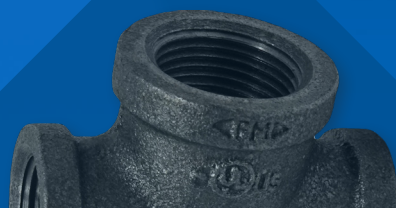




NDL Industries

Black Malleable Fittings Product Guide

High-Quality HVAC-R and Hydronic Components for
Commercial, Industrial, and Residential Applications





Black Malleable Fittings

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Black Malleable Fittings

Cutting-Edge Black Malleable Fittings for superior HVAC-R and Plumbing Solutions

- Made of black steel and are used to connect lengths of pipe together or to change direction of pipe
- Typically used in high-pressure applications such as gas lines, steam lines, and water lines. Also used in applications where pipes are exposed to corrosive elements, such as industrial settings.
- Often used in conjunction with black pipes, which are also made of black steel. Black coating on both pipe and the fittings helps protect them from rust and corrosion.
- Commonly used in plumbing and gas applications

Certifications and Approvals

- ASTM A197/A197M – Materials standard
- FM approved – Factory Mutual approvals
- ASME B16.39 – Union dimensions standard
- ASME B16.3, ASME B16.14 – Dimensions standard
- UL/cUL certified – Underwriter Laboratories certification
- NSF 61 - Drinking Water System Components standard / certified
- NSF 372 – Safe Water Drinking Act (SDWA) lead-free plumbing requirements

Symbols

M Male Threads





Black Hex Bushings (M x M)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF100-42	1/4" x 1/8" Black Hex Bushing	120	0.033	15.0
BPF100-62	3/8" x 1/8" Black Hex Bushing	75	0.047	21.3
BPF100-64	3/8" x 1/4" Black Hex Bushing	75	0.038	17.2
BPF100-82	1/2" x 1/8" Black Hex Bushing	150	0.086	39.0
BPF100-84	1/2" x 1/4" Black Hex Bushing	150	0.082	37.2
BPF100-86	1/2" x 3/8" Black Hex Bushing	150	0.065	29.5
BPF100-122	3/4" x 1/8" Black Hex Bushing	75	0.151	68.5
BPF100-124	3/4" x 1/4" Black Hex Bushing	75	0.144	65.3
BPF100-126	3/4" x 3/8" Black Hex Bushing	75	0.135	61.2
BPF100-128	3/4" x 1/2" Black Hex Bushing	75	0.112	50.8
BPF100-166	1" x 3/8" Black Hex Bushing	50	0.2	90.7
BPF100-168	1" x 1/2" Black Hex Bushing	50	0.223	101.2
BPF100-1612	1" x 3/4" Black Hex Bushing	50	0.183	83.0
BPF100-208	1-1/4" x 1/2" Black Hex Bushing	30	0.322	146.1
BPF100-2012	1-1/4" x 3/4" Black Hex Bushing	30	0.366	166.0
BPF100-2016	1-1/4" x 1" Black Hex Bushing	30	0.277	125.6
BPF100-244	1-1/2" x 1/4" Black Hex Bushing	25	0.371	168.3
BPF100-246	1-1/2" x 3/8" Black Hex Bushing	25	0.352	159.7
BPF100-248	1-1/2" x 1/2" Black Hex Bushing	25	0.389	176.4
BPF100-2412	1-1/2" x 3/4" Black Hex Bushing	25	0.435	197.3
BPF100-2416	1-1/2" x 1" Black Hex Bushing	25	0.451	204.6
BPF100-2420	1-1/2" x 1-1/4" Black Hex Bushing	25	0.308	139.7
BPF100-328	2" x 1/2" Black Hex Bushing	20	0.523	237.2
BPF100-3212	2" x 3/4" Black Hex Bushing	20	0.587	266.3
BPF100-3216	2" x 1" Black Hex Bushing	20	0.616	279.4
BPF100-3220	2" x 1-1/4" Black Hex Bushing	20	0.74	335.7
BPF100-3224	2" x 1-1/2" Black Hex Bushing	20	0.616	279.4
BPF100-408	2-1/2" x 1/2" Black Hex Bushing	15	0.905	410.5
BPF100-4012	2-1/2" x 3/4" Black Hex Bushing	15	0.985	446.8
BPF100-4016	2-1/2" x 1" Black Hex Bushing	EA	1.041	472.2
BPF100-4020	2-1/2" x 1-1/4" Black Hex Bushing	15	1.045	474.0
BPF100-4024	2-1/2" x 1-1/2" Black Hex Bushing	15	1.14	517.1





