

**INSTRUCTIONS**

**STEP 1** Find the page that corresponds to the gas name and Semi # required (CTRL + F to search for a gas)

**STEP 2** Find the corresponding inlet and outlet pressure required

**STEP 3** The correct bin # is where the required FS flow rate (sccm) is in between the Min FS and the Max FS

**STEP 4** If a bin is unavailable at certain conditions, Min FS and Max FS values will not be shown.

Gas (Semi#)	Inlet Pressure	Inlet Pressure	Inlet Pressure	Inlet Pressure																																																																																																																		
Outlet Pressure	<table border="1"> <thead> <tr><th>Bin</th><th>Min FS</th><th>Max FS</th></tr> </thead> <tbody> <tr><td>40</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>41</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>42</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>43</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>44</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>45</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>46</td><td>SCCM</td><td>SCCM</td></tr> </tbody> </table>	Bin	Min FS	Max FS	40	SCCM	SCCM	41	SCCM	SCCM	42	SCCM	SCCM	43	SCCM	SCCM	44	SCCM	SCCM	45	SCCM	SCCM	46	SCCM	SCCM	<table border="1"> <thead> <tr><th>Bin</th><th>Min FS</th><th>Max FS</th></tr> </thead> <tbody> <tr><td>40</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>41</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>42</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>43</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>44</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>45</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>46</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>47</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>48</td><td>SCCM</td><td>SCCM</td></tr> </tbody> </table>	Bin	Min FS	Max FS	40	SCCM	SCCM	41	SCCM	SCCM	42	SCCM	SCCM	43	SCCM	SCCM	44	SCCM	SCCM	45	SCCM	SCCM	46	SCCM	SCCM	47	SCCM	SCCM	48	SCCM	SCCM	<table border="1"> <thead> <tr><th>Bin</th><th>Min FS</th><th>Max FS</th></tr> </thead> <tbody> <tr><td>40</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>41</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>42</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>43</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>44</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>45</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>46</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>47</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>48</td><td>SCCM</td><td>SCCM</td></tr> </tbody> </table>	Bin	Min FS	Max FS	40	SCCM	SCCM	41	SCCM	SCCM	42	SCCM	SCCM	43	SCCM	SCCM	44	SCCM	SCCM	45	SCCM	SCCM	46	SCCM	SCCM	47	SCCM	SCCM	48	SCCM	SCCM	<table border="1"> <thead> <tr><th>Bin</th><th>Min FS</th><th>Max FS</th></tr> </thead> <tbody> <tr><td>40</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>41</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>42</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>43</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>44</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>45</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>46</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>47</td><td>SCCM</td><td>SCCM</td></tr> <tr><td>48</td><td>SCCM</td><td>SCCM</td></tr> </tbody> </table>	Bin	Min FS	Max FS	40	SCCM	SCCM	41	SCCM	SCCM	42	SCCM	SCCM	43	SCCM	SCCM	44	SCCM	SCCM	45	SCCM	SCCM	46	SCCM	SCCM	47	SCCM	SCCM	48	SCCM	SCCM
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**He (1)**

**15-30 psia**

**25-40 psia**

**35-50 psia**

**45-60 psia**

**Vacuum**

Bin	Min FS	Max FS
CT-40	1.3	3.7
CT-41	3.7	12.1
CT-42	12.1	38.7
CT-43	38.7	127.0
CT-44	127.0	436.0
CT-45	436.0	1383.4
CT-46	1383.4	4301.0
CT-47	4301.1	10880.1
CT-48	10880.1	17719.3

Bin	Min FS	Max FS
CT-40	2.1	6.3
CT-41	6.4	20.6
CT-42	20.6	65.6
CT-43	65.6	215.6
CT-44	215.6	738.5
CT-45	738.5	2345.3
CT-46	2345.3	7289.4
CT-47	7289.4	18460.0
CT-48	18460.0	29922.7

Bin	Min FS	Max FS
CT-40	3.0	9.0
CT-41	9.0	29.0
CT-42	29.0	92.4
CT-43	92.4	304.2
CT-44	304.2	1041.0
CT-45	1041.0	3307.3
CT-46	3307.3	10278.2
CT-47	10278.2	26042.3
CT-48	26042.3	42128.8

