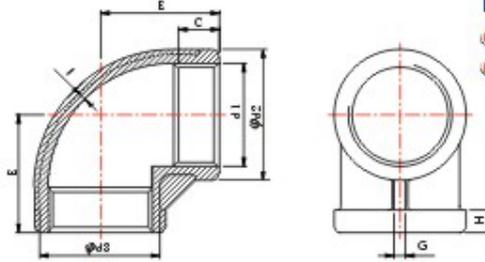


I N D E X

L9B	90° ELBOWS BANDED EQUAL	
LTB	TEES BANDED EQUAL	1
L4B	45° ELBOWS BANDED EQUAL	
LSL	STREET ELBOWS 90° BANDED	2
L+B	CROSSES BANDED EQUAL	
LCF	UNIONS F/F	3
LCM	UNIONS M/F	
LCW	UNIONS B/W	4
LRC	ROUND CAPS	
LSP	SQUARE HEAD PLUGS	5
LHP	HEX HEAD PLUGS	
LHC	HEX CAPS	6
HNT	HEX NUTS	
LHB	HEX BUSHINGS (1/4"x1/8"~1"x3/4")	7
LHB	HEX BUSHINGS (1 1/4"x1/8"~4"x3")	8
LRN	REDUCING HEX NIPPLE (1/4"x1/8"~2"x1/4")	9
LRN	REDUCING HEX NIPPLE (2"x3/8"~4"x3")	10
ONP	HOSE NIPPLE	
LNP	HEX NIPPLE	11
FCP	COUPLINGS/SOCKETS	
HCP	HALF COUPLINGS/HALF SOCKETS	12
LRS	REDUCING COUPLINGS (1/4"x1/8"~1 1/2"x1 1/4")	13
LRS	REDUCING COUPLINGS (2"x4"~4"x3")	14
BNP	BARREL NIPPLE	
WNP	WELDING NIPPLE	15

L9B

90° ELBOWS BANDED EQUAL



DESIGN FEATURES:

- THREAD: NPT, BSP (BS21), BSPT, DIN.
- CF8 (304) & CF8M (316).

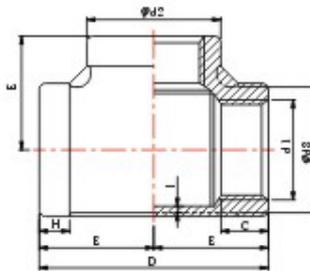
DIMENSIONS

UNIT : mm

SIZE SPEC.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
d1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
d2	14.8	18.3	21.7	26.6	32.1	39.5	49.2	54.3	68.2	83.5	99.0	125.0
d3	13.3	16.8	20.2	24.6	30.1	37.5	46.7	53.0	65.7	80.5	96.0	122.2
C	6.2	9.4	9.7	12.0	12.0	14.0	16.0	18.0	18.0	22.0	24.0	24.0
E	17.0	19.0	23.0	27.0	32.0	38.0	45.0	48.0	57.0	69.0	78.0	96.0
G	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	4.5	4.5	5.5
H	6.0	6.0	6.5	7.5	8.5	10.0	11.0	12.0	13.0	14.0	15.0	15.0
I	1.5	1.5	1.5	1.6	1.7	1.8	2.0	2.0	2.2	2.7	3.0	3.4

LTB

TEES BANDED EQUAL



DESIGN FEATURES:

- THREAD: NPT, BSP (BS21), BSPT, DIN.
- CF8 (304) & CF8M (316).

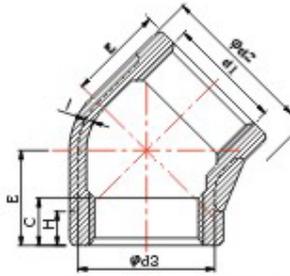
DIMENSIONS

UNIT : mm

SIZE SPEC.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
d1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
d2	14.8	18.3	21.7	26.6	32.1	41.0	49.2	55.5	68.2	83.5	99.0	125.0
d3	13.3	16.8	20.2	24.6	30.1	37.5	46.7	53.0	65.7	80.5	96.0	123.3
C	6.2	9.4	9.7	12.0	12.0	14.0	16.0	18.0	18.0	22.0	24.0	25.0
E	17.0	19.0	23.0	27.0	32.0	38.0	45.0	48.0	57.0	69.0	78.0	96.0
D	34.0	38.0	46.0	54.0	64.0	76.0	90.0	96.0	114.0	138.0	156.0	192.0
I	1.5	1.5	1.5	1.6	1.7	1.8	2.0	2.0	2.2	2.7	3.0	3.4

L4B

45° ELBOWS BANDED EQUAL



DESIGN FEATURES:

- THREAD: NPT, BSP (BS21), BSPT, DIN.
- CF8 (304) & CF8M (316).

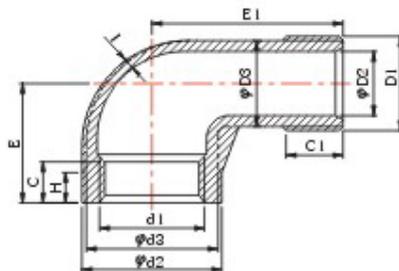
DIMENSIONS

UNIT : mm

SIZE SPEC	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
d1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
d2	14.8	18.3	21.7	26.6	32.1	39.5	49.2	55.5	68.2	83.5	99.0	125.0
d3	13.3	16.8	20.2	24.6	30.1	37.5	46.7	53.0	65.7	80.5	96.0	123.3
C	6.2	9.4	9.7	12.0	12.0	14.0	16.0	18.0	18.0	22.0	23.0	24.0
E	16.0	17.0	19.0	21.0	25.0	29.0	33.0	37.0	42.0	49.0	54.0	64.0
H	5.0	5.0	5.5	6.0	7.0	8.0	8.0	10.0	10.0	11.0	12.0	12.0
I	1.5	1.5	1.5	1.6	1.7	1.8	2.0	2.0	2.2	2.7	3.0	3.4

LSL

STREET ELBOWS 90° BANDED



DESIGN FEATURES:

- THREAD: NPT, BSP (BS21), BSPT, DIN.
- CF8 (304) & CF8M (316).