Black Hex Bushings (M x M) - Continued

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF100-4032	2-1/2" x 2" Black Hex Bushing	15	1.101	499.4
BPF100-4816	3" x 1" Black Hex Bushing	12	1.422	645.0
BPF100-4820	3" x 1-1/4" Black Hex Bushing	12	1.533	695.4
BPF100-4824	3" x 1-1/2" Black Hex Bushing	12	1.633	740.7
BPF100-4832	3" x 2" Black Hex Bushing	12	1.889	856.8
BPF100-4840	3" x 2-1/2" Black Hex Bushing	12	1.824	827.4
BPF100-6416	4" x 1" Black Hex Bushing	5	2.602	1180.2
BPF100-6420	4" x 1-1/4" Black Hex Bushing	5	2.746	1245.6
BPF100-6424	4" x 1-1/2" Black Hex Bushing	5	2.569	1165.3
BPF100-6432	4" x 2" Black Hex Bushing	5	2.596	1177.5
BPF100-6440	4" x 2-1/2" Black Hex Bushing	5	2.982	1352.6
BPF100-6448	4" x 3" Black Hex Bushing	5	2.814	1276.4



Black Caps

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF104-2	1/8" Black Cap	120	0.03	13.6
BPF104-4	1/4" Black Cap	80	0.049	22.2
BPF104-6	3/8" Black Cap	60	0.077	34.9
BPF104-8	1/2" Black Cap	75	0.113	51.3
BPF104-12	3/4" Black Cap	40	0.183	83.0
BPF104-16	1" Black Cap	25	0.306	138.8
BPF104-20	1-1/4" Black Cap	20	0.451	204.6
BPF104-24	1-1/2" Black Cap	18	0.554	251.3
BPF104-32	2" Black Cap	12	0.878	398.3
BPF104-40	2-1/2" Black Cap	20	1.57	712.1
BPF104-48	3" Black Cap	EA	2.209	1002.0
BPF104-64	4" Black Cap	6	3.811	1728.6



Black Couplings

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF99-2	1/8" Black Coupling	70	0.054	24.5
BPF99-4	1/4" Black Coupling	40	0.084	38.1
BPF99-6	3/8" Black Coupling	40	0.122	55.3
BPF99-8	1/2" Black Coupling	60	0.176	79.8
BPF99-12	3/4" Black Coupling	50	0.279	126.6
BPF99-16	1" Black Coupling	25	0.434	196.9
BPF99-20	1-1/4" Black Coupling	16	0.694	314.8
BPF99-24	1-1/2" Black Coupling	18	0.927	420.5
BPF99-32	2" Black Coupling	12	1.387	629.1
BPF99-40	2-1/2" Black Coupling	8	2.35	1065.9
BPF99-48	3" Black Coupling	EA	3.37	1528.6
BPF99-64	4" Black Coupling	3	5.602	2541.0



Black Reducing Couplings (M x M)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF98R-42	1/4" x 1/8" Black Reducing Coupling	50	0.068	30.8
BPF98R-62	3/8" x 1/8" Black Reducing Coupling	35	0.093	42.2
BPF98R-64	3/8" x 1/4" Black Reducing Coupling	30	0.106	48.1
BPF98R-82	1/2" x 1/8" Black Reducing Coupling	150	0.128	58.1
BPF98R-84	1/2" x 1/4" Black Reducing Coupling	150	0.134	60.8
BPF98R-86	1/2" x 3/8" Black Reducing Coupling	60	0.149	67.6
BPF98R-122	3/4" x 1/8" Black Reducing Coupling	70	0.181	82.1
BPF98R-124	3/4" x 1/4" Black Reducing Coupling	45	0.204	92.5
BPF98R-126	3/4" x 3/8" Black Reducing Coupling	45	0.217	98.4
BPF98R-128	3/4" x 1/2" Black Reducing Coupling	60	0.244	110.7
BPF98R-164	1" x 1/4" Black Reducing Coupling	45	0.287	130.2
BPF98R-166	1" x 3/8" Black Reducing Coupling	30	0.304	137.9
BPF98R-168	1" x 1/2" Black Reducing Coupling	30	0.349	158.3
BPF98R-1612	1" x 3/4" Black Reducing Coupling	25	0.387	175.5
BPF98R-208	1-1/4" x 1/2" Black Reducing Coupling	25	0.494	224.1
BPF98R-2012	1-1/4" x 3/4" Black Reducing Coupling	25	0.538	244.0