Bin	Min FS	Max FS
CT-40	3.9	11.6
CT-41	11.6	37.4
CT-42	37.5	119.3
CT-43	119.3	392.8
CT-44	392.8	1343.6
CT-45	1343.7	4269.4
CT-46	4269.4	13267.7
CT-47	13267.7	33625.3
CT-48	33625.3	54336.4

**Atmosphere**

Bin	Min FS	Max FS
CT-40	2.1	6.3
CT-41	6.4	20.6
CT-42	20.6	65.6
CT-43	65.6	215.5
CT-44	215.5	738.1
CT-45	738.1	2345.3
CT-46	2345.3	7289.4
CT-47	7289.4	18460.0
CT-48	18460.0	29922.7

Bin	Min FS	Max FS
CT-40	3.0	9.0
CT-41	9.0	29.0
CT-42	29.0	92.4
CT-43	92.4	304.2
CT-44	304.2	1041.0
CT-45	1041.0	3307.3
CT-46	3307.3	10278.2
CT-47	10278.2	26042.3
CT-48	26042.3	42128.8

Bin	Min FS	Max FS
CT-40	3.9	11.6
CT-41	11.6	37.4
CT-42	37.5	119.3
CT-43	119.3	392.8
CT-44	392.8	1343.6
CT-45	1343.7	4269.4
CT-46	4269.4	13267.7
CT-47	13267.7	33625.3
CT-48	33625.3	54336.4

**1200 Torr**

Bin	Min FS	Max FS
CT-40	3.0	9.0
CT-41	9.0	29.0
CT-42	29.0	92.4
CT-43	92.4	303.7
CT-44	303.7	1037.3
CT-45	1037.3	3307.3
CT-46	3307.3	10278.2
CT-47	10278.2	26042.3
CT-48	26042.3	42099.0

Bin	Min FS	Max FS
CT-40	3.9	11.6
CT-41	11.6	37.4
CT-42	37.5	119.3
CT-43	119.3	392.8
CT-44	392.8	1343.6
CT-45	1343.7	4269.4
CT-46	4269.4	13267.7
CT-47	13267.7	33625.3
CT-48	33625.3	54336.4

Ar (4)

15-30 psia

25-40 psia

35-50 psia

45-60 psia

Vacuum

Bin	Min FS	Max FS
CT-40	1.1	3.3
CT-41	3.3	10.1
CT-42	10.1	32.7
CT-43	32.7	99.1
CT-44	99.1	340.2
CT-45	340.2	1011.6
CT-46	1011.6	3379.3
CT-47	3379.3	8543.9
CT-48	8544.0	14866.6

Bin	Min FS	Max FS
CT-40	1.8	5.5
CT-41	5.6	17.1
CT-42	17.1	55.3
CT-43	55.3	167.5
CT-44	167.5	576.7
CT-45	576.7	1700.4
CT-46	1700.4	5697.6
CT-47	5697.6	14497.0
CT-48	14497.0	25117.6

Bin	Min FS	Max FS
CT-40	2.6	7.8
CT-41	7.8	24.2
CT-42	24.2	78.0
CT-43	78.0	235.9
CT-44	235.9	813.3
CT-45	813.3	2388.7
CT-46	2388.7	8015.5
CT-47	8015.5	20454.9
CT-48	20454.9	35370.1

Bin	Min FS	Max FS
CT-40	3.4	10.1
CT-41	10.1	31.2
CT-42	31.2	100.7
CT-43	100.7	304.3
CT-44	304.3	1050.0
CT-45	1050.0	3076.9
CT-46	3076.9	10333.2
CT-47	10333.2	26231.5
CT-48	26231.5	45622.2

Atmosphere

Bin	Min FS	Max FS
CT-40	1.8	5.5
CT-41	5.6	17.1
CT-42	17.1	55.3
CT-43	55.3	167.5
CT-44	167.5	575.4
CT-45	575.4	1700.4
CT-46	1700.4	5697.6
CT-47	5697.6	14068.5
CT-48	14068.5	25117.6

