



ODLEWNIA ŹELIWA
GRUPA GWARANT

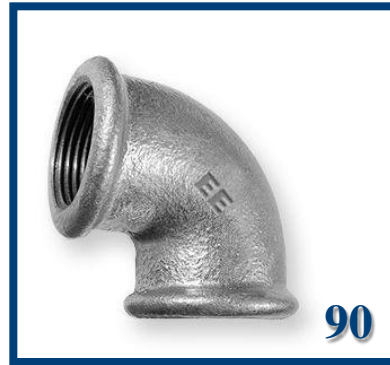
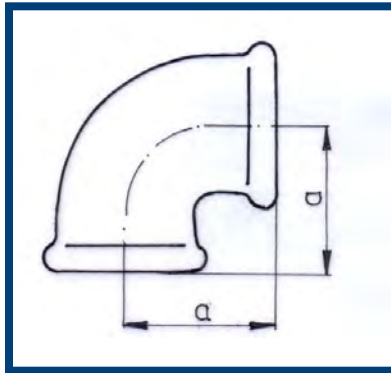
CATALOGUE OF FITTINGS







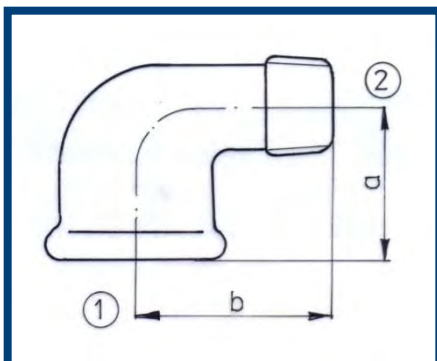
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Elbows 90°

Dimension [inch] (1)x(2)	Weight of carton [kg]		Quantity in carton [pc.]	Dimension [mm]	
	black	galv.		a	b
1/4	12	12	250	21	21
3/8	11	12	200	25	25
1/2	13	13	150	28	28
3/4	12	12	80	33	33
1	22	23	100	38	38
1 1/4	23	24	60	45	45
1 1/2	24	25	50	50	50
2	17	17	25	58	58
2 1/2	17	18	15	69	69
3	15	16	10	78	78
4	11	12	4	96	96
3/8 x 1/4	11	12	200	23	23
1/2 x 1/4	11	11	150	24	24
1/2 x 3/8	12	12	150	26	26
3/4 x 1/4	10	11	100	26	27
3/4 x 3/8	11	11	100	28	28
3/4 x 1/2	12	13	100	30	31
1 x 3/8	23	24	150	30	32

Dimension [inch] (1)x(2)	Weight of carton [kg]		Quantity in carton [pc.]	Dimension [mm]	
	black	galv.		a	b
1 x 1/2	24	26	150	32	34
1 x 3/4	20	20	100	35	36
1 1/4 x 1/2	20	23	80	35	38
1 1/4 x 3/4	22	23	80	36	41
1 1/4 x 1	22	24	70	40	42
1 1/2 x 1/2	23	25	80	36	43
1 1/2 x 3/4	22	24	70	38	44
1 1/2 x 1	22	23	60	42	46
1 1/2 x 1 1/4	22	23	50	46	48
2 x 1/2	22	24	55	38	48
2 x 3/4	22	23	50	40	50
2 x 1	23	24	50	44	52
2 x 1 1/4	23	24	40	48	54
2 x 1 1/2	22	23	35	52	55
2 1/2 x 1 1/2	23	24	23	55	63
2 1/2 x 2	23	24	23	61	66
3 x 1 1/2	24	24	20	58	71
3 x 2	22	23	16	64	73
3 x 2 1/2	24	25	15	72	76

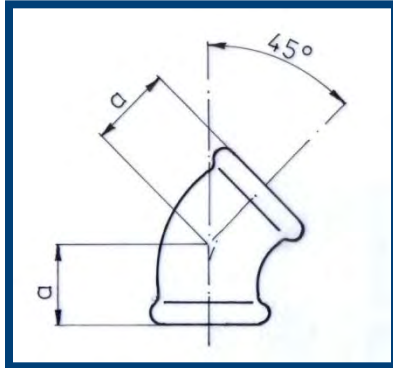


Elbows 90°

Dimension [inch] (1)x(2)	Weight of carton [kg]		Quantity in carton [pc.]	Dimension [mm]	
	black	galv.		a	b
1/4	12	13	300	21	28
3/8	14	15	250	25	32
1/2	14	15	150	28	37
3/4	11	12	80	33	43
1	22	23	100	38	52
1 1/4	22	22	55	45	60
1 1/2	23	24	45	50	65
2	18	19	25	58	74
2 1/2	17	17	15	69	88
3	17	17	10	78	98
4	12	13	4	96	118
1/2 x 3/8	11	11	150	26	33
3/4 x 1/2	10	11	80	30	40
1 x 3/4	22	24	120	35	46

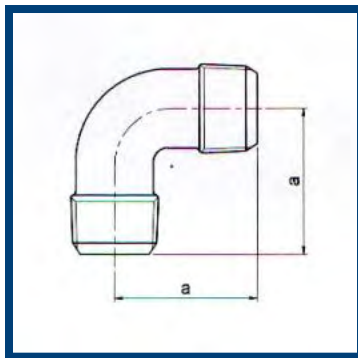


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Elbows 45°

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
1/2	13	13	150	22
3/4	11	11	80	25
1	21	22	100	28

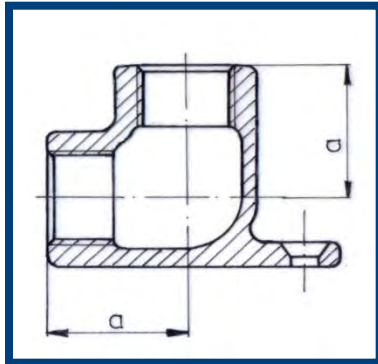


Elbows 90°

Wymiar [cale]	Waga kartonu [kg]		Ilość w kartonie [szt.]	Wymiar a [mm]
	czarne	białe		
1/2	9	9	100	37
3/4	7	8	60	40
1	7	7	30	47

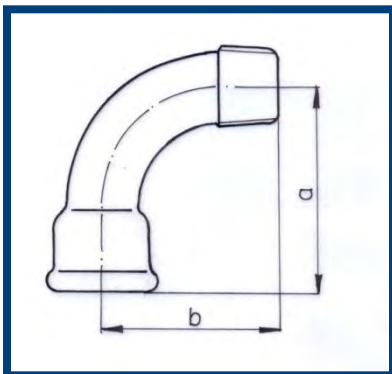


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Bracket Elbows

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
1/2	11	12	60	28
3/4	11	12	40	33

