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

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

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.

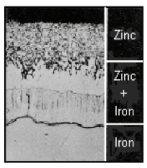
GALVANIZED FINISH

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.

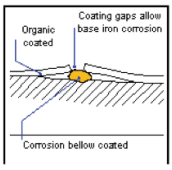
These fittings are manufactured by hot-dip galvanizing according to ASTM A-153. There are several ways to protect iron against rust, but none better than our hot-dip galvanizing process. Hot-dip galvanizing is one of the most efficient, practical and economical ways to protect iron and steel as zinc 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.

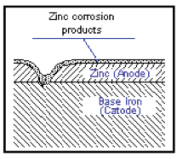


Zinc resists the environment's corrosive actions. Opposite to this, most of the organic coatings (paintings) are environmentally unstable and need to be renewed frequently. When a little failure occurs, corrosion starts and it begins to become larger under the protective coating.



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 manufactued 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= 625000*A*0.2 / U*0.9	E= 625000*A*0.2 / U*0.9

CHEMICAL PROPERTIES

Chemical composition (%) – maximum values

	CARBON	COOPER A	NICKEL A	CHROME A	MOLYDBENDUM 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