Black Reducing Couplings (M x M) - Continued

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF98R-2016	1-1/4" x 1" Black Reducing Coupling	15	0.589	267.2
BPF98R-246	1-1/2" x 3/8" Black Reducing Coupling	20	0.644	292.1
BPF98R-248	1-1/2" x 1/2" Black Reducing Coupling	20	0.614	278.5
BPF98R-2412	1-1/2" x 3/4" Black Reducing Coupling	15	0.681	308.9
BPF98R-2416	1-1/2" x 1" Black Reducing Coupling	25	0.759	344.3
BPF98R-2420	1-1/2" x 1-1/4" Black Reducing Coupling	12	0.818	371.0
BPF98R-328	2" x 1/2" Black Reducing Coupling	12	0.996	451.8
BPF98R-3212	2" x 3/4" Black Reducing Coupling	12	0.974	441.8
BPF98R-3216	2" x 1" Black Reducing Coupling	12	1.033	468.6
BPF98R-3220	2" x 1-1/4" Black Reducing Coupling	9	1.129	512.1
BPF98R-3224	2" x 1-1/2" Black Reducing Coupling	9	1.242	563.4
BPF98R-408	2-1/2" x 1/2" Black Reducing Coupling	EA	1.631	739.8
BPF98R-4012	2-1/2" x 3/4" Black Reducing Coupling	10	1.696	769.3
BPF98R-4016	2-1/2" x 1" Black Reducing Coupling	10	1.77	802.9
BPF98R-4020	2-1/2" x 1-1/4" Black Reducing Coupling	10	1.819	825.1
BPF98R-4024	2-1/2" x 1-1/2" Black Reducing Coupling	7	1.906	864.5
BPF98R-4032	2-1/2" x 2" Black Reducing Coupling	7	2.119	961.2
BPF98R-4816	3" x 1" Black Reducing Coupling	6	2.49	1129.4
BPF98R-4820	3" x 1-1/4" Black Reducing Coupling	6	2.556	1159.4
BPF98R-4824	3" x 1-1/2" Black Reducing Coupling	6	2.706	1227.4
BPF98R-4832	3" x 2" Black Reducing Coupling	6	2.783	1262.3
BPF98R-4840	3" x 2-1/2" Black Reducing Coupling	5	3.156	1431.5
BPF98R-6416	4" x 1" Black Reducing Coupling	3	4.004	1816.2
BPF98R-6420	4" x 1-1/4" Black Reducing Coupling	3	4.148	1881.5
BPF98R-6424	4" x 1-1/2" Black Reducing Coupling	3	4.224	1916.0
BPF98R-6432	4" x 2" Black Reducing Coupling	3	4.348	1972.2
BPF98R-6440	4" x 2-1/2" Black Reducing Coupling	3	4.829	2190.4
BPF98R-6448	4" x 3" Black Reducing Coupling	3	5.446	2470.3





Black Crosses

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF314-2	1/8" Black Cross	30	0.115	52.2
BPF314-4	1/4" Black Cross	60	0.179	81.2
BPF314-6	3/8" Black Cross	50	0.259	117.5
BPF314-8	1/2" Black Cross	30	0.377	171.0
BPF314-12	3/4" Black Cross	20	0.606	274.9
BPF314-16	1" Black Cross	15	0.935	424.1
BPF314-20	1-1/4" Black Cross	10	1.507	683.6
BPF314-24	1-1/2" Black Cross	8	1.881	853.2
BPF314-32	2" Black Cross	5	2.937	1332.2
BPF314-40	2-1/2" Black Cross	3	5.221	2368.2
BPF314-48	3" Black Cross	2	7.287	3305.3
BPF314-64	4" Black Cross	EA	12.609	5719.3



Black 45° Elbows

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF309-45-2	1/8" Black 45° Elbow	50	0.064	29.0
BPF309-45-4	1/4" Black 45° Elbow	30	0.098	44.5
BPF309-45-6	3/8" Black 45° Elbow	75	0.148	67.1
BPF309-45-8	1/2" Black 45° Elbow	50	0.201	91.2
BPF309-45-12	3/4" Black 45° Elbow	40	0.329	149.2
BPF309-45-16	1" Black 45° Elbow	20	0.521	236.3
BPF309-45-20	1-1/4" Black 45° Elbow	20	0.777	352.4
BPF309-45-24	1-1/2" Black 45° Elbow	10	1.01	458.1
BPF309-45-32	2" Black 45° Elbow	12	1.639	743.4
BPF309-45-40	2-1/2" Black 45° Elbow	EA	2.928	1328.1
BPF309-45-48	3" Black 45° Elbow	EA	4.169	1891.0
BPF309-45-64	4" Black 45° Elbow	2	7.018	3183.3



