	520-776HC	510-776HC	-	5
2 X 1/2	-	-	-	-
2 X 3/4	-	-	-	-
2 X 1	520-785HC	510-785HC	-	6
2 X 1-1/4	520-886HP	-	-	5
2 X 1-1/2	520-787HC	510-787HN	-	6 / 5
2-1/2 X 1/2	520-993BC	-	8	24
2-1/2 X 3/4	520-994BC	-	10	20
2-1/2 X 1	520-995BC	-	9	18
2-1/2 X 1-1/4	520-996BC	-	9	18
2-1/2 X 1-1/2	520-997BC	-	-	10
2-1/2 X 2	520-998BC	-	-	10
3 X 3/4	520-934BC	-	-	9
3 X 1	520-935BC	-	6	12
3 X 1-1/4	520-936BC	-	6	12
3 X 1-1/2	520-937BC	-	6	12
3 X 2	520-338BC	-	6	12
3 X 2-1/2	520-939BC	-	-	6
4 X 1	520-945BC	-	4	8
4 X 1-1/4	520-946BC	-	4	8
4 X 1-1/2	520-947BC	-	4	8
4 X 2	520-948BC	-	4	8
4 X 2-1/2	520-949BC	-	3	6
4 X 3	520-388BC	-	3	6



**3-Way Reducing Tee**  
**150# Malleable Iron Threaded Fittings**  
FIP x FIP x FIP

**BULK PART NUMBER**

Size	Black	Galvanized	Inner	MC
3/4 X 1/2 X 1/2	520-433	510-433	45	90
3/4 X 1/2 X 3/4	520-434	510-434	45	90
1 X 1/2 X 1/2	520-533	510-533	20	120
1 X 1/2 X 3/4	520-534	-	25	100
1 X 1/2 X 1	520-793	-	20	60
1 X 3/4 X 1/2	520-543	-	25	100
1 X 3/4 X 3/4	520-544	510-544	25	50
1 X 3/4 X 1	520-794	510-545	25	50
1-1/4 X 1/2 X 1/2	520-633	-	16	64
1-1/4 X 1/2 X 3/4	520-634	-	16	64
1-1/4 X 1/2 X 1	520-635	-	16	64
1-1/4 X 1/2 X 1-1/4	520-636	-	16	64
1-1/4 X 3/4 X 1/2	520-643	-	18	72
1-1/4 X 3/4 X 3/4	520-644	510-644	18	72
1-1/4 X 3/4 X 1	520-645	510-645	16	64
1-1/4 X 3/4 X 1-1/4	520-646	510-646	16	32
1-1/4 X 1 X 1/2	520-653	510-653	18	72
1-1/4 X 1 X 3/4	520-654	510-654	18	72
1-1/4 X 1 X 1	520-655	510-655	18	36
1-1/4 X 1 X 1-1/4	520-656	510-656	18	36
1-1/2 X 1/2 X 3/4	520-734	-	15	60
1-1/2 X 1/2 X 1	520-735	-	13	52
1-1/2 X 1/2 X 1-1/4	520-736	-	11	44
1-1/2 X 1/2 X 1-1/2	520-737	-	18	36
1-1/2 X 3/4 X 1/2	520-748	-	15	60
1-1/2 X 3/4 X 3/4	520-744	510-744	18	36
1-1/2 X 3/4 X 1-1/4	520-746	-	11	44
1-1/2 X 3/4 X 1-1/2	520-747	-	15	30
1-1/2 X 1 X 1/2	520-758	-	13	52
1-1/2 X 1 X 3/4	520-759	-	13	52
1-1/2 X 1 X 1	520-755	510-755	13	52
1-1/2 X 1 X 1-1/4	520-756	-	11	44
1-1/2 X 1 X 1-1/2	520-757	510-757	13	26
1-1/2 X 1-1/4 X 1/2	520-763	-	11	44
1-1/2 X 1-1/4 X 3/4	520-764	-	11	44
1-1/2 X 1-1/4 X 1	520-768	510-768	11	44
1-1/2 X 1-1/4 X 1-1/4	520-769	-	11	44
1-1/2 X 1-1/4 X 1-1/2	520-767	-	11	44
2 X 1/2 X 2	520-838	-	10	20
2 X 3/4 X 3/4	520-844	-	9	36
2 X 3/4 X 2	520-848	510-848	9	18
2 X 1 X 1	520-855	-	9	36
2 X 1 X 1-1/2	520-857	-	8	32
2 X 1 X 2	520-858	510-858	9	18
2 X 1-1/4 X 1	520-865	-	8	32
2 X 1-1/4 X 1-1/4	520-866	-	8	32
2 X 1-1/4 X 1-1/2	520-867	-	8	32
2 X 1-1/4 X 2	520-868	-	8	16
2 X 1-1/2 X 3/4	520-874	-	8	32
2 X 1-1/2 X 1	520-875	-	8	32
2 X 1-1/2 X 1-1/4	520-876	-	8	32
2 X 1-1/2 X 1-1/2	520-877	510-877	8	16
2 X 1-1/2 X 2	520-878	-	8	16

**BARCODED PART NUMBER**

Size	Black	Galvanized	Inner	MC
3/4 X 1/2 X 1/2	520-433HP	510-433HP	-	10
3/4 X 1/2 X 3/4	520-434HP	510-434HP	-	10
1 X 1/2 X 1/2	520-533HN	-	-	10
1 X 1/2 X 3/4	-	-	-	-
1 X 1/2 X 1	520-793HN	-	-	10
1 X 3/4 X 1/2	520-543HN	510-543HC	-	10
1 X 3/4 X 3/4	520-544HN	510-544HP	-	5 / 10
1 X 3/4 X 1	520-794HC	510-545HC	-	10
1-1/4 X 1/2 X 1/2	-	-	-	-
1-1/4 X 1/2 X 3/4	-	-	-	-
1-1/4 X 1/2 X 1	-	-	-	-
1-1/4 X 1/2 X 1-1/4	-	-	-	-
1-1/4 X 3/4 X 1/2	-	-	-	-
1-1/4 X 3/4 X 3/4	-	-	-	-
1-1/4 X 3/4 X 1	-	-	-	-
1-1/4 X 3/4 X 1-1/4	520-646HC	-	-	5
1-1/4 X 1 X 1/2	-	-	-	-
1-1/4 X 1 X 3/4	-	-	-	-
1-1/4 X 1 X 1	-	-	-	-
1-1/4 X 1 X 1-1/4	-	-	-	-
1-1/2 X 1/2 X 3/4	-	-	-	-
1-1/2 X 1/2 X 1	-	-	-	-
1-1/2 X 1/2 X 1-1/4	-	-	-	-
1-1/2 X 1/2 X 1-1/2	-	-	-	-
1-1/2 X 3/4 X 1/2	-	-	-	-
1-1/2 X 3/4 X 3/4	-	-	-	-
1-1/2 X 3/4 X 1-1/4	-	-	-	-
1-1/2 X 3/4 X 1-1/2	-	-	-	-
1-1/2 X 1 X 1/2	-	-	-	-
1-1/2 X 1 X 3/4	-	-	-	-
1-1/2 X 1 X 1	-	-	-	-
1-1/2 X 1 X 1-1/4	-	-	-	-
1-1/2 X 1 X 1-1/2	-	-	-	-
1-1/2 X 1-1/4 X 1/2	-	-	-	-
1-1/2 X 1-1/4 X 3/4	-	-	-	-
1-1/2 X 1-1/4 X 1	-	-	-	-
1-1/2 X 1-1/4 X 1-1/4	-	-	-	-
1-1/2 X 1-1/4 X 1-1/2	-	-	-	-
2 X 1/2 X 2	-	-	-	-
2 X 3/4 X 3/4	-	-	-	-
2 X 3/4 X 2	-	-	-	-
2 X 1 X 1	-	-	-	-
2 X 1 X 1-1/2	-	-	-	-
2 X 1 X 2	-	-	-	-
2 X 1-1/4 X 1	-	-	-	-
2 X 1-1/4 X 1-1/4	-	-	-	-
2 X 1-1/4 X 1-1/2	-	-	-	-
2 X 1-1/4 X 2	-	-	-	-
2 X 1-1/2 X 3/4	-	-	-	-
2 X 1-1/2 X 1	-	-	-	-
2 X 1-1/2 X 1-1/4	-	-	-	-
2 X 1-1/2 X 1-1/2	-	-	-	-
2 X 1-1/2 X 2	-	-	-	-





**Bullhead Tee**  
150# Malleable Iron Threaded Fittings

FIP x FIP x FIP

**BULK PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/2 X 3/4	520-334	510-334	45	90
1/2 X 1	520-335	-	30	120
3/4 X 1	520-445	510-445	25	50
3/4 X 1-1/4	520-446	-	18	72
1 X 1-1/4	520-556	510-556	18	36
1 X 1-1/2	520-557	-	13	52
1 X 2	520-558	-	9	36
1-1/4 X 1-1/2	520-658	-	11	44
1-1/4 X 2	520-659	-	8	32
1-1/2 X 2	520-778	-	8	32

**BARCODED PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/2 X 3/4	520-334HN	510-334HP	-	3 / 5
1/2 X 1	-	-	-	-
3/4 X 1	520-445HC	510-445HC	-	10
3/4 X 1-1/4	-	-	-	-
1 X 1-1/4	520-556HC	-	-	5
1 X 1-1/2	-	-	-	-
1 X 2	-	-	-	-
1-1/4 X 1-1/2	-	-	-	-
1-1/4 X 2	-	-	-	-
1-1/2 X 2	-	-	-	-



**Service Tee**  
150# Malleable Iron Threaded Fittings

FIP x MIP x FIP

**BULK PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/2	520-813	-	45	90
3/4	520-814	510-684	30	60
1	-	510-685	20	20

**BARCODED PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/2	-	-	-	-
3/4	-	510-684HC	-	-
1	-	510-685HC	-	-



**Side Outlet Tee**  
150# Malleable Iron Threaded Fittings

FIP x FIP x FIP x FIP

**BULK PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/2	-	510-813	45	45
3/4	-	510-814	30	30
1	-	510-815	20	20

**BARCODED PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/2	-	-	-	-
3/4	-	-	-	-
1	-	-	-	-







**Lock Nut**  
**150# Malleable Iron Threaded Fittings**  
FIP

**BULK PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/4	-	510-901	125	125
3/8	-	-	-	-
1/2	-	510-903	100	100
3/4	-	510-904	60	60
1	-	510-905	60	60
1-1/4	-	510-906	60	60
1-1/2	-	510-907	40	40
2	-	-	-	-

**BARCODED PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/4	-	510-901HC	-	75
3/8	520-902HC	510-902HC	-	75
1/2	520-903HC	510-903HC	-	40
3/4	520-904HC	510-904HC	-	30
1	520-905HC	510-905HN	-	25 / 10
1-1/4	520-906HC	510-906HC	-	15
1-1/2	520-907HC	510-907HC	-	12
2	520-908HC	510-908HC	-	8



**Cross**  
**150# Malleable Iron Threaded Fittings**  
FIP x FIP x FIP x FIP

**BULK PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/4	521-001	511-001	45	270
3/8	521-002	-	45	135
1/2	521-003	511-003	45	90
3/4	521-004	511-004	30	60
1	521-005	511-005	16	32
1-1/4	521-006	511-006	9	36
1-1/2	521-007	511-007	8	32
2	521-008	511-008	5	20
2-1/2	521-009	-	6	12
3	521-010	511-010	4	8
4	521-011	-	2	4

**BARCODED PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/4	-	-	-	-
3/8	-	511-002HC	-	10
1/2	521-003HC	511-003HN	-	45
3/4	521-004HC	511-004HN	-	30 / 5
1	521-005HC	511-005HC	-	15
1-1/4	521-006HC	511-006HC	-	10
1-1/2	521-007HC	511-007HC	-	9
2	521-008HC	511-008HC	-	5
2-1/2	521-009BC	-	6	12
3	521-010BC	511-010BC	4	8
4	521-011BC	-	2	4



# BLACK & GALVANIZED FITTINGS | MALLEABLE FITTINGS



**Coupling**  
150# Malleable Iron Threaded Fittings  
FIP x FIP

## BULK PART NUMBER

Size	Black	Galvanized	Inner	MC
1/8	521-200	511-200	60	720
1/4	521-201	511-201	40	480
3/8	521-202	511-202	50	300
1/2	521-203	511-203	60	240
3/4	521-204	511-204	50	150
1	521-205	511-205	25	75
1-1/4	521-206	511-206	32	64
1-1/2	521-207	511-207	18	72
2	521-208	511-208	12	24
2-1/2	521-209	511-209	-	16
3	521-210	511-210	-	12
4	521-211	511-211	-	7
6	521-213	511-213	2	4

## BARCODED PART NUMBER

Size	Black	Galvanized	Inner	MC
1/8	521-200HC	511-200HC	-	25
1/4	521-201HN	511-201HN	-	10
3/8	521-202HN	511-202HP	0	10 / 5
1/2	521-203HN	511-203HN	-	25
3/4	521-204HN	511-204HN	-	25
1	521-205HN	511-205HP	0	10 / 5
1-1/4	521-206HN	511-206HN	-	5
1-1/2	521-207HN	511-207HN	-	5
2	521-208HN	511-208HN	-	4
2-1/2	521-209BC	511-209BC	-	16
3	521-210BC	511-210BC	-	12
4	521-211BC	511-211BC	-	7
6	-	-	-	-



**Cap**  
150# Malleable Iron Threaded Fittings  
FIP

## BULK PART NUMBER

Size	Black	Galvanized	Inner	MC
1/8	521-400	-	100	1,200
1/4	521-401	511-401	75	900
3/8	521-402	511-402	60	720
1/2	521-403	511-403	75	450
3/4	521-404	511-404	40	240
1	521-405	511-405	35	140
1-1/4	521-406	511-406	25	100
1-1/2	521-407	511-407	25	75
2	521-408	511-408	18	54
2-1/2	521-409	511-409	-	24
3	521-410	511-410	-	16
4	521-411	511-411	-	10
6	521-413	511-413	-	5