Bin	Min FS	Max FS
CT-40	2.6	7.8
CT-41	7.8	24.2
CT-42	24.2	78.0
CT-43	78.0	235.9
CT-44	235.9	813.3
CT-45	813.3	2388.7
CT-46	2388.7	8015.5
CT-47	8015.5	20454.9
CT-48	20454.9	35370.1

Bin	Min FS	Max FS
CT-40	3.4	10.1
CT-41	10.1	31.2
CT-42	31.2	100.7
CT-43	100.7	304.3
CT-44	304.3	1050.0
CT-45	1050.0	3076.9
CT-46	3076.9	10333.2
CT-47	10333.2	26231.5
CT-48	26231.5	45622.2

1200 Torr

Bin	Min FS	Max FS
CT-40	2.6	7.8
CT-41	7.8	24.2
CT-42	24.2	78.0
CT-43	78.0	236.2
CT-44	236.2	810.4
CT-45	810.4	2398.6
CT-46	2398.6	8016.2
CT-47	8016.2	18764.6
CT-48	18764.6	35370.1

Bin	Min FS	Max FS
CT-40	3.4	10.1
CT-41	10.1	31.2
CT-42	31.2	100.7
CT-43	100.7	304.3
CT-44	304.3	1049.4
CT-45	1049.4	3076.9
CT-46	3076.9	10333.2
CT-47	10333.2	26231.5
CT-48	26231.5	45622.2

**H2 (7)**

**15-30 psia**

**25-40 psia**

**35-50 psia**

**45-60 psia**

**Vacuum**

Bin	Min FS	Max FS
CT-40	2.8	8.3
CT-41	8.3	26.8
CT-42	26.8	86.2
CT-43	86.2	275.8
CT-44	275.8	926.4
CT-45	926.4	2972.6
CT-46	2972.6	9121.9
CT-47	9121.9	23524.2
CT-48	23524.3	39114.7

Bin	Min FS	Max FS
CT-40	4.7	14.1
CT-41	14.1	45.5
CT-42	45.5	145.9
CT-43	145.9	466.9
CT-44	467.0	1569.6
CT-45	1569.6	5043.1
CT-46	5043.1	15453.2
CT-47	15453.3	39872.6
CT-48	39872.6	66102.1

Bin	Min FS	Max FS
CT-40	6.7	20.0
CT-41	20.0	64.1
CT-42	64.1	205.6
CT-43	205.6	658.2
CT-44	658.2	2213.0
CT-45	2213.0	7114.6
CT-46	7114.6	21784.1
CT-47	21784.1	56221.1
CT-48	56221.1	93096.9

Bin	Min FS	Max FS
CT-40	8.6	25.8
CT-41	25.8	82.7
CT-42	82.7	265.3
CT-43	265.4	849.4
CT-44	849.4	2856.3
CT-45	2856.3	9186.5
CT-46	9186.5	28115.0
CT-47	28115.0	72569.6
CT-48	72569.6	120088.5

**Atmosphere**

Bin	Min FS	Max FS
CT-40	4.7	14.1
CT-41	14.1	45.5
CT-42	45.5	145.8
CT-43	145.8	466.9
CT-44	467.0	1569.6
CT-45	1569.6	5037.9
CT-46	5037.9	15453.2
CT-47	15453.3	39872.6
CT-48	39872.6	66102.1

Bin	Min FS	Max FS
CT-40	6.7	20.0
CT-41	20.0	64.1
CT-42	64.1	205.6
CT-43	205.6	658.2
CT-44	658.2	2213.0
CT-45	2213.0	7114.6
CT-46	7114.6	21784.1
CT-47	21784.1	56221.1
CT-48	56221.1	93096.9

Bin	Min FS	Max FS
CT-40	8.6	25.8
CT-41	25.8	82.7
CT-42	82.7	265.3
CT-43	265.4	849.4
CT-44	849.4	2856.3
CT-45	2856.3	9186.5
CT-46	9186.5	28115.0
CT-47	28115.0	72569.6
CT-48	72569.6	120088.5