Black 45° Street Elbows

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF310-45-2	1/8" Black 45° Street Elbow	70	0.052	23.6
BPF310-45-4	1/4" Black 45° Street Elbow	40	0.081	36.7
BPF310-45-6	3/8" Black 45° Street Elbow	100	0.12	54.4
BPF310-45-8	1/2" Black 45° Street Elbow	75	0.173	78.5
BPF310-45-12	3/4" Black 45° Street Elbow	40	0.282	127.9
BPF310-45-16	1" Black 45° Street Elbow	25	0.452	205.0
BPF310-45-20	1-1/4" Black 45° Street Elbow	10	0.711	322.5
BPF310-45-24	1-1/2" Black 45° Street Elbow	10	0.914	414.6
BPF310-45-32	2" Black 45° Street Elbow	12	1.507	683.6
BPF310-45-40	2-1/2" Black 45° Street Elbow	6	2.632	1193.9
BPF310-45-48	3" Black 45° Street Elbow	3	3.908	1772.6
BPF310-45-64	4" Black 45° Street Elbow	EA	6.966	3159.7



Black 90° Long Run Elbows

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF309-2	1/8" Black 90° LR Elbow	50	0.064	29.0
BPF309-4	1/4" Black 90° LR Elbow	35	0.102	46.3
BPF309-6	3/8" Black 90° LR Elbow	90	0.151	68.5
BPF309-8	1/2" Black 90° LR Elbow	50	0.224	101.6
BPF309-12	3/4" Black 90° LR Elbow	35	0.359	162.8
BPF309-16	1" Black 90° LR Elbow	20	0.572	259.5
BPF309-20	1-1/4" Black 90° LR Elbow	20	0.901	408.7
BPF309-24	1-1/2" Black 90° LR Elbow	15	1.238	561.5
BPF309-32	2" Black 90° LR Elbow	8	1.866	846.4
BPF309-40	2-1/2" Black 90° LR Elbow	EA	3.369	1528.2
BPF309-48	3" Black 90° LR Elbow	EA	5.225	2370.0
BPF309-64	4" Black 90° LR Elbow	EA	8.885	4030.2



Black 90° Reducing Elbows

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF309R-62	3/8" x 1/8" Black 90° Reducing Elbow	105	0.107	48.5
BPF309R-64	3/8" x 1/4" Black 90° Reducing Elbow	90	0.127	57.6
BPF309R-82	1/2" x 1/8" Black 90° Reducing Elbow	60	0.142	64.4
BPF309R-84	1/2" x 1/4" Black 90° Reducing Elbow	60	0.164	74.4
BPF309R-86	1/2" x 3/8" Black 90° Reducing Elbow	60	0.184	83.5
BPF309R-124	3/4" x 1/4" Black 90° Reducing Elbow	40	0.22	99.8
BPF309R-126	3/4" x 3/8" Black 90° Reducing Elbow	EA	0.256	116.1
BPF309R-128	3/4" x 1/2" Black 90° Reducing Elbow	40	0.305	138.3
BPF309R-168	1" x 1/2" Black 90° Reducing Elbow	25	0.415	188.2
BPF309R-1612	1" x 3/4" Black 90° Reducing Elbow	50	0.494	224.1
BPF309R-208	1-1/4" x 1/2" Black 90° Reducing Elbow	20	0.559	253.6
BPF309R-2012	1-1/4" x 3/4" Black 90° Reducing Elbow	10	0.647	293.5
BPF309R-2016	1-1/4" x 1" Black 90° Reducing Elbow	15	0.757	343.4
BPF309R-248	1-1/2" x 1/2" Black 90° Reducing Elbow	25	0.655	297.1
BPF309R-2412	1-1/2" x 3/4" Black 90° Reducing Elbow	15	0.753	341.6
BPF309R-2416	1-1/2" x 1" Black 90° Reducing Elbow	20	0.902	409.1
BPF309R-2420	1-1/2" x 1-1/4" Black 90° Reducing Elbow	15	1.032	468.1
BPF309R-328	2" x 1/2" Black 90° Reducing Elbow	10	0.953	432.3
BPF309R-3212	2" x 3/4" Black 90° Reducing Elbow	9	1.073	486.7
BPF309R-3216	2" x 1" Black 90° Reducing Elbow	14	1.252	567.9
BPF309R-3220	2" x 1-1/4" Black 90° Reducing Elbow	10	1.363	618.2
BPF309R-3224	2" x 1-1/2" Black 90° Reducing Elbow	10	1.56	707.6
BPF309R-4016	2-1/2" x 1" Black 90° Reducing Elbow	15	1.877	851.4
BPF309R-4020	2-1/2" x 1-1/4" Black 90° Reducing Elbow	8	2.099	952.1
BPF309R-4024	2-1/2" x 1-1/2" Black 90° Reducing Elbow	6	2.207	1001.1
BPF309R-4032	2-1/2" x 2" Black 90° Reducing Elbow	5	2.531	1148.0
BPF309R-4832	3" x 2" Black 90° Reducing Elbow	4	3.448	1564.0
BPF309R-4840	3" x 2-1/2" Black 90° Reducing Elbow	4	4.125	1871.1
BPF309R-6432	4" x 2" Black 90° Reducing Elbow	2	5.028	2280.7
BPF309R-6440	4" x 2-1/2" Black 90° Reducing Elbow	EA	5.805	2633.1
BPF309R-6448	4" x 3" Black 90° Reducing Elbow	EA	6.665	3023.2