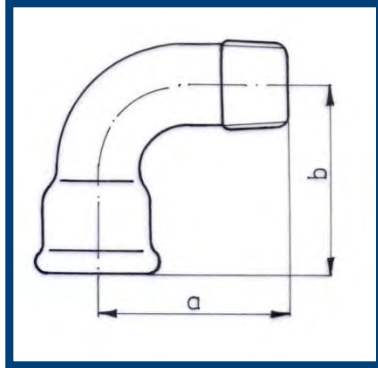


Long sweep bends 90°

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension [mm]	
	black	galv.		a	b
1/4	12	13	250	40	36
3/8	13	13	150	48	42
1/2	11	12	100	55	48
3/4	14	14	60	69	60
1	23	24	60	85	75
1 1/4	24	25	35	105	95
1 1/2	22	23	25	116	105
2	20	21	15	140	130
2 1/2	10	11	4	176	165
3	11	11	3	205	190
4	7	7	1	260	245

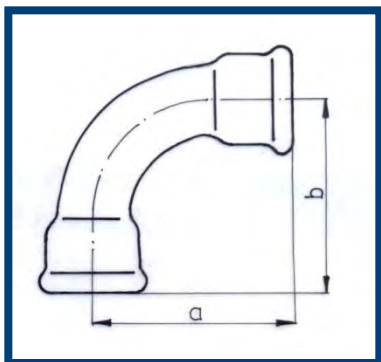


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Bends 90°

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
3/8	11	11	150	36
1/2	13	13	100	45
3/4	10	11	60	50
1	21	21	60	63
1 1/4	22	22	40	76
1 1/2	22	22	30	85
2	22	22	20	102

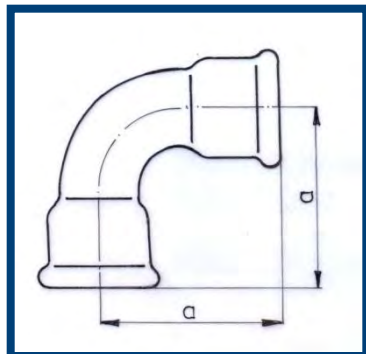


Long sweep bends 90°

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
1/4	13	13	200	40
3/8	15	16	150	48
1/2	12	12	80	55
3/4	14	15	60	69
1	24	24	50	85
1 1/4	22	23	30	105
1 1/2	23	24	23	116
2	18	19	12	140
2 1/2	11	11	4	176
3	12	12	3	205
4	7	7	1	260

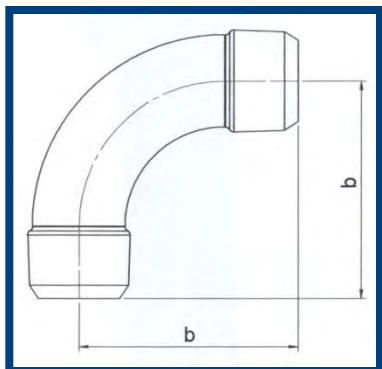


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Short bends 90°

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
3/8	10	10	120	36
1/2	12	13	90	45
3/4	13	14	60	50
1	23	23	60	63
1 1/4	24	24	40	76
1 1/2	23	24	30	85
2	24	24	20	102



Long sweep bends 90°

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
1/2	11	11	100	48
3/4	11	11	60	62



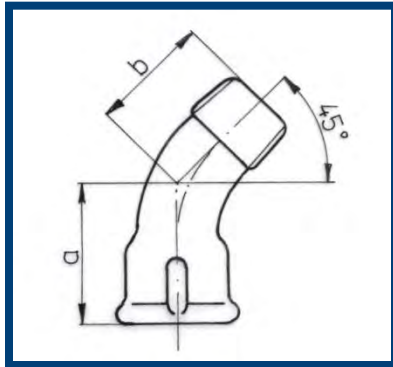
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ISO

Catalogue international

G4/45°

40

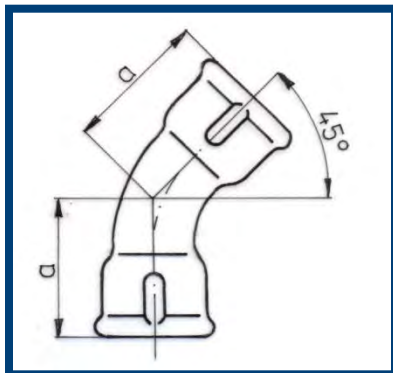


Long sweep bends 45°

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension [mm]	
	balck	galv.		a	b
1/4	9	9	200	26	21
3/8	9	10	150	30	24
1/2	10	10	100	36	30
3/4	10	11	70	43	36
1	24	25	90	51	42
1 1/4	24	25	55	64	54
1 1/2	21	22	40	68	58
2	21	21	25	81	70
2 1/2	12	13	8	99	86
3	14	14	6	113	100
4	8	8	2	127	114



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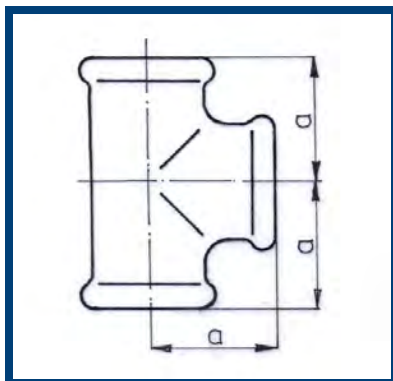


Long sweep bends 45°

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
3/8	9	10	120	30
1/2	13	13	100	36
3/4	13	13	60	43
1	20	21	60	51
1 1/4	23	24	40	64
1 1/2	23	24	33	68
2	21	21	20	81
2 1/2	15	15	8	99
3	16	16	6	113



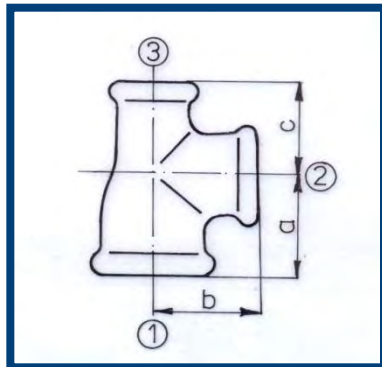
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Tees