**1200 Torr**

Bin	Min FS	Max FS
CT-40	6.7	20.0
CT-41	20.0	64.1
CT-42	64.1	205.1
CT-43	205.1	658.2
CT-44	658.2	2213.0
CT-45	2213.0	7078.2
CT-46	7078.2	21784.1
CT-47	21784.1	56221.1
CT-48	56221.1	93096.9

Bin	Min FS	Max FS
CT-40	8.6	25.8
CT-41	25.8	82.7
CT-42	82.7	265.3
CT-43	265.4	849.4
CT-44	849.4	2856.3
CT-45	2856.3	9186.5
CT-46	9186.5	28115.0
CT-47	28115.0	72569.6
CT-48	72569.6	120088.5

**CO (9)**

**15-30 psia**

**25-40 psia**

**35-50 psia**

**45-60 psia**

Vacuum

Bin	Min FS	Max FS
CT-40	1.4	4.2
CT-41	4.2	12.8
CT-42	12.8	42.1
CT-43	42.1	124.9
CT-44	124.9	422.5
CT-45	422.5	1282.4
CT-46	1282.4	4211.0
CT-47	4211.0	10555.4
CT-48	10555.4	19057.5

Bin	Min FS	Max FS
CT-40	2.4	7.2
CT-41	7.2	21.7
CT-42	21.7	71.1
CT-43	71.1	210.5
CT-44	210.5	713.6
CT-45	713.7	2151.9
CT-46	2151.9	7133.7
CT-47	7133.7	17834.6
CT-48	17834.6	32182.8

Bin	Min FS	Max FS
CT-40	3.4	10.1
CT-41	10.1	30.6
CT-42	30.6	100.2
CT-43	100.3	296.2
CT-44	296.2	1004.7
CT-45	1004.7	3020.6
CT-46	3020.6	10058.4
CT-47	10058.4	25113.2
CT-48	25113.2	45306.9

Bin	Min FS	Max FS
CT-40	4.3	13.0
CT-41	13.0	39.5
CT-42	39.5	129.3
CT-43	129.4	381.8
CT-44	381.8	1295.8
CT-45	1295.9	3889.1
CT-46	3889.1	12983.4
CT-47	12983.4	29090.8
CT-48	29090.8	58087.3

Atmosphere

Bin	Min FS	Max FS
CT-40	2.4	7.2
CT-41	7.2	21.7
CT-42	21.7	71.1
CT-43	71.1	210.5
CT-44	210.5	713.6
CT-45	713.7	2114.3
CT-46	2114.3	7133.7
CT-47	7133.7	16597.2
CT-48	16597.2	31912.9

Bin	Min FS	Max FS
CT-40	3.4	10.1
CT-41	10.1	30.6
CT-42	30.6	100.2
CT-43	100.3	296.2
CT-44	296.2	1004.7
CT-45	1004.7	3020.6
CT-46	3020.6	10058.4
CT-47	10058.4	25113.2
CT-48	25113.2	45306.9

Bin	Min FS	Max FS
CT-40	4.3	13.0
CT-41	13.0	39.5
CT-42	39.5	129.3
CT-43	129.4	381.8
CT-44	381.8	1295.8
CT-45	1295.9	3889.1
CT-46	3889.1	12983.4
CT-47	12983.4	29090.8
CT-48	29090.8	58087.3

1200 Torr

Bin	Min FS	Max FS
CT-40	3.4	10.1
CT-41	10.1	30.6
CT-42	30.6	100.2
CT-43	100.3	296.2
CT-44	296.3	1005.9
CT-45	1005.9	2845.3
CT-46	2845.3	9894.7
CT-47	9894.7	22174.6
CT-48	22174.6	43207.9

Bin	Min FS	Max FS
CT-40	4.3	13.0
CT-41	13.0	39.5
CT-42	39.5	129.3
CT-43	129.4	381.8
CT-44	381.8	1295.8
CT-45	1295.9	3889.1
CT-46	3889.1	12983.4
CT-47	12983.4	29090.8
CT-48	29090.8	58087.3

HBr (10)

15-30 psia

25-40 psia

35-50 psia

45-60 psia

Vacuum

Bin	Min FS	Max FS
CT-40	1.3	3.8
CT-41	3.8	11.2
CT-42	11.2	36.8
CT-43	36.8	87.2
CT-44	87.2	295.2
CT-45	295.2	790.5
CT-46	790.5	2820.5
CT-47	2820.5	6431.2
CT-48	6431.2	11604.4