Black 90° Side Outlet Elbows

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF1221-8	1/2" Black 90° Elbow Side Outlet	45	0.271	122.9
BPF1221-12	3/4" Black 90° Elbow Side Outlet	40	0.463	210.0
BPF1221-16	1" Black 90° Elbow Side Outlet	20	0.688	312.1
BPF1221-20	1-1/4" Black 90° Elbow Side Outlet	15	0.771	349.7
BPF1221-24	1-1/2" Black 90° Elbow Side Outlet	18	1.44	653.2
BPF1221-32	2" Black 90° Elbow Side Outlet	12	2.246	1018.8



Black 90° Street Elbows

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF310-2	1/8" Black 90° Street Elbow	60	0.053	24.0
BPF310-4	1/4" Black 90° Street Elbow	35	0.097	44.0
BPF310-6	3/8" Black 90° Street Elbow	60	0.15	68.0
BPF310-8	1/2" Black 90° Street Elbow	60	0.208	94.3
BPF310-12	3/4" Black 90° Street Elbow	35	0.346	156.9
BPF310-16	1" Black 90° Street Elbow	45	0.54	244.9
BPF310-20	1-1/4" Black 90° Street Elbow	25	0.813	368.8
BPF310-24	1-1/2" Black 90° Street Elbow	9	1.18	535.2
BPF310-32	2" Black 90° Street Elbow	8	1.844	836.4
BPF310-40	2-1/2" Black 90° Street Elbow	5	3.275	1485.5
BPF310-48	3" Black 90° Street Elbow	EA	4.912	2228.0
BPF310-64	4" Black 90° Street Elbow	2	9.282	4210.2



Black Floor Flanges

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF321-4	1/4" Black Floor Flange	30	0.263	119.3
BPF321-6	3/8" Black Floor Flange	25	0.25	113.4
BPF321-8	1/2" Black Floor Flange	25	0.355	161.0
BPF321-11	2" Black Floor Flange	8	1.549	702.6
BPF321-12	3/4" Black Floor Flange	15	0.494	224.1
BPF321-16	1" Black Floor Flange	15	0.637	288.9



Black Floor Flanges - Continued

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF321-20	1-1/4" Black Floor Flange	10	0.834	378.3
BPF321-24	1-1/2" Black Floor Flange	8	1.114	505.3
BPF321-48	3" Black Floor Flange	EA	4.498	2040.3



Black Lock Nuts

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF319-2	1/8" Black Lock Nut	250	0.015	6.8
BPF319-4	1/4" Black Lock Nut	125	0.033	15.0
BPF319-6	3/8" Black Lock Nut	125	0.045	20.4
BPF319-8	1/2" Black Lock Nut	150	0.056	25.4
BPF319-12	3/4" Black Lock Nut	90	0.088	39.9
BPF319-16	1" Black Lock Nut	60	0.141	64.0
BPF319-20	1-1/4" Black Lock Nut	45	0.197	89.4
BPF319-24	1-1/2" Black Lock Nut	45	0.258	117.0
BPF319-32	2" Black Lock Nut	25	0.405	183.7
BPF319-40	2-1/2" Black Lock Nut	20	0.674	305.7



Black Square Cored Plugs

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF102-8	1/2" Black Square Cored Plug	50	0.081	36.7
BPF102-12	3/4" Black Square Cored Plug	30	0.131	59.4
BPF102-16	1" Black Square Cored Plug	EA	0.192	87.1
BPF102-20	1-1/4" Black Square Cored Plug	EA	0.314	142.4
BPF102-24	1-1/2" Black Square Cored Plug	EA	0.416	188.7
BPF102-32	2" Black Square Cored Plug	EA	0.644	292.1