## BARCODED PART NUMBER

Size	Black	Galvanized	Inner	MC
1/8	521-400HC	511-400HC	-	25
1/4	521-401HN	511-401HN	-	10
3/8	521-402HN	511-402HP	0	10 / 5
1/2	521-403HN	511-403HN	-	25
3/4	521-404HN	511-404HN	-	25
1	521-405HN	511-405HP	0	10 / 5
1-1/4	521-406HN	511-406HN	-	5
1-1/2	521-407HN	511-407HN	-	5
2	521-408HN	511-408HN	-	5
2-1/2	521-409BC	511-409BC	-	24
3	521-410BC	511-410BC	-	16
4	521-411BC	511-411BC	-	10
6	-	-	-	-





**Reducing Coupling**  
**150# Malleable Iron Threaded Fittings**

FIP x FIP

**BULK PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/4 X 1/8	521-310	511-310	25	600
3/8 X 1/8	521-320	511-320	30	360
3/8 X 1/4	521-321	511-321	30	360
1/2 X 1/8	521-330	511-330	50	300
1/2 X 1/4	521-331	511-331	50	300
1/2 X 3/8	521-332	511-332	40	240
3/4 X 1/8	521-340	-	35	210
3/4 X 1/4	521-341	511-341	30	180
3/4 X 3/8	521-342	511-342	30	180
3/4 X 1/2	521-343	511-343	60	180
1 X 1/4	521-351	-	25	200
1 X 3/8	521-352	511-352	40	120
1 X 1/2	521-353	511-353	30	120
1 X 3/4	521-354	511-354	30	120
1-1/4 X 3/8	521-362	-	25	75
1-1/4 X 1/2	521-363	511-363	25	75
1-1/4 X 3/4	521-364	511-364	25	75
1-1/4 X 1	521-365	511-365	25	75
1-1/2 X 3/8	521-372	-	20	120
1-1/2 X 1/2	521-373	511-373	20	60
1-1/2 X 3/4	521-374	511-374	30	60
1-1/2 X 1	521-375	511-375	30	60
1-1/2 X 1-1/4	521-376	511-376	25	50
2 X 1/2	521-383	511-383	21	42
2 X 3/4	521-384	511-384	21	42
2 X 1	521-385	511-385	14	28
2 X 1-1/4	521-386	511-386	14	28
2 X 1-1/2	521-387	511-387	14	28
2-1/2 X 1	521-395	511-395	16	32
2-1/2 X 1-1/4	521-396	511-396	16	32
2-1/2 X 1-1/2	521-397	511-397	16	32
2-1/2 X 2	521-398	511-398	16	32
3 X 3/4	521-304	-	-	24
3 X 1	521-305	511-305	12	24
3 X 1-1/4	521-306	511-306	12	24
3 X 1-1/2	521-307	511-307	12	24
3 X 2	521-308	511-308	-	12
3 X 2-1/2	521-309	511-309	-	12
4 X 1	521-325	-	-	9
4 X 1-1/4	521-326	-	-	9
4 X 1-1/2	521-327	-	-	9
4 X 2	521-328	511-328	-	9
4 X 2-1/2	521-329	511-329	-	9
4 X 3	521-300	511-300	-	7
6 X 3	521-323	-	-	4
6 X 4	521-322	-	-	4

**BARCODED PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/4 X 1/8	521-310HC	511-310HC	-	25
3/8 X 1/8	521-320HC	511-320HC	-	30
3/8 X 1/4	521-321HC	511-321HC	-	30
1/2 X 1/8	521-330HC	511-330HC	-	30
1/2 X 1/4	521-331HC	511-331HN	-	30 / 10
1/2 X 3/8	521-332HN	511-332HN	-	15
3/4 X 1/8	-	-	-	-
3/4 X 1/4	521-341HC	511-341HC	-	20
3/4 X 3/8	521-342HC	511-342HC	-	20
3/4 X 1/2	521-343HN	511-343HN	-	15
1 X 1/4	-	-	-	-
1 X 3/8	-	511-352HC	-	10
1 X 1/2	521-353HN	511-353HN	-	5
1 X 3/4	521-354HN	511-354HP	-	10 / 5
1-1/4 X 3/8	-	-	-	-
1-1/4 X 1/2	521-363HC	511-363HC	-	5
1-1/4 X 3/4	521-364HN	511-364HC	-	5
1-1/4 X 1	521-365HN	511-365HN	-	5
1-1/2 X 3/8	-	-	-	-
1-1/2 X 1/2	521-373HC	511-373HC	-	4
1-1/2 X 3/4	521-374HN	511-374HN	-	5
1-1/2 X 1	521-375HC	511-375HN	-	4
1-1/2 X 1-1/4	521-376HN	511-376HN	-	5
2 X 1/2	-	511-383HC	-	5
2 X 3/4	-	511-384HC	-	5
2 X 1	521-385HC	511-385HC	-	5
2 X 1-1/4	521-386HN	511-386HN	-	4
2 X 1-1/2	521-387HN	511-387HN	-	5
2-1/2 X 1	521-395BC	511-395BC	16	32
2-1/2 X 1-1/4	521-396BC	511-396BC	16	32
2-1/2 X 1-1/2	521-397BC	511-397BC	16	32
2-1/2 X 2	521-398BC	511-398BC	16	32
3 X 3/4	521-304BC	-	-	24
3 X 1	521-305BC	511-305BC	12	24
3 X 1-1/4	521-306BC	511-306BC	12	24
3 X 1-1/2	521-307BC	511-307BC	12	24
3 X 2	521-308BC	511-308BC	-	12
3 X 2-1/2	521-309BC	511-309BC	-	12
4 X 1	521-325BC	-	-	9
4 X 1-1/4	521-326BC	-	-	9
4 X 1-1/2	521-327BC	-	-	9
4 X 2	521-328BC	511-328BC	-	9
4 X 2-1/2	521-329BC	511-329BC	-	9
4 X 3	521-300BC	511-300BC	-	9
6 X 3	-	-	-	-
6 X 4	-	-	-	-





**Floor Flange**  
150# Malleable Iron Threaded Fittings  
FIP

**BULK PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/4	-	-	-	-
3/8	521-602	-	35	140
1/2	521-603	511-603	25	100
3/4	521-604	511-604	20	80
1	521-605	511-605	20	60
1-1/4	521-606	511-606	15	45
1-1/2	521-607	511-607	12	36
2	521-608	511-608	8	24
3	521-610	-	12	24

**BARCODED PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/4	521-601HC	511-601HC	-	25
3/8	521-602HP	511-602HP	-	10
1/2	521-603HP	511-603HN	0	18 / 20
3/4	521-604HP	511-604HN	0	18 / 20
1	521-605HN	511-605HN	-	10
1-1/4	521-606HN	511-606HN	-	5
1-1/2	521-607HP	511-607HN	-	5
2	521-608HN	511-608HN	-	4
3	521-610BC	511-610BC	12	24



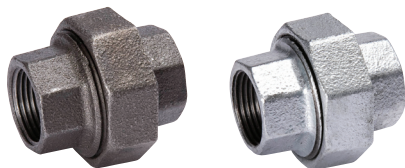
**Extension Pieces**  
150# Malleable Iron Threaded Fittings  
FIP x MIP

**BULK PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/2	521-613	511-613	25	300
3/4	521-614	511-614	60	180

**BARCODED PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/2	-	511-613HC	-	80
3/4	-	511-614HC	-	10



**Union**  
150# Malleable Iron Threaded Fittings  
FIP x FIP

**BULK PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/8	521-700	511-700	20	240
1/4	521-701	511-701	30	180
3/8	521-702	511-702	35	140
1/2	521-703	511-703	25	100
3/4	521-704	511-704	20	60
1	521-705	511-705	15	45
1-1/4	521-706	511-706	15	30
1-1/2	521-707	511-707	10	20
2	521-708	511-708	6	24
2-1/2	521-709	511-709	8	16
3	521-710	511-710	5	10
4	521-711	511-711	3	6

**BARCODED PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/8	521-700HC	511-700HC	-	35
1/4	521-701HN	511-701HC	-	10
3/8	521-702HN	511-702HN	-	5
1/2	521-703HN	511-703HN	-	15
3/4	521-704HN	511-704HN	-	15
1	521-705HN	511-705HN	-	5
1-1/4	521-706HN	511-706HN	-	5
1-1/2	521-707HN	511-707HN	-	4
2	521-708HN	511-708HN	-	3
2-1/2	521-709BC	511-709BC	8	16
3	521-710BC	511-710BC	5	10
4	521-711BC	511-711BC	3	6



**Hex Bushing**  
**150# Malleable Iron Threaded Fittings**

MIP x FIP

**BULK PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/4 X 1/8	521-910	511-910	75	1,800
3/8 X 1/8	521-920	511-920	75	900
3/8 X 1/4	521-921	511-921	75	900
1/2 X 1/8	521-930	511-930	150	600
1/2 X 1/4	521-931	511-931	100	600
1/2 X 3/8	521-932	511-932	100	600
3/4 X 1/8	521-940	511-940	50	300
3/4 X 1/4	521-941	511-941	50	300
3/4 X 3/8	521-942	511-942	50	300
3/4 X 1/2	521-943	511-943	50	300
1 X 1/4	521-951	511-951	50	200
1 X 3/8	521-952	511-952	50	200
1 X 1/2	521-953	511-953	50	200
1 X 3/4	521-954	511-954	50	200
1-1/4 X 1/4	521-961	511-961	30	240
1-1/4 X 3/8	521-962	511-962	30	240
1-1/4 X 1/2	521-963	511-963	30	120
1-1/4 X 3/4	521-964	511-964	30	120
1-1/4 X 1	521-965	511-965	30	120
1-1/2 X 1/2	521-973	511-973	25	75
1-1/2 X 3/4	521-974	511-974	25	75
1-1/2 X 1	521-975	511-975	25	75
1-1/2 X 1-1/4	521-976	511-976	25	150
2 X 1/2	521-983	511-983	20	60
2 X 3/4	521-984	511-984	20	60
2 X 1	521-985	511-985	20	60
2 X 1-1/4	521-986	511-986	20	60
2 X 1-1/2	521-987	511-987	20	60
2-1/2 X 1/2	-	511-993	30	30
2-1/2 X 3/4	521-994	511-994	24	48
2-1/2 X 1	521-995	511-995	24	48
2-1/2 X 1-1/4	521-996	511-996	24	48
2-1/2 X 1-1/2	521-997	511-997	-	28
2-1/2 X 2	521-998	511-998	24	48
3 X 1	521-905	511-905	16	32
3 X 1-1/4	521-906	511-906	16	32
3 X 1-1/2	521-907	511-907	16	32
3 X 2	521-908	511-908	-	16
3 X 2-1/2	521-909	511-909	16	32
4 X 1-1/2	521-917	511-917	10	20
4 X 2	521-918	511-918	10	20
4 X 2-1/2	521-919	511-919	-	10
4 X 3	521-900	511-900	-	10
6 X 2	521-938	511-938	-	10
6 X 3	521-939	-	-	10
6 X 4	521-937	511-937	-	10

**BARCODED PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/4 X 1/8	521-910HC	511-910HC	-	35
3/8 X 1/8	521-920HC	511-920HC	-	35
3/8 X 1/4	521-921HN	511-921HN	-	10
1/2 X 1/8	521-930HC	511-930HC	-	30
1/2 X 1/4	521-931HP	511-931HP	-	10
1/2 X 3/8	521-932HN	511-932HP	-	15 / 5
3/4 X 1/8	521-940HC	511-940HC	-	75
3/4 X 1/4	521-941HC	511-941HN	-	75 / 5
3/4 X 3/8	521-942HP	511-942HN	-	10
3/4 X 1/2	521-943HP	511-943HP	-	15
1 X 1/4	521-951HC	511-951HC	-	25
1 X 3/8	521-952HC	511-952HC	-	25
1 X 1/2	521-953HN	511-953HN	-	10
1 X 3/4	521-954HN	511-954HN	-	10
1-1/4 X 1/4	-	-	-	-
1-1/4 X 3/8	-	511-962HC	-	12
1-1/4 X 1/2	521-963HN	511-963HN	-	5
1-1/4 X 3/4	521-964HN	511-964HN	-	5
1-1/4 X 1	521-965HN	511-965HN	-	5
1-1/2 X 1/2	521-973HN	511-973HC	-	5 / 10
1-1/2 X 3/4	521-974HN	511-974HN	-	5
1-1/2 X 1	521-975HN	511-975HN	-	5
1-1/2 X 1-1/4	521-976HN	511-976HN	-	5
2 X 1/2	521-983HN	511-983HN	-	5
2 X 3/4	521-984HC	511-984HC	-	5
2 X 1	521-985HN	511-985HN	-	5
2 X 1-1/4	521-986HC	511-986HN	-	5
2 X 1-1/2	521-987HN	511-987HN	-	3
2-1/2 X 1/2	-	511-993BC	30	60
2-1/2 X 3/4	521-994BC	511-994BC	24	48
2-1/2 X 1	521-995BC	511-995BC	24	48
2-1/2 X 1-1/4	521-996BC	511-996BC	24	48
2-1/2 X 1-1/2	521-997BC	511-997BC	-	28
2-1/2 X 2	521-998BC	511-998BC	24	48
3 X 1	521-905BC	511-905BC	16	32
3 X 1-1/4	521-906BC	511-906BC	16	32
3 X 1-1/2	521-907BC	511-907BC	16	32
3 X 2	521-908BC	511-908BC	-	16
3 X 2-1/2	521-909BC	511-909BC	16	32
4 X 1-1/2	521-917BC	511-917BC	10	20
4 X 2	521-918BC	511-918BC	10	20
4 X 2-1/2	521-919BC	511-919BC	-	10
4 X 3	521-900BC	511-900BC	-	10
6 X 2	-	-	-	-
6 X 3	-	-	-	-
6 X 4	-	-	-	-





**Square Head Plug**  
 150# Malleable Iron Threaded Fittings  
 MIP

**BULK PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/8	521-700HC	511-700HC	-	35
1/4	521-701HN	511-701HC	-	10
3/8	521-702HN	511-702HN	-	5
1/2	521-703HN	511-703HN	-	15
3/4	521-704HN	511-704HN	-	15
1	521-705HN	511-705HN	-	5
1-1/4	521-706HN	511-706HN	-	5
1-1/2	521-707HN	511-707HN	-	4
2	521-708HN	511-708HN	-	3
2-1/2	521-709BC	511-709BC	8	16
3	521-710BC	511-710BC	5	10
4	521-711BC	511-711BC	3	6
6	-	-	-	-

**BARCODED PART NUMBER**

Size	Black	Galvanized	Inner	MC
1/8	521-800HC	511-800HC	-	25
1/4	521-801HN	511-801HP	-	10
3/8	521-802HN	511-802HP	0	10 / 5
1/2	521-803HN	511-803HN	-	25
3/4	521-804HN	511-804HP	0	20 / 10
1	521-805HN	511-805HP	0	10 / 5
1-1/4	521-806HN	511-806HN	-	5
1-1/2	521-807HN	511-807HN	-	4
2	521-808HN	511-808HN	-	5
2-1/2	521-809BC	511-809BC	-	32
3	521-810BC	511-810BC	-	24
4	521-811BC	511-811BC	-	16
6	-	-	-	-







## **SECTION 02** **BLACK &** **GALVANIZED NIPPLES**

This section lists out our extensive offering for steel nipples and pipe. Each section conveniently lays out the different offerings of each type of nipple in black, galvanized, wholesale and retail.