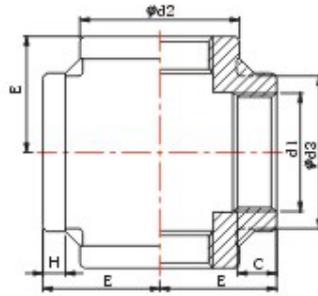
DIMENSIONS

UNIT : mm

SIZE SPEC	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
d1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
d2	14.8	18.3	21.7	26.6	32.1	39.5	49.2	55.5	68.2	83.5	99.0	126.3
d3	13.3	16.8	20.2	24.6	30.1	37.5	46.7	53.0	65.7	80.5	96.0	123.3
C	6.2	9.4	9.7	12.0	12.0	14.0	16.0	18.0	18.0	22.0	24.0	25.0
E	17.0	19.0	23.0	27.0	32.0	38.0	45.0	48.0	57.0	69.0	78.0	97.0
H	4.0	5.0	6.0	8.0	9.0	9.0	11.0	11.0	13.0	14.0	15.0	18.0
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D2	5.5	8.0	11.5	15.0	20.5	26.0	34.5	40.0	51.0	60.0	77.5	101.5
D3	8.5	11.0	14.5	18.2	23.9	29.8	38.5	44.0	55.4	65.0	82.5	106.5
C1	8.0	10.5	11.0	14.5	15.5	18.0	20.5	20.5	25.0	27.0	30.0	36.0
E1	26.0	27.0	29.0	35.0	40.0	46.0	54.0	57.0	70.0	83.0	94.0	115.0
I	1.5	1.5	1.5	1.6	1.7	1.8	2.0	2.0	2.2	2.7	3.0	3.4

L+B

CROSSES BANDED EQUAL



DESIGN FEATURES:

- THREAD: NPT, BSP (BS21), BSPT, DIN.
- CF8 (304) & CF8M (316).

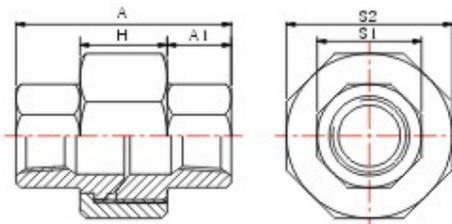
DIMENSIONS

UNIT : mm

SIZE SPEC.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
d1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
d2	14.8	18.3	21.7	26.6	32.5	39.5	49.2	55.5	68.2	83.5	99.0	125.0
d3	13.3	16.8	20.2	24.6	30.1	37.5	46.7	53.0	65.7	80.5	96.0	122.0
C	6.2	9.4	9.7	12.0	12.0	14.0	16.0	18.0	18.0	22.0	24.0	24.0
E	17.0	19.0	23.0	27.0	32.0	38.0	45.0	48.0	57.0	69.0	78.0	96.0
H	5.0	5.0	5.0	6.0	7.0	8.0	8.0	10.0	10.0	11.0	12.0	12.0

LCF

UNIONS F/F



DESIGN FEATURES:

- THREAD: NPT, BSP (BS21), BSPT, DIN.
- CF8 (304) & CF8M (316).

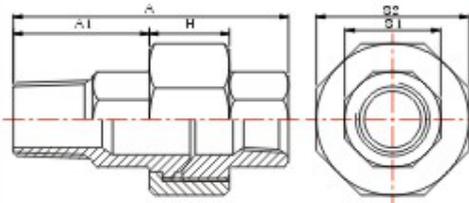
DIMENSIONS

UNIT : mm

SIZE SPEC.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A±1.5	36.3	36.3	37.2	39.1	45.4	49.0	51.1	54.2	58.8	74.5	89.5	98.6
A1±0.5	10.5	10.5	11.0	11.6	14.9	15.5	14.5	15.0	16.4	25.5	31.0	31.0
H±0.5	15.0	15.0	15.0	15.0	15.5	18.0	21.3	22.2	25.2	25.0	29.2	34.3
S1±1.0	13.3	16.8	20.2	24.5	29.7	36.5	46.2	52.3	64.6	79.2	94.9	120.3
S2±1.0	24.1	27.6	34.0	39.5	46.7	54.0	63.9	73.5	86.9	102.5	121.9	151.3

LCM

UNIONS M/F



DESIGN FEATURES:

- THREAD: NPT, BSP (BS21), BSPT, DIN.
- CF8 (304) & CF8M (316).

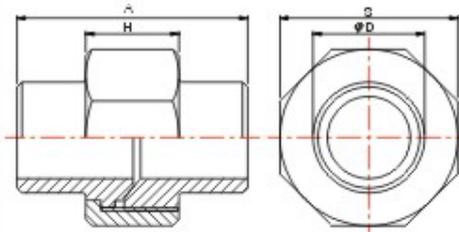
DIMENSIONS

UNIT : mm

SIZE SPEC.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A±1.5	42.5	46.5	47.2	53.5	57.0	66.1	67.8	75.2	84.4	99.0	118.0	130.3
A1±0.5	17.0	21.0	21.2	25.7	27.6	32.6	32.0	38.0	42.8	49.0	59.0	64.0
H±0.5	15.0	15.0	15.0	15.0	15.5	18.0	21.3	22.2	25.2	25.0	29.2	34.3
S1±1.0	13.3	16.8	20.2	24.5	29.7	36.5	46.2	52.3	64.4	79.2	94.9	120.3
S2±1.0	24.1	27.6	34.0	39.5	46.7	54.0	63.9	73.5	86.9	103.0	121.9	151.3

LCW

UNIONS B/W



DESIGN FEATURES:

- CF8 (304) & CF8M (316).
- SHIPPING QUANTITY: ±10%

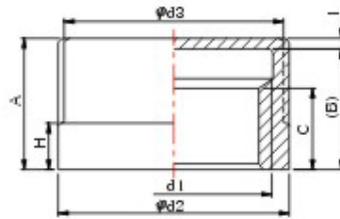
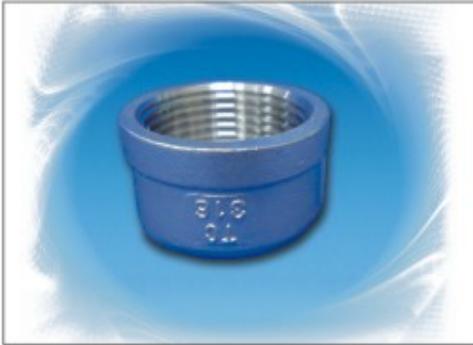
DIMENSIONS

UNIT : mm

SIZE SPEC.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A±1.5	—	31.0	38.0	40.0	47.1	49.6	54.3	57.2	60.0	70.4	81.0	92.3
D±0.5	—	13.8	17.3	21.6	27.1	34.0	42.7	48.6	60.5	76.3	89.1	114.3
H±0.5	—	15.0	15.0	15.0	15.5	18.0	21.3	22.2	25.2	25.0	29.2	34.3
S±0.5	—	27.6	34.0	39.5	46.7	54.0	63.9	73.5	86.9	102.9	121.9	151.3

LRC

ROUND CAPS



DESIGN FEATURES:

- THREAD: NPT, BSP (BS21), BSPT, DIN.
- CF8 (304) & CF8M (316).

