

Stainless BW fittings - Sch 10S / Sch 40S

אביזרי נירוסטה לריתוך קצה

304/304L or 316/316L | Sch 10S / Sch 40S selected by order specification

PRODUCT FAMILIES

90 deg LR elbows / 45 deg LR elbows / equal tees

Concentric reducers / eccentric reducers / caps

Other geometries, including reducing tees, SR elbows and stub ends: by specific enquiry.

MATERIAL AND WALL SELECTION

Specify stainless grade: 304/304L or 316/316L according to the service requirements.

Sch 10S and Sch 40S are wall series, not pressure ratings.

The S suffix identifies the stainless pipe dimensional system of ASME B36.19.

Confirm actual wall at each weld end, pipe OD, end preparation and required fitting standard.

Do not substitute sanitary tube OD dimensions for NPS pipe dimensions.

Corrosion resistance and pressure-temperature suitability must be checked for the service.

HOW TO USE THE DIMENSION TABLES

All numerical dimensions in the tables are nominal and in millimetres.

NPS is nominal pipe size in inches; OD is outside diameter at the weld end.

Elbows and equal tees: pages 2-3. Reducers: pages 4-5. Caps: page 6.

Geometry: pages 2-6. Pipe weld-end wall reference for Sch 10S / Sch 40S: page 7.

For caps, choose length E using the specified wall and the tabulated threshold.

Confirm the actual dimensional standard, tolerances and certificate requirements in the order.

MSS SP-43 and ASME B16.9 versions must be identified separately when applicable.

INFORMATION FOR QUOTATION

Fitting type; all end sizes; angle and LR/SR where applicable; Sch at each end;

stainless grade; required material and dimensional standards; quantity;

fluid / gas; operating pressure and temperature; inspection and certification requirements.

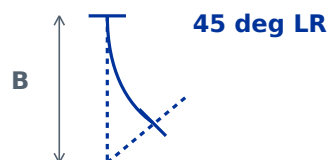
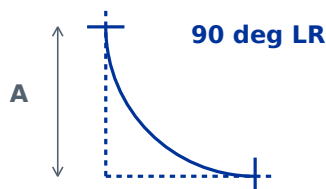
Dimension tables are not stock lists and do not restrict other sizes available by enquiry.

ALFACOM Engineering Ltd. | alfacom.co.il

LR elbows - 90 deg and 45 deg

זוויות נירוסטה לריתוך קצה ברדיוס ארוך

304/304L or 316/316L | Sch 10S / Sch 40S selected by order specification



Centerline schematics only; not to scale. A: 90 deg LR. B: 45 deg LR.

NPS (in)	OD (mm)	A (mm)	B (mm)
1/2	21.3	38	16
3/4	26.7	38	19
1	33.4	38	22
1-1/4	42.2	48	25
1-1/2	48.3	57	29
2	60.3	76	35
2-1/2	73.0	95	44
3	88.9	114	51
3-1/2	101.6	133	57
4	114.3	152	64
5	141.3	190	79
6	168.3	229	95
8	219.1	305	127
10	273.0	381	159
12	323.8	457	190
14	355.6	533	222
16	406.4	610	254
18	457.0	686	286
20	508.0	762	318
22	559.0	838	343
24	610.0	914	381
26	660.0	991	406
28	711.0	1067	438
30	762.0	1143	470
32	813.0	1219	502
34	864.0	1295	533
36	914.0	1372	565
38	965.0	1448	600
40	1016.0	1524	632
42	1067.0	1600	660
44	1118.0	1676	695
46	1168.0	1753	727
48	1219.0	1829	759

Nominal geometry only. OD is outside diameter at the weld end. NPS is nominal pipe size.

Sch 10S / Sch 40S wall thickness and pressure-temperature suitability require order confirmation.

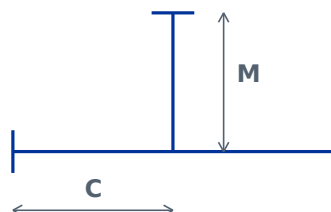
Do not apply these dimensions to SR elbows. Availability and tolerances must be confirmed.

Equal tee - nominal dimensions

טי שווה מנירוסטה לריתוך קצה

304/304L or 316/316L | Sch 10S / Sch 40S selected by order specification

EQUAL TEE



Centerline schematic only; not to scale. C: run center-to-end. M: branch center-to-end.

