

SPECIFICATIONS — Steel Pipe , Fitting & Flange

Malleable Iron Fitting

Specification	BSEN 10242-1995, BS 143 & 1256-2000
Product	Socket, Elbow, Tee, Red Socket, Cap, Plug, Union, Red Bush, Nipple, Cross
Grade	Black Finish and Galvanized Coating
Available sizes	1/8" up to 4"

Malleable iron is cast as white iron. Through an annealing heat treatment, the brittle structure as first cast is transformed into the malleable form, so to get its name.

Malleable iron fittings are iron-carbon alloy which combine the outstanding properties of cast iron (pourability) and steel (strength and ductility).

They apply to fire protection service in accordance with the NFPA 13, 14.

- Certificate: UL Listed/ FM Approved
- Standard: BS EN 10242/ Design symbol A
- Material: EN-GJMB-350-10 in blackheart (EN 1562)
- Thread: BSP/ NPT
- Air test: Water or light oil, ≥ 5 bar
- W. pressure: Max permissible 2.5 MPa
- Surface: Black iron/ hot dip galvanized

Condition of Fluid

Steam, Air, Gas & Oil not higher than 300°C

Steam, Air, Gas , Oil, Pulsating Water
not higher than 220°C

Non Pulsating Water not higher than 120°C

Max. Working Pressure

1.0Mpa (10.2kgf/cm²)

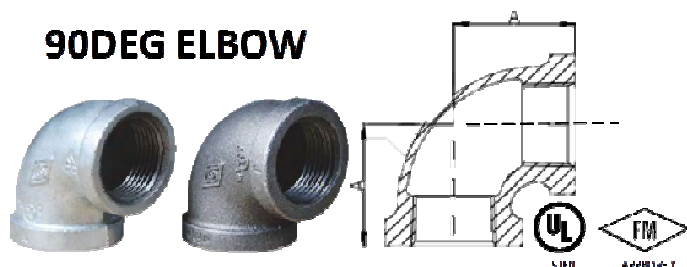
1.4Mpa (14.3kgf/cm²)

2.0Mpa (20.4kgf/cm²)

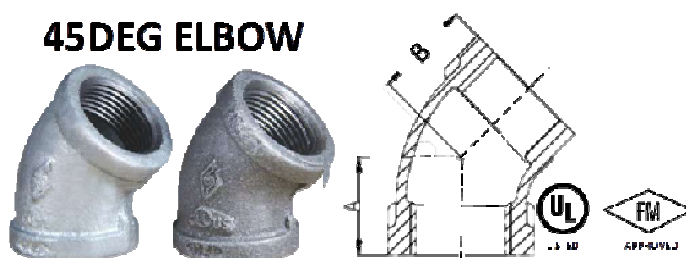


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90DEG ELBOW



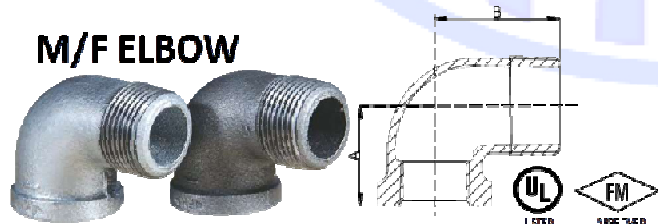
45DEG ELBOW



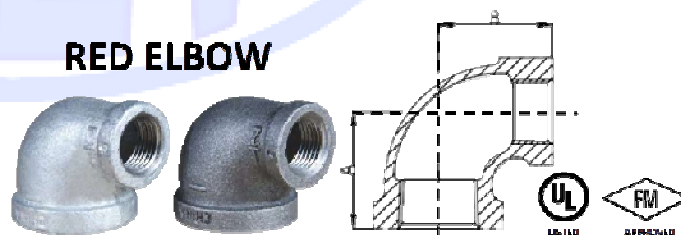
SIZE			A (MM)
1/4"	DN6	13.5	21
3/8"	DN10	17.2	25
1/2"	DN15	21.3	28
3/4"	DN20	26.9	33
1"	DN25	33.7	38
1-1/4"	DN32	42.4	45
1-1/2"	DN40	48.3	50
2"	DN50	60.3	58
2-1/2"	DN65	76.1	69
3"	DN80	88.9	78
4"	DN100	114.3	96

