

DOUBLE EXPANSION JOINT WITH O-RING

Double expansion joint is sometimes referred to as back-to-back expansion joint.

Installation of Expansion Joints:

- When the duct is shorter than 100 ft., no Expansion Joint needed
- When the duct is between 100 ft. up to 300 ft., install one Expansion Joint at the mid point
- If the duct is longer than 300 ft., install one Expansion Joint every 300 ft. apart

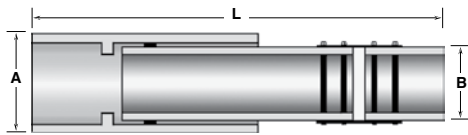
Note: All Expansion Joints have a yellow line on the nipple end of the joint for proper installation.

Nominal Size	Type	IPS Item No.	A	B	L - Min	L - Max	Weight lbs	kg
¾	SW	07E-SW-39	1.20 (30)	17 (432)	29 (737)	45 (1143)	0.84 (0.38)	
1	SW	10E-SW-39	1.46 (37)	17 (432)	29 (737)	45 (1143)	0.94 (0.43)	
1¼	SW	12E-SW-39	1.81 (46)	17 (432)	29 (737)	45 (1143)	1.14 (0.52)	
1½	SW	15E-SW-39	2.04 (52)	17 (432)	29 (737)	45 (1143)	1.63 (0.74)	
2	SW	20E-SW-39	2.54 (65)	17 (432)	29 (737)	45 (1143)	1.88 (0.85)	
3	SW	30E-SW-39	3.66 (93)	17 (432)	29 (737)	45 (1143)	2.97 (1.35)	
4	SW	40E-SW-39	4.61 (117)	17 (432)	29 (737)	45 (1143)	3.56 (1.62)	
4	HW	40E-HW-39	4.69 (119)	17 (432)	29 (737)	45 (1143)	4.80 (2.18)	
5	MW	50E-MW-39	5.79 (147)	17 (432)	29 (737)	45 (1143)	5.94 (2.70)	
5	HW	50E-HW-39	5.85 (149)	17 (432)	29 (737)	45 (1143)	6.44 (2.92)	
6	MW	60E-MW-39	6.85 (174)	17 (432)	29 (737)	45 (1143)	7.03 (3.19)	
6	HW	60E-HW-39	6.91 (176)	17 (432)	29 (737)	45 (1143)	8.07 (3.66)	

Nominal Size	Type	ID Item No.	A	B	L - Min	L - Max	Weight lbs	kg
2	SW	20F-SW-39	2.30 (58)	17 (432)	29 (737)	45 (1143)	1.68 (0.76)	
2½	SW	25F-SW-39	2.80 (71)	17 (432)	29 (737)	45 (1143)	2.08 (0.94)	
3	SW	30F-SW-39	3.30 (84)	17 (432)	29 (737)	45 (1143)	2.38 (1.08)	
3½	SW	35F-SW-39	3.80 (96)	17 (432)	29 (737)	45 (1143)	2.97 (1.35)	
4	SW	40F-SW-39	4.30 (109)	17 (432)	29 (737)	45 (1143)	3.42 (1.55)	
4	HW	40F-HW-39	4.39 (111)	17 (432)	29 (737)	45 (1143)	4.55 (2.07)	
4½	SW	45F-SW-39	4.80 (122)	17 (432)	29 (737)	45 (1143)	3.71 (1.68)	
4½	HW	45F-HW-39	4.89 (124)	17 (432)	29 (737)	45 (1143)	5.15 (2.34)	
5	MW	50F-MW-39	5.39 (137)	17 (432)	29 (737)	45 (1143)	5.59 (2.54)	
5	HW	50F-HW-39	5.42 (138)	17 (432)	29 (737)	45 (1143)	6.53 (2.97)	
6	MW	60F-MW-39	6.39 (162)	17 (432)	29 (737)	45 (1143)	6.68 (3.03)	
6	HW	60F-HW-39	6.42 (163)	17 (432)	29 (737)	45 (1143)	7.82 (3.55)	

Nominal Size	Type	Item No.	A	B	L - Min	L - Max	Weight lbs	kg
¾	XW	07E-XW-39	1.94 (54)	17 (432)	29 (737)	45 (1143)	3.01 (1.37)	
1	XW	10E-XW-39	2.20 (61)	17 (432)	29 (737)	45 (1143)	3.36 (1.53)	
1¼	XW	12E-XW-39	2.55 (65)	17 (432)	29 (737)	45 (1143)	4.06 (1.84)	
1½	XW	15E-XW-39	2.79 (71)	17 (432)	29 (737)	45 (1143)	5.83 (2.65)	
2	XW	20F-XW-39	3.00 (76)	17 (432)	29 (737)	45 (1143)	6.24 (2.83)	
2½	XW	25F-XW-39	3.53 (90)	17 (432)	29 (737)	45 (1143)	7.63 (3.46)	
3	XW	30F-XW-39	4.00 (102)	17 (432)	29 (737)	45 (1143)	9.01 (4.09)	
3½	XW	35F-XW-39	4.53 (115)	17 (432)	29 (737)	45 (1143)	10.42 (4.72)	
4	XW	40F-XW-39	5.00 (127)	17 (432)	29 (737)	45 (1143)	11.78 (5.35)	
5	XW	50F-XW-39	6.00 (152)	17 (432)	29 (737)	45 (1143)	14.55 (6.61)	
6	XW	60F-XW-39	7.00 (178)	17 (432)	29 (737)	45 (1143)	19.25 (8.74)	