*For Steel Pipe, Pre-Cut Pipe, Extra-Heavy Nipples, Seamless Nipples, please visit our wholesale literature page at our website: [www.bkproducts.com](http://www.bkproducts.com)*

### **Black & Galv. Nipples .....0018**

- Schedule 40
- Schedule 80
- Schedule 80 Seamless
- Schedule 160 Seamless

### **Nipple Assortments .....031**

- Series 6700

### **Schedule 40 Precut Pipe .....033**



# SCHED. 40 NIPPLES | BLACK & GALVANIZED



## 1/8in Diameter Schedule 40 Nipples

MIP x MIP

### BULK PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	580-001	560-001	25	100
1-1/2in	580-015	560-015	25	100
2in	580-020	560-020	25	100
2-1/2in	580-025	560-025	25	100
3in	580-030	560-030	25	100
3-1/2in	580-035	560-035	25	100
4in	580-040	560-040	25	100
4-1/2in	580-045	560-045	25	100
5in	580-050	560-050	25	100
5-1/2in	580-055	560-055	25	100
6in	580-060	560-060	25	100
7in	580-070	560-070	100	-
8in	580-080	560-080	100	-
9in	580-090	560-090	100	-
10in	580-100	560-100	100	-
11in	580-110	560-110	100	-
12in	580-120	560-120	100	-

### BARCODED PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	580-001HC	560-001HC	10	480
1-1/2in	580-015HC	560-015HC	10	480
2in	580-020HC	560-020HC	10	480
2-1/2in	580-025HC	560-025HC	10	480
3in	580-030HC	560-030HC	10	480
3-1/2in	580-035HC	560-035HC	10	240
4in	580-040HC	560-040HC	10	240
4-1/2in	580-045HC	560-045HC	10	240
5in	580-050HC	560-050HC	10	240
5-1/2in	580-055HC	560-055HC	10	240
6in	580-060HC	560-060HC	10	240
7in	-	-	-	-
8in	580-080HC	560-080HC	25	150
9in	-	-	-	-
10in	580-100HC	560-100HC	25	150
11in	-	-	-	-
12in	580-120HC	560-120HC	25	150

## 1/4in Diameter Schedule 40 Nipples

MIP x MIP

### BULK PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	581-001	561-001	25	100
1-1/2in	581-015	561-015	25	100
2in	581-020	561-020	25	100
2-1/2in	581-025	561-025	25	100
3in	581-030	561-030	25	100
3-1/2in	581-035	561-035	25	100
4in	581-040	561-040	25	100
4-1/2in	581-045	561-045	25	100
5in	581-050	561-050	25	100
5-1/2in	581-055	561-055	25	100
6in	581-060	561-060	25	100
7in	581-070	561-070	100	-
8in	581-080	561-080	100	-
9in	581-090	561-090	100	-
10in	581-100	561-100	100	-
11in	581-110	561-110	100	-
12in	581-120	561-120	100	-

### BARCODED PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	581-001HC	561-001HC	10	480
1-1/2in	581-015HC	561-015HC	10	480
2in	581-020HC	561-020HC	10	480
2-1/2in	581-025HC	561-025HC	10	480
3in	581-030HC	561-030HC	10	480
3-1/2in	581-035HC	561-035HC	10	240
4in	581-040HC	561-040HC	10	240
4-1/2in	581-045HC	561-045HC	10	240
5in	581-050HC	561-050HC	10	240
5-1/2in	581-055HC	561-055HC	10	240
6in	581-060HC	561-060HC	10	240
7in	-	-	-	-
8in	581-080HC	561-080HC	25	150
9in	-	-	-	-
10in	581-100HC	561-100HC	25	150
11in	-	-	-	-
12in	581-120HC	561-120HC	25	150





**3/8in Diameter**  
**Schedule 40 Nipples**

MIP x MIP

**BULK PART NUMBER**

Length	Black	Galvanized	Inner	MC
Close	582-001	562-001	25	100
1-1/2in	582-015	562-015	25	100
2in	582-020	562-020	25	100
2-1/2in	582-025	562-025	25	100
3in	582-030	562-030	25	100
3-1/2in	582-035	562-035	25	100
4in	582-040	562-040	25	100
4-1/2in	582-045	562-045	25	100
5in	582-050	562-050	25	100
5-1/2in	582-055	562-055	25	100
6in	582-060	562-060	25	100
7in	582-070	562-070	75	-
8in	582-080	562-080	75	-
9in	582-090	562-090	75	-
10in	582-100	562-100	75	-
11in	582-110	562-110	75	-
12in	582-120	562-120	75	-

**BARCODED PART NUMBER**

Length	Black	Galvanized	Inner	MC
Close	582-001HC	562-001HC	10	480
1-1/2in	582-015HC	562-015HC	10	480
2in	582-020HC	562-020HC	10	480
2-1/2in	582-025HC	562-025HC	10	480
3in	582-030HC	562-030HC	10	480
3-1/2in	582-035HC	562-035HC	10	240
4in	582-040HC	562-040HC	10	240
4-1/2in	582-045HC	562-045HC	10	240
5in	582-050HC	562-050HC	10	240
5-1/2in	582-055HC	562-055HC	10	240
6in	582-060HC	562-060HC	10	160
7in	582-070HC	562-070HC	25	150
8in	582-080HC	562-080HC	25	150
9in	-	-	-	-
10in	582-100HC	562-100HC	25	75
11in	582-110HC	562-110HC	25	75
12in	582-120HC	562-120HC	25	75

**1/2in Diameter**  
**Schedule 40 Nipples**

MIP x MIP

**BULK PART NUMBER**

Length	Black	Galvanized	Inner	MC
Close	583-001	563-001	25	100
1-1/2in	583-015	563-015	25	100
2in	583-020	563-020	25	100
2-1/2in	583-025	563-025	25	-
3in	583-030	563-030	25	-
3-1/2in	583-035	563-035	25	-
4in	583-040	563-040	25	-
4-1/2in	583-045	563-045	25	-
5in	583-050	563-050	25	-
5-1/2in	583-055	563-055	25	-
6in	583-060	563-060	25	-
7in	583-070	563-070	25	-
8in	583-080	563-080	25	-
9in	583-090	563-090	25	-
10in	583-100	563-100	25	-
11in	583-110	563-110	25	-
12in	583-120	563-120	25	-

**BARCODED PART NUMBER**

Length	Black	Galvanized	Inner	MC
Close	583-001HC	563-001HC	25	600
1-1/2in	583-015HC	563-015HC	25	600
2in	583-020HC	563-020HC	25	400
2-1/2in	583-025HC	563-025HC	25	400
3in	583-030HC	563-030HC	25	200
3-1/2in	583-035HC	563-035HC	25	200
4in	583-040HC	563-040HC	25	150
4-1/2in	583-045HC	563-045HC	25	150
5in	583-050HC	563-050HC	25	200
5-1/2in	583-055HC	563-055HC	25	100
6in	583-060HC	563-060HC	25	100
7in	583-070HC	563-070HC	25	75
8in	583-080HC	563-080HC	25	75
9in	583-090HC	563-090HC	25	75
10in	583-100HC	563-100HC	25	75
11in	583-110HC	563-110HC	25	75
12in	583-120HC	563-120HC	25	75

# SCHED. 40 NIPPLES | BLACK & GALVANIZED



## 3/4in Diameter Schedule 40 Nipples MIP x MIP

### BULK PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	584-001	564-001	25	100
1-1/2in	584-015	564-015	25	100
2in	584-020	564-020	25	-
2-1/2in	584-025	564-025	25	-
3in	584-030	564-030	25	-
3-1/2in	584-035	564-035	25	-
4in	584-040	564-040	25	-
4-1/2in	584-045	564-045	25	-
5in	584-050	564-050	25	-
5-1/2in	584-055	564-055	25	-
6in	584-060	564-060	25	-
7in	584-070	564-070	25	-
8in	584-080	564-080	25	-
9in	584-090	564-090	25	-
10in	584-100	564-100	25	-
11in	584-110	564-110	25	-
12in	584-120	564-120	25	-

### BARCODED PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	584-001HC	564-001HC	25	400
1-1/2in	584-015HC	564-015HC	25	400
2in	584-020HC	564-020HC	25	300
2-1/2in	584-025HC	564-025HC	25	300
3in	584-030HC	564-030HC	25	200
3-1/2in	584-035HC	564-035HC	25	200
4in	584-040HC	564-040HC	25	200
4-1/2in	584-045HC	564-045HC	25	100
5in	584-050HC	564-050HC	25	100
5-1/2in	584-055HC	564-055HC	25	100
6in	584-060HC	564-060HC	25	100
7in	584-070HC	564-070HC	25	50
8in	584-080HC	564-080HC	25	50
9in	584-090HC	564-090HC	25	50
10in	584-100HC	564-100HC	25	50
11in	584-110HC	564-110HC	25	50
12in	584-120HC	564-120HC	25	50

## 1in Diameter Schedule 40 Nipples MIP x MIP

### BULK PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	585-001	565-001	25	-
2in	585-020	565-020	25	-
2-1/2in	585-025	565-025	25	-
3in	585-030	565-030	25	-
3-1/2in	585-035	565-035	25	-
4in	585-040	565-040	25	-
4-1/2in	585-045	565-045	25	-
5in	585-050	565-050	25	-
5-1/2in	585-055	565-055	25	-
6in	585-060	565-060	25	-
7in	585-070	565-070	25	-
8in	585-080	565-080	25	-
9in	585-090	565-090	25	-
10in	585-100	565-100	25	-
11in	585-110	565-110	25	-
12in	585-120	565-120	25	-

### BARCODED PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	585-001HC	565-001HC	10	160
2in	585-020HC	565-020HC	10	160
2-1/2in	585-025HC	565-025HC	10	160
3in	585-030HC	565-030HC	10	160
3-1/2in	585-035HC	565-035HC	10	160
4in	585-040HC	565-040HC	10	120
4-1/2in	585-045HC	565-045HC	10	120
5in	585-050HC	565-050HC	10	80
5-1/2in	585-055HC	565-055HC	10	80
6in	585-060HC	565-060HC	10	80
7in	585-070HC	565-070HC	10	40
8in	585-080HC	565-080HC	10	40
9in	585-090HC	565-090HC	10	40
10in	585-100HC	565-100HC	10	40
11in	585-110HC	565-110HC	10	40
12in	585-120HC	565-120HC	10	40



**1-1/4in Diameter**  
**Schedule 40 Nipples**  
MIP x MIP

<b>BULK PART NUMBER</b>					<b>BARCODED PART NUMBER</b>				
Length	Black	Galvanized	Inner	MC	Length	Black	Galvanized	Inner	MC
Close	586-001	566-001	25	-	Close	586-001HC	566-001HC	5	80
2in	586-020	566-020	25	-	2in	586-020HC	566-020HC	5	80
2-1/2in	586-025	566-025	25	-	2-1/2in	586-025HC	566-025HC	5	80
3in	586-030	566-030	25	-	3in	586-030HC	566-030HC	5	80
3-1/2in	586-035	566-035	25	-	3-1/2in	586-035HC	566-035HC	5	60
4in	586-040	566-040	25	-	4in	586-040HC	566-040HC	5	60
4-1/2in	586-045	566-045	25	-	4-1/2in	586-045HC	566-045HC	5	60
5in	586-050	566-050	25	-	5in	586-050HC	566-050HC	5	60
5-1/2in	586-055	566-055	25	-	5-1/2in	586-055HC	566-055HC	5	60
6in	586-060	566-060	25	-	6in	586-060HC	566-060HC	5	60
7in	586-070	566-070	25	-	7in	586-070HC	566-070HC	5	30
8in	586-080	566-080	25	-	8in	586-080HC	566-080HC	5	30
9in	586-090	566-090	25	-	9in	586-090HC	566-090HC	5	30
10in	586-100	566-100	25	-	10in	586-100HC	566-100HC	5	30
11in	586-110	566-110	10	-	11in	586-110HC	566-110HC	5	30
12in	586-120	566-120	10	-	12in	586-120HC	566-120HC	5	30