Bin	Min FS	Max FS
CT-40	2.2	6.5
CT-41	6.5	18.9
CT-42	18.9	62.3
CT-43	62.3	146.3
CT-44	146.3	492.0
CT-45	492.0	1317.5
CT-46	1317.5	4700.8
CT-47	4700.8	10941.4
CT-48	10941.4	19753.7

Bin	Min FS	Max FS
CT-40	3.0	9.1
CT-41	9.1	26.5
CT-42	26.5	87.7
CT-43	87.7	204.9
CT-44	205.0	688.9
CT-45	688.9	1844.5
CT-46	1844.5	6581.1
CT-47	6581.1	11072.2
CT-48	11072.2	22108.4

Bin	Min FS	Max FS
CT-40	3.9	11.8
CT-41	11.8	34.2
CT-42	34.2	113.2
CT-43	113.2	263.5
CT-44	263.5	885.7
CT-45	885.7	2371.5
CT-46	2371.5	8461.4

Atmosphere

Bin	Min FS	Max FS
CT-40	2.2	6.5
CT-41	6.5	18.9
CT-42	18.9	62.3
CT-43	62.3	134.4
CT-44	134.4	458.9
CT-45	458.9	1268.0
CT-46	1268.0	4438.0
CT-47	4438.0	10024.0
CT-48	10024.0	19238.0

Bin	Min FS	Max FS
CT-40	3.0	9.1
CT-41	9.1	26.5
CT-42	26.5	87.7
CT-43	87.7	203.1
CT-44	203.1	687.1
CT-45	687.1	1844.5
CT-46	1844.5	6579.7
CT-47	6579.7	11072.2
CT-48	11072.2	22108.4

Bin	Min FS	Max FS
CT-40	3.9	11.8
CT-41	11.8	34.2
CT-42	34.2	113.2
CT-43	113.2	263.5
CT-44	263.5	885.7
CT-45	885.7	2371.5
CT-46	2371.5	8461.4

1200 Torr

Bin	Min FS	Max FS
CT-40	3.0	9.1
CT-41	9.1	26.5
CT-42	26.5	87.7
CT-43	87.7	179.5
CT-44	179.5	614.0
CT-45	614.0	1703.8
CT-46	1703.8	5946.7
CT-47	5946.7	11072.2
CT-48	11072.2	22108.4

Bin	Min FS	Max FS
CT-40	3.9	11.8
CT-41	11.8	34.2
CT-42	34.2	113.2
CT-43	113.2	255.5
CT-44	255.5	868.5
CT-45	868.5	2361.7
CT-46	2361.7	8357.0

**HCl (11)**

**15-30 psia**

**25-40 psia**

**35-50 psia**

**45-60 psia**

**Vacuum**

Bin	Min FS	Max FS
CT-40	1.6	4.9
CT-41	4.9	14.6
CT-42	14.6	48.8
CT-43	48.8	129.1
CT-44	129.1	438.4
CT-45	438.4	1175.6
CT-46	1175.6	4194.3
CT-47	4194.4	9490.6
CT-48	9490.6	17119.1

Bin	Min FS	Max FS
CT-40	2.8	8.4
CT-41	8.4	24.6
CT-42	24.6	82.6
CT-43	82.7	217.4
CT-44	217.4	731.7
CT-45	731.7	1959.3
CT-46	1959.3	6990.6
CT-47	6990.6	16202.8
CT-48	16202.8	29236.9

Bin	Min FS	Max FS
CT-40	3.9	11.8
CT-41	11.8	34.6
CT-42	34.6	116.5
CT-43	116.5	304.8
CT-44	304.8	1024.4
CT-45	1024.4	2743.0
CT-46	2743.0	9786.8
CT-47	9786.8	19087.4
CT-48	19087.5	38113.0

Bin	Min FS	Max FS
CT-40	5.1	15.2
CT-41	15.2	44.7
CT-42	44.7	150.4
CT-43	150.4	391.9
CT-44	391.9	1317.1
CT-45	1317.1	3526.7
CT-46	3526.7	12583.0
CT-47	12583.1	19087.4
CT-48	19087.5	38113.0