Dimension [inch] (1)x(2)x(3)	Weight of carton [kg]		Quantity in carton [pc.]	Dimension [mm]	
	black	galv.		a	b
1/4	10	10	150	21	21
3/8	10	10	120	25	25
1/2	13	14	100	28	28
3/4	10	10	50	33	33
1	20	21	70	38	38
1 1/4	22	23	40	45	45
1 1/2	19	19	30	50	50
2	18	18	20	58	58
2 1/2	15	15	10	69	69
3	17	17	8	78	78
4	14	14	4	96	96
3/8x1/4x3/8	8	8	120	23	23
1/2x1/4x1/2	10	11	100	24	24
1/2x3/8x1/2	11	12	100	26	26
3/4x1/4x3/4	9	9	60	26	27
3/4x3/8x3/4	10	10	60	28	28
3/4x1/2x3/4	10	11	60	30	31
1x3/8x1	23	23	100	30	32
1x1/2x1	23	25	100	32	34
1x3/4x1	20	21	80	35	36

Dimension [inch] (1)x(2)x(3)	Weight of carton [kg]		Quantity in carton [pc.]	Dimension [mm]	
	black	galv.		a	b
1 1/4x3/8x1 1/4	20	21	60	32	36
1 1/4x1/2x1 1/4	20	21	60	34	38
1 1/4x3/4x1 1/4	19	20	50	36	41
1 1/4x1x1 1/4	22	23	50	40	42
1 1/2x1/2x1 1/2	17	18	40	36	42
1 1/2x3/4x1 1/2	18	19	40	38	44
1 1/2x1x1 1/2	14	15	30	42	46
1 1/2x1 1/4x1 1/2	17	17	30	46	48
2x1/2x2	17	18	30	38	48
2x3/4x2	18	19	30	40	50
2x1x2	14	14	20	44	52
2x1 1/4x2	16	16	20	48	54
2x1 1/2x2	15	16	20	52	55
2 1/2x3/4x2 1/2	18	19	20	46	59
2 1/2x1x2 1/2	19	20	20	47	60
2 1/2x1 1/4x2 1/2	16	16	15	52	62
2 1/2x1 1/2x2 1/2	18	18	15	55	63
2 1/2x2x2 1/2	20	20	15	61	66
3x1x3	14	14	10	51	67
3x1 1/4x3	15	16	10	55	70



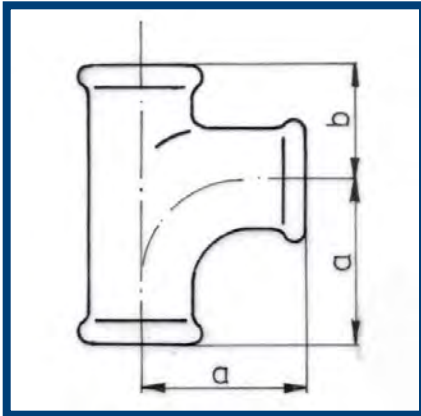
Tees

Dimension [inch] (1)x(2)x(3)	Weight of carton [kg]		Quantity in carton [pc.]	Dimension [mm]	
	black	galv.		a=c	b
3x11/2x3	14	14	10	58	71
3x2x3	14	14	8	64	73
3x21/2x3	16	16	8	72	76
4x11/4x4	9	9	4	70	82
4x11/2x4	9	10	4	65	86
4x2x4	10	11	4	70	86
4x21/2x4	12	12	4	75	90
4x3x4	12	12	4	84	92
3/8x1/2x3/8	10	12	100	26	26
1/2x3/4x1/2	11	12	70	31	30
1/2x1x1/2	19	19	100	34	32
3/4x1x3/4	23	24	100	36	35
1x11/4x1	20	20	50	42	40
1x11/2x1	14	15	30	46	42
11/4x11/2x11/4	17	18	30	48	46
11/4x2x11/4	23	25	35	54	48
11/2x2x11/2	15	15	20	55	52
2x21/2x2	17	17	15	66	61
2x3x2	12	12	8	64	73

Dimension [inch] (1)x(2)x(3)	Weight of carton [kg]		Quantity in carton [pc.]	Dimension [mm]		
	black	galv.		a	b	c
1/2x3/8x3/8	10	10	100	26	26	25
3/4x3/8x3/8	19	20	150	28	28	25
3/4x3/8x1/2	8	8	60	28	28	26
3/4x1/2x1/2	9	9	60	30	31	28
1x1/2x1/2	23	24	120	32	34	28
1x1/2x3/4	26	26	120	32	34	30
1x3/4x1/2	25	26	120	35	36	31
1x3/4x3/4	19	19	80	35	36	33
11/4x1/2x1	16	17	50	34	38	32
11/4x3/4x3/4	16	17	50	36	41	33
11/4x3/4x1	18	18	50	36	41	35
11/4x1x1	19	19	50	40	42	38
11/2x1/2x3/4	24	24	35	36	42	30
11/2x1x3/4	13	14	30	42	46	33
11/2x1x1	20	22	50	42	46	38
11/2x1x11/4	20	20	40	42	46	40
11/2x11/4x11/4	24	25	40	46	48	45
2x11/2x11/2	12	12	15	52	55	50
1/2x1/2x3/8	12	12	100	28	28	26
3/4x3/4x1/2	9	9	50	33	33	31
1x1x1/2	20	21	80	38	38	34
1x1x3/4	20	21	70	38	38	36
11/4x11/4x3/4	23	24	50	45	45	41
11/4x11/4x1	19	19	40	45	45	42
11/2x11/2x11/4	20	20	30	50	50	48

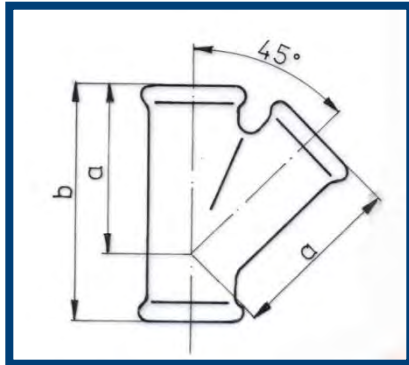


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Pitcher tees equal

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension [mm]	
	balck	galv.		a	b
1/2	10	10	50	45	29
3/4	9	9	30	50	34
1	20	20	40	63	40
1 1/4	21	21	25	79	44
1 1/2	16	16	15	85	48
2	15	15	10	102	58