SIZE			A (MM)
1/4"	DN6	13.5	21
3/8"	DN10	17.2	25
1/2"	DN15	21.3	28
3/4"	DN20	26.9	33
1"	DN25	33.7	38
1-1/4"	DN32	42.4	45
1-1/2"	DN40	48.3	50
2"	DN50	60.3	58
2-1/2"	DN65	76.1	69
3"	DN80	88.9	78
4"	DN100	114.3	96

M/F ELBOW



RED ELBOW



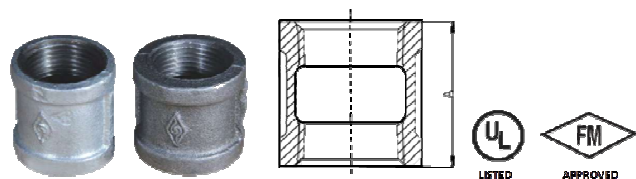
SIZE			A (MM)	B (MM)
1/4"	DN6	13.5	21	28
3/8"	DN10	17.2	25	32
1/2"	DN15	21.3	28	37
3/4"	DN20	26.9	33	43
1"	DN25	33.7	38	52
1-1/4"	DN32	42.4	45	60
1-1/2"	DN40	48.3	50	65
2"	DN50	60.3	58	74
2-1/2"	DN65	76.1	69	88
3"	DN80	88.9	78	98
4"	DN100	114.3	96	118

SIZE			A (MM)	B (MM)
1/2" X 3/8"	DN15 X DN10	21.3 X 17.2	26	26
3/4" X 3/8"	DN20 X DN10	26.9 X 17.2	28	28
3/4" X 1/2"	DN20 X DN15	26.9 X 21.3	30	31
1" X 3/8"	DN25 X DN10	33.7 X 17.2	30	32
1" X 1/2"	DN25 X DN15	33.7 X 21.3	32	34
1" X 3/4"	DN25 X DN20	33.7 X 26.9	35	36
1-1/4" X 3/8"	DN32 X DN10	42.4 X 17.2	32	36.5
1-1/4" X 1/2"	DN32 X DN15	42.4 X 21.3	32	37
1-1/4" X 3/4"	DN32 X DN20	42.4 X 26.9	36	41
1-1/4" X 1"	DN32 X DN25	42.4 X 33.7	40	42
1-1/2" X 1/2"	DN40 X DN15	48.3 X 21.3	34	41
1-1/2" X 3/4"	DN40 X DN20	48.3 X 26.9	37	42
1-1/2" X 1"	DN40 X DN25	48.3 X 33.7	42	46
1-1/2" X 1-1/4"	DN40 X DN30	48.3 X 42.4	46	48
2" X 1/2"	DN50 X DN15	60.3 X 21.3	35	47
2" X 3/4"	DN50 X DN20	60.3 X 26.9	40	48



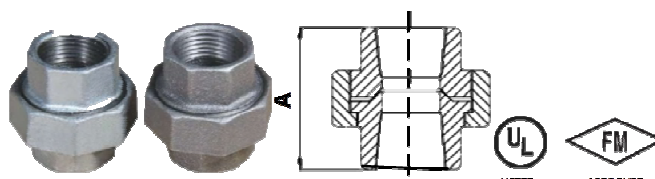
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SOCKET



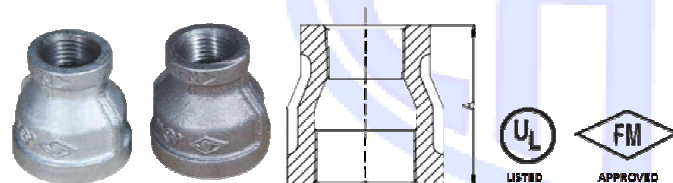
SIZE			A (MM)
1/4"	DN6	13.5	27
3/8"	DN10	17.2	30
1/2"	DN15	21.3	36
3/4"	DN20	26.9	39
1"	DN25	33.7	45
1-1/4"	DN30	42.4	50
1-1/2"	DN40	48.3	55
2"	DN50	60.3	65
2-1/2"	DN65	76.1	74
3"	DN80	88.9	80
4"	DN100	114.3	94

UNION COUPLING



SIZE			A (MM)
1/4"	DN6	13.5	42
3/8"	DN10	17.2	45
1/2"	DN15	21.3	48
3/4"	DN20	26.9	52
1"	DN25	33.7	58
1-1/4"	DN30	42.4	65
1-1/2"	DN40	48.3	70
2"	DN50	60.3	78
2-1/2"	DN65	76.1	85
3"	DN80	88.9	95
4"	DN100	114.3	100