**Atmosphere**

Bin	Min FS	Max FS
CT-40	2.8	8.4
CT-41	8.4	24.6
CT-42	24.6	82.4
CT-43	82.4	198.7
CT-44	198.7	678.4
CT-45	678.4	1878.4
CT-46	1878.4	6564.8
CT-47	6564.8	14818.8
CT-48	14818.8	28451.6

Bin	Min FS	Max FS
CT-40	3.9	11.8
CT-41	11.8	34.6
CT-42	34.6	116.5
CT-43	116.5	301.6
CT-44	301.6	1020.8
CT-45	1020.8	2743.0
CT-46	2743.0	9781.1
CT-47	9781.1	19087.4
CT-48	19087.5	38113.0

Bin	Min FS	Max FS
CT-40	5.1	15.2
CT-41	15.2	44.7
CT-42	44.7	150.4
CT-43	150.4	391.8
CT-44	391.8	1317.1
CT-45	1317.1	3526.7
CT-46	3526.7	12583.0
CT-47	12583.1	19087.4
CT-48	19087.5	38113.0

**1200 Torr**

Bin	Min FS	Max FS
CT-40	3.9	11.8
CT-41	11.8	34.6
CT-42	34.6	115.7
CT-43	115.7	265.6
CT-44	265.6	908.6
CT-45	908.6	2524.8
CT-46	2524.8	8803.5
CT-47	8803.5	19087.4
CT-48	19087.5	38113.0

Bin	Min FS	Max FS
CT-40	5.1	15.2
CT-41	15.2	44.7
CT-42	44.7	150.3
CT-43	150.3	379.2
CT-44	379.2	1289.3
CT-45	1289.3	3509.5
CT-46	3509.5	12409.9
CT-47	12409.9	19087.4
CT-48	19087.5	38113.0

HF (12)

7 psia

9 psia

11 psia

13 psia

15 psia

Vacuum

Bin	Min FS	Max FS
CT-40	0.9	2.6
CT-41	2.6	7.8
CT-42	7.8	25.9
CT-43	25.9	75.3
CT-44	75.3	251.3
CT-45	251.3	739.0
CT-46	739.0	2458.1
CT-47	2458.1	5469.9
CT-48	5469.9	9948.8

Bin	Min FS	Max FS
CT-40	1.1	3.4
CT-41	3.4	10.2
CT-42	10.2	33.9
CT-43	33.9	98.3
CT-44	98.3	327.5
CT-45	327.5	961.4
CT-46	961.4	3206.9
CT-47	3206.9	7295.1
CT-48	7295.1	13225.4

Bin	Min FS	Max FS
CT-40	1.4	4.2
CT-41	4.2	12.6
CT-42	12.6	41.9
CT-43	41.9	121.1
CT-44	121.1	403.7
CT-45	403.7	1175.8
CT-46	1175.8	3955.3
CT-47	3955.3	9122.4
CT-48	9122.4	16512.4

Bin	Min FS	Max FS
CT-40	1.7	5.0
CT-41	5.0	15.0
CT-42	15.0	49.9
CT-43	49.9	143.8
CT-44	143.8	479.7
CT-45	479.7	1389.6
CT-46	1389.6	4703.4
CT-47	4703.4	10949.9
CT-48	10949.9	19805.1

Bin	Min FS	Max FS
CT-40	1.9	5.8
CT-41	5.8	17.4
CT-42	17.4	57.9
CT-43	57.9	166.6
CT-44	166.6	555.8
CT-45	555.8	1603.3
CT-46	1603.3	5451.3
CT-47	5451.3	12777.2
CT-48	12777.2	23101.1

17 psia

19 psia

21 psia

23 psia

25 psia

Vacuum

Bin	Min FS	Max FS
CT-40	2.2	6.7
CT-41	6.7	19.8
CT-42	19.8	65.8
CT-43	65.8	189.4
CT-44	189.4	631.8
CT-45	631.8	1817.1
CT-46	1817.1	6199.2
CT-47	6199.2	14604.1
CT-48	14604.1	26399.3