Black Square Head Solid Plugs

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF101-2	1/8" Black Square Head Solid Plug	400	0.016	7.3
BPF101-4	1/4" Black Square Head Solid Plug	150	0.033	15.0
BPF101-6	3/8" Black Square Head Solid Plug	120	0.048	21.8
BPF101-8	1/2" Black Square Head Solid Plug	50	0.081	36.7
BPF101-12	3/4" Black Square Head Solid Plug	35	0.131	59.4
BPF101-16	1" Black Square Head Solid Plug	20	0.192	87.1
BPF101-20	1-1/4" Black Square Head Solid Plug	30	0.314	142.4
BPF101-24	1-1/2" Black Square Head Solid Plug	30	0.416	188.7
BPF101-32	2" Black Square Head Solid Plug	20	0.644	292.1
BPF101-40	2-1/2" Black Square Head Solid Plug	24	1.038	470.8
BPF101-48	3" Black Square Head Solid Plug	20	1.592	722.1
BPF101-64	4" Black Square Head Solid Plug	6	2.613	1185.2



Black Tees

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF311-2	1/8" Black Tee	120	0.093	42.2
BPF311-4	1/4" Black Tee	75	0.145	65.8
BPF311-6	3/8" Black Tee	45	0.215	97.5
BPF311-8	1/2" Black Tee	40	0.317	143.8
BPF311-12	3/4" Black Tee	35	0.515	233.6
BPF311-16	1" Black Tee	20	0.831	376.9
BPF311-20	1-1/4" Black Tee	14	1.219	552.9
BPF311-24	1-1/2" Black Tee	12	1.678	761.1
BPF311-32	2" Black Tee	8	2.454	1113.1
BPF311-40	2-1/2" Black Tee	4	4.509	2045.2
BPF311-48	3" Black Tee	EA	6.546	2969.2
BPF311-64	4" Black Tee	EA	11.362	5153.7



Black Reducing Tees (M x M)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF311R-442	1/4" x 1/4" x 1/8" Black Reducing Tee	25	0.124	56.2
BPF311R-662	3/8" x 3/8" x 1/8" Black Reducing Tee	90	0.173	78.5
BPF311R-664	3/8" x 3/8" x 1/4" Black Reducing Tee	60	0.193	87.5
BPF311R-882	1/2" x 1/2" x 1/8" Black Reducing Tee	40	0.234	106.1
BPF311R-884	1/2" x 1/2" x 1/4" Black Reducing Tee	40	0.245	111.1
BPF311R-886	1/2" x 1/2" x 3/8" Black Reducing Tee	40	0.276	125.2
BPF311R-12124	3/4" x 3/4" x 1/4" Black Reducing Tee	25	0.364	165.1
BPF311R-12126	3/4" x 3/4" x 3/8" Black Reducing Tee	25	0.401	181.9
BPF311R-12128	3/4" x 3/4" x 1/2" Black Reducing Tee	20	0.451	204.6
BPF311R-16164	1" x 1" x 1/4" Black Reducing Tee	20	0.551	249.9
BPF311R-16166	1" x 1" x 3/8" Black Reducing Tee	15	0.593	269.0
BPF311R-16168	1" x 1" x 1/2" Black Reducing Tee	15	0.639	289.8
BPF311R-161620	1" x 1" x 1-1/4" Black Reducing Tee	11	0.984	446.3
BPF311R-32328	2" x 2" x 1/2" Black Reducing Tee	10	1.546	701.3
BPF311R-323212	2" x 2" x 3/4" Black Reducing Tee	10	1.67	757.5
BPF311R-323216	2" x 2" x 1" Black Reducing Tee	10	1.799	816.0
BPF311R-323220	2" x 2" x 1-1/4" Black Reducing Tee	8	1.993	904.0
BPF311R-323224	2" x 2" x 1-1/2" Black Reducing Tee	8	2.14	970.7
BPF311R-40408	2-1/2" x 2-1/2" x 1/2" Black Reducing Tee	6	2.625	1190.7
BPF311R-404012	2-1/2" x 2-1/2" x 3/4" Black Reducing Tee	6	2.672	1212.0
BPF311R-404016	2-1/2" x 2-1/2" x 1" Black Reducing Tee	5	2.926	1327.2
BPF311R-404020	2-1/2" x 2-1/2" x 1-1/4" Black Reducing Tee	5	3.092	1402.5
BPF311R-404024	2-1/2" x 2-1/2" x 1-1/2" Black Reducing Tee	5	3.299	1496.4
BPF311R-404032	2-1/2" x 2-1/2" x 2" Black Reducing Tee	4	3.655	1657.9
BPF311R-484812	3" x 3" x 3/4" Black Reducing Tee	3	3.811	1728.6
BPF311R-484816	3" x 3" x 1" Black Reducing Tee	3	4.04	1832.5
BPF311R-484820	3" x 3" x 1-1/4" Black Reducing Tee	3	4.267	1935.5
BPF311R-484824	3" x 3" x 1-1/2" Black Reducing Tee	3	4.462	2023.9
BPF311R-484832	3" x 3" x 2" Black Reducing Tee	3	5.019	2276.6
BPF311R-484840	3" x 3" x 2-1/2" Black Reducing Tee	3	5.698	2584.6
BPF311R-646416	4" x 4" x 1" Black Reducing Tee	2	6.651	3016.8
BPF311R-646420	4" x 4" x 1-1/4" Black Reducing Tee	2	6.948	3151.6