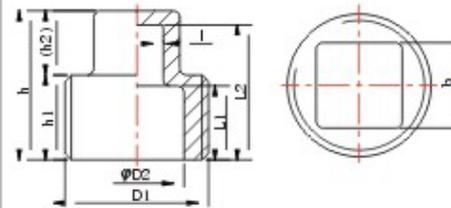
DIMENSIONS

UNIT : mm

SIZE SPEC.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
d1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
d2	14.8	18.3	21.7	26.6	32.1	39.5	49.2	55.5	68.2	83.5	99.0	126.3
d3	13.3	16.8	20.2	24.6	30.1	37.5	46.7	53.0	65.7	80.5	96.0	123.3
A	13.5	18.5	19.5	21.1	21.7	24.8	26.5	30.0	34.2	38.7	42.5	48.4
C	6.2	9.4	9.7	10.0	11.0	15.0	17.5	18.0	18.0	22.0	23.0	25.0
H	5.0	5.0	5.5	6.0	7.0	8.0	8.0	10.0	10.0	11.0	12.0	12.0
l	1.5	1.5	1.5	1.6	1.7	1.8	2.0	2.0	2.2	2.7	3.0	3.4
(B)	12.0	17.0	18.0	19.5	20.0	23.0	24.5	28.0	32.0	36.0	39.5	45.0

LSP

SQUARE HEAD PLUGS



DESIGN FEATURES:

- THREAD: NPT, BSP (BS21), BSPT, DIN.
- CF8 (304) & CF8M (316).

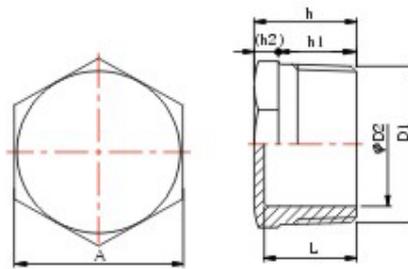
DIMENSIONS

UNIT : mm

SIZE SPEC.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
b	7.0	9.0	10.0	13.0	18.0	19.0	23.0	26.0	29.0	40.0	44.0	59.0
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D2	—	—	—	14.3	21.0	25.7	33.3	39.3	52.0	60.0	75.8	99.4
L1	—	—	—	11.9	11.3	15.2	15.8	15.9	18.8	20.3	27.2	28.4
L2	—	—	—	19.0	19.3	26.0	27.0	27.9	32.0	36.0	42.1	47.8
h	11.0	15.3	16.4	20.6	22.1	28.2	29.0	29.9	34.5	38.5	45.0	52.0
h1	6.0	10.3	10.4	13.6	14.1	17.2	18.0	17.9	21.5	23.5	30.0	33.0
(h2)	5.0	5.0	6.0	7.0	8.0	11.0	11.0	12.0	13.0	15.0	15.0	19.0
l	—	—	—	1.6	1.7	1.9	2.0	2.0	2.2	2.5	2.5	2.5

LHP

HEX HEAD PLUGS



DESIGN FEATURES:

- THREAD: NPT, BSP (BS21), BSPT, DIN.
- CF8 (304) & CF8M (316).

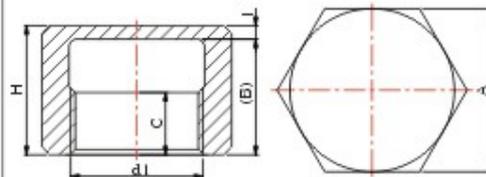
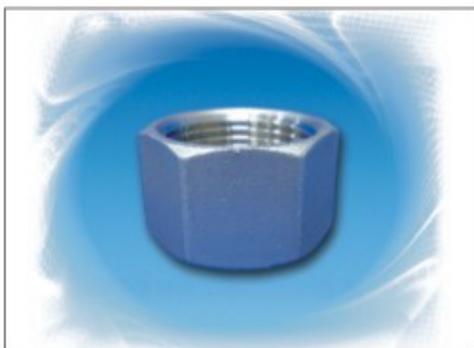
DIMENSIONS

UNIT : mm

SIZE SPEC.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	14.0	17.0	21.0	26.0	32.0	38.0	46.0	52.0	65.0	80.0	95.0	120.0
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D2	—	—	11.3	14.6	19.9	25.8	34.5	39.5	51.5	61.2	76.8	102.3
L	—	—	14.5	17.9	19.3	22.1	25.0	25.0	29.8	31.5	35.0	41.5
h	12.0	16.0	16.0	19.5	21.0	24.0	27.0	27.0	32.0	34.0	37.5	44.0
h1	8.0	12.0	11.0	14.5	15.5	18.0	20.5	20.5	25.0	27.0	30.0	36.0
(h2)	4.0	4.0	5.0	5.0	5.5	6.0	6.5	6.5	7.0	7.0	7.5	8.0

LHC

HEX CAPS



DESIGN FEATURES:

- THREAD: NPT, BSP (BS21), BSPT, DIN.
- CF8 (304) MATERIAL IS NOT AVAILABLE.
- CF8M (316) SHIPPING QUANTITY: ±10%

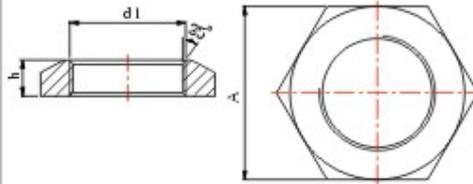
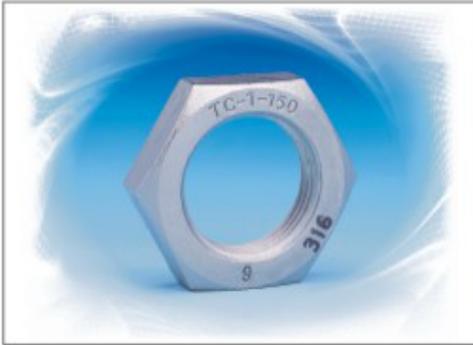
DIMENSIONS

UNIT : mm

SIZE SPEC.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	13.5	16.8	20.2	24.6	30.1	37.5	46.7	53.0	65.7	80.5	96.0	123.3
d1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
C	6.2	9.4	9.7	10.0	11.0	14.0	14.5	18.0	18.0	22.0	23.0	25.0
H	13.5	18.5	19.5	21.1	21.7	24.8	26.5	30.0	34.2	38.7	42.5	48.4
I	1.5	1.5	1.5	1.6	1.7	1.8	2.0	2.0	2.2	2.7	3.0	3.4
(B)	12.0	17.0	18.0	19.5	20.0	23.0	24.5	28.0	32.0	36.0	39.5	45.0

HNT

HEX NUTS



DESIGN FEATURES:

- 🔴 THREAD: NPT, BSP (BS21), BSPT, DIN.
- 🔴 CF8 (304) MATERIAL IS NOT AVAILABLE.
- 🔴 CF8M(316) SHIPPING QUANTITY: ±10%

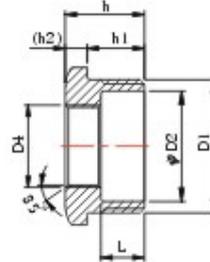
DIMENSIONS

UNIT : mm

SIZE SPEC.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
d1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	19.0	22.0	27.0	32.0	36.0	46.0	55.0	60.0	75.0	90.0	100.0	130.0
h	8.5	8.5	9.0	9.0	10.0	11.0	12.0	13.0	13.5	17.5	21.0	22.0

LHB

HEX BUSHINGS



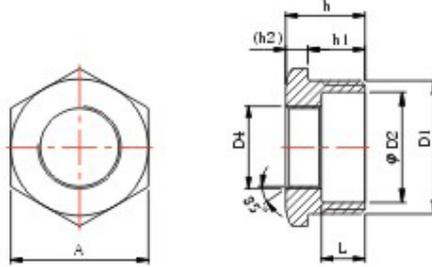
DESIGN FEATURES:

- 🔴 THREAD: NPT, BSP (BS21), BSPT, DIN.
- 🔴 CF8 (304) & CF8M (316).