Bin	Min FS	Max FS
CT-40	2.5	7.5
CT-41	7.5	22.2
CT-42	22.2	73.8
CT-43	73.8	212.1
CT-44	212.1	707.8
CT-45	707.8	2030.9
CT-46	2030.9	6946.9
CT-47	6946.9	16430.6
CT-48	16430.6	29699.0

Bin	Min FS	Max FS
CT-40	2.8	8.3
CT-41	8.3	24.6
CT-42	24.6	81.8
CT-43	81.8	234.9
CT-44	234.9	783.8
CT-45	783.8	2244.7
CT-46	2244.7	7694.6
CT-47	7694.6	18256.6
CT-48	18256.6	32999.8

Bin	Min FS	Max FS
CT-40	3.0	9.1
CT-41	9.1	27.0
CT-42	27.0	89.8
CT-43	89.8	257.6
CT-44	257.6	859.7
CT-45	859.7	2458.4
CT-46	2458.4	8442.2
CT-47	8442.2	20082.4
CT-48	20082.4	36301.4

Bin	Min FS	Max FS
CT-40	3.3	9.9
CT-41	9.9	29.4
CT-42	29.4	97.8
CT-43	97.8	280.4
CT-44	280.4	935.7
CT-45	935.7	2672.2
CT-46	2672.2	9189.7
CT-47	9189.7	21907.8
CT-48	21907.8	39603.6



**N2 (13)**

**15-30 psia**

**25-40 psia**

**35-50 psia**

**45-60 psia**

**Vacuum**

Bin	Min FS	Max FS
CT-40	1.4	4.2
CT-41	4.2	12.7
CT-42	12.7	41.7
CT-43	41.7	124.0
CT-44	124.0	419.9
CT-45	419.9	1273.1
CT-46	1273.1	4189.5
CT-47	4189.6	10495.2
CT-48	10495.2	18894.0

Bin	Min FS	Max FS
CT-40	2.4	7.1
CT-41	7.1	21.6
CT-42	21.6	70.5
CT-43	70.5	209.1
CT-44	209.1	709.4
CT-45	709.5	2136.5
CT-46	2136.5	7099.9
CT-47	7099.9	17737.6
CT-48	17737.6	31906.8

Bin	Min FS	Max FS
CT-40	3.3	10.0
CT-41	10.0	30.0
CT-42	30.0	100.0
CT-43	100.0	300.0
CT-44	300.0	1000.0
CT-45	1000.0	3000.0
CT-46	3000.0	10000.0
CT-47	10000.0	25000.0
CT-48	25000.0	45000.0

Bin	Min FS	Max FS
CT-40	4.3	12.9
CT-41	12.9	39.2
CT-42	39.2	128.2
CT-43	128.2	379.2
CT-44	379.2	1288.5
CT-45	1288.5	3861.6
CT-46	3861.6	12925.5
CT-47	12925.5	29352.6
CT-48	29352.6	57934.2

**Atmosphere**

Bin	Min FS	Max FS
CT-40	2.4	7.1
CT-41	7.1	21.6
CT-42	21.6	70.5
CT-43	70.5	209.1
CT-44	209.1	709.4
CT-45	709.5	2113.2
CT-46	2113.2	7091.9
CT-47	7091.9	16585.4
CT-48	16585.4	31892.4

Bin	Min FS	Max FS
CT-40	3.3	10.0
CT-41	10.0	30.0
CT-42	30.0	100.0
CT-43	100.0	300.0
CT-44	300.0	1000.0
CT-45	1000.0	3000.0
CT-46	3000.0	10000.0
CT-47	10000.0	25000.0
CT-48	25000.0	45000.0

Bin	Min FS	Max FS
CT-40	4.3	12.9
CT-41	12.9	39.2
CT-42	39.2	128.2
CT-43	128.2	379.2
CT-44	379.2	1288.5
CT-45	1288.5	3861.6
CT-46	3861.6	12925.5
CT-47	12925.5	29352.6
CT-48	29352.6	57934.2