Black Reducing Tees (M x M)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF311R-646424	4" x 4" x 1-1/2" Black Reducing Tee	2	7.133	3235.5
BPF311R-646432	4" x 4" x 2" Black Reducing Tee	EA	7.74	3510.8
BPF311R-646440	4" x 4" x 2-1/2" Black Reducing Tee	EA	8.702	3947.2
BPF311R-646448	4" x 4" x 3" Black Reducing Tee	EA	9.525	4320.5



Black Reducing Tees (M x M)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF311R-868	1/2" x 3/8" x 1/2" Black Reducing Tee	30	0.291	132
BPF311R-1288	3/4" x 1/2" x 1/2" Black Reducing Tee	25	0.394	178.7
BPF311R-12812	3/4" x 1/2" x 3/4" Black Reducing Tee	20	0.459	208.2
BPF311R-1688	1" x 1/2" x 1/2" Black Reducing Tee	20	0.51	231.3
BPF311R-168128	1" x 3/4" x 1/2" Black Reducing Tee	20	0.563	255.4
BPF311R-12816	3/4" x 1/2" x 1" Black Reducing Tee	18	0.579	262.6
BPF311R-16812	1" x 1/2" x 3/4" Black Reducing Tee	20	0.591	268.1
BPF311R-161212	1" x 3/4" x 3/4" Black Reducing Tee	15	0.628	284.9
BPF311R-2088	1-1/4" x 1/2" x 1/2" Black Reducing Tee	25	0.633	287.1
BPF311R-20812	1-1/4" x 1/2" x 3/4" Black Reducing Tee	25	0.679	308
BPF311R-16816	1" x 1/2" x 1" Black Reducing Tee	15	0.689	312.5
BPF311R-161216	1" x 3/4" x 1" Black Reducing Tee	12	0.742	336.6
BPF311R-2488	1-1/2" x 1/2" x 1/2" Black Reducing Tee	12	0.746	338.4
BPF311R-201212	1-1/4" x 3/4" x 3/4" Black Reducing Tee	10	0.746	338.4
BPF311R-20168	1-1/4" x 1" x 1/2" Black Reducing Tee	20	0.755	342.5
BPF311R-20128	1-1/4" x 3/4" x 1/2" Black Reducing Tee	10	0.786	356.5
BPF311R-20816	1-1/4" x 1/2" x 1" Black Reducing Tee	20	0.815	369.7
BPF311R-21612	1-1/4" x 1" x 3/4" Black Reducing Tee	20	0.858	389.2
BPF311R-201216	1-1/4" x 3/4" x 1" Black Reducing Tee	10	0.875	396.9
BPF311R-24812	1-1/2" x 1/2" x 3/4" Black Reducing Tee	12	0.893	405.1
BPF311R-20820	1-1/4" x 1/2" x 1-1/4" Black Reducing Tee	20	0.951	431.4
BPF311R-24816	1-1/2" x 1/2" x 1" Black Reducing Tee	18	0.987	447.7
BPF311R-201220	1-1/4" x 3/4" x 1-1/4" Black Reducing Tee	20	1	453.6
BPF311R-201620	1-1/4" x 1" x 1-1/4" Black Reducing Tee	15	1.101	499.4