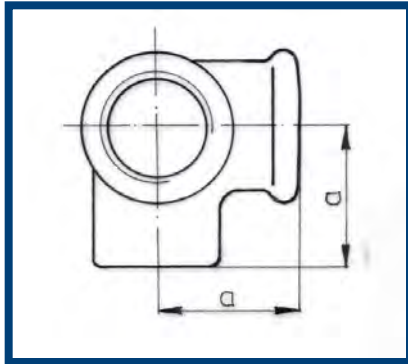


Tees equal 45°

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension [mm]	
	black	galv.		a	b
1/2	10	10	50	53	75
3/4	10	10	30	66	91
1	21	22	40	80	109
1 1/4	21	22	25	95	130
1 1/2	17	17	15	105	142
2	16	17	10	126	170



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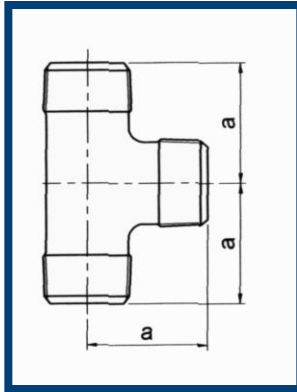


Side outlet elbows

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
3/8	9	9	100	25
1/2	10	10	80	28
3/4	10	11	50	33
1	22	22	70	38
1 1/4	20	20	35	45
1 1/2	17	17	25	50
2	15	16	15	58



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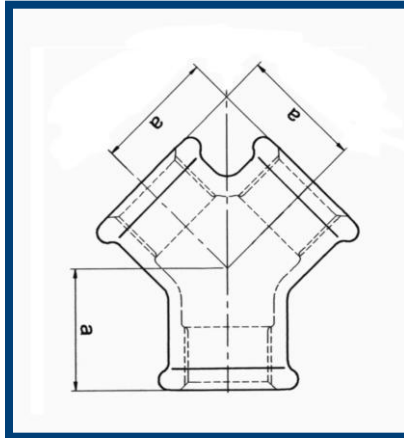


Tees

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
1	13	14	40	48

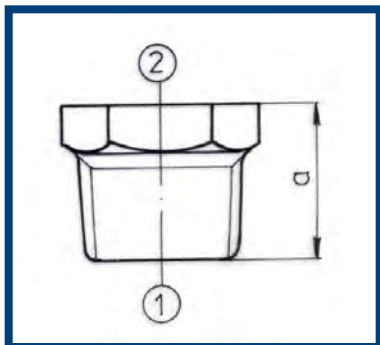


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Y pieces

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
1/2	7	7	50	27
3/4	7	7	30	33
1	14	14	40	40



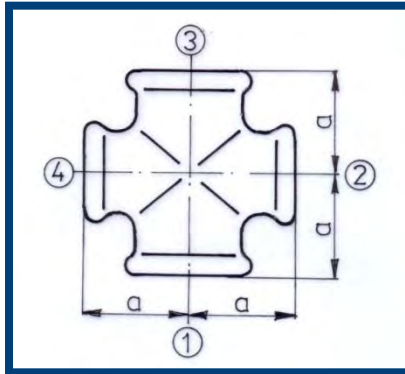
Reducing bushings

Dimension [inch] (1)x(2)	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
3/8x1/4	8	8	400	20
1/2x1/4	12	12	300	24
1/2x3/8	9	10	300	24
3/4x1/4	14	15	200	26
3/4x3/8	14	14	200	26
3/4x1/2	10	11	200	26
1x3/8	23	24	200	29
1x1/2	24	25	220	29
1x3/4	21	22	250	29
1 1/4x3/8	22	23	100	31
1 1/4x1/2	21	22	100	31
1 1/4x3/4	22	23	120	31
1 1/4x1	23	24	150	31
1 1/2x1/2	24	25	90	31
1 1/2x3/4	24	24	90	31
1 1/2x1	23	24	100	31
1 1/2x1 1/4	24	24	150	31
2x1/2	23	23	60	35
2x3/4	23	24	55	35

Dimension [inch] (1)x(2)	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
2x1	23	23	55	35
2x1 1/4	22	22	60	35
2x1 1/2	24	25	80	35
2 1/2x1/2	23	24	40	40
2 1/2x1	24	25	40	40
2 1/2x1 1/4	23	24	36	40
2 1/2x1 1/2	24	24	36	40
2 1/2x2	23	24	45	40
3x1	24	25	24	44
3x1 1/4	27	28	30	44
3x1 1/2	24	25	27	44
3x2	24	25	26	44
3x2 1/2	19	20	30	44
4x1	20	20	15	51
4x1 1/4	25	25	15	51
4x1 1/2	21	22	15	51
4x2	25	25	15	51
4x2 1/2	24	24	13	51
4x3	23	23	15	51



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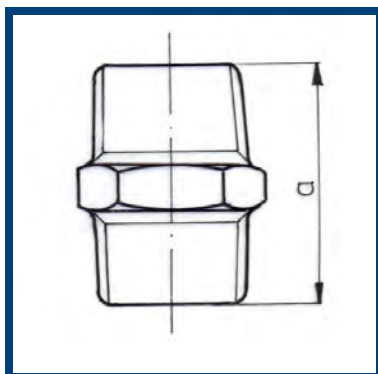
Crosses

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]	
	black	galv.		a	b
1/4	8	9	120	21	
3/8	10	11	100	25	
1/2	10	11	60	28	
3/4	10	10	40	33	
1	22	22	60	38	
1 1/4	15	16	25	45	
1 1/2	16	16	20	50	
2	11	11	10	58	
2 1/2	12	13	7	69	
3	11	11	4	78	
4	13	13	3	96	

Dimension [inch] (1)x(2)x(3)x(4)	Weight of carton [kg]		Quantity in carton [pc.]	Dimension [mm]	
	black	galv.		a	b
1/2x3/8x1/2x3/8	8	9	60	26	26
3/4x3/8x3/4x3/8	8	8	50	28	28
3/4x1/2x1/2x1/2	9	9	50	31	30
3/4x1/2x3/4x1/2	11	11	50	30	31
1x1/2x1x1/2	16	17	60	32	34
1x3/4x1x3/4	18	19	60	35	36
1 1/4x1/2x1 1/4x1/2	11	11	30	34	38
1 1/4x3/4x1 1/4x3/4	14	14	30	36	41
1 1/2x3/4x1 1/2x3/4	14	14	25	38	44
2x3/4x2x3/4	10	10	15	40	50