**1-1/2in Diameter**  
**Schedule 40 Nipples**  
MIP x MIP

<b>BULK PART NUMBER</b>					<b>BARCODED PART NUMBER</b>				
Length	Black	Galvanized	Inner	MC	Length	Black	Galvanized	Inner	MC
Close	587-001	567-001	25	-	Close	587-001HC	567-001HC	5	80
2in	587-020	567-020	25	-	2in	587-020HC	567-020HC	5	80
2-1/2in	587-025	567-025	25	-	2-1/2in	587-025HC	567-025HC	5	80
3in	587-030	567-030	25	-	3in	587-030HC	567-030HC	5	80
3-1/2in	587-035	567-035	25	-	3-1/2in	587-035HC	567-035HC	5	60
4in	587-040	567-040	25	-	4in	587-040HC	567-040HC	5	60
4-1/2in	587-045	567-045	25	-	4-1/2in	587-045HC	567-045HC	5	20
5in	587-050	567-050	25	-	5in	587-050HC	567-050HC	5	20
5-1/2in	587-055	567-055	25	-	5-1/2in	587-055HC	567-055HC	5	20
6in	587-060	567-060	25	-	6in	587-060HC	567-060HC	5	20
7in	587-070	567-070	10	-	7in	587-070HC	567-070HC	5	20
8in	587-080	567-080	10	-	8in	587-080HC	567-080HC	5	20
9in	587-090	567-090	10	-	9in	587-090HC	567-090HC	5	20
10in	587-100	567-100	10	-	10in	587-100HC	567-100HC	5	20
11in	587-110	567-110	10	-	11in	587-110HC	567-110HC	5	20
12in	587-120	567-120	10	-	12in	587-120HC	567-120HC	5	20

# SCHED. 40 NIPPLES | BLACK & GALVANIZED



## 2in Diameter Schedule 40 Nipples

MIP x MIP

### BULK PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	588-001	568-001	25	-
2-1/2in	588-025	568-025	25	-
3in	588-030	568-030	25	-
3-1/2in	588-035	568-035	25	-
4in	588-040	568-040	25	-
4-1/2in	588-045	568-045	25	-
5in	588-050	568-050	25	-
5-1/2in	588-055	568-055	25	-
6in	588-060	568-060	25	-
7in	588-070	568-070	10	-
8in	588-080	568-080	10	-
9in	588-090	568-090	10	-
10in	588-100	568-100	10	-
11in	588-110	568-110	10	-
12in	588-120	568-120	10	-

### BARCODED PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	588-001HC	568-001HC	5	40
2-1/2in	588-025HC	568-025HC	5	40
3in	588-030HC	568-030HC	5	40
3-1/2in	588-035HC	568-035HC	5	30
4in	588-040HC	568-040HC	5	30
4-1/2in	588-045HC	568-045HC	5	20
5in	588-050HC	568-050HC	5	20
5-1/2in	588-055HC	568-055HC	5	20
6in	588-060HC	568-060HC	5	20
7in	588-070HC	568-070HC	5	20
8in	588-080HC	568-080HC	5	20
9in	588-090HC	568-090HC	5	20
10in	588-100HC	568-100HC	5	20
11in	588-110HC	568-110HC	5	10
12in	588-120HC	568-120HC	5	10

## 3in Diameter Schedule 40 Nipples

MIP x MIP

### BULK PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	590-001	570-001	10	-
3in	590-030	570-030	10	-
3-1/2in	590-035	570-035	10	-
4in	590-040	570-040	10	-
4-1/2in	590-045	570-045	10	-
5in	590-050	570-050	10	-
5-1/2in	590-055	570-055	10	-
6in	590-060	570-060	10	-
7in	590-070	570-070	5	-
8in	590-080	570-080	5	-
9in	590-090	570-090	5	-
10in	590-100	570-100	5	-
11in	590-110	570-110	5	-
12in	590-120	570-120	5	-

### BARCODED PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	-	-	-	-
3in	-	-	-	-
3-1/2in	-	-	-	-
4in	-	-	-	-
4-1/2in	-	-	-	-
5in	-	-	-	-
5-1/2in	-	-	-	-
6in	-	-	-	-
7in	-	-	-	-
8in	-	-	-	-
9in	-	-	-	-
10in	-	-	-	-
11in	-	-	-	-
12in	-	-	-	-



**4in Diameter**  
**Schedule 40 Nipples**  
 MIP x MIP

<b>BULK PART NUMBER</b>					<b>BARCODED PART NUMBER</b>				
Length	Black	Galvanized	Inner	MC	Length	Black	Galvanized	Inner	MC
Close	591-001	571-001	10	-	Close	-	-	-	-
4in	591-040	571-040	6	-	4in	-	-	-	-
4-1/2in	591-045	571-045	6	-	4-1/2in	-	-	-	-
5in	591-050	571-050	6	-	5in	-	-	-	-
5-1/2in	591-055	571-055	5	-	5-1/2in	-	-	-	-
6in	591-060	571-060	5	-	6in	-	-	-	-
7in	591-070	571-070	3	-	7in	-	-	-	-
8in	591-080	571-080	3	-	8in	-	-	-	-
9in	591-090	571-090	3	-	9in	-	-	-	-
10in	591-100	571-100	3	-	10in	-	-	-	-
11in	591-110	571-110	3	-	11in	-	-	-	-
12in	591-120	571-120	3	-	12in	-	-	-	-



# SCHED. 80 NIPPLES | BLACK & GALVANIZED



## 3/8in Diameter Schedule 80 Nipples

MIP x MIP

### BULK PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	582-001X	562-001X	25	-
1-1/2in	582-015X	562-015X	25	-
2in	582-020X	562-020X	25	-
2-1/2in	582-025X	562-025X	25	-
3in	582-030X	562-030X	25	-
3-1/2in	582-035X	562-035X	25	-
4in	582-040X	562-040X	25	-
4-1/2in	582-045X	562-045X	25	-
5in	582-050X	562-050X	25	-
5-1/2in	582-055X	562-055X	25	-
6in	582-060X	562-060X	25	-
7in	582-070X	562-070X	75	-
8in	582-080X	562-080X	75	-
9in	582-090X	562-090X	75	-
10in	582-100X	562-100X	75	-
11in	582-110X	562-110X	75	-
12in	582-120X	562-120X	75	-

## 1/2in Diameter Schedule 80 Nipples

MIP x MIP

### BULK PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	583-001X	563-001X	25	-
1-1/2in	583-015X	563-015X	25	-
2in	583-020X	563-020X	25	-
2-1/2in	583-025X	563-025X	25	-
3in	583-030X	563-030X	25	-
3-1/2in	583-035X	563-035X	25	-
4in	583-040X	563-040X	25	-
4-1/2in	583-045X	563-045X	25	-
5in	583-050X	563-050X	25	-
5-1/2in	583-055X	563-055X	25	-
6in	583-060X	563-060X	25	-
7in	583-070X	563-070X	25	-
8in	583-080X	563-080X	25	-
9in	583-090X	563-090X	25	-
10in	583-100X	563-100X	25	-
11in	583-110X	563-110X	25	-
12in	583-120X	563-120X	25	-

## 3/4in Diameter Schedule 80 Nipples

MIP x MIP

### BULK PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	584-001X	564-001X	25	-
1-1/2in	584-015X	564-015X	25	-
2in	584-020X	564-020X	25	-
2-1/2in	584-025X	564-025X	25	-
3in	584-030X	564-030X	25	-
3-1/2in	584-035X	564-035X	25	-
4in	584-040X	564-040X	25	-
4-1/2in	584-045X	564-045X	25	-
5in	584-050X	564-050X	25	-
5-1/2in	584-055X	564-055X	25	-
6in	584-060X	564-060X	25	-
7in	584-070X	564-070X	25	-
8in	584-080X	564-080X	25	-
9in	584-090X	564-090X	25	-
10in	584-100X	564-100X	25	-
11in	584-110X	564-110X	25	-
12in	584-120X	564-120X	25	-

## 1in Diameter Schedule 80 Nipples

MIP x MIP

### BULK PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	585-001X	565-001X	25	-
2in	585-020X	565-020X	25	-
2-1/2in	585-025X	565-025X	25	-
3in	585-030X	565-030X	25	-
3-1/2in	585-035X	565-035X	25	-
4in	585-040X	565-040X	25	-
4-1/2in	585-045X	565-045X	25	-
5in	585-050X	565-050X	25	-
5-1/2in	585-055X	565-055X	25	-
6in	585-060X	565-060X	25	-
7in	585-070X	565-070X	25	-
8in	585-080X	565-080X	25	-
9in	585-090X	565-090X	25	-
10in	585-100X	565-100X	25	-
11in	585-110X	565-110X	25	-
12in	585-120X	565-120X	25	-



**1-1/4in Diameter**  
**Schedule 80 Nipples**

MIP x MIP

**BULK PART NUMBER**

Length	Black	Galvanized	Inner	MC
Close	586-001X	566-001X	25	-
2in	586-020X	566-020X	25	-
2-1/2in	586-025X	566-025X	25	-
3in	586-030X	566-030X	25	-
3-1/2in	586-035X	566-035X	25	-
4in	586-040X	566-040X	25	-
4-1/2in	586-045X	566-045X	25	-
5in	586-050X	566-050X	25	-
5-1/2in	586-055X	566-055X	25	-
6in	586-060X	566-060X	25	-
7in	586-070X	566-070X	25	-
8in	586-080X	566-080X	25	-
9in	586-090X	566-090X	25	-
10in	586-100X	566-100X	25	-
11in	586-110X	566-110X	10	-
12in	586-120X	566-120X	10	-

**1-1/2in Diameter**  
**Schedule 80 Nipples**

MIP x MIP

**BULK PART NUMBER**

Length	Black	Galvanized	Inner	MC
Close	587-001X	567-001X	25	-
2in	587-020X	567-020X	25	-
2-1/2in	587-025X	567-025X	25	-
3in	587-030X	567-030X	25	-
3-1/2in	587-035X	567-035X	25	-
4in	587-040X	567-040X	25	-
4-1/2in	587-045X	567-045X	25	-
5in	587-050X	567-050X	25	-
5-1/2in	587-055X	567-055X	25	-
6in	587-060X	567-060X	25	-
7in	587-070X	567-070X	10	-
8in	587-080X	567-080X	10	-
9in	587-090X	567-090X	10	-
10in	587-100X	567-100X	10	-
11in	587-110X	567-110X	10	-
12in	587-120X	567-120X	10	-

**2in Diameter**  
**Schedule 80 Nipples**

MIP x MIP

**BULK PART NUMBER**

Length	Black	Galvanized	Inner	MC
Close	588-001X	568-001X	25	-
2-1/2in	588-025X	568-025X	25	-
3in	588-030X	568-030X	25	-
3-1/2in	588-035X	568-035X	25	-
4in	588-040X	568-040X	25	-
4-1/2in	588-045X	568-045X	25	-
5in	588-050X	568-050X	25	-
5-1/2in	588-055X	568-055X	25	-
6in	588-060X	568-060X	25	-
7in	588-070X	568-070X	10	-
8in	588-080X	568-080X	10	-
9in	588-090X	568-090X	10	-
10in	588-100X	568-100X	10	-
11in	588-110X	568-110X	10	-
12in	588-120X	568-120X	10	-



# SCHED. 80 NIPPLES | BLACK & GALVANIZED



## 1/2in Diameter Schedule 80 Seamless Nipples MIP x MIP

### BULK PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	583-001XS	-	25	-
1-1/2in	583-015XS	-	25	-
2in	583-020XS	-	25	-
2-1/2in	583-025XS	-	25	-
3in	583-030XS	-	25	-
3-1/2in	583-035XS	-	25	-
4in	583-040XS	-	25	-
4-1/2in	583-045XS	-	25	-
5in	583-050XS	-	25	-
5-1/2in	583-055XS	-	25	-
6in	583-060XS	-	25	-
7in	583-070XS	-	25	-
8in	583-080XS	-	25	-
9in	583-090XS	-	25	-
10in	583-100XS	-	25	-
11in	583-110XS	-	25	-
12in	583-120XS	-	25	-

## 3/4in Diameter Schedule 80 Seamless Nipples MIP x MIP

### BULK PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	584-001XS	-	25	-
1-1/2in	584-015XS	-	25	-
2in	584-020XS	-	25	-
2-1/2in	584-025XS	-	25	-
3in	584-030XS	-	25	-
3-1/2in	584-035XS	-	25	-
4in	584-040XS	-	25	-
4-1/2in	584-045XS	-	25	-
5in	584-050XS	-	25	-
5-1/2in	584-055XS	-	25	-
6in	584-060XS	-	25	-
7in	584-070XS	-	25	-
8in	584-080XS	-	25	-
9in	584-090XS	-	25	-
10in	584-100XS	-	25	-
11in	584-110XS	-	25	-
12in	584-120XS	-	25	-

## 1in Diameter Schedule 80 Seamless Nipples MIP x MIP

### BULK PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	585-001XS	-	25	-
2in	585-020XS	-	25	-
2-1/2in	585-025XS	-	25	-
3in	585-030XS	-	25	-
3-1/2in	585-035XS	-	25	-
4in	585-040XS	-	25	-
4-1/2in	585-045XS	-	25	-
5in	585-050XS	-	25	-
5-1/2in	585-055XS	-	25	-
6in	585-060XS	-	25	-
7in	585-070XS	-	25	-
8in	585-080XS	-	25	-
9in	585-090XS	-	25	-
10in	585-100XS	-	25	-
11in	585-110XS	-	25	-
12in	585-120XS	-	25	-

## 1-1/4in Diameter Schedule 80 Seamless Nipples MIP x MIP

### BULK PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	586-001XS	-	25	-
2in	586-020XS	-	25	-
2-1/2in	586-025XS	-	25	-
3in	586-030XS	-	25	-
3-1/2in	586-035XS	-	25	-
4in	586-040XS	-	25	-
4-1/2in	586-045XS	-	25	-
5in	586-050XS	-	25	-
5-1/2in	586-055XS	-	25	-
6in	586-060XS	-	25	-
7in	586-070XS	-	25	-
8in	586-080XS	-	25	-
9in	586-090XS	-	25	-
10in	586-100XS	-	25	-
11in	586-110XS	-	10	-
12in	586-120XS	-	10	-