RED SOCKET



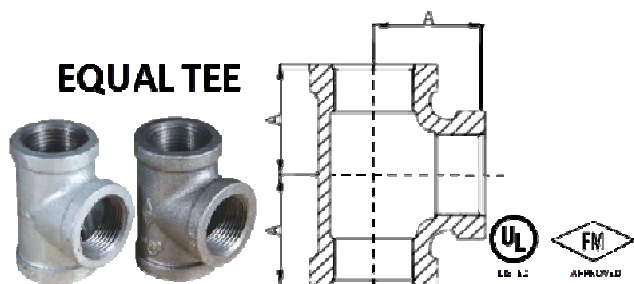
SIZE			A (MM)
3/8" x 1/4"	DN10 X DN6	17.2 x 13.5	30
1/2" x 1/4"	DN15 X DN6	21.3 x 13.5	36
1/2" x 3/8"	DN15 X DN10	21.3 x 17.2	36
3/4" x 1/2"	DN20 X DN15	26.9 x 21.3	42
1" x 1/2"	DN25 X DN15	33.7 x 21.3	45
1" x 3/4"	DN25 X DN20	33.7 x 26.9	45
1-1/4" x 1/2"	DN30 X DN15	42.4 x 21.3	50
1-1/4" x 3/4"	DN30 X DN20	42.4 x 26.9	50
1-1/4" x 1"	DN30 X DN25	42.4 x 33.7	50
1-1/2" x 1/2"	DN40 X DN15	48.3 x 21.3	55
1-1/2" x 3/4"	DN40 X DN20	48.3 x 26.9	55
1-1/2" x 1"	DN40 X DN25	48.3 x 33.7	55
1-1/2" x 1-1/4"	DN40 X DN30	48.3 x 42.4	55
2" x 1/2"	DN50 X DN15	60.3 x 21.3	65
2" x 3/4"	DN50 X DN20	60.3 x 26.9	65
2" x 1"	DN50 X DN25	60.3 x 33.7	65
2" x 1-1/4"	DN50 X DN30	60.3 x 42.4	65
2" x 1-1/2"	DN50 X DN40	60.3 x 48.3	65

SIZE			A (MM)
2-1/2" x 1/2"	DN65 X DN15	76.1 x 21.3	74
2-1/2" x 3/4"	DN65 X DN20	76.1 x 26.9	74
2-1/2" x 1"	DN65 X DN25	76.1 x 33.7	74
2-1/2" x 1-1/4"	DN65 X DN30	76.1 x 42.4	74
2-1/2" x 1-1/2"	DN65 X DN40	76.1 x 48.3	74
2-1/2" x 2"	DN65 X DN50	76.1 x 60.3	74
3" x 1"	DN80 X DN25	88.9 x 33.7	80
3" x 1-1/4"	DN80 X DN30	88.9 x 42.4	80
3" x 1-1/2"	DN80 X DN40	88.9 x 48.3	80
3" x 2"	DN80 X DN50	88.9 x 60.3	80
3" x 2-1/2"	DN80 X DN65	88.9 x 76.1	80
4" x 1"	DN100 X DN25	114.3 x 33.7	94
4" x 1-1/4"	DN100 X DN30	114.3 x 42.4	94
4" x 1-1/2"	DN100 X DN40	114.3 x 48.3	94
4" x 2"	DN100 X DN50	114.3 x 60.3	94
4" x 2-1/2"	DN100 X DN65	114.3 x 76.1	94
4" x 3"	DN100 X DN80	114.3 x 88.9	94



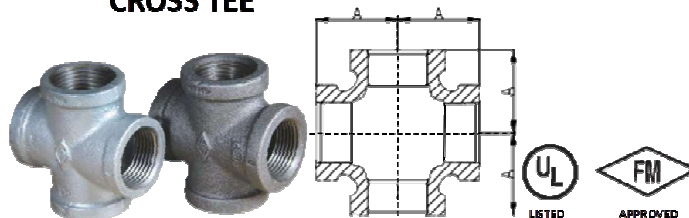
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EQUAL TEE