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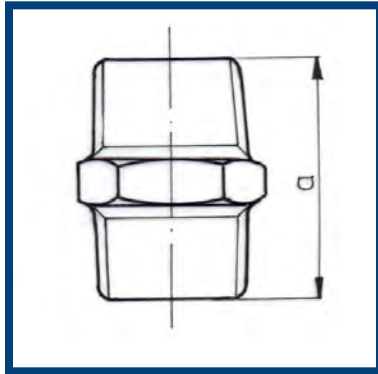


Hexagon nipples

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
1/4	11	11	350	36
3/8	11	13	250	38
1/2	12	12	160	44
3/4	13	13	140	47
1	22	22	130	53
1 1/4	23	24	80	57
1 1/2	24	25	75	59
2	21	21	40	68
2 1/2	20	21	25	75
3	25	25	20	83
4	16	16	8	95

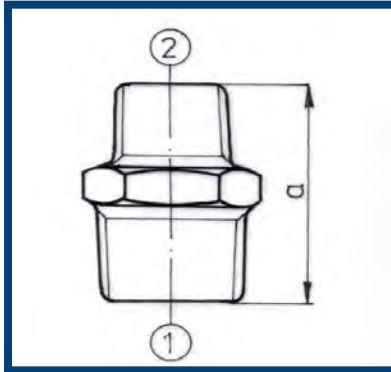


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Hexagon nipples R-L

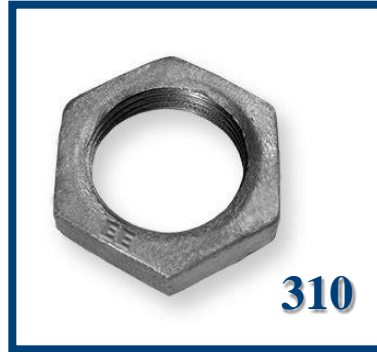
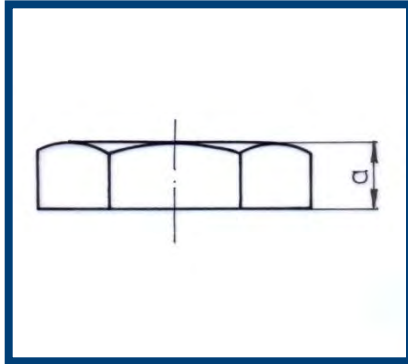
Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
1/4	11	11	350	36
3/8	11	13	250	38
1/2	12	12	160	44
3/4	13	14	140	47
1	23	24	130	53
1 1/4	23	24	80	57
1 1/2	24	25	75	59
2	22	23	40	68



Hexagon red. nipples

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
3/8x1/4	9	10	250	38
1/2x1/4	11	11	200	44
1/2x3/8	9	10	150	44
3/4x3/8	13	14	150	47
3/4x1/2	13	13	150	47
1x3/8	23	24	180	53
1x1/2	22	23	150	53
1x3/4	24	25	180	53
11/4x1/2	22	23	100	57
11/4x3/4	21	22	100	57
11/4x1	24	25	100	57
11/2x1/2	20	20	80	59
11/2x3/4	21	22	80	59

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
11/2x1	22	23	80	59
11/2x11/4	18	19	60	59
2x1/2	20	21	50	68
2x3/4	21	22	50	68
2x1	21	22	50	68
2x11/4	20	21	45	68
2x11/2	19	20	45	68
21/2x1	24	25	34	75
21/2x11/4	24	25	33	75
21/2x11/2	24	25	32	75
21/2x2	23	24	35	75
3x2	21	21	20	83
3x21/2	20	20	20	83

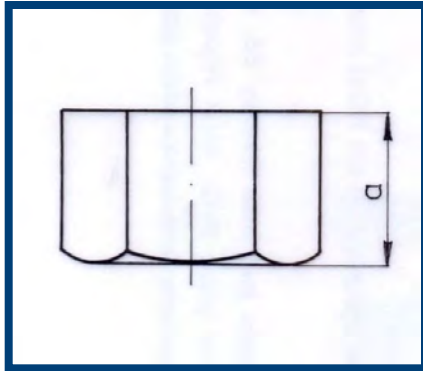


Backnuts

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
1/4	8	8	600	6
3/8	12	12	500	7
1/2	11	12	400	8
3/4	10	10	300	9
1	20	21	300	10
1 1/4	20	21	200	11
1 1/2	23	24	200	12
2	20	20	100	13
2 1/2	23	23	50	16
3	20	21	40	19
4	19	20	20	22



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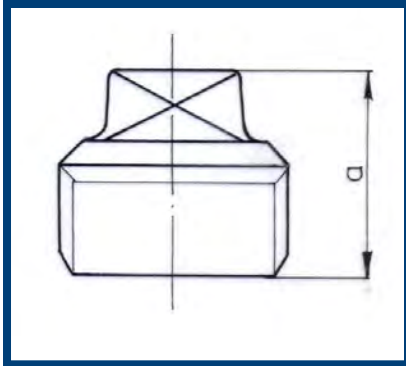


Caps

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
1/4	10	11	400	15
3/8	10	10	300	17
1/2	13	14	250	19
3/4	16	16	200	22
1	21	22	150	24
1 1/4	21	22	100	27
1 1/2	17	18	70	27
2	20	20	45	32
2 1/2	20	20	30	35
3	24	25	24	38
4	19	20	10	45



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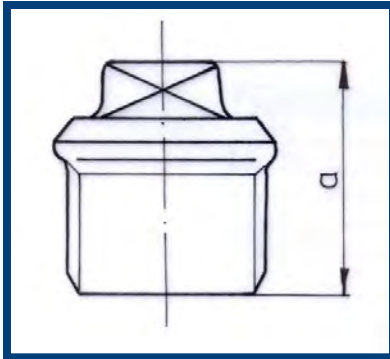


Plugs plain

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
1/4	6	7	500	14
3/8	8	9	450	15
1/2	9	10	350	18
3/4	12	12	200	22
1	24	24	250	23
1 1/4	14	14	100	29
1 1/2	13	14	80	30
2	17	17	60	36
2 1/2	14	15	30	39
3	14	14	20	44
4	15	16	12	58