**1-1/2in Diameter**  
**Schedule 80 Seamless Nipples**

MIP x MIP

**BULK PART NUMBER**

Length	Black	Galvanized	Inner	MC
Close	587-001XS	-	25	-
2in	587-020XS	-	25	-
2-1/2in	587-025XS	-	25	-
3in	587-030XS	-	25	-
3-1/2in	587-035XS	-	25	-
4in	587-040XS	-	25	-
4-1/2in	587-045XS	-	25	-
5in	587-050XS	-	25	-
5-1/2in	587-055XS	-	25	-
6in	587-060XS	-	25	-
7in	587-070XS	-	10	-
8in	587-080XS	-	10	-
9in	587-090XS	-	10	-
10in	587-100XS	-	10	-
11in	587-110XS	-	10	-
12in	587-120XS	-	10	-

**2in Diameter**  
**Schedule 80 Seamless Nipples**

MIP x MIP

**BULK PART NUMBER**

Length	Black	Galvanized	Inner	MC
Close	588-001XS	-	25	-
2-1/2in	588-025XS	-	25	-
3in	588-030XS	-	25	-
3-1/2in	588-035XS	-	25	-
4in	588-040XS	-	25	-
4-1/2in	588-045XS	-	25	-
5in	588-050XS	-	25	-
5-1/2in	588-055XS	-	25	-
6in	588-060XS	-	25	-
7in	588-070XS	-	10	-
8in	588-080XS	-	10	-
9in	588-090XS	-	10	-
10in	588-100XS	-	10	-
11in	588-110XS	-	10	-
12in	588-120XS	-	10	-



# SCHED. 160 SEAMLESS NIPPLES | BLACK & GALVANIZED



## 1/2in Diameter Schedule 160 Seamless Nipples

MIP x MIP

### BULK PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	583-001S160	563-001S160	25	-
1-1/2in	583-015S160	563-015S160	25	-
2in	583-020S160	563-020S160	25	-
2-1/2in	583-025S160	563-030S160	25	-
3in	583-030S160	563-040S160	25	-
4in	583-040S160	563-060S160	25	-
5in	583-050S160	-	25	-
6in	583-060S160	-	25	-
8in	583-080S160	-	25	-
10in	583-100S160	-	25	-
12in	583-120S160	-	25	-
18in	583-180S160	-	5	-
24in	583-240S160	-	5	-
36in	583-360S160	-	5	-

## 3/4in Diameter Schedule 160 Seamless Nipples

MIP x MIP

### BULK PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	584-001S160	564-001S160	25	-
1-1/2in	584-015S160	564-015S160	25	-
2in	584-020S160	564-020S160	25	-
2-1/2in	584-025S160	564-030S160	25	-
3in	584-030S160	564-040S160	25	-
4in	584-040S160	564-060S160	25	-
5in	584-050S160	-	25	-
6in	584-060S160	-	25	-
8in	584-080S160	-	25	-
10in	584-100S160	-	25	-
12in	584-120S160	-	25	-
18in	584-180S160	-	5	-
24in	584-240S160	-	5	-
36in	584-360S160	-	5	-

## 1in Diameter Schedule 160 Seamless Nipples

MIP x MIP

### BULK PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	585-001S160	565-001S160	25	-
2in	585-020S160	565-020S160	25	-
2-1/2in	585-025S160	565-030S160	25	-
3in	585-030S160	565-040S160	25	-
4in	585-040S160	565-060S160	25	-
5in	585-050S160	-	25	-
6in	585-060S160	-	25	-
8in	585-080S160	-	25	-
10in	585-100S160	-	25	-
12in	585-120S160	-	25	-
18in	585-180S160	-	3	-
24in	585-240S160	-	3	-
36in	585-360S160	-	3	-

## 1-1/4in Diameter Schedule 160 Seamless Nipples

MIP x MIP

### BULK PART NUMBER

Length	Black	Galvanized	Inner	MC
Close	586-001S160	566-001S160	25	-
2in	586-020S160	566-020S160	25	-
2-1/2in	586-025S160	566-030S160	25	-
3in	586-030S160	566-040S160	25	-
4in	586-040S160	566-060S160	25	-
5in	586-050S160	-	25	-
6in	586-060S160	-	25	-
8in	586-080S160	-	25	-
10in	586-100S160	-	25	-
12in	586-120S160	-	10	-
18in	586-180S160	-	3	-
24in	586-240S160	-	3	-
36in	586-360S160	-	3	-



**1-1/2in Diameter**  
**Schedule 160 Seamless Nipples**

MIP x MIP

**BULK PART NUMBER**

Length	Black	Galvanized	Inner	MC
Close	587-001S160	567-001S160	25	-
2in	587-020S160	567-020S160	25	-
2-1/2in	587-025S160	567-030S160	25	-
3in	587-030S160	567-040S160	25	-
4in	587-040S160	567-060S160	25	-
5in	587-050S160	-	25	-
6in	587-060S160	-	25	-
8in	587-080S160	-	10	-
10in	587-100S160	-	10	-
12in	587-120S160	-	10	-
18in	587-180S160	-	3	-
24in	587-240S160	-	3	-
36in	587-360S160	-	3	-

**2in Diameter**  
**Schedule 160 Seamless Nipples**

MIP x MIP

**BULK PART NUMBER**

Length	Black	Galvanized	Inner	MC
Close	588-001S160	568-001S160	25	-
2-1/2in	588-025S160	568-030S160	25	-
3in	588-030S160	568-040S160	25	-
4in	588-040S160	568-060S160	25	-
5in	588-050S160	-	25	-
6in	588-060S160	-	25	-
8in	588-080S160	-	10	-
10in	588-100S160	-	10	-
12in	588-120S160	-	10	-
18in	588-180S160	-	2	-
24in	588-240S160	-	2	-
36in	588-360S160	-	2	-

**2-1/2in Diameter**  
**Schedule 160 Seamless Nipples**

MIP x MIP

**BULK PART NUMBER**

Length	Black	Galvanized	Inner	MC
Close	589-010S160	-	10	-
3in	589-030S160	-	10	-
4in	589-040S160	-	10	-
5in	589-050S160	-	10	-
6in	589-060S160	-	10	-
8in	589-080S160	-	10	-
10in	589-100S160	-	5	-
12in	589-120S160	-	5	-
18in	589-180S160	-	1	-
24in	589-240S160	-	1	-
36in	589-360S160	-	1	-

**3in Diameter**  
**Schedule 160 Seamless Nipples**

MIP x MIP

**BULK PART NUMBER**

Length	Black	Galvanized	Inner	MC
Close	590-010S160	-	10	-
3in	590-030S160	-	10	-
4in	590-040S160	-	10	-
5in	590-050S160	-	10	-
6in	590-060S160	-	10	-
8in	590-080S160	-	5	-
10in	590-100S160	-	5	-
12in	590-120S160	-	5	-
18in	590-180S160	-	1	-
24in	590-240S160	-	1	-
36in	590-360S160	-	1	-



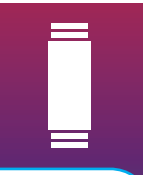
SCHED. 160 SEAMLESS NIPPLES | BLACK & GALVANIZED



**4in Diameter**  
**Schedule 160 Seamless Nipples**  
 MIP x MIP

**BULK PART NUMBER**

Length	Black	Galvanized	Inner	MC
Close	591-010S160	-	10	-
4in	591-040S160	-	6	-
5in	591-050S160	-	6	-
6in	591-060S160	-	5	-
8in	591-080S160	-	3	-
10in	591-100S160	-	3	-
12in	591-120S160	-	3	-
18in	591-180S160	-	1	-
24in	591-240S160	-	1	-
36in	591-360S160	-	1	-





**Single Pipe Nipple Assortments**  
**Schedule 40 Nipples**

MIP x MIP

Black	Galvanized	Size	Total Pieces	Close	1-1/2in	2in	2-1/2in	3in	3-1/2in	4in	4-1/2in	5in	5-1/2in	6in
580-000R	560-000R	1/8in	11	1	1	1	1	1	1	1	1	1	1	1
581-000R	561-000R	1/4in	11	1	1	1	1	1	1	1	1	1	1	1
582-000R	562-000R	3/8in	11	1	1	1	1	1	1	1	1	1	1	1
583-000R	563-000R	1/2in	11	1	1	1	1	1	1	1	1	1	1	1
584-000R	564-000R	3/4in	11	1	1	1	1	1	1	1	1	1	1	1
585-000R	565-000R	1in	10	1	-	1	1	1	1	1	1	1	1	1
586-000R	566-000R	1-1/4in	10	1	-	1	1	1	1	1	1	1	1	1
587-000R	567-000R	1-1/2in	10	1	-	1	1	1	1	1	1	1	1	1
588-000R	568-000R	2in	9	1	-	-	1	1	1	1	1	1	1	1



**Standard Pipe Nipple Assortments**  
**Schedule 40 Nipples**

MIP x MIP

Black	Galvanized	Size	Total Pieces	Close	1-1/2in	2in	2-1/2in	3in	3-1/2in	4in	4-1/2in	5in	5-1/2in	6in
580-000P100	560-000P100	1/8in	100	20	10	15	10	10	5	10	5	5	5	5
581-000P100	561-000P100	1/4in	100	20	10	15	10	10	5	10	5	5	5	5
582-000P100	562-000P100	3/8in	100	20	10	15	10	10	5	10	5	5	5	5
583-000P100	563-000P100	1/2in	100	20	10	15	10	10	5	10	5	5	5	5
584-000P100	564-000P100	3/4in	100	15	-	20	20	10	5	10	5	5	5	5
585-000P75	565-000P75	1in	75	15	-	12	5	5	3	12	3	15	3	5



**Pipe Nipple Assortments**  
**Schedule 40 Nipples**

MIP x MIP

Black	Galvanized	Size	Total Pieces	Close	1-1/2in	2in	2-1/2in	3in	3-1/2in	4in	4-1/2in	5in	5-1/2in	6in
583-000P66	563-000P66	1/2in	66	6	6	6	6	6	6	6	6	6	6	6
584-000P66	564-000P66	3/4in	66	6	6	6	6	6	6	6	6	6	6	6
585-000P60	565-000P60	1in	60	6	-	6	6	6	6	6	6	6	6	6



# NIPPLE ASSORTMENTS | BLACK & GALVANIZED



## Special "6" Pipe Nipple Assortments Schedule 40 Nipples

MIP x MIP

Black	Galvanized	Size	Total Pieces	Close	1-1/2in	2in	2-1/2in	3in	3-1/2in	4in	4-1/2in	5in	5-1/2in	6in
583-000	563-000	1/2in	66	6	6	6	6	6	6	6	6	6	6	6
584-000	564-000	3/4in	66	6	6	6	6	6	6	6	6	6	6	6
585-000	565-000	1in	60	6	-	6	6	6	6	6	6	6	6	6
586-000	566-000	1-1/4in	60	6	-	6	6	6	6	6	6	6	6	6
587-000	567-000	1-1/2in	60	6	-	6	6	6	6	6	6	6	6	6
588-000	568-000	2in	54	6	-	-	6	6	6	6	6	6	6	6



## Special "25" Pipe Nipple Assortments Schedule 40 Nipples

MIP x MIP

Black	Galvanized	Size	Total Pieces	Close	1-1/2in	2in	2-1/2in	3in	3-1/2in	4in	4-1/2in	5in	5-1/2in	6in
580-000P25	560-000P25	1/8in	25	4	3	3	3	2	2	2	1	2	1	2
581-000P25	561-000P25	1/4in	25	4	3	3	3	2	2	2	1	2	1	2
582-000P25	562-000P25	3/8in	25	4	3	3	3	2	2	2	1	2	1	2
583-000P25	563-000P25	1/2in	25	4	3	3	3	2	2	2	1	2	1	2
584-000P25	564-000P25	3/4in	25	6	-	4	3	2	2	2	1	2	1	2
585-000P25	565-000P25	1in	25	5	-	5	3	2	2	2	1	2	1	2
586-000P25	566-000P25	1-1/4in	25	5	-	5	3	2	2	2	1	2	1	2
587-000P25	567-000P25	1-1/2in	25	5	-	5	3	2	2	2	1	2	1	2
588-000P25	568-000P25	2in	25	5	-	-	4	3	2	3	2	2	2	2





**1/2in Diameter**  
**Schedule 40 Ready-Cut Pipe**

MIP x MIP

**BULK PART NUMBER**

Length	Black	Galvanized	Inner	MC
18in	583-180SP	563-180SP	5	-
24in	583-240SP	563-240SP	5	-
30in	583-300SP	563-300SP	5	-
36in	583-360SP	563-360SP	5	-
48in	583-480SP	563-480SP	5	-
60in	583-600SP	563-600SP	5	-
72in	-	-	-	-
10ft	-	-	-	-

**BARCODED PART NUMBER**

Length	Black	Galvanized	Inner	MC
18in	583-180HC	563-180HC	-	5
24in	583-240HC	563-240HC	-	5
30in	583-300HC	563-300HC	-	5
36in	583-360HC	563-360HC	-	5
48in	583-480HC	563-480HC	-	5
60in	583-600HC	563-600HC	-	5
72in	583-720HC	563-720HC	-	5
10ft	583-1200HC	563-1200HC	-	5

**3/4in Diameter**  
**Schedule 40 Ready-Cut Pipe**

MIP x MIP

**BULK PART NUMBER**

Length	Black	Galvanized	Inner	MC
18in	584-180SP	564-180SP	5	-
24in	584-240SP	564-240SP	5	-
30in	584-300SP	564-300SP	5	-
36in	584-360SP	564-360SP	5	-
48in	584-480SP	564-480SP	5	-
60in	584-600SP	564-600SP	5	-
72in	-	-	-	-
10ft	-	-	-	-

**BARCODED PART NUMBER**

Length	Black	Galvanized	Inner	MC
18in	584-180HC	564-180HC	-	5
24in	584-240HC	564-240HC	-	5
30in	584-300HC	564-300HC	-	5
36in	584-360HC	564-360HC	-	5
48in	584-480HC	564-480HC	-	5
60in	584-600HC	564-600HC	-	5
72in	584-720HC	564-720HC	-	5
10ft	584-1200HC	564-1200HC	-	5