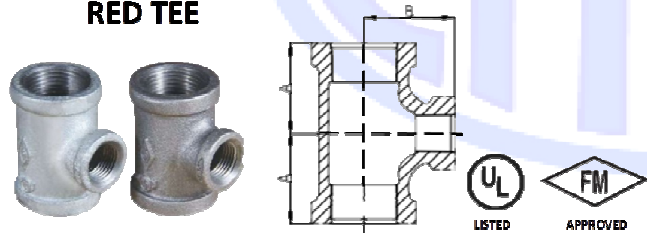
SIZE			A (MM)
1/4"	DN6	13.5	21
3/8"	DN10	17.2	25
1/2"	DN15	21.3	28
3/4"	DN20	26.9	33
1"	DN25	33.7	38
1-1/4"	DN32	42.4	45
1-1/2"	DN40	48.3	50
2"	DN50	60.3	58
2-1/2"	DN65	76.1	69
3"	DN80	88.9	78
4"	DN100	114.3	96

CROSS TEE



SIZE			A (MM)
1/2"	DN15	21.3	28
3/4"	DN20	26.9	33
1"	DN25	33.7	38
1-1/4"	DN30	42.4	45
1-1/2"	DN40	48.3	50
2"	DN50	60.3	58
2-1/2"	DN65	76.1	69
3"	DN80	88.9	78
4"	DN100	114.3	96

RED TEE



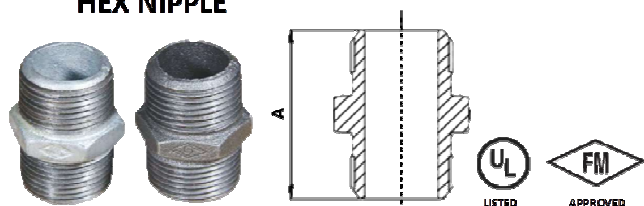
SIZE			A (MM)	B (MM)
3/4" X 1/2"	DN20 X DN15	26.9 X 21.3	30	31
1" X 1/2"	DN25 X DN15	33.7 X 21.3	32	34
1" X 3/4"	DN25 X DN20	33.7 X 26.9	35	36
1-1/4" X 1/2"	DN30 X DN15	42.4 X 21.3	34	38
1-1/4" X 3/4"	DN30 X DN20	42.4 X 26.9	36	41
1-1/4" X 1"	DN30 X DN25	42.4 X 33.7	40	42
1-1/2" X 1/2"	DN40 X DN15	48.3 X 21.3	36	42
1-1/2" X 3/4"	DN40 X DN20	48.3 X 26.9	61	44
1-1/2" X 1"	DN40 X DN25	48.3 X 33.7	42	46
1-1/2" X 1-1/4"	DN40 X DN30	48.3 X 42.4	46	48
2" X 1/2"	DN50 X DN15	60.3 X 21.3	38	48
2" X 3/4"	DN50 X DN20	60.3 X 26.9	40	50
2" X 1"	DN50 X DN25	60.3 X 33.7	44	52
2" X 1-1/4"	DN50 X DN30	60.3 X 42.4	48	52
2" X 1-1/2"	DN50 X DN40	60.3 X 48.3	48	54

SIZE			A (MM)	B (MM)
2-1/2" X 1/2"	DN65 X DN15	76.1 X 21.3	40	56
2-1/2" X 3/4"	DN65 X DN20	76.1 X 26.9	43	57
2-1/2" X 1"	DN65 X DN25	76.1 X 33.7	47	60
2-1/2" X 1-1/4"	DN65 X DN30	76.1 X 42.4	52	62
2-1/2" X 1-1/2"	DN65 X DN40	76.1 X 48.3	55	63
2-1/2" X 2"	DN65 X DN50	76.1 X 60.3	61	66
3" X 1"	DN80 X DN25	88.9 X 33.7	51	67
3" X 1-1/4"	DN80 X DN30	88.9 X 42.4	55	70
3" X 1-1/2"	DN80 X DN40	88.9 X 48.3	58	71
3" X 2"	DN80 X DN50	88.9 X 60.3	64	73
3" X 2-1/2"	DN80 X DN65	88.9 X 76.1	72	76
4" X 1"	DN100 X DN25	114.3 X 33.7	56	81
4" X 1-1/4"	DN100 X DN30	114.3 X 42.4	60	84
4" X 1-1/2"	DN100 X DN40	114.3 X 48.3	61	84
4" X 2"	DN100 X DN50	114.3 X 60.3	70	86
4" X 2-1/2"	DN100 X DN65	114.3 X 76.1	84	92
4" X 3"	DN100 X DN80	114.3 X 88.9	82	90



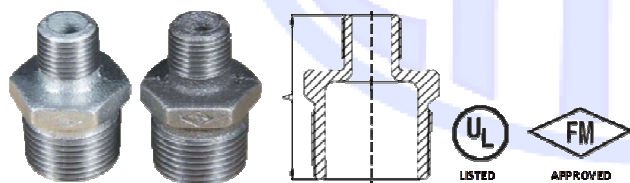
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HEX NIPPLE