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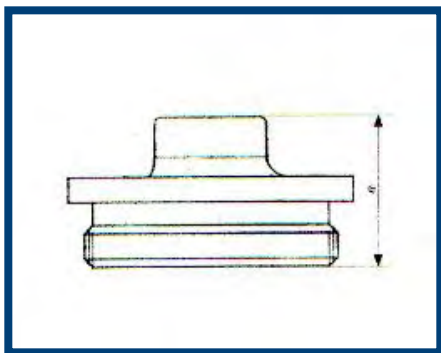


Plugs beaded

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
1/4	12	14	500	22
3/8	15	15	450	24
1/2	19	19	350	26
3/4	17	18	200	32
1	22	23	150	36
1 1/4	21	23	100	39
1 1/2	22	22	80	41
2	23	24	55	48
2 1/2	22	23	30	54
3	21	22	20	60
4	20	20	10	70



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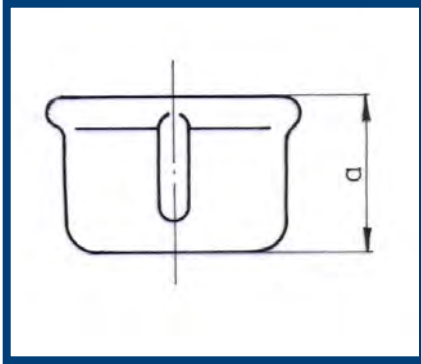


Plugs

Dimension [inch]	Weight of carton [kg]	Quantity in carton [pc.]	Dimension a [mm]
	black		
1/2	16	350	24
2	22	70	36



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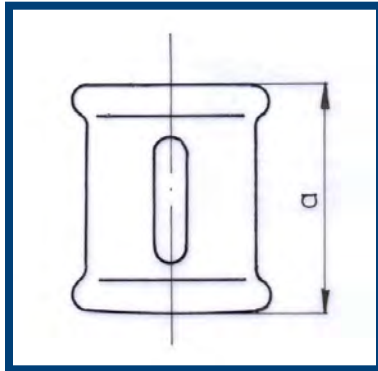


Round caps

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
3/8	14	15	400	17
1/2	13	14	250	19
3/4	12	12	150	22
1	17	17	150	24
1 1/4	19	19	100	27
1 1/2	16	16	70	27
2	15	15	45	32



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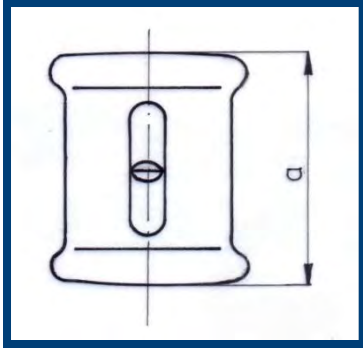


Sockets

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	balck	galv.		
1/4	8	8	200	27
3/8	8	9	180	30
1/2	14	14	180	36
3/4	11	11	100	39
1	23	23	150	45
1 1/4	21	22	80	50
1 1/2	22	23	70	55
2	14	15	30	65
2 1/2	15	15	20	74
3	10	11	10	80
4	17	18	10	94

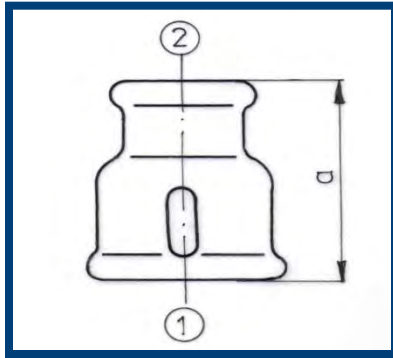


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Sockets R-L

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
3/8	8	8	180	30
1/2	12	13	180	36
3/4	11	11	100	39
1	23	24	150	45
1 1/4	21	21	80	50
1 1/2	22	23	70	55
2	14	14	30	65
2 1/2	16	16	20	74
3	11	11	10	80



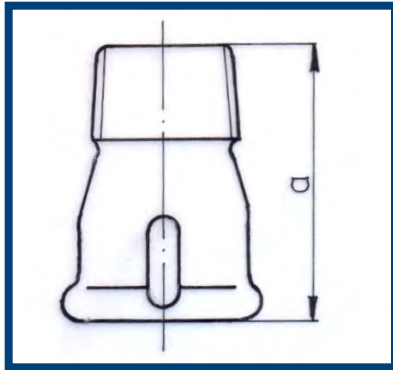
Reducing sockets

Dimension [inch] (1)x(2)	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
3/8x1/4	11	11	250	30
1/2x1/4	11	11	200	36
1/2x3/8	13	13	200	36
3/4x3/8	9	9	100	39
3/4x1/2	11	11	100	39
1x1/4	24	25	180	45
1x3/8	24	24	190	45
1x1/2	25	25	180	45
1x3/4	23	24	150	45
1 1/4x3/8	23	23	100	50
1 1/4x1/2	23	24	100	50
1 1/4x3/4	23	24	100	50
1 1/4x1	24	24	100	50
1 1/2x1/2	24	25	85	55
1 1/2x3/4	24	25	85	55
1 1/2x1	24	25	80	55
1 1/2x1 1/4	22	24	75	55
2x1/2	21	21	50	65

Dimension [inch] (1)x(2)	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
2x3/4	19	21	50	65
2x1	20	21	50	65
2x1 1/4	23	23	50	65
2x1 1/2	19	19	40	65
2 1/2x1	20	22	30	74
2 1/2x1 1/4	20	21	30	74
2 1/2x1 1/2	22	22	30	74
2 1/2x2	19	19	25	74
3x1	25	26	25	80
3x1 1/4	24	24	25	80
3x1 1/2	24	24	25	80
3x2	24	25	25	80
3x2 1/2	19	20	20	80
4x2 1/2	22	23	15	94
4x1 1/2	21	23	15	94
4x2	23	24	15	94
4x3	22	22	15	94

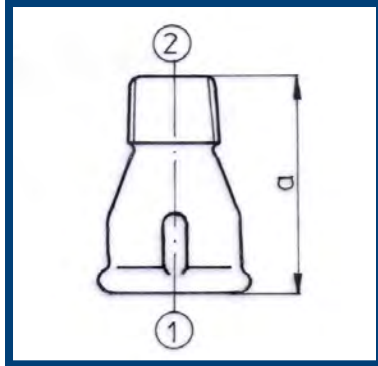


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Extension sockets

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
3/8	8	9	200	35
1/2	9	9	120	43
3/4	11	11	100	48
1	24	25	140	55
1 1/4	24	25	90	60