**1in Diameter**  
**Schedule 40 Ready-Cut Pipe**

MIP x MIP

**BULK PART NUMBER**

Length	Black	Galvanized	Inner	MC
18in	585-180SP	565-180SP	3	-
24in	585-240SP	565-240SP	3	-
30in	585-300SP	565-300SP	3	-
36in	585-360SP	565-360SP	2	-
48in	585-480SP	565-480SP	3	-
60in	585-600SP	565-600SP	3	-
72in	-	-	-	-
10ft	-	-	-	-

**BARCODED PART NUMBER**

Length	Black	Galvanized	Inner	MC
18in	585-180HC	565-180HC	-	3
24in	585-240HC	565-240HC	-	3
30in	585-300HC	565-300HC	-	3
36in	585-360HC	565-360HC	-	3
48in	585-480HC	565-480HC	-	3
60in	585-600HC	565-600HC	-	3
72in	585-720HC	565-720HC	-	3
10ft	585-1200HC	565-1200HC	-	3



# PIPE | BLACK & GALVANIZED



## 1-1/4in Diameter Schedule 40 Ready-Cut Pipe

MIP x MIP

### BULK PART NUMBER

Length	Black	Galvanized	Inner	MC
18in	586-180SP	566-180SP	3	-
24in	586-240SP	566-240SP	3	-
30in	586-300SP	566-300SP	3	-
36in	586-360SP	566-360SP	3	-
48in	586-480SP	566-480SP	2	-
60in	-	-	-	-
72in	-	-	-	-
10ft	-	-	-	-

### BARCODED PART NUMBER

Length	Black	Galvanized	Inner	MC
18in	586-180HC	566-180HC	-	3
24in	586-240HC	566-240HC	-	3
30in	586-300HC	566-300HC	-	3
36in	586-360HC	566-360HC	-	3
48in	586-480HC	566-480HC	-	3
60in	586-600HC	566-600HC	-	3
72in	586-720HC	566-720HC	-	3
10ft	586-1200HC	566-1200HC	-	3

## 1-1/2in Diameter Schedule 40 Ready-Cut Pipe

MIP x MIP

### BULK PART NUMBER

Length	Black	Galvanized	Inner	MC
18in	587-180SP	567-180SP	3	-
24in	587-240SP	567-240SP	3	-
30in	587-300SP	567-300SP	3	-
36in	587-360SP	567-360SP	3	-
48in	587-480SP	567-480SP	3	-
60in	-	-	-	-
72in	-	-	-	-
10ft	-	-	-	-

### BARCODED PART NUMBER

Length	Black	Galvanized	Inner	MC
18in	587-180HC	567-180HC	-	3
24in	587-240HC	567-240HC	-	3
30in	587-300HC	567-300HC	-	3
36in	587-360HC	567-360HC	-	3
48in	587-480HC	567-480HC	-	3
60in	587-600HC	567-600HC	-	3
72in	587-720HC	567-720HC	-	3
10ft	587-1200HC	567-1200HC	-	3

## 2in Diameter Schedule 40 Ready-Cut Pipe

MIP x MIP

### BULK PART NUMBER

Length	Black	Galvanized	Inner	MC
18in	588-180SP	568-180SP	3	-
24in	588-240SP	568-240SP	2	-
30in	588-300SP	568-300SP	2	-
36in	588-360SP	568-360SP	2	-
48in	588-480SP	568-480SP	2	-
60in	-	-	-	-
72in	-	-	-	-
10ft	-	-	-	-

### BARCODED PART NUMBER

Length	Black	Galvanized	Inner	MC
18in	588-180HC	568-180HC	-	2
24in	588-240HC	568-240HC	-	2
30in	588-300HC	568-300HC	-	2
36in	588-360HC	568-360HC	-	2
48in	588-480HC	568-480HC	-	2
60in	588-600HC	568-600HC	-	2
72in	588-720HC	568-720HC	-	2
10ft	588-1200HC	568-1200HC	-	2





## **SECTION 03** **RED BRASS** **FITTINGS & NIPPLES**

Southland Red Brass Fittings are perfect for your connection needs. Each fitting comes in a variety of sizes and connections and is certified for quality and longevity.

### **Red Brass Fittings.....036**

- Elbows
- Couplings
- Tees
- Plugs
- Crosses
- Caps
- Bushings
- Unions

### **Red Brass Nipples.....039**

- Schedule 40



# FITTINGS | RED BRASS FITTINGS



**90° Elbow**  
125# Red Brass  
Threaded Fittings

Item No.	Size	Connection	Inner	MC
450-000NL	1/8in	FIP x FIP	5	25
450-001NL	1/4in	FIP x FIP	5	25
450-002NL	3/8in	FIP x FIP	5	25
450-003NL	1/2in	FIP x FIP	5	25
450-004NL	3/4in	FIP x FIP	5	25
550-005NL	1in	FIP x FIP	5	25
450-006NL	1-1/4in	FIP x FIP	5	25
550-007NL	1-1/2in	FIP x FIP	5	35
450-008NL	2in	FIP x FIP	5	20



**45° Elbow**  
125# Red Brass  
Threaded Fittings

Item No.	Size	Connection	Inner	MC
451-000NL	1/8in	FIP x FIP	5	25
451-001NL	1/4in	FIP x FIP	5	25
451-002NL	3/8in	FIP x FIP	5	25
451-003NL	1/2in	FIP x FIP	5	25
451-004NL	3/4in	FIP x FIP	5	25
451-005NL	1in	FIP x FIP	5	25
451-007NL	1-1/2in	FIP x FIP	5	25



**90° Reducing Elbow**  
125# Red Brass  
Threaded Fittings

Item No.	Size	Connection	Inner	MC
450-032NL	1/2in x 3/8in	FIP x FIP	5	25
450-043NL	3/4in x 1/2in	FIP x FIP	5	25
450-053NL	1in x 1/2in	FIP x FIP	5	25
450-054NL	1in x 3/4in	FIP x FIP	5	25
450-075NL	1-1/2in x 1in	FIP x FIP	5	10
450-076NL	1-1/2in x 1-1/4in	FIP x FIP	5	10
450-085NL	2in x 1in	FIP x FIP	5	10
450-087NL	2in x 1-1/2in	FIP x FIP	5	10



**45° Street Elbow**  
125# Red Brass  
Threaded Fittings

Item No.	Size	Connection	Inner	MC
451-100NL	1/8in	FIP x MIP	5	25
451-101NL	1/4in	FIP x MIP	5	25
451-102NL	3/8in	FIP x MIP	5	25
451-103NL	1/2in	FIP x MIP	5	25
451-104NL	3/4in	FIP x MIP	5	25
451-105NL	1in	FIP x MIP	5	25
451-106NL	1-1/4in	FIP x MIP	5	10



**90° Street Elbow**  
125# Red Brass  
Threaded Fittings

Item No.	Size	Connection	Inner	MC
452-000NL	1/8in	FIP x MIP	5	25
452-001NL	1/4in	FIP x MIP	5	25
452-002NL	3/8in	FIP x MIP	5	25
452-003NL	1/2in	FIP x MIP	5	25
452-004NL	3/4in	FIP x MIP	5	25
452-005NL	1in	FIP x MIP	5	25
452-006NL	1-1/4in	FIP x MIP	5	20
452-007NL	1-1/2in	FIP x MIP	5	20
452-008NL	2in	FIP x MIP	5	20



**Coupling**  
125# Red Brass  
Threaded Fittings

Item No.	Size	Connection	Inner	MC
454-000NL	1/8in	FIP x FIP	5	25
454-001NL	1/4in	FIP x FIP	5	25
454-002NL	3/8in	FIP x FIP	5	25
454-003NL	1/2in	FIP x FIP	5	25
454-004NL	3/4in	FIP x FIP	5	25
454-005NL	1in	FIP x FIP	5	25
454-006NL	1-1/4in	FIP x FIP	5	25
454-007NL	1-1/2in	FIP x FIP	5	25
454-008NL	2in	FIP x FIP	5	25



**Reducing Coupling**  
125# Red Brass  
Threaded Fittings

Item No.	Size	Connection	Inner	MC
454-010NL	1/4in x 1/8in	FIP x FIP	5	25
454-021NL	3/8in x 1/4in	FIP x FIP	5	25
454-025NL	1/2in x 1/8in	FIP x FIP	5	25
454-031NL	1/2in x 1/4in	FIP x FIP	5	25
454-032NL	1/2in x 3/8in	FIP x FIP	5	25
454-041NL	3/4in x 1/4in	FIP x FIP	5	25
454-042NL	3/4in x 3/8in	FIP x FIP	5	25
454-043NL	3/4in x 1/2in	FIP x FIP	5	25
454-053NL	1in x 1/2in	FIP x FIP	5	25
454-054NL	1in x 3/4in	FIP x FIP	5	25
454-064NL	1-1/4in x 3/4in	FIP x FIP	5	25
454-065NL	1-1/4in x 1in	FIP x FIP	5	25
454-074NL	1-1/2in x 3/4in	FIP x FIP	5	25
454-075NL	1-1/2in x 1in	FIP x FIP	5	25
454-076NL	1-1/2in x 1-1/4in	FIP x FIP	5	25
454-084NL	2in x 3/4in	FIP x FIP	5	25
454-085NL	2in x 1in	FIP x FIP	5	30
454-086NL	2in x 1-1/4in	FIP x FIP	5	30
454-087NL	2in x 1-1/2in	FIP x FIP	5	30



**Reducing Tee**  
125# Red Brass  
Threaded Fittings

Item No.	Size	Connection	Inner	MC
453-041NL	1/2in x 1/4in	FIP x FIP x FIP	5	15
453-042NL	3/4in x 1/2in x 3/4in	FIP x FIP x FIP	5	15
453-043NL	3/4in x 1/2in	FIP x FIP x FIP	5	25
453-044NL	1in x 3/8in	FIP x FIP x FIP	5	25
453-045NL	1in x 3/4in x 1in	FIP x FIP x FIP	5	25
453-048NL	1-1/2in x 1in	FIP x FIP x FIP	5	20
453-052NL	3/4in x 1/2in x 1/2in	FIP x FIP x FIP	5	25
453-053NL	1in x 1/2in	FIP x FIP x FIP	5	25
453-054NL	1in x 3/4in	FIP x FIP x FIP	5	25
453-055NL	1-1/4in x 1in	FIP x FIP x FIP	5	15
453-056NL	1in x 3/4in x 3/4in	FIP x FIP x FIP	5	25
453-073NL	1-1/2in x 1/2in	FIP x FIP x FIP	5	15
453-074NL	1-1/2in x 3/4in	FIP x FIP x FIP	5	15



**Tee**  
125# Red Brass  
Threaded Fittings

Item No.	Size	Connection	Inner	MC
453-000NL	1/8in	FIP x FIP x FIP	5	25
453-001NL	1/4in	FIP x FIP x FIP	5	25
453-002NL	3/8in	FIP x FIP x FIP	5	25
453-003NL	1/2in	FIP x FIP x FIP	5	25
453-004NL	3/4in	FIP x FIP x FIP	5	25
453-006NL	1-1/4in	FIP x FIP x FIP	5	25
553-005	1in	FIP x FIP x FIP	5	25
553-005NL	1in	FIP x FIP x FIP	5	25
553-007NL	1-1/2in	FIP x FIP x FIP	5	25
553-008	2in	FIP x FIP x FIP	5	15
553-008NL	2in	FIP x FIP x FIP	5	5



**Cored Plug**  
125# Red Brass  
Threaded Fittings

Item No.	Size	Connection	Inner	MC
458-093NL	1/2in	MIP	5	25
458-094NL	3/4in	MIP	5	25
458-095NL	1in	MIP	5	25
458-096NL	1-1/4in	MIP	5	25
458-097NL	1-1/2in	MIP	5	25
458-098NL	2in	MIP	5	25



**Plug**  
125# Red Brass  
Threaded Fittings

Item No.	Size	Connection	Inner	MC
458-000NL	1/8in	MIP	5	25
458-001NL	1/4in	MIP	5	25
458-002NL	3/8in	MIP	5	25
458-003NL	1/2in	MIP	5	25
458-004NL	3/4in	MIP	5	25
558-005NL	1in	MIP	5	25





**Countersunk Plug**  
125# Red Brass  
Threaded Fittings

Item No.	Size	Connection	Inner	MC
458-013NL	1/2in	MIP	5	50



**Cross**  
125# Red Brass  
Threaded Fittings

Item No.	Size	Connection	Inner	MC
453-102NL	3/8in	FIP x FIP x FIP x FIP	5	25
453-103NL	1/2in	FIP x FIP x FIP x FIP	5	25
453-104NL	3/4in	FIP x FIP x FIP x FIP	5	25
453-105NL	1in	FIP x FIP x FIP x FIP	5	25



**Lock Nut**  
125# Red Brass  
Threaded Fittings

Item No.	Size	Connection	Inner	MC
456-003NL	1/2in	FIP	5	25
456-004NL	3/4in	FIP	5	25



**Cap**  
125# Red Brass  
Threaded Fittings

Item No.	Size	Connection	Inner	MC
457-000NL	1/8in	FIP	5	25
457-001NL	1/4in	FIP	5	25
457-002NL	3/8in	FIP	5	25
457-003NL	1/2in	FIP	5	25
457-004NL	3/4in	FIP	5	25
457-006NL	1-1/4in	FIP	5	25
557-005NL	1in	FIP	5	25
557-007NL	1-1/2in	FIP	5	25
457-008NL	2in	FIP	5	25