SIZE			A (MM)
1/4"	DN6	13.5	36
3/8"	DN10	17.2	38
1/2"	DN15	21.3	44
3/4"	DN20	26.9	47
1"	DN25	33.7	53
1-1/4"	DN30	42.4	57
1-1/2"	DN40	48.3	59
2"	DN50	60.3	68
2-1/2"	DN65	76.1	75
3"	DN80	88.9	83
4"	DN100	114.3	95

RED NIPPLE



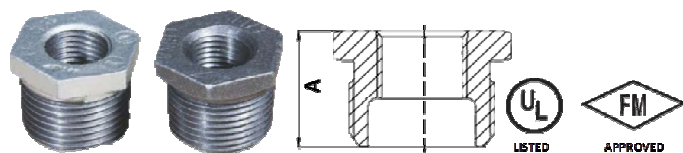
SIZE			A (MM)
3/8" x 1/4"	DN10 X DN6	17.2 x 13.5	38
1/2" x 1/4"	DN15 X DN6	21.3 x 13.5	44
1/2" x 3/8"	DN15 X DN10	21.3 x 17.2	44
3/4" x 1/2"	DN20 X DN15	26.9 x 21.3	47
1" x 1/2"	DN25 X DN15	33.7 x 21.3	53
1" x 3/4"	DN25 X DN20	33.7 x 26.9	53
1-1/4" x 1/2"	DN30 X DN15	42.4 x 21.3	57
1-1/4" x 3/4"	DN30 X DN20	42.4 x 26.9	57
1-1/4" x 1"	DN30 X DN25	42.4 x 33.7	57
1-1/2" x 1/2"	DN40 X DN15	48.3 x 21.3	59
1-1/2" x 3/4"	DN40 X DN20	48.3 x 26.9	59
1-1/2" x 1"	DN40 X DN25	48.3 x 33.7	59
1-1/2" x 1-1/4"	DN40 X DN30	48.3 x 42.4	59

SIZE			A (MM)
2" X 1/2"	DN50 X DN15	60.3 X 21.3	68
2" X 3/4"	DN50 X DN20	60.3 X 26.9	68
2" X 1"	DN50 X DN25	60.3 X 33.7	68
2" X 1-1/4"	DN50 X DN30	60.3 X 42.4	68
2" X 1-1/2"	DN50 X DN40	60.3 X 48.3	68
2-1/2" X 1"	DN65 X DN25	76.1 X 33.7	75
2-1/2" X 1-1/4"	DN65 X DN30	76.1 X 42.4	75
2-1/2" X 1-1/2"	DN65 X DN40	76.1 X 48.3	75
2-1/2" X 2"	DN65 X DN50	76.1 X 60.3	75
3" X 1-1/2"	DN80 X DN40	88.9 X 48.3	83
3" X 2"	DN80 X DN50	88.9 X 60.3	83
3" X 2-1/2"	DN80 X DN65	88.9 X 76.1	83
4" X 2"	DN100 X DN50	114.3 X 60.3	87
4" X 2-1/2"	DN100 X DN65	114.3 X 76.1	87
4" X 3"	DN100 X DN80	114.3 X 88.9	87



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RED BUSHING



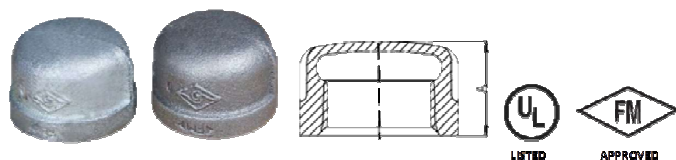
SIZE			A (MM)
3/8" x 1/4"	DN10 X DN6	17.2 x 13.5	20
1/2" x 1/4"	DN15 X DN6	21.3 x 13.5	24
1/2" x 3/8"	DN15 X DN10	21.3 x 17.2	24
3/4" X 1/2"	DN20 X DN15	26.9 X 21.3	26
1" X 1/2"	DN25 X DN15	33.7 X 21.3	29
1" X 3/4"	DN25 X DN20	33.7 X 26.9	29
1-1/4" X 1/2"	DN30 X DN15	42.4 X 21.3	31
1-1/4" X 3/4"	DN30 X DN20	42.4 X 26.9	31
1-1/4" X 1"	DN30 X DN25	42.4 X 33.7	31
1-1/2" X 1/2"	DN40 X DN15	48.3 X 21.3	31
1-1/2" X 3/4"	DN40 X DN20	48.3 X 26.9	31
1-1/2" X 1"	DN40 X DN25	48.3 X 33.7	31
1-1/2" X 1-1/4"	DN40 X DN30	48.3 X 42.4	31
2" X 1/2"	DN50 X DN15	60.3 X 21.3	35
2" X 3/4"	DN50 X DN20	60.3 X 26.9	35
2" X 1"	DN50 X DN25	60.3 X 33.7	35
2" X 1-1/4"	DN50 X DN30	60.3 X 42.4	35
2" X 1-1/2"	DN50 X DN40	60.3 X 48.3	35