Nominal Size	Type	IPS Item No.	A	B	L - Min	L - Max	Weight lbs	kg
¾	SW	07E-SW-31	1.20 (30)	1.1 (27)	37 (940)	51 (1295)	1.19 (0.54)	
1	SW	10E-SW-31	1.46 (37)	1.3 (34)	37 (940)	51 (1295)	1.33 (0.60)	
1¼	SW	12E-SW-31	1.81 (46)	1.7 (42)	37 (940)	51 (1295)	1.61 (0.73)	
1½	SW	15E-SW-31	2.04 (52)	1.9 (49)	37 (940)	51 (1295)	2.31 (1.05)	
2	SW	20E-SW-31	2.54 (65)	2.4 (61)	37 (940)	51 (1295)	2.66 (1.21)	
3	SW	30E-SW-31	3.66 (93)	3.5 (89)	37 (940)	51 (1295)	4.20 (1.91)	
4	SW	40E-SW-31	4.61 (117)	4.5 (114)	37 (940)	51 (1295)	5.04 (2.29)	
4	HW	40E-HW-31	4.69 (119)	4.5 (115)	37 (940)	51 (1295)	6.79 (3.08)	
5	MW	50E-MW-31	5.79 (147)	5.6 (142)	37 (940)	51 (1295)	8.40 (3.81)	
5	HW	50E-HW-31	5.85 (149)	5.6 (143)	37 (940)	51 (1295)	9.10 (4.13)	
6	MW	60E-MW-31	6.85 (174)	6.6 (167)	37 (940)	51 (1295)	9.94 (4.51)	
6	HW	60E-HW-31	6.91 (176)	6.6 (168)	37 (940)	51 (1295)	11.41 (5.18)	



ALIGNMENT/EXPANSION FITTING, WITH O-RINGS

Alignment/Expansion fitting is sometimes referred to as an Expansion/Deflection joint.

[The clamps holding the rubber sleeve connecting the two nipples are made from stainless steel for corrosion protection.]

Same instructions & note as above

Nominal Size	Type	ID Item No.	A	B	L - Min	L - Max	Weight lbs	kg
2	SW	20F-SW-31	2.30 (58)	2.2 (55)	37 (940)	51 (1295)	2.38 (1.08)	
2½	SW	25F-SW-31	2.80 (71)	2.7 (68)	37 (940)	51 (1295)	2.94 (1.34)	
3	SW	30F-SW-31	3.30 (84)	3.2 (80)	37 (940)	51 (1295)	3.36 (1.53)	
3½	SW	35F-SW-31	3.80 (96)	3.7 (93)	37 (940)	51 (1295)	4.20 (1.97)	
4	SW	40F-SW-31	4.30 (109)	4.2 (106)	37 (940)	51 (1295)	4.83 (2.19)	
4	HW	40F-HW-31	4.39 (111)	4.2 (107)	37 (940)	51 (1295)	6.44 (2.92)	
4½	SW	45F-SW-31	4.80 (122)	4.7 (118)	37 (940)	51 (1295)	5.25 (2.38)	
4½	HW	45F-HW-31	4.89 (124)	4.7 (119)	37 (940)	51 (1295)	7.28 (3.31)	
5	MW	50F-MW-31	5.39 (137)	5.2 (132)	37 (940)	51 (1295)	7.91 (3.59)	
5	HW	50F-HW-31	5.42 (138)	5.2 (133)	37 (940)	51 (1295)	9.24 (4.20)	
6	MW	60F-MW-31	6.39 (162)	6.2 (157)	37 (940)	51 (1295)	9.45 (4.29)	
6	HW	60F-HW-31	6.42 (163)	6.2 (158)	37 (940)	51 (1295)	11.06 (5.02)	

Nominal Size	Type	Item No.	A	B	L - Min	L - Max	Weight lbs	kg
¾	XW	07E-XW-31	1.94 (54)	1.410 (36)	37 (940)	51 (1295)	4.27 (1.94)	
1	XW	10E-XW-31	2.20 (61)	1.675 (43)	37 (940)	51 (1295)	4.76 (2.16)	
1¼	XW	12E-XW-31	2.55 (65)	2.020 (51)	37 (940)	51 (1295)	5.74 (2.60)	
1½	XW	15E-XW-31	2.79 (71)	2.260 (57)	37 (940)	51 (1295)	8.26 (3.75)	
2	XW	20F-XW-31	3.00 (76)	2.500 (64)	37 (940)	51 (1295)	8.82 (4.00)	
2½	XW	25F-XW-31	3.53 (90)	3.000 (76)	37 (940)	51 (1295)	10.78 (4.89)	
3	XW	30F-XW-31	4.00 (102)	3.500 (89)	37 (940)	51 (1295)	12.74 (5.78)	
3½	XW	35F-XW-31	4.53 (115)	4.000 (102)	37 (940)	51 (1295)	14.70 (6.67)	
4	XW	40F-XW-31	5.00 (127)	4.500 (114)	37 (940)	51 (1295)	16.66 (7.56)	
5	XW	50F-XW-31	6.00 (152)	5.500 (140)	37 (940)	51 (1295)	20.58 (9.34)	
6	XW	60F-XW-31	7.00 (178)	6.500 (165)	37 (940)	51 (1295)	24.50 (11.12)	