DIMENSIONS

UNIT : mm

SIZE SPEC.	1/4"x1/8"	3/8"x1/8"	3/8"x1/4"	1/2"x1/8"	1/2"x1/4"	1/2"x3/8"	3/4"x1/8"	3/4"x1/4"	3/4"x3/8"	3/4"x1/2"	1"x1/8"	1"x1/4"	1"x3/8"	1"x1/2"	1"x3/4"
A	16.5	21.8	21.8	25.5	25.5	25.5	31.5	31.5	31.5	31.5	38.0	38.0	38.0	38.0	38.0
L	—	10.5	—	13.4	13.4	—	18.4	18.4	18.4	15.0	21.4	23.5	23.5	20.0	19.0
D1	1/4"	3/8"	3/8"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	1"	1"
D2	—	11.9	—	14.6	14.6	—	18.0	18.0	18.0	18.0	26.5	26.5	26.5	26.5	26.5
D4	1/8"	1/8"	1/4"	1/8"	1/4"	3/8"	1/8"	1/4"	3/8"	1/2"	1/8"	1/4"	3/8"	1/2"	3/4"
h	16.0	16.0	18.5	20.0	20.0	20.0	25.0	25.0	25.0	25.0	30.5	30.5	30.5	30.5	30.5
h1	11.0	11.0	13.0	14.5	14.5	14.5	19.0	19.0	19.0	19.0	22.5	22.5	22.5	22.5	22.5
(h2)	5.0	5.0	5.5	5.5	5.5	5.5	6.0	6.0	6.0	6.0	8.0	8.0	8.0	8.0	8.0



DESIGN FEATURES:

- **THREAD: NPT, BSP (BS21), BSPT, DIN.**
- **CF8 (304) & CF8M (316).**

DIMENSIONS

UNIT : mm

SIZE SPEC.	1 1/4"x1/8"	1 1/4"x1/4"	1 1/4"x3/8"	1 1/4"x1/2"	1 1/4"x3/4"	1 1/4"x1"	1 1/2"x1/8"	1 1/2"x1/4"	1 1/2"x3/8"	1 1/2"x1/2"	1 1/2"x3/4"	1 1/2"x1"	1 1/2"x1 1/4"	2"x1/8"
A	46.0	46.0	46.0	46.0	46.0	46.0	51.8	51.8	51.8	51.8	51.8	51.8	51.8	62.5
L	23.4	23.4	24.8	21.5	20.5	17.5	24.4	26.5	26.5	23.5	22.5	19.5	18.5	25.4
D1	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"
D2	36.0	36.0	36.0	36.0	36.0	36.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	51.2
D4	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1/8"
h	31.5	31.5	31.5	31.5	31.5	31.5	33.5	33.5	33.5	33.5	33.5	33.5	33.5	34.0
h1	23.0	23.0	23.0	23.0	23.0	23.0	23.5	23.5	23.5	23.5	23.5	23.5	23.5	23.5
(h2)	8.5	8.5	8.5	8.5	8.5	8.5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.5

DIMENSIONS

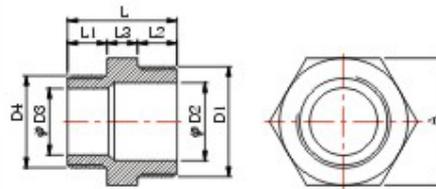
UNIT : mm

SIZE SPEC.	2"x1/4"	2"x3/8"	2"x1/2"	2"x3/4"	2"x1"	2"x1 1/4"	2"x1 1/2"	2 1/2"x1/2"	2 1/2"x3/4"	2 1/2"x1"	2 1/2"x1 1/4"	2 1/2"x1 1/2"	2 1/2"x2"	3"x1/2"
A	62.5	62.5	62.5	62.5	62.5	62.5	62.5	79.5	79.5	79.5	79.5	79.5	79.5	94.5
L	27.0	25.4	23.8	23.0	20.0	18.5	18.0	30.0	29.0	26.0	25.0	26.0	25.0	32.0
D1	2"	2"	2"	2"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	3"
D2	51.2	51.2	51.2	51.2	51.2	51.2	51.2	64.0	64.0	64.0	64.0	64.0	64.0	77.0
D4	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	1/2"
h	34.0	34.0	34.0	34.0	34.0	34.0	34.0	42.0	42.0	42.0	42.0	42.0	42.0	42.0
h1	23.5	23.5	23.5	23.5	23.5	23.5	23.5	29.5	29.5	29.5	29.5	29.5	29.5	29.0
(h2)	10.5	10.5	10.5	10.5	10.5	10.5	10.5	12.5	12.5	12.5	12.5	12.5	12.5	13.0

DIMENSIONS

UNIT : mm

SIZE SPEC.	3"x3/4"	3"x1"	3"x1 1/4"	3"x1 1/2"	3"x2"	3"x2 1/2"	4"x1/2"	4"x3/4"	4"x1"	4"x1 1/4"	4"x1 1/2"	4"x2"	4"x2 1/2"	4"x3"
A	94.5	94.5	94.5	94.5	94.5	94.5	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0
L	31.0	28.0	27.0	26.0	25.0	23.5	35.0	34.0	31.0	30.0	29.0	28.0	26.5	25.0
D1	3"	3"	3"	3"	3"	3"	4"	4"	4"	4"	4"	4"	4"	4"
D2	77.0	77.0	77.0	77.0	77.0	77.0	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5
D4	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
h	42.0	42.0	42.0	42.0	42.0	42.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
h1	29.0	29.0	29.0	29.0	29.0	29.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0
(h2)	13.0	13.0	13.0	13.0	13.0	13.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0



DESIGN FEATURES:

- **THREAD:** NPT, BSP (BS21), BSPT, DIN.
- **CF8 (304) & CF8M (316).**
- **NPT THREADED SHIPPING QUANTITY: ±10%**

DIMENSIONS

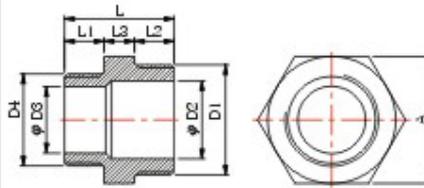
UNIT : mm

SIZE SPEC.	1/4"x1/8"	3/8"x1/8"	3/8"x1/4"	1/2"x1/8"	1/2"x1/4"	1/2"x3/8"	3/4"x1/8"	3/4"x1/4"	3/4"x3/8"	3/4"x1/2"	1"x1/4"	1"x3/8"	1"x1/2"
A	15.0	19.0	19.0	23.0	23.0	23.0	29.0	29.0	29.0	29.0	36.0	36.0	36.0
D1	1/4"	3/8"	3/8"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"
D2	9.0	12.0	12.0	15.5	15.5	15.5	21.0	21.0	21.0	21.0	27.0	27.0	27.0
D3	6.0	6.0	9.0	6.0	9.0	12.0	6.0	9.0	12.0	15.5	9.0	12.0	15.5
D4	1/8"	1/8"	1/4"	1/8"	1/4"	3/8"	1/8"	1/4"	3/8"	1/2"	1/4"	3/8"	1/2"
L	22.5	24.0	26.5	27.5	30.0	30.5	29.0	31.5	32.0	35.5	34.5	35.0	38.5
L1	8.0	8.0	10.5	8.0	10.5	11.0	8.0	10.5	11.0	14.5	10.5	11.0	14.5
L2	10.5	11.0	11.0	14.5	14.5	14.5	15.5	15.5	15.5	15.5	18.0	18.0	18.0
L3	4.0	5.0	5.0	5.0	5.0	5.0	5.5	5.5	5.5	5.5	6.0	6.0	6.0

DIMENSIONS

UNIT : mm

SIZE SPEC.	1"x3/4"	1 1/4"x1/4"	1 1/4"x3/8"	1 1/4"x1/2"	1 1/4"x3/4"	1 1/4"x1"	1 1/2"x1/4"	1 1/2"x3/8"	1 1/2"x1/2"	1 1/2"x3/4"	1 1/2"x1"	1 1/2"x1 1/4"	2"x1/4"
A	36.0	45.0	45.0	45.0	45.0	45.0	51.0	51.0	51.0	51.0	51.0	51.0	63.0
D1	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"
D2	27.0	35.0	35.0	35.0	35.0	35.0	40.5	40.5	40.5	40.5	40.5	40.5	52.0
D3	21.0	9.0	12.0	15.5	21.0	27.0	9.0	12.0	15.5	21.0	27.0	35.0	9.0
D4	3/4"	1/4"	3/8"	1/2"	3/4"	1"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1/4"
L	39.5	37.5	38.0	41.5	42.5	45.0	37.5	38.0	41.5	42.5	45.0	47.5	42.5
L1	18.0	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	25.0
L2	15.5	10.5	11.0	14.5	15.5	18.0	10.5	11.0	14.5	15.5	18.0	20.5	10.5
L3	6.0	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	7.0



DESIGN FEATURES:

- **THREAD:** NPT, BSP (BS21), BSPT, DIN.
- **CF8 (304) & CF8M (316).**
- **NPT THREADED SHIPPING QUANTITY: ±10%**

DIMENSIONS

UNIT : mm

SIZE SPEC.	2"x3/8"	2"x1/2"	2"x3/4"	2"x1"	2"x1 1/4"	2"x1 1/2"	2 1/2"x1/2"	2 1/2"x3/4"	2 1/2"x1"	2 1/2"x1 1/4"	2 1/2"x1 1/2"	2 1/2"x2"	3"x1/2"
A	63.0	63.0	63.0	63.0	63.0	63.0	80.0	80.0	80.0	80.0	80.0	80.0	95.0
D1	2"	2"	2"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	3"
D2	52.0	52.0	52.0	52.0	52.0	52.0	66.0	66.0	66.0	66.0	66.0	66.0	81.0
D3	12.0	15.5	21.0	27.0	35.0	40.5	15.5	21.0	27.0	35.0	40.5	52.0	15.5
D4	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	1/2"
L	43.0	46.5	47.5	50.0	52.5	52.5	48.5	49.5	52.0	54.5	54.5	59.0	52.0
L1	11.0	14.5	15.5	18.0	20.5	20.5	14.5	15.5	18.0	20.5	20.5	25.0	14.5
L2	25.0	25.0	25.0	25.0	25.0	25.0	27.0	27.0	27.0	27.0	27.0	27.0	30.0
L3	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.5

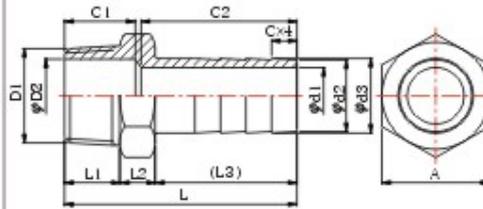
DIMENSIONS

UNIT : mm

SIZE SPEC.	3"x3/4"	3"x1"	3"x1 1/4"	3"x1 1/2"	3"x2"	3"x2 1/2"	4"x3/4"	4"x1"	4"x1 1/4"	4"x1 1/2"	4"x2"	4"x2 1/2"	4"x3"
A	95.0	95.0	95.0	95.0	95.0	95.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
D1	3"	3"	3"	3"	3"	3"	4"	4"	4"	4"	4"	4"	4"
D2	81.0	81.0	81.0	81.0	81.0	81.0	103.0	103.0	103.0	103.0	103.0	103.0	103.0
D3	21.0	27.0	35.0	40.5	52.0	66.0	21.0	27.0	35.0	40.5	52.0	66.0	81.0
D4	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
L	53.0	55.5	58.0	58.0	62.5	64.5	59.5	62.0	64.5	64.5	69.0	71.0	74.0
L1	15.5	18.0	20.5	20.5	25.0	27.0	15.5	18.0	20.5	20.5	25.0	27.0	30.0
L2	30.0	30.0	30.0	30.0	30.0	30.0	36.0	36.0	36.0	36.0	36.0	36.0	36.0
L3	7.5	7.5	7.5	7.5	7.5	7.5	8.0	8.0	8.0	8.0	8.0	8.0	8.0

ONP

HOSE NIPPLE



DESIGN FEATURES:

- THREAD: NPT, BSP (BS21), BSPT, DIN.
- CF8 (304) & CF8M (316).
- 2 1/2" NPT THREADED IS NOT AVAILABLE.
- SHIPPING QUANTITY: ±10% INCLUDING CF8 (304) ALL THREADS & CF8M (316) NPT THREAD.