**Hex Bushing**  
125# Red Brass  
Threaded Fittings

Item No.	Size	Connection	Inner	MC
455-010NL	1/4in x 1/8in	MIP x FIP	5	25
455-020NL	3/8in x 1/8in	MIP x FIP	5	25
455-021NL	3/8in x 1/4in	MIP x FIP	5	25
455-030NL	1/2in x 1/8in	MIP x FIP	5	25
455-031NL	1/2in x 1/4in	MIP x FIP	5	25
455-032NL	1/2in x 3/8in	MIP x FIP	5	25
455-040NL	3/4in x 1/8in	MIP x FIP	5	25
455-041NL	3/4in x 1/4in	MIP x FIP	5	25
455-042NL	3/4in x 3/8in	MIP x FIP	5	25
455-043NL	3/4in x 1/2in	MIP x FIP	5	25
455-051NL	1in x 1/4in	MIP x FIP	5	25
455-052NL	1in x 3/8in	MIP x FIP	5	25
455-053NL	1in x 1/2in	MIP x FIP	5	25
455-054NL	1in x 3/4in	MIP x FIP	5	25
455-063NL	1-1/4in x 1/2in	MIP x FIP	5	25
455-064NL	1-1/4in x 3/4in	MIP x FIP	5	25
455-065NL	1-1/4in x 1in	MIP x FIP	5	25
455-074NL	1-1/2in x 3/4in	MIP x FIP	5	25
455-075NL	1-1/2in x 1in	MIP x FIP	5	25
455-076NL	1-1/2in x 1-1/4in	MIP x FIP	5	25
455-077NL	1-1/2in x 1/2in	MIP x FIP	5	25
455-084NL	2in x 3/4in	MIP x FIP	5	25
455-085NL	2in x 1in	MIP x FIP	5	25
455-086NL	2in x 1-1/4in	MIP x FIP	5	25
455-087NL	2in x 1-1/2in	MIP x FIP	5	25
455-090NL	2-1/2in x 2in	MIP x FIP	5	25
455-091NL	3in x 2in	MIP x FIP	5	15



**Union**  
125# Red Brass  
Threaded Fittings

Item No.	Size	Connection	Inner	MC
459-000NL	1/8in	FIP x FIP	5	25
459-001NL	1/4in	FIP x FIP	5	25
459-002NL	3/8in	FIP x FIP	5	25
459-003NL	1/2in	FIP x FIP	5	25
459-004NL	3/4in	FIP x FIP	5	25
559-005	1in	FIP x FIP	25	50
559-005NL	1in	FIP x FIP	5	25
459-006NL	1-1/4in	FIP x FIP	5	15
559-007NL	1-1/2in	FIP x FIP	5	15
459-008NL	2in	FIP x FIP	5	15



**1/8-in Diameter Nipples**  
Schedule 40  
Red Brass

Item No.	Size	Inner	MC
460-001	1/8in x Close	5	25
460-015	1/8in x 1-1/2in	5	25
460-020	1/8in x 2in	5	25
460-025	1/8in x 2-1/2in	5	25
460-030	1/8in x 3in	5	25
460-035	1/8in x 3-1/2in	5	25
460-040	1/8in x 4in	5	25
460-050	1/8in x 5in	5	25
460-060	1/8inx 6in	5	25



**3/8-in Diameter Nipples**  
Schedule 40  
Red Brass

Item No.	Size	Inner	MC
462-001	3/8in x Close	5	25
462-015	3/8in x 1-1/2in	5	25
462-020	3/8in x 2in	5	25
462-025	3/8in x 2-1/2in	5	25
462-030	3/8in x 3in	5	25
462-035	3/8in x 3-1/2in	5	25
462-040	3/8in x 4in	5	25
462-045	3/8in x 4-1/2in	5	25
462-050	3/8in x 5in	5	25
462-055	3/8in x 5-1/2in	5	25
462-060	3/8in x 6in	5	25
462-080	3/8in x 8in	5	25



**1/4-in Diameter Nipples**  
Schedule 40  
Red Brass

Item No.	Size	Inner	MC
461-001	1/4in x Close	5	25
461-015	1/4in x 1-1/2in	5	25
461-020	1/4in x 2in	5	25
461-025	1/4in x 2-1/2in	5	25
461-030	1/4in x 3in	5	25
461-035	1/4in x 3-1/2in	5	25
461-040	1/4in x 4in	5	25
461-045	1/4in x 4-1/2in	5	25
461-050	1/4in x 5in	5	25
461-055	1/4in x 5-1/2in	5	25
461-060	1/4in x 6in	5	25



**1/2-in Diameter Nipples**  
Schedule 40  
Red Brass

Item No.	Size	Inner	MC
463-001	1/2in x Close	5	25
463-015	1/2in x 1-1/2in	5	25
463-020	1/2in x 2in	5	25
463-025	1/2in x 2-1/2in	5	25
463-030	1/2in x 3in	5	25
463-035	1/2in x 3-1/2in	5	25
463-040	1/2in x 4in	5	25
463-045	1/2in x 4-1/2in	5	25
463-050	1/2in x 5in	5	25
463-055	1/2in x 5-1/2in	5	25
463-060	1/2in x 6in	5	25
463-080	1/2in x 8in	5	25
463-100	1/2in x 10in	5	25
463-120	1/2in x 12in	5	10



# NIPPLES | RED BRASS NIPPLES



**3/4-in Diameter Nipples**  
Schedule 40  
Red Brass

Item No.	Size	Inner	MC
464-001	3/4in x Close	5	25
464-015	3/4in x 1-1/2in	5	25
464-020	3/4in x 2in	5	25
464-025	3/4in x 2-1/2in	5	25
464-030	3/4in x 3in	5	25
464-035	3/4in x 3-1/2in	5	25
464-040	3/4in x 4	5	25
464-045	3/4in x 4-1/2in	5	25
464-050	3/4in x 5in	5	25
464-055	3/4in x 5-1/2in	5	25
464-060	3/4in x 6in	5	25
464-080	3/4in x 8in	5	50
464-100	3/4in x 10in	0	50
464-120	3/4in x 12in	5	50



**1-1/4-in Diameter Nipples**  
Schedule 40  
Red Brass

Item No.	Size	Inner	MC
466-001	1-1/4in x Close	5	10
466-020	1-1/4in x 2in	5	10
466-025	1-1/4in x 2-1/2in	5	10
466-030	1-1/4in x 3in	5	10
466-035	1-1/4in x 3-1/2in	5	10
466-040	1-1/4in x 4in	5	10
466-045	1-1/4in x 4-1/2in	5	10
466-050	1-1/4in x 5in	5	10
466-055	1-1/4in x 5-1/2in	5	10
466-060	1-1/4in x 6in	5	10



**1-in Diameter Nipples**  
Schedule 40  
Red Brass

Item No.	Size	Inner	MC
465-001	1in x Close	5	25
465-020	1in x 2in	5	25
465-025	1in x 2-1/2in	5	25
465-030	1in x 3in	5	25
465-035	1in x 3-1/2in	5	25
465-040	1in x 4in	5	25
465-045	1in x 4-1/2in	5	25
465-050	1in x 5in	25	50
465-055	1in x 5-1/2in	25	50
465-060	1in x 6in	25	50
465-080	1in x 8in	5	10
465-100	1in x 10in	5	10
465-120	1in x 12in	5	10



**1-1/2-in Diameter Nipples**  
Schedule 40  
Red Brass

Item No.	Size	Inner	MC
467-001	1-1/2in x Close	5	10
467-020	1-1/2in x 2in	5	10
467-025	1-1/2in x 2-1/2in	5	10
467-030	1-1/2in x 3in	5	10
467-035	1-1/2in x 3-1/2in	5	10
467-040	1-1/2in x 4in	5	10
467-045	1-1/2in x 4-1/2in	5	10
467-050	1-1/2in x 5in	5	10
467-055	1-1/2in x 5-1/2in	5	10
467-060	1-1/2in x 6in	5	10
467-120	1-1/2in x 12in	-	10





**2-in Diameter Nipples**  
**Schedule 40**  
**Red Brass**

Item No.	Size	Inner	MC
468-001	2in x Close	5	10
468-025	2in x 2-1/2in	5	10
468-030	2in x 3in	5	10
468-035	2in x 3-1/2in	10	20
468-040	2in x 4in	10	20
468-045	2in x 4-1/2in	10	20
468-050	2in x 5in	10	20
468-055	2in x 5-1/2in	10	20
468-060	2in x 6in	10	20
468-080	2in x 8in	0	10
468-100	2in x 10in	0	10
468-120	2in x 12in	5	10



NIPPLES | RED BRASS NIPPLES







## **SECTION 04** **PRODUCT** **SPECIFICATIONS**

Southland only provides the best in high-quality materials. In order to achieve this we rigorously test all products to many exacting standards so they perform to your needs every time.

### **Fittings & Nipple Specs .....044**

- Finishes

### **Additional Nipple Specs .....045**

- Construction
- Material
- Threading





# FINISHES

## Black, Galvanized and Their Designed Applications

Our fittings, nipples and pipes are offered in three finishes: Black, Galvanized and Red Brass. Each finish offers unique application advantages over each other making them ideal for particular projects.

### BLACK FINISH

Accessories with black finish are generally used for lubricant oil, grease, LP gas, natural gas, gases (nitrogen, oxygen, etc.), steam and diesel. This finish is best suited for normal use where an inner rustproof protection is not required.

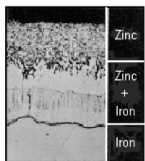
### GALVANIZED FINISH

Our Galvanized Finish offering is used for hot and cold water systems, refrigeration, sprinklers, compressed air, gasoline, diesel, alcohol, and some other applications where conducted fluid needs inner rustproof protection.

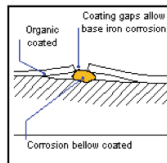
These fittings are manufactured by hot-dip galvanizing according to ASTM A-153. There are several ways to protect iron against rust, but none better than our hot-dip galvanizing process. Hot-dip galvanizing is one of the most efficient, practical and economical ways to protect iron and steel as zinc resists very well environment, air, and water corrosion for long lasting protection.

Galvanizing protects from corrosion the following ways:

- 1) It offers a long lasting isolating coverage made of metallic zinc and zinc alloy expertly applied to our iron.
- 2) Since zinc is bonded to iron as part of the iron-zinc combination, the protection works at a molecular level throughout the union. This serves as both a mechanical and corrosion protector.

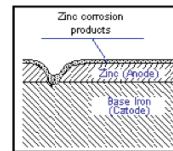


Zinc resists the environment's corrosive actions. Opposite to this, most of the organic coatings (paintings) are environmentally unstable and need to be renewed frequently. When a little failure occurs, corrosion starts and it begins to become larger under the protective coating.



Cathodic iron protection, provided by the metallic zinc coating, is factually based on corrosion being an electro-chemical process.

As zinc is a highly active electrochemical element, it tends to absorb oxygen before iron does it. Furthermore, this condition



creates additional protection against zinc hydroxide. This cathodic protection prevents corrosion to exposed parts, due to any discontinuity or mechanical damage on the coating.



# NIPPLE PRODUCTS

We manufacture threaded and flat end nipples with galvanized and black finishes alongside aluminum and brass options. Processed diameters range from 1/8-in to 6-in and lengths from close thread to 12-in for nipples with pipe lengths from 10 ft to 21-ft.

## WELDED STEEL NIPPLE PRODUCTS

Offering includes:

- Schedule 40 Nipple, Black and Galvanized
- Schedule 80 Nipple, Black and Galvanized
- Galvanized Conduit Nipple (UL listed)

Normal applications for threaded product lines are steam, gas, water and compressed air. Schedule should be selected based on the conduction lines required pressure. Our galvanized conduit is best with metallic pipes used for installation of wires and cables.

Our welded steel nipples are manufactured to ASTM A733 and ASME B1.20.1 specifications. UL6 specification applies for galvanized conduit nipples.

## SEAMLESS STEEL NIPPLE PRODUCTS

This nipple offering is manufactured with seamless steel pipe that complies with ASTM A106, Grade B standard.

- Schedule 40 Nipple, Black and Electro-galvanized (includes yellow-zinc finish)
- Schedule 80 Nipple, Black and Electro-galvanized (includes yellow-zinc finish)
- Schedule 160 Nipple, Black and Electro-galvanized (includes yellow-zinc finish)

These seamless nipples are ideal for high temperature service applications. Schedule should be selected based on the conduction lines required pressure.

Our seamless steel nipples are manufactured according to ASTM A733 and ASME B1.20.1 standards.

## BRASS NIPPLES

Southland brass nipples are manufactured with ASTM B43 compliant brass tube.

Brass nipple applications include plumbing, heater lines, boilers and related purposes.

These are manufactured according to ASTM B687 and ASME B1.20.1 standards.





# NIPPLE SPECIFICATIONS

## Material, Mechanical & Chemical Properties

Southland nipples are manufactured to the exacting technical specs noted below. All nipple products undergo rigorous testing to help ensure guaranteed quality throughout all product groups.

### MATERIAL SPECIFICATIONS

Our line of steel nipples and ready cut pipe is manufactured according to the strictest worldwide specifications. For this reason its response to corrosion, temperature and working pressures will be excellent, promoting long lasting and reliable fluid conduction systems.

### MECHANICALS PROPERTIES

Welded steel pipe nipples and ready-cut pipe, schedule 40 & 80, ERW type (Electric Resistance Welded), Grade A are manufactured to the ASTM A-53 standard.

Seamless steel pipe nipples and ready-cut pipe, schedule 40, 80, 160 & XXS, Grade B are manufactured to the ASTM A-106 standard.

	GRADE A	GRADE B
Tensile strength	48,000 psi	60,000 psi
Yield strength	30,000 psi	35,000 psi
Elongation in 2 inches	$E = \frac{625000 \cdot A \cdot 0.2}{U \cdot 0.9}$	$E = \frac{625000 \cdot A \cdot 0.2}{U \cdot 0.9}$

### CHEMICAL PROPERTIES

Chemical composition (%) – maximum values

	CARBON	COOPER A	NICKEL A	CHROME A	MOLYBDENUM A	VANADIUM A	MANGANESE	PHOSPHORUS	SULFUR
Grade A: A53	0.25%	0.4%	0.4%	0.4%	0.15%	0.08%	0.95%	0.05%	0.045%
Grade B: A106	0.30%	0.4%	0.4%	0.4%	0.15%	0.08%	0.29-1.06%	0.035%	0.035%

A – The combination of these 5 elements should not exceed 1.00%



## PRESSURES

Maximum allowable working pressure - Grade A welded carbon steel pipe threaded nipples.