NPS (in)	OD (mm)	C (mm)	M (mm)
1/2	21.3	25	25
3/4	26.7	29	29
1	33.4	38	38
1-1/4	42.2	48	48
1-1/2	48.3	57	57
2	60.3	64	64
2-1/2	73.0	76	76
3	88.9	86	86
3-1/2	101.6	95	95
4	114.3	105	105
5	141.3	124	124
6	168.3	143	143
8	219.1	178	178
10	273.0	216	216
12	323.8	254	254
14	355.6	279	279
16	406.4	305	305
18	457.0	343	343
20	508.0	381	381
22	559.0	419	419
24	610.0	432	432
26	660.0	495	495
28	711.0	521	521
30	762.0	559	559
32	813.0	597	597
34	864.0	635	635
36	914.0	673	673
38	965.0	711	711
40	1016.0	749	749
42	1067.0	762	711
44	1118.0	813	762
46	1168.0	851	800
48	1219.0	889	838

For equal tees only. Do not use this table for reducing tees or crosses.

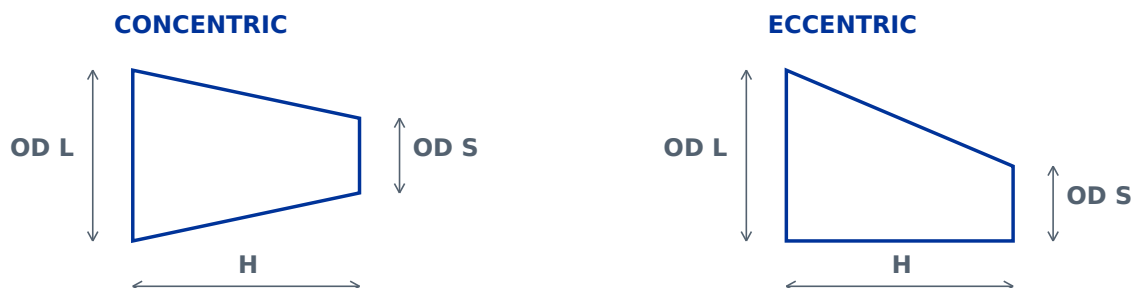
All dimensions are nominal. Wall thickness, material grade and tolerances require confirmation.

Sch 10S / Sch 40S identifies wall series; it is not a pressure rating.

Concentric / eccentric reducers - table 1 of 2

מעברי קוטר קונצנטריים ואקסצנטריים

304/304L or 316/316L | Sch 10S / Sch 40S selected by order specification



Schematics only; not to scale. H: overall length. L / S: large / small weld ends.

NPS L x S (in)	OD L (mm)	OD S (mm)	H (mm)
3/4 x 1/2	26.7	21.3	38
3/4 x 3/8	26.7	17.3	38
1 x 3/4	33.4	26.7	51
1 x 1/2	33.4	21.3	51
1-1/4 x 1	42.2	33.4	51
1-1/4 x 3/4	42.2	26.7	51
1-1/4 x 1/2	42.2	21.3	51
1-1/2 x 1-1/4	48.3	42.2	64
1-1/2 x 1	48.3	33.4	64
1-1/2 x 3/4	48.3	26.7	64
1-1/2 x 1/2	48.3	21.3	64
2 x 1-1/2	60.3	48.3	76
2 x 1-1/4	60.3	42.2	76
2 x 1	60.3	33.4	76
2 x 3/4	60.3	26.7	76
2-1/2 x 2	73.0	60.3	89
2-1/2 x 1-1/2	73.0	48.3	89
2-1/2 x 1-1/4	73.0	42.2	89
2-1/2 x 1	73.0	33.4	89
3 x 2-1/2	88.9	73.0	89

These are the size combinations with reference dimensions listed in this catalogue.

This table is not a stock list and does not limit the sizes available by enquiry.

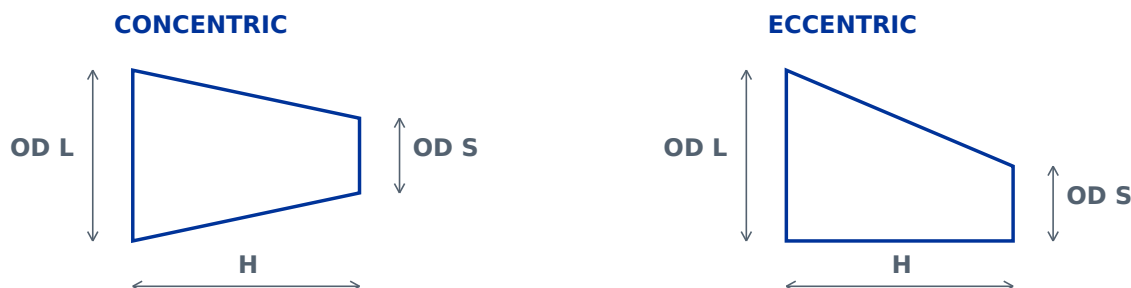
State both end sizes, concentric / eccentric form, wall series, material and quantity.

Confirm end wall thicknesses, dimensional tolerances and orientation before ordering.