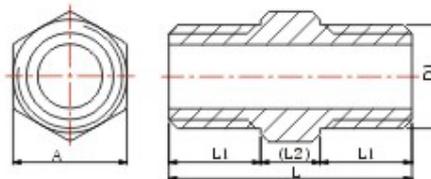
DIMENSIONS

UNIT : mm

SPEC. \ SIZE	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	16.0	19.0	25.0	31.0	38.0	46.0	52.0	65.0	80.0	95.0	120.0
D1	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D2	6.5	9.5	14.5	18.0	26.0	35.0	40.0	51.5	67.0	78.0	102.0
C	4.0	5.5	6.5	8.5	9.0	9.5	10.5	13.0	16.0	17.0	21.0
C1	17.0	18.0	19.0	23.0	25.0	28.0	31.0	33.0	37.0	43.0	48.0
C2	28.0	31.0	41.0	48.0	55.0	48.0	58.0	74.0	95.0	100.0	105.0
L	46.5	51.5	62.5	72.5	82.0	80.0	92.5	109.5	136.0	147.0	158.0
L1	13.0	13.0	15.5	18.0	19.5	22.5	23.0	24.5	27.0	33.0	36.0
L2	10.0	10.0	10.0	11.5	12.5	12.5	13.5	15.0	16.0	17.0	18.0
(L3)	23.5	28.5	37.0	43.0	50.0	53.0	56.0	70.0	93.0	97.0	104.0
d1	5.0	6.5	9.5	14.5	20.0	27.0	33.0	45.0	58.0	70.0	90.0
d2	8.0	10.0	13.5	19.5	25.5	32.5	38.5	50.5	62.0	75.0	101.0
d3	9.0	11.0	14.5	20.5	26.5	34.0	40.5	52.5	64.0	78.0	104.0

LNP

HEX NIPPLE



DESIGN FEATURES:

- THREAD: NPT, BSP (BS21), BSPT, DIN.
- CF8 (304) & CF8M (316).

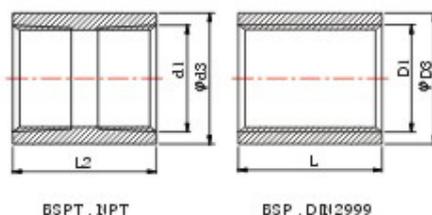
DIMENSIONS

UNIT : mm

SPEC. \ SIZE	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
A	12.0	15.0	19.0	23.0	29.0	36.0	45.0	51.0	63.0	80.0	95.0	120.0
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
L	20.0	25.0	27.0	34.0	36.5	42.0	47.5	47.5	57.0	62.0	67.5	80.0
L1	8.0	10.5	11.0	14.5	15.5	18.0	20.5	20.5	25.0	27.5	30.0	36.0
L2	4.0	4.0	5.0	5.0	5.5	6.0	6.5	6.5	7.0	7.0	7.5	8.0

FCP

COUPLINGS/SOCKETS



DESIGN FEATURES:

- THREAD: NPT, BSP (BS21), BSPT, DIN.
- CF8 (304) & CF8M (316).
- MADE FROM STAINLESS STEEL WELDED PIPE.

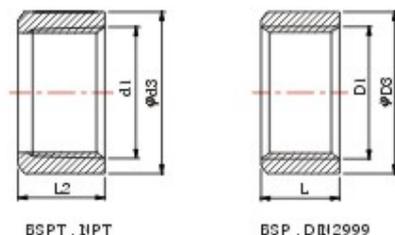
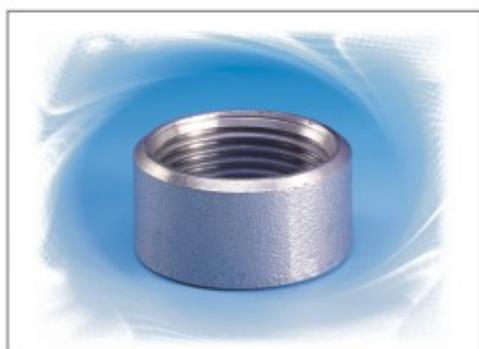
DIMENSIONS

UNIT : mm

SIZE		1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
SPEC.													
BSPT . NPT	d1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
	d3	14.0	18.5	21.5	26.5	32.0	39.5	48.5	54.5	66.5	84.0	100.0	129.0
	L2	20.0	27.0	28.0	36.0	39.0	43.0	48.0	48.0	56.0	65.0	71.0	83.0
BSP . DIN2999	D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
	D3	14.0	18.5	21.5	26.5	32.0	39.5	48.5	54.5	66.5	82.0	95.0	122.0
	L	20.0	25.0	26.0	34.0	36.0	43.0	48.0	48.0	56.0	65.0	71.0	83.0

HCP

HALF COUPLINGS/HALF SOCKETS



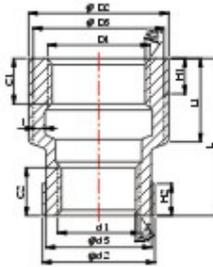
DESIGN FEATURES:

- THREAD: NPT, BSP (BS21), BSPT, DIN.
- CF8 (304) & CF8M (316).
- MADE FROM STAINLESS STEEL WELDED PIPE.

DIMENSIONS

UNIT : mm

SIZE		1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
SPEC.													
BSPT . NPT	d1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
	d3	14.0	18.5	21.5	26.5	32.0	39.5	48.5	54.5	66.5	84.0	100.0	129.0
	L2	11.0	13.0	14.0	18.0	20.0	21.0	24.0	24.0	28.0	33.0	36.0	42.0
BSP . DIN2999	D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
	D3	14.0	18.5	21.5	26.5	32.0	39.5	48.5	54.5	66.5	82.0	95.0	122.0
	L	11.0	13.0	12.0	15.0	17.0	19.0	22.0	22.0	26.0	30.0	33.0	40.0



DESIGN FEATURES:

- **THREAD:** NPT, BSP (BS21), BSPT, DIN.
- **CF8 (304) & CF8M (316).**

DIMENSIONS

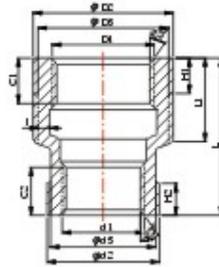
UNIT : mm

SIZE SPEC.	1/4"x1/8"	3/8"x1/8"	3/8"x1/4"	1/2"x1/8"	1/2"x1/4"	1/2"x3/8"	3/4"x1/8"	3/4"x1/4"	3/4"x3/8"	3/4"x1/2"	1"x1/8"	1"x1/4"	1"x3/8"
D1	1/4"	3/8"	3/8"	1/2"	1/2"	1/2"	3/4"	3/4"	3/4"	3/4"	1"	1"	1"
D2	18.3	21.7	21.7	26.6	26.6	26.6	32.1	32.1	32.1	32.1	39.5	39.5	39.5
D3	16.8	20.2	20.2	24.6	24.6	24.6	30.1	30.1	30.1	30.1	37.5	37.5	37.5
C1	9.4	9.7	9.7	12.0	12.0	12.0	12.0	12.0	12.0	12.0	14.0	14.0	14.0
H1	6.0	6.5	6.5	7.5	7.5	7.5	8.5	8.5	8.5	8.5	10.0	10.0	10.0
d1	1/8"	1/8"	1/4"	1/8"	1/4"	3/8"	1/8"	1/4"	3/8"	1/2"	1/8"	1/4"	3/8"
d2	14.8	14.8	18.3	14.8	18.3	21.7	14.8	18.3	21.7	26.6	14.8	18.3	21.7
d3	13.3	13.3	16.8	13.3	16.8	20.2	13.3	16.8	20.2	24.6	13.3	16.8	20.2
C2	6.2	6.2	9.4	6.2	9.4	9.7	6.2	9.4	9.7	12.0	6.2	9.4	9.7
H2	6.0	6.0	6.0	6.0	6.0	6.5	6.0	6.0	6.5	7.5	6.0	6.0	6.5
L1	15.7	17.1	17.1	19.9	19.9	19.9	19.9	19.9	19.9	19.9	24.2	24.2	24.2
L	25.0	26.0	26.0	34.0	34.0	34.0	36.0	36.0	36.0	36.0	42.0	42.0	42.0
I	1.5	1.5	1.5	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.8	1.8	1.8

DIMENSIONS

UNIT : mm

SIZE SPEC.	1"x1/2"	1"x3/4"	1 1/4"x1/4"	1 1/4"x3/8"	1 1/4"x1/2"	1 1/4"x3/4"	1 1/4"x1"	1 1/2"x1/4"	1 1/2"x3/8"	1 1/2"x1/2"	1 1/2"x3/4"	1 1/2"x1"	1 1/2"x1 1/4"
D1	1"	1"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
D2	39.5	39.5	49.2	49.2	49.2	49.2	49.2	55.5	55.5	55.5	55.5	55.5	55.5
D3	37.5	37.5	46.7	46.7	46.7	46.7	46.7	53.0	53.0	53.0	53.0	53.0	53.0
C1	14.0	14.0	16.0	16.0	16.0	16.0	16.0	18.0	18.0	18.0	18.0	18.0	18.0
H1	10.0	10.0	11.0	11.0	11.0	11.0	11.0	12.0	12.0	12.0	12.0	12.0	12.0
d1	1/2"	3/4"	1/4"	3/8"	1/2"	3/4"	1"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"
d2	26.6	32.1	18.3	21.7	26.6	32.1	39.5	18.3	21.7	26.6	32.1	39.5	49.2
d3	24.6	30.1	16.8	20.2	24.6	30.1	37.5	16.8	20.2	24.6	30.1	37.5	46.7
C2	12.0	12.0	9.4	9.7	12.0	12.0	14.0	9.4	9.7	12.0	12.0	14.0	16.0
H2	7.5	8.5	6.0	6.5	7.5	8.5	10.0	6.0	6.5	7.5	8.5	10.0	11.0
L1	24.2	24.2	27.0	27.0	27.0	27.0	27.0	28.6	28.6	28.6	28.6	28.6	28.6
L	42.0	42.0	48.0	48.0	48.0	48.0	48.0	52.0	52.0	52.0	52.0	52.0	52.0
I	1.8	1.8	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0



DESIGN FEATURES:

- **THREAD:** NPT, BSP (BS21), BSPT, DIN.
- **CF8 (304) & CF8M (316).**

DIMENSIONS

UNIT : mm

SIZE SPEC.	2"x1 1/4"	2"x3/8"	2"x1 1/2"	2"x3/4"	2"x1"	2"x1 1/4"	2"x1 1/2"	2 1/2"x3/4"	2 1/2"x1"	2 1/2"x1 1/4"	2 1/2"x1 1/2"	2 1/2"x2"
D1	2"	2"	2"	2"	2"	2"	2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"	2 1/2"
D2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	83.5	83.5	83.5	83.5	83.5
D3	65.7	65.7	65.7	65.7	65.7	65.7	65.7	80.5	80.5	80.5	80.5	80.5
C1	18.0	18.0	18.0	18.0	18.0	18.0	18.0	22.0	22.0	22.0	22.0	22.0
H1	13.0	13.0	13.0	13.0	13.0	13.0	13.0	14.0	14.0	14.0	14.0	14.0
d1	1 1/4"	3/8"	1 1/2"	3/4"	1"	1 1/4"	1 1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
d2	18.3	21.7	26.6	32.1	39.5	49.2	55.5	32.1	39.5	49.2	55.5	68.2
d3	16.8	20.2	24.6	30.1	37.5	46.7	53.0	30.1	37.5	46.7	53.0	65.7
C2	9.4	9.7	12.0	12.0	14.0	16.0	18.0	12.0	14.0	16.0	18.0	18.0
H2	6.0	6.5	7.5	8.5	10.0	11.0	12.0	8.5	10.0	11.0	12.0	13.0
L1	29.0	29.0	29.0	29.0	29.0	29.0	29.0	34.0	34.0	34.0	34.0	34.0
L	58.0	58.0	58.0	58.0	58.0	58.0	58.0	65.0	65.0	65.0	65.0	65.0
I	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.7	2.7	2.7	2.7	2.7

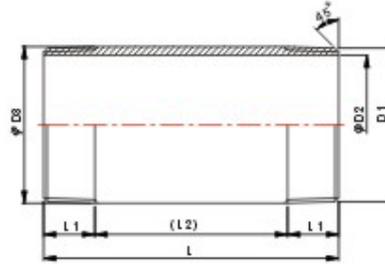
DIMENSIONS

UNIT : mm

SIZE SPEC.	3"x3/4"	3"x1"	3"x1 1/4"	3"x1 1/2"	3"x2"	3"x2 1/2"	4"x1"	4"x1 1/4"	4"x1 1/2"	4"x2"	4"x2 1/2"	4"x3"
D1	3"	3"	3"	3"	3"	3"	4"	4"	4"	4"	4"	4"
D2	99.0	99.0	99.0	99.0	99.0	99.0	126.3	126.3	126.3	126.3	126.3	126.3
D3	96.0	96.0	96.0	96.0	96.0	96.0	123.3	123.3	123.3	123.3	123.3	123.3
C1	24.0	24.0	24.0	24.0	24.0	24.0	25.0	25.0	25.0	25.0	25.0	25.0
H1	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
d1	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
d2	32.1	39.5	49.2	55.5	68.2	83.5	39.5	49.2	55.5	68.2	83.5	99.0
d3	30.1	37.5	46.7	53.0	65.7	80.5	37.5	46.7	53.0	65.7	82.1	96.0
C2	12.0	14.0	16.0	18.0	18.0	22.0	14.0	16.0	18.0	18.0	22.0	24.0
H2	8.5	10.0	11.0	12.0	13.0	14.0	10.0	11.0	12.0	13.0	14.0	15.0
L1	36.0	36.0	36.0	36.0	36.0	36.0	52.0	52.0	52.0	52.0	52.0	52.0
L	72.0	72.0	72.0	72.0	72.0	72.0	94.0	94.0	94.0	94.0	94.0	94.0
I	3.0	3.0	3.0	3.0	3.0	3.0	3.4	3.4	3.4	3.4	3.4	3.4

BNP

BARREL NIPPLE



DESIGN FEATURES:

- THREAD: NPT, BSP (BS21), BSPT, DIN.
- CF8 (304) & CF8M (316).
- MADE FROM STAINLESS STEEL WELDED PIPE.