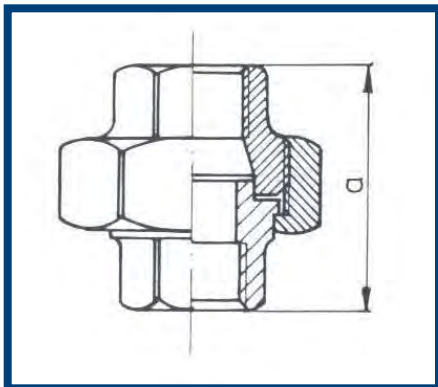


Reducing sockets

Dimension [inch] (1)x(2)	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
3/8x1/4	8	8	200	35
1/2x1/4	12	12	200	43
1/2x3/8	8	9	120	43
3/4x3/8	8	8	80	48
3/4x1/2	10	11	100	48
1x1/2	21	23	150	55
1x3/4	22	23	150	55
1 1/4x3/4	23	24	100	60
1 1/4x1	24	25	95	60
1 1/2x1	24	25	80	63
1 1/2x1 1/4	23	24	70	63
2x1 1/4	23	23	50	70
2x1 1/2	22	22	50	70



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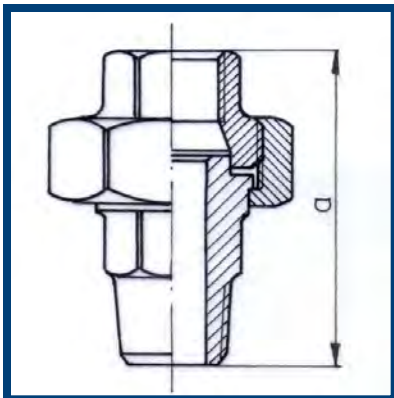


Unions, flat seat

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
3/8	16	16	120	45
1/2	19	19	80	48
3/4	17	18	60	52
1	23	24	65	58
1 1/4	22	22	35	65
1 1/2	19	19	25	70
2	22	23	20	78
2 1/2	19	20	10	85
3	22	22	8	95
4	19	19	4	110



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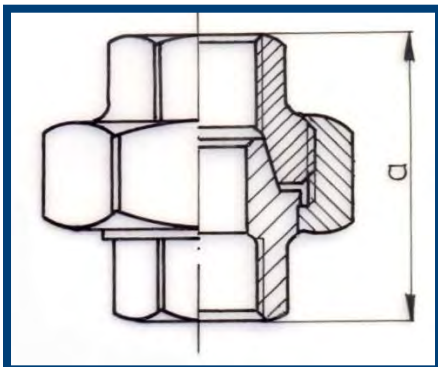


Unions, flat seat

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
3/8	15	15	100	58
1/2	11	11	40	66
3/4	10	10	30	72
1	24	25	55	80
1 1/4	23	24	30	90
1 1/2	22	23	25	95
2	19	20	15	106
2 1/2	21	22	10	118
3	21	21	6	130



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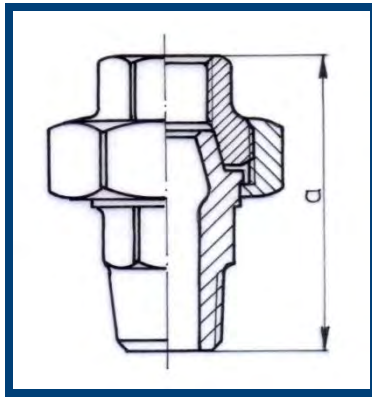


Unions, taper seat

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
3/8	16	17	120	45
1/2	19	20	80	48
3/4	18	19	60	52
1	22	23	60	58
1 1/4	23	24	35	65
1 1/2	20	20	25	70
2	24	25	20	78
2 1/2	20	20	10	85
3	23	24	8	95
4	21	21	4	110



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ISO
Catalogue international

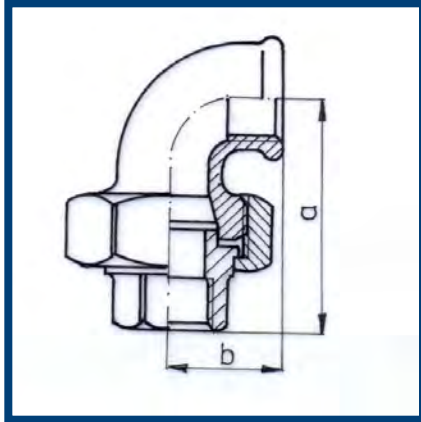
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341

Unions, taper seat

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
3/8	15	16	100	58
1/2	11	12	40	66
3/4	11	11	30	72
1	23	24	50	80
1 1/4	23	24	30	90
1 1/2	24	24	25	95
2	21	21	15	106
2 1/2	23	23	10	118
3	22	23	6	130
4	13	13	2	150



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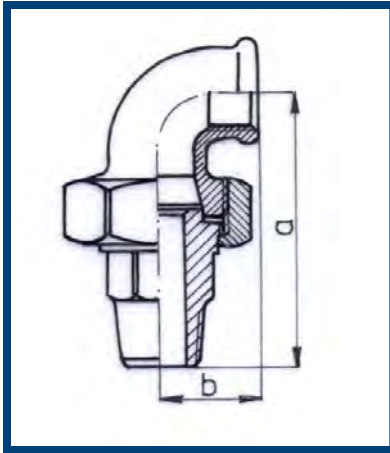


Union elbows flat seat

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension [mm]	
	black	galv.		a	b
3/8	13	13	80	52	25
1/2	17	18	60	58	28
3/4	15	15	40	62	33
1	21	22	45	72	38
1 1/4	21	21	25	82	45
1 1/2	20	21	20	90	50
2	22	23	15	100	58

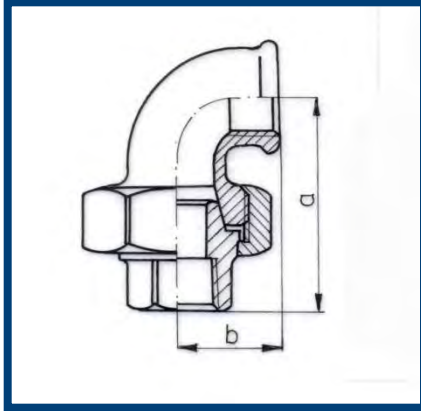


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Union elbows flat seat

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension [mm]	
	black	galv.		a	b
3/8	13	13	70	65	25
1/2	16	17	50	76	28
3/4	16	16	40	82	33
1	23	23	40	94	38
1 1/4	24	25	25	107	45
1 1/2	22	23	20	115	50
2	23	24	14	128	58