Concentric / eccentric reducers - table 2 of 2

מעברי קוטר קונצנטריים ואקסצנטריים

304/304L or 316/316L | Sch 10S / Sch 40S selected by order specification



Schematics only; not to scale. H: overall length. L / S: large / small weld ends.

NPS L x S (in)	OD L (mm)	OD S (mm)	H (mm)
3 x 2	88.9	60.3	89
3 x 1-1/2	88.9	48.3	89
3 x 1-1/4	88.9	42.2	89
3-1/2 x 3	101.6	88.9	102
3-1/2 x 2-1/2	101.6	73.0	102
3-1/2 x 2	101.6	60.3	102
3-1/2 x 1-1/2	101.6	48.3	102
3-1/2 x 1-1/4	101.6	42.2	102
4 x 3-1/2	114.3	101.6	102
4 x 3	114.3	88.9	102
4 x 2-1/2	114.3	73.0	102
4 x 2	114.3	60.3	102
4 x 1-1/2	114.3	48.3	102
5 x 4	141.3	114.3	127
5 x 3-1/2	141.3	101.6	127
5 x 3	141.3	88.9	127
5 x 2-1/2	141.3	73.0	127
5 x 2	141.3	60.3	127
6 x 5	168.3	141.3	140
6 x 4	168.3	114.3	140

These are the size combinations with reference dimensions listed in this catalogue.

This table is not a stock list and does not limit the sizes available by enquiry.

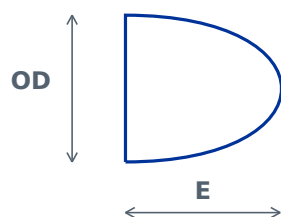
State both end sizes, concentric / eccentric form, wall series, material and quantity.

Confirm end wall thicknesses, dimensional tolerances and orientation before ordering.

BW caps - length selection by wall thickness

כיפות נירוסטה לריתוך קצה

304/304L or 316/316L | Sch 10S / Sch 40S selected by order specification



t = specified wall thickness
 Choose E using t limit below.

Schematic only; not to scale. E: cap length. t limit: wall-thickness threshold.

NPS (in)	OD (mm)	E: t ≤ limit	t limit (mm)	E: t > limit
1/2	21.3	25	4.57	25
3/4	26.7	25	3.81	25
1	33.4	38	4.57	38
1-1/4	42.2	38	4.83	38
1-1/2	48.3	38	5.08	38
2	60.3	38	5.59	44
2-1/2	73.0	38	7.00	51
3	88.9	51	7.62	64
3-1/2	101.6	64	8.13	76
4	114.3	64	8.64	76
5	141.3	76	9.65	89
6	168.3	89	10.92	102
8	219.1	102	12.70	127
10	273.0	127	12.70	152
12	323.8	152	12.70	178
14	355.6	165	12.70	191
16	406.4	178	12.70	203
18	457.0	203	12.70	229
20	508.0	229	12.70	254
22	559.0	254	12.70	254
24	610.0	267	12.70	305

All E values are in mm. t limit is a threshold, not the Sch 10S / Sch 40S wall thickness.

Use the first E column when specified t ≤ t limit; use the last E column when t > t limit.

This table covers NPS 24 and smaller. For NPS 26 and larger, agree length when ordering.

E columns are selected using the specified wall thickness and the threshold above.

Confirm geometry, wall thickness, material and tolerances in supply documents.

Pipe weld-end wall reference - Sch 10S / Sch 40S

עובי דופן צנרת נירוסטה להשוואת קצוות

304/304L or 316/316L | Sch 10S / Sch 40S selected by order specification

Nominal pipe reference only; confirm the actual fitting weld-end wall in the order.

NPS (in)	Pipe OD (mm)	Sch 10S t (mm)	Sch 40S t (mm)
1/2	21.3	2.11	2.77
3/4	26.7	2.11	2.87
1	33.4	2.77	3.38
1-1/4	42.2	2.77	3.56
1-1/2	48.3	2.77	3.69
2	60.3	2.77	3.92
2-1/2	73.0	3.05	5.16
3	88.9	3.05	5.49
3-1/2	101.6	3.05	5.74
4	114.3	3.05	6.02
5	141.3	3.41	6.56
6	168.3	3.41	7.12
8	219.1	3.76	8.18
10	273.1	4.20	9.28
12	323.9	4.58	9.53

Pipe reference values follow the existing ALFACOM ASME B36.19 dimensional sheet.
 Check the applicable standard edition and supplied end-wall thickness before welding.
 Geometry tables may use different OD rounding conventions from this pipe table.
 The nominal wall in this table does not define pressure-temperature suitability.
 For reducers, specify the wall series / actual wall independently at both ends.
 Sizes outside this pipe table require separate verification; it is not an availability limit.