Black Reducing Tees (M x M) - Continued

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF311R-201616	1-1/4" x 1" x 1" Black Reducing Tee	20	1.119	507.6
BPF311R-24820	1-1/2" x 1/2" x 1-1/4" Black Reducing Tee	15	1.149	521.2
BPF311R-321212	2" x 3/4" x 3/4" Black Reducing Tee	12	1.167	529.3
BPF311R-24824	1-1/2" x 1/2" x 1-1/2" Black Reducing Tee	12	1.242	563.4
BPF311R-201624	1-1/4" x 1" x 1-1/2" Black Reducing Tee	18	1.256	569.7
BPF311R-321616	2" x 1" x 1" Black Reducing Tee	12	1.401	635.5
BPF311R-322412	2" x 1-1/2" x 3/4" Black Reducing Tee	10	1.445	655.4
BPF311R-322016	2" x 1-1/4" x 1" Black Reducing Tee	8	1.457	660.9
BPF311R-322416	2" x 1-1/2" x 1" Black Reducing Tee	10	1.587	719.9
BPF311R-322020	2" x 1-1/4" x 1-1/4" Black Reducing Tee	8	1.642	744.8
BPF311R-322420	2" x 1-1/2" x 1-1/4" Black Reducing Tee	8	1.765	800.6
BPF311R-322024	2" x 1-1/4" x 1-1/2" Black Reducing Tee	8	1.801	816.9
BPF311R-322424	2" x 1-1/2" x 1-1/2" Black Reducing Tee	8	1.884	854.6
BPF311R-321232	2" x 3/4" x 2" Black Reducing Tee	8	2	907.2
BPF311R-32832	2" x 1/2" x 2" Black Reducing Tee	8	2.043	926.7
BPF311R-321632	2" x 1" x 2" Black Reducing Tee	8	2.07	938.9
BPF311R-322032	2" x 1-1/4" x 2" Black Reducing Tee	8	2.161	980.2
BPF311R-322432	2" x 1-1/2" x 2" Black Reducing Tee	8	2.256	1023.3
BPF311R-403232	2-1/2" x 2" x 2" Black Reducing Tee	5	3.256	1476.9
BPF311R-403240	2-1/2" x 2" x 2-1/2" Black Reducing Tee	4	3.888	1763.6



Black Reducing Tees (M x M)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF311R-8812	1/2" x 1/2" x 3/4" Black Reducing Tee	30	0.392	177.8
BPF311R-8816	1/2" x 1/2" x 1" Black Reducing Tee	25	0.493	223.6
BPF311R-121216	3/4" x 3/4" x 1" Black Reducing Tee	40	0.635	288
BPF311R-121220	3/4" x 3/4" x 1-1/4" Black Reducing Tee	20	0.765	347
BPF311R-161620	1" x 1" x 1-1/4" Black Reducing Tee	11	0.984	446.3
BPF311R-161624	1" x 1" x 1-1/2" Black Reducing Tee	9	1.123	509.4
BPF311R-202024	1-1/4" x 1-1/4" x 1-1/2" Black Reducing Tee	EA	1.363	618.2
BPF311R-161632	1" x 1" x 2" Black Reducing Tee	12	1.457	660.9





Black Reducing Tees (M x M)

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF311R-202032	1-1/4" x 1-1/4" x 2" Black Reducing Tee	12	1.699	770.7
BPF311R-242432	1-1/2" x 1-1/2" x 2" Black Reducing Tee	8	1.977	896.8
BPF311R-242440	1-1/2" x 1-1/2" x 2-1/2" Black Reducing Tee	8	2.589	1174.3
BPF311R-323240	2" x 2" x 2-1/2" Black Reducing Tee	4	3.261	1479.2



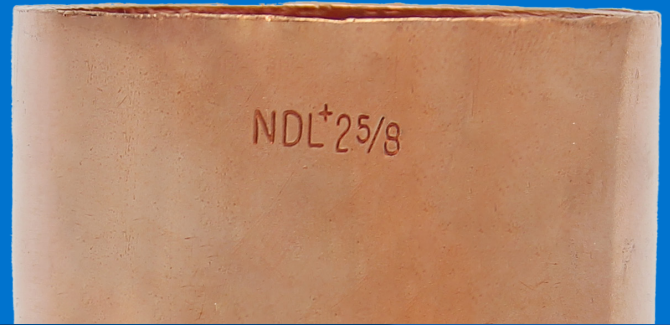
Black Unions

PART #	OD - DESCRIPTION	BOX QTY	WT (LB)	WT (G)
BPF107-2	1/8" Black Union	60	0.163	73.8
BPF107-4	1/4" Black Union	20	0.224	101.4
BPF107-6	3/8" Black Union	40	0.328	148.7
BPF107-8	1/2" Black Union	50	0.395	179.0
BPF107-12	3/4" Black Union	35	0.581	263.4
BPF107-16	1" Black Union	20	0.842	381.7
BPF107-20	1-1/4" Black Union	15	1.191	540.3
BPF107-24	1-1/2" Black Union	10	1.716	778.4
BPF107-32	2" Black Union	6	2.160	979.8
BPF107-40	2-1/2" Black Union	4	3.745	1698.7
BPF107-48	3" Black Union	4	4.676	2120.8
BPF107-64	4" Black Union	2	8.393	3806.8



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