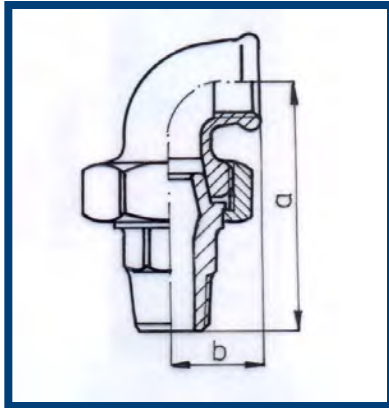


Union elbows taper seat

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension [mm]	
	black	galv.		a	b
3/8	13	14	80	52	25
1/2	18	19	60	58	28
3/4	17	18	45	62	33
1	23	23	45	72	38
1 1/4	22	23	25	82	45
1 1/2	21	21	20	90	50
2	24	25	15	100	58



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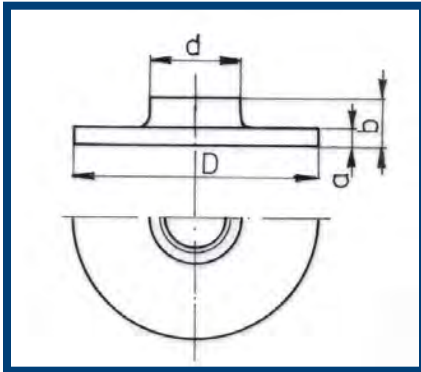


Union elbows taper seat

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension [mm]	
	black	galv.		a	b
3/8	13	13	70	65	25
1/2	16	17	50	76	28
3/4	15	16	35	82	33
1	24	24	40	94	38
1 1/4	24	25	24	107	45
1 1/2	24	25	20	115	50
2	23	24	13	128	58

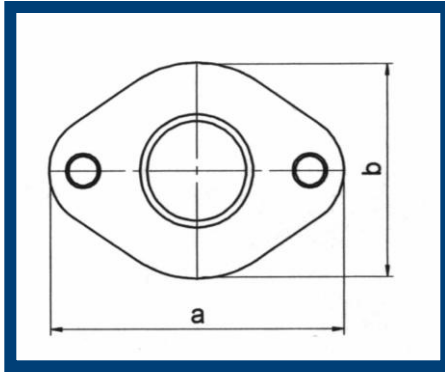


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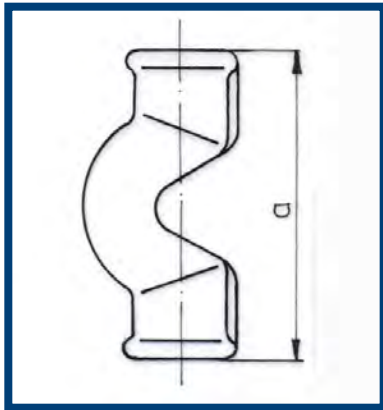
Flanges

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension [mm]			
	black	galv.		D	d	a	b
3/8	18	19	100	75	26	5	12
1/2	9	9	40	80	32	5	12
3/4	9	9	30	90	38	5,5	13
1	23	23	60	100	46	6	14
1 1/4	22	23	40	120	56	6,5	15
1 1/2	23	24	32	130	63	7	16
2	19	19	20	140	77	8	18
2 1/2	20	20	15	160	93	9	20
3	21	21	10	190	107	10	22
4	23	23	9	210	133	11	24



Flanges

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension [mm]	
	black	galv.		a	b
3/4	10	10	30	90	64
1	13	13	30	100	72
1 1/4	25	25	40	120	85
1 1/2	26	27	32	130	95

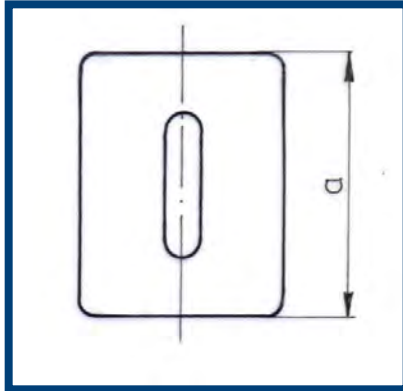


Crossovers

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
1/2	16	16	80	92
3/4	15	16	40	110



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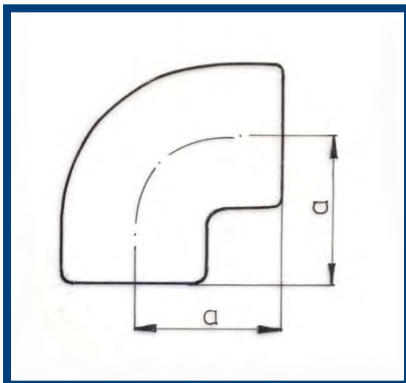


Sockets

Dimension [inch]	Weight of catron [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
1/2	15	15	180	36
3/4	12	13	100	39
1	24	25	150	45
1 1/4	21	21	80	50
1 1/2	23	24	70	55
2	15	16	30	65



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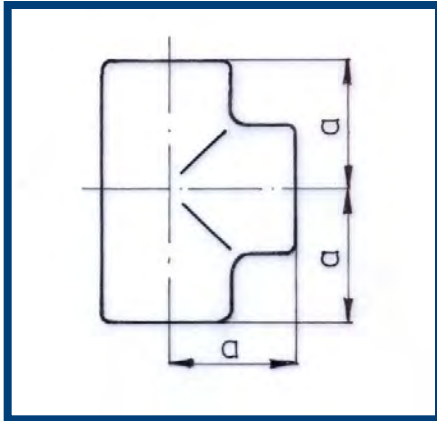


Elbows 90°

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
1/2	17	17	150	28
3/4	13	13	80	33
1	23	24	100	38
1 1/4	23	23	60	45
1 1/2	23	23	46	50
2	19	20	25	58



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GRUPA GWARANT



Tees

Dimension [inch]	Weight of carton [kg]		Quantity in carton [pc.]	Dimension a [mm]
	black	galv.		
1/2	15	15	100	28
3/4	13	13	50	33
1	21	22	70	38
1 1/4	21	21	40	45
1 1/2	20	21	30	50
2	20	20	20	58



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