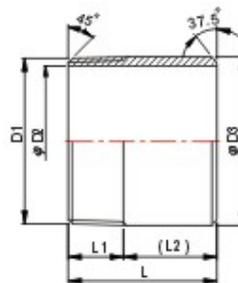
DIMENSIONS

UNIT : mm

SIZE SPEC.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D2	6.0	9.0	12.0	16.0	21.0	27.0	35.0	41.0	53.0	66.0	79.0	103.0
D3	10.0	13.5	17.0	21.0	27.0	33.5	42.0	48.0	60.5	76.0	89.0	114.0
L	40.0	40.0	40.0	60.0	60.0	60.0	80.0	80.0	100.0	100.0	120.0	120.0
L1	10.5	12.0	12.0	17.0	17.0	19.0	22.0	22.0	26.0	26.0	30.0	35.0
(L2)	19.0	16.0	16.0	26.0	26.0	22.0	36.0	36.0	48.0	48.0	60.0	50.0

WNP

WELDING NIPPLE



DESIGN FEATURES:

- THREAD: NPT, BSP (BS21), BSPT, DIN.
- CF8 (304) & CF8M (316).
- MADE FROM STAINLESS STEEL WELDED PIPE.

DIMENSIONS

UNIT : mm

SIZE SPEC.	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D1	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
D2	6.0	9.0	12.0	16.0	21.0	27.0	35.0	41.0	53.0	66.0	79.0	103.0
D3	10.0	13.5	17.0	21.0	27.0	33.5	42.0	48.0	60.5	76.0	89.0	114.0
L	30.0	30.0	30.0	35.0	40.0	40.0	50.0	50.0	50.0	60.0	70.0	80.0
L1	10.0	12.0	12.0	17.0	19.0	19.0	22.0	22.0	25.0	25.0	30.0	35.0
(L2)	20.0	18.0	18.0	18.0	21.0	21.0	28.0	28.0	25.0	35.0	40.0	45.0

WEIGHT LIST

成品單重表

UNIT : KG/PC

ITEM	SIZE	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
90° ELBOWS BANDED EQUAL(L9B)		0.018	0.026	0.040	0.064	0.098	0.158	0.240	0.302	0.498	0.810	1.170	2.600
TEES BANDED EQUAL(LTB)		0.028	0.038	0.058	0.090	0.142	0.238	0.342	0.454	0.670	1.220	1.520	2.520
45° ELBOWS BANDED EQUAL(L4B)		0.020	0.030	0.040	0.060	0.088	0.146	0.216	0.300	0.442	0.630	1.010	1.650
STREET ELBOWS 90° BANDED(LSL)		0.018	0.028	0.038	0.064	0.098	0.160	0.216	0.336	0.548	0.880	1.280	2.240
CROSSES BANDED EQUAL(L+B)		0.039	0.052	0.070	0.116	0.164	0.300	0.410	0.570	0.830	1.170	2.096	3.050
UNIONS F/F(LCF)		0.060	0.076	0.110	0.138	0.190	0.272	0.414	0.540	0.800	1.120	1.930	3.050
UNIONS M/F(LCM)		0.071	0.082	0.116	0.156	0.210	0.300	0.460	0.640	0.930	1.540	2.450	3.750
UNIONS B/W(LCW)		-	0.142	0.106	0.140	0.206	0.302	0.440	0.590	0.860	1.200	2.000	2.774
ROUND CAPS(LRC)		0.008	0.016	0.022	0.030	0.050	0.076	0.112	0.162	0.234	0.340	0.540	0.820
SQUARE HEAD PLUGS(LSP)		0.006	0.012	0.020	0.020	0.032	0.054	0.084	0.104	0.142	0.300	0.480	0.850
HEX HEAD PLUGS(LHP)		0.010	0.020	0.022	0.034	0.052	0.082	0.122	0.150	0.242	0.370	0.570	0.870
HEX CAPS(LHC)		0.013	0.018	0.024	0.038	0.054	0.092	0.138	0.194	0.304	0.500	0.770	1.360
HEX NUTS(HNT)		0.150	0.019	0.029	0.040	0.046	0.086	0.122	0.142	0.230	0.372	0.439	0.776
HEX BUSHINGS(LHB)		-	0.014	0.020	0.038	0.070	0.104	0.156	0.222	0.350	0.520	0.810	1.500
REDUCING HEX NIPPLE(LRN)		-	0.010	0.020	0.040	0.060	0.100	0.170	0.190	0.290	0.440	0.540	1.070
HEX NIPPLE(LNP)		0.008	0.014	0.022	0.038	0.052	0.084	0.138	0.172	0.272	0.460	0.450	1.010
HOSE NIPPLE(ONP)		-	0.031	0.048	0.077	0.137	0.211	0.267	0.367	0.606	0.740	1.450	2.495
COUPLINGS/SOCKETS (FCP)	NPT - BSPT	0.013	0.031	0.037	0.072	0.100	0.159	0.232	0.254	0.371	0.918	1.223	2.352
	BSP - DIN2999	0.013	0.028	0.033	0.065	0.084	0.145	0.204	0.242	0.350	0.506	0.676	1.228
HALF COUPLINGS/HALF SOCKETS (HCP)	NPT - BSPT	0.008	0.015	0.018	0.037	0.050	0.073	0.108	0.125	0.177	0.451	0.623	1.138
	BSP - DIN2999	0.008	0.012	0.015	0.028	0.038	0.059	0.091	0.108	0.158	0.233	0.305	0.560
REDUCING COUPLINGS(LRS)		-	0.020	0.028	0.044	0.056	0.100	0.150	0.190	0.260	0.440	0.640	1.030
BARREL NIPPLE(BNP)		0.013	0.019	0.025	0.058	0.078	0.118	0.213	0.243	0.394	0.799	1.100	1.403
WELDING NIPPLE(WNP)		0.011	0.015	0.020	0.036	0.055	0.084	0.135	0.161	0.203	0.453	0.622	1.022