Size	Depth Thread	OD	Wall Thickness	Schedule	-20°-100°F (PSI)	200°F (PSI)	300°F (PSI)	400°F (PSI)	500°F (PSI)	600°F (PSI)	650°F (PSI)
1/8-in	0.027	0.405	0.068	40	2948	2948	2948	2948	2948	2782	2702
	0.027	0.405	0.095	80	5222	5222	5222	5222	5222	4857	4756
1/4-in	0.046	0.540	0.088	40	2229	2229	2229	2229	2229	2084	2038
	0.046	0.540	0.119	80	4085	4085	4085	4085	4085	3823	3729
3/8-in	0.046	0.675	0.091	40	1897	1897	1897	1897	1897	1777	1739
	0.046	0.675	0.126	80	3547	3547	3547	3547	3547	3281	3229
1/2-in	0.054	0.840	0.109	40	1879	1879	1879	1879	1879	1747	1715
	0.054	0.840	0.147	80	3301	3301	3301	3301	3301	3067	3006
3/4-in	0.054	1.050	0.113	40	1601	1601	1601	1601	1601	1493	1454
	0.054	1.050	0.154	80	2795	2795	2795	2795	2795	2605	2555
1-in	0.066	1.315	0.133	40	1438	1438	1438	1438	1438	1335	1315
	0.066	1.315	0.179	80	2505	2505	2505	2505	2505	2320	2281
1-1/4-in	0.066	1.660	0.140	40	1254	1254	1254	1254	1254	1169	1145
	0.066	1.660	0.191	80	2172	2172	2172	2172	2172	2021	1980
1-1/2-in	0.066	1.900	0.145	40	1162	1162	1162	1162	1162	1086	1064
	0.066	1.900	0.200	80	2028	2028	2028	2028	2028	1883	1846
2-in	0.066	2.375	0.154	40	1034	1034	1034	1034	1034	964	940
	0.066	2.375	0.218	80	1834	1834	1834	1834	1834	1699	1660
2-1/2-in	0.096	2.875	0.203	40	1037	1037	1037	1037	1037	964	945
	0.096	2.875	0.276	80	1785	1785	1785	1785	1785	1657	1621
3-in	0.096	3.500	0.216	40	953	953	953	953	953	886	866
	0.096	3.500	0.300	80	1657	1657	1657	1657	1657	1537	1507
4-in	0.096	4.500	0.237	40	872	872	872	872	872	809	792
	0.096	4.500	0.337	80	1518	1518	1518	1518	1518	1408	1379
6-in	0.096	6.625	0.280	40	771	771	771	771	771	713	700
	0.096	6.625	0.432	80	1434	1434	1434	1434	1434	1328	1301



**PRESSURES**

Maximum allowable working pressure - Grade B seamless carbon steel pipe threaded nipples

Size	Depth Thread	OD	Wall Thickness	Schedule	-20°-100°F (PSI)	200°F (PSI)	300°F (PSI)	400°F (PSI)	500°F (PSI)	600°F (PSI)	650°F (PSI)
1/8-in	0.027	0.405	0.068	40	4338	4338	4338	4338	4153	3809	3754
	0.027	0.405	0.095	80	7736	7736	7736	7736	7344	6696	6557
1/4-in	0.046	0.405	0.088	40	3256	3256	3256	3256	3148	2878	2814
	0.046	0.540	0.119	80	5994	5994	5994	5994	5702	5251	5164
3/8-in	0.046	0.675	0.091	40	2785	2785	2785	2785	2666	2445	2392
	0.046	0.675	0.126	80	5184	5184	5184	5184	4945	4540	4434
1/2-in	0.054	0.840	0.109	40	2751	2751	2751	2751	2629	2403	2359
	0.054	0.840	0.147	80	4849	4849	4849	4849	4595	4213	4156
	0.054	0.840	0.188	160	7289	7289	7289	7289	6924	6337	6237
3/4-in	0.054	1.050	0.113	40	2342	2342	2342	2342	2241	2055	2019
	0.054	1.050	0.154	80	4110	4110	4110	4110	3905	3573	3504
	0.054	1.050	0.219	160	7183	7183	7183	7183	6805	6224	6112
1-in	0.066	1.315	0.133	40	2108	2108	2108	2108	2016	1844	1816
	0.066	1.315	0.179	80	3683	3683	3683	3683	3486	3194	3141
	0.066	1.315	0.250	160	6294	6294	6294	6294	5955	5464	5356
1-1/4-in	0.066	1.660	0.140	40	1835	1835	1835	1835	1747	1606	1572
	0.066	1.660	0.191	80	3204	3204	3204	3204	3027	2773	2730
	0.066	1.660	0.250	160	4852	4852	4852	4852	4591	4212	4145
1-1/2-in	0.066	1.900	0.145	40	1713	1713	1713	1713	1633	1496	1466
	0.066	1.900	0.200	80	2986	2986	2986	2986	2828	2590	2539
	0.066	1.900	0.281	160	4975	4975	4975	4975	4704	4313	4237
2-in	0.066	2.375	0.154	40	1521	1521	1521	1521	1445	1322	1297
	0.066	2.375	0.218	80	2699	2699	2699	2699	2556	2338	2295
	0.066	2.375	0.344	160	5165	5165	5165	5165	4878	4468	4391
2-1/2-in	0.096	2.875	0.203	40	1529	1529	1529	1529	1449	1328	1303
	0.096	2.875	0.276	80	2632	2632	2632	2632	2486	2275	2235
	0.096	2.875	0.375	160	4205	4205	4205	4205	3968	3641	3574
3-in	0.096	3.500	0.216	40	1402	1402	1402	1402	1333	1216	1199
	0.096	3.500	0.300	80	2439	2439	2439	2439	2306	2111	2076
	0.096	3.500	0.438	160	4229	4229	4229	4229	4007	3666	3600
4-in	0.096	4.500	0.237	40	1280	1280	1280	1280	1213	1112	1093
	0.096	4.500	0.337	80	2235	2235	2235	2235	2114	1932	1903
	0.096	4.500	0.531	160	4187	4187	4187	4187	3961	3620	3560
6-in	0.096	6.625	0.280	40	1133	1133	1133	1133	1071	981	965
	0.096	6.625	0.432	80	2110	2110	2110	2110	1998	1826	1797
	0.096	6.625	0.719	160	4065	4065	4065	4065	3840	3517	3454



## THREADS

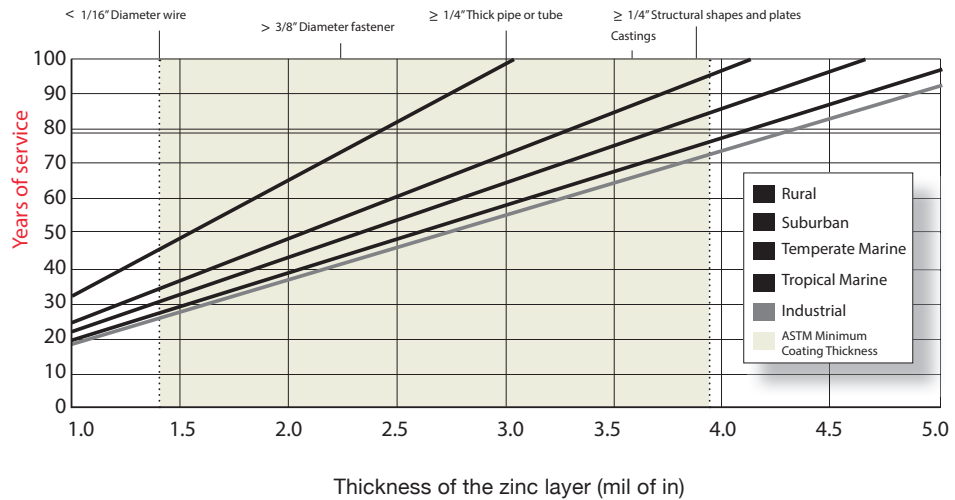
Our products comply with ASME B1.20.1 standard.

NOMINAL PIPE SIZE	OUTSIDE DIAMETER	THREADS PER INCH	PITCH OF THREAD	HANDTIGHT ENGAGEMENT		EFFECTIVE THREAD		OVERALL THREAD LENGTH	
				LENGTH		LENGTH		INCH	THREADS
				INCH	THREADS	INCH	THREADS		
1/8-in	0.4050	27	0.03704	0.1615	4.36	0.2639	7.12	0.3924	10.59
1/4-in	0.5400	18	0.05556	0.2278	4.10	0.4018	7.23	0.5946	10.70
3/8-in	0.6750	18	0.05556	0.2400	4.32	0.4078	7.34	0.6006	10.81
1/2-in	0.8400	14	0.07143	0.3200	4.48	0.5337	7.47	0.7815	10.94
3/4-in	1.0500	14	0.07143	0.3390	4.75	0.5457	7.64	0.7935	11.11
1-in	1.3150	12	0.08696	0.4000	4.60	0.6828	7.85	0.9845	11.32
1-1/4-in	1.6600	12	0.08696	0.4200	4.83	0.7068	8.13	1.0085	11.60
1-1/2-in	1.9000	12	0.08696	0.4200	4.83	0.7235	8.32	1.0252	11.79
2-in	2.3750	12	0.08696	0.4360	5.01	0.7565	8.70	1.0582	12.17
2-1/2-in	2.8750	8	0.12500	0.6820	5.46	1.1375	9.10	1.5712	12.57
3-in	3.5000	8	0.12500	0.7660	6.13	1.2000	9.60	1.6337	13.07
4-in	4.5000	8	0.12500	0.8440	6.75	1.3000	10.40	1.7337	13.87
6-in	6.6250	8	0.12500	0.9580	7.66	1.5125	12.10	1.9462	15.57



# TABLE

## Showing the Lifetime of Hot Dip Galvanized Products



### RURAL:

This is the less aggressive environment since the presence of sulfurs and emissions are very low.

### SUBURBAN:

These environments are less corrosive than industrial areas and, in general terms, are found in residential zones, peripheral communities, urban areas and cities without heavy industry.

### TEMPERATE MARINE

These areas are close to the sea coast with temperate weather making them less corrosive than industrial areas.

### TROPICAL MARINE:

These are hot weather areas considered as a less corrosive environment as they are typically located farther from industrial zones.

### INDUSTRIAL:

Most cities and urban areas fall into this aggressive environment category as they contain sulfurs and phosphates.





561-001 .....	16	453-053NL.....	35	455-074NL.....	36	461-050 .....	37
561-001HC .....	16	453-054NL.....	35	455-075NL.....	36	461-055 .....	37
563-001 .....	17	453-055NL.....	35	455-076NL.....	36	461-060 .....	37
563-001HC .....	17	453-056NL.....	35	455-077NL.....	36	462-001 .....	37
450-000NL.....	34	453-073NL.....	35	455-084NL.....	36	462-015 .....	37
450-001NL.....	34	453-074NL.....	35	455-085NL.....	36	462-020 .....	37
450-002NL.....	34	453-102NL.....	36	455-086NL.....	36	462-025 .....	37
450-003NL.....	34	453-103NL.....	36	455-087NL.....	36	462-030 .....	37
450-004NL.....	34	453-104NL.....	36	455-090NL.....	36	462-035 .....	37
450-006NL.....	34	453-105NL.....	36	455-091NL.....	36	462-040 .....	37
450-008NL.....	34	454-000NL.....	34	456-003NL.....	36	462-045 .....	37
450-032NL.....	34	454-001NL.....	34	456-004NL.....	36	462-050 .....	37
450-043NL.....	34	454-002NL.....	34	457-000NL.....	36	462-055 .....	37
450-053NL.....	34	454-003NL.....	34	457-001NL.....	36	462-060 .....	37
450-054NL.....	34	454-004NL.....	34	457-002NL.....	36	462-080 .....	37
450-075NL.....	34	454-005NL.....	34	457-003NL.....	36	463-001 .....	37
450-076NL.....	34	454-006NL.....	34	457-004NL.....	36	463-015 .....	37
450-085NL.....	34	454-007NL.....	34	457-006NL.....	36	463-020 .....	37
450-087NL.....	34	454-008NL.....	34	457-008NL.....	36	463-025 .....	37
451-000NL.....	34	454-010NL.....	35	458-000NL.....	35	463-030 .....	37
451-001NL.....	34	454-021NL.....	35	458-001NL.....	35	463-035 .....	37
451-002NL.....	34	454-025NL.....	35	458-002NL.....	35	463-040 .....	37
451-003NL.....	34	454-031NL.....	35	458-003NL.....	35	463-045 .....	37
451-004NL.....	34	454-032NL.....	35	458-004NL.....	35	463-050 .....	37
451-005NL.....	34	454-041NL.....	35	458-013NL.....	36	463-055 .....	37
451-007NL.....	34	454-042NL.....	35	458-093NL.....	35	463-060 .....	37
451-100NL.....	34	454-043NL.....	35	458-094NL.....	35	463-080 .....	37
451-101NL.....	34	454-053NL.....	35	458-095NL.....	35	463-100 .....	37
451-102NL.....	34	454-054NL.....	35	458-096NL.....	35	463-120 .....	37
451-103NL.....	34	454-064NL.....	35	458-097NL.....	35	464-001 .....	38
451-104NL.....	34	454-065NL.....	35	458-098NL.....	35	464-015 .....	38
451-105NL.....	34	454-074NL.....	35	459-000NL.....	36	464-020 .....	38
451-106NL.....	34	454-075NL.....	35	459-001NL.....	36	464-025 .....	38
452-000NL.....	34	454-076NL.....	35	459-002NL.....	36	464-030 .....	38
452-001NL.....	34	454-084NL.....	35	459-003NL.....	36	464-035 .....	38
452-002NL.....	34	454-085NL.....	35	459-004NL.....	36	464-040 .....	38
452-003NL.....	34	454-086NL.....	35	459-006NL.....	36	464-045 .....	38
452-004NL.....	34	454-087NL.....	35	459-008NL.....	36	464-050 .....	38
452-005NL.....	34	455-010NL.....	36	460-001 .....	37	464-055 .....	38
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