SIZE			A (MM)
2-1/2" X 1/2"	DN65 X DN15	76.1 X 21.3	40
2-1/2" X 3/4"	DN65 X DN20	76.1 X 26.9	40
2-1/2" X 1"	DN65 X DN25	76.1 X 33.7	40
2-1/2" X 1-1/4"	DN65 X DN30	76.1 X 42.4	40
2-1/2" X 1-1/2"	DN65 X DN40	76.1 X 48.3	40
2-1/2" X 2"	DN65 X DN50	76.1 X 60.3	40
3" X 1"	DN80 X DN25	88.9 X 33.7	44
3" X 1-1/4"	DN80 X DN30	88.9 X 42.4	44
3" X 1-1/2"	DN80 X DN40	88.9 X 48.3	44
3" X 2"	DN80 X DN50	88.9 X 60.3	44
3" X 2-1/2"	DN80 X DN65	88.9 X 76.1	44
4" X 1"	DN100 X DN25	114.3 X 33.7	51
4" X 1-1/4"	DN100 X DN30	114.3 X 42.4	51
4" X 1-1/2"	DN100 X DN40	114.3 X 48.3	51
4" X 2"	DN100 X DN50	114.3 X 60.3	51
4" X 2-1/2"	DN100 X DN65	114.3 X 76.1	51
4" X 3"	DN100 X DN80	114.3 X 88.9	51



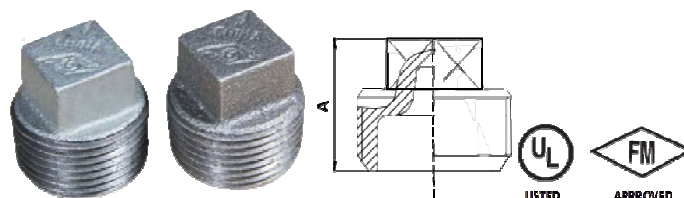
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END CAP



SIZE			A (MM)
1/4"	DN6	13.5	15
3/8"	DN10	17.2	17
1/2"	DN15	21.3	19
3/4"	DN20	26.9	22
1"	DN25	33.7	24
1-1/4"	DN30	42.4	27
1-1/2"	DN40	48.3	27
2"	DN50	60.3	32
2-1/2"	DN65	76.1	35
3"	DN80	88.9	38
4"	DN100	114.3	45

PLUG



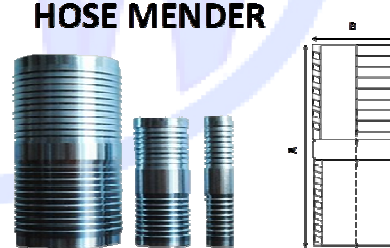
SIZE			A (MM)
1/4"	DN6	13.5	15
3/8"	DN10	17.2	17
1/2"	DN15	21.3	19
3/4"	DN20	26.9	22
1"	DN25	33.7	24
1-1/4"	DN30	42.4	27
1-1/2"	DN40	48.3	27
2"	DN50	60.3	32
2-1/2"	DN65	76.1	35
3"	DN80	88.9	38
4"	DN100	114.3	45

KC NIPPLE



SIZE	A (MM)	B (MM)	C (MM)
1/2" MPT	48	12	18
3/4" MPT	55	20	20
1" MPT	62	25	22
1-1/4" MPT	62	30	22
1-1/2" MPT	70	38	25
2" MPT	85	50	30
2-1/2" MPT	111	60	33
3" MPT	111	74	35
4"	135	100	40

HOSE MENDER



SIZE	A (MM)	B (MM)
1/2"	75	12
3/4"	102	20
1"	103	25
1-1/4"	105	32
1-1/2"	105	38
2"	120	50
2-1/2"	140	63
3"	140	74
4"	146	100