**1200 Torr**

Bin	Min FS	Max FS
CT-40	3.3	10.0
CT-41	10.0	30.0
CT-42	30.0	100.0
CT-43	100.0	300.0
CT-44	300.0	1000.0
CT-45	1000.0	3000.0
CT-46	3000.0	10000.0
CT-47	10000.0	22161.7
CT-48	22161.7	43184.7

Bin	Min FS	Max FS
CT-40	4.3	12.9
CT-41	12.9	39.2
CT-42	39.2	128.2
CT-43	128.2	379.2
CT-44	379.2	1288.5
CT-45	1288.5	3861.6
CT-46	3861.6	12925.5
CT-47	12925.5	29352.6
CT-48	29352.6	57934.2

O<sub>2</sub> (15)

15-30 psia

25-40 psia

35-50 psia

45-60 psia

Vacuum

Bin	Min FS	Max FS
CT-40	1.2	3.6
CT-41	3.6	11.1
CT-42	11.1	36.1
CT-43	36.1	109.2
CT-44	109.2	372.8
CT-45	372.8	1118.9
CT-46	1118.9	3751.0
CT-47	3751.0	9348.4
CT-48	9348.4	16404.9

Bin	Min FS	Max FS
CT-40	2.0	6.1
CT-41	6.1	18.8
CT-42	18.8	61.1
CT-43	61.1	184.4
CT-44	184.4	631.1
CT-45	631.1	1879.5
CT-46	1879.5	6330.1
CT-47	6330.1	15838.6
CT-48	15838.6	27714.5

Bin	Min FS	Max FS
CT-40	2.9	8.6
CT-41	8.6	26.6
CT-42	26.6	86.1
CT-43	86.1	259.5
CT-44	259.5	889.5
CT-45	889.5	2639.6
CT-46	2639.6	8904.9
CT-47	8904.9	22330.6
CT-48	22330.6	39025.1

Bin	Min FS	Max FS
CT-40	3.7	11.1
CT-41	11.1	34.3
CT-42	34.3	111.2
CT-43	111.2	334.7
CT-44	334.7	1147.9
CT-45	1147.9	3399.5
CT-46	3399.5	11480.2
CT-47	11480.2	28824.8
CT-48	28824.8	50335.8

Atmosphere

Bin	Min FS	Max FS
CT-40	2.0	6.1
CT-41	6.1	18.8
CT-42	18.8	61.1
CT-43	61.1	184.4
CT-44	184.4	631.1
CT-45	631.1	1879.5
CT-46	1879.5	6306.1
CT-47	6306.1	15420.6
CT-48	15420.6	27714.5

Bin	Min FS	Max FS
CT-40	2.9	8.6
CT-41	8.6	26.6
CT-42	26.6	86.1
CT-43	86.1	259.5
CT-44	259.5	889.5
CT-45	889.5	2639.6
CT-46	2639.6	8904.9
CT-47	8904.9	22330.6
CT-48	22330.6	39025.1

Bin	Min FS	Max FS
CT-40	3.7	11.1
CT-41	11.1	34.3
CT-42	34.3	111.2
CT-43	111.2	334.7
CT-44	334.7	1147.9
CT-45	1147.9	3399.5
CT-46	3399.5	11480.2
CT-47	11480.2	28824.8
CT-48	28824.8	50335.8

1200 Torr

Bin	Min FS	Max FS
CT-40	2.9	8.6
CT-41	8.6	26.6
CT-42	26.6	86.1
CT-43	86.1	259.6
CT-44	259.6	890.1
CT-45	890.1	2643.2
CT-46	2643.2	8839.4
CT-47	8839.4	20630.1
CT-48	20630.1	39025.1

Bin	Min FS	Max FS
CT-40	3.7	11.1
CT-41	11.1	34.3
CT-42	34.3	111.2
CT-43	111.2	334.7
CT-44	334.7	1147.9
CT-45	1147.9	3399.5
CT-46	3399.5	11480.2
CT-47	11480.2	28824.8
CT-48	28824.8	50335.8

Cl2 (19)

15-30 psia

25-40 psia

35-50 psia

45-60 psia

Vacuum

Bin	Min FS	Max FS
CT-40	1.8	5.4
CT-41	5.4	14.8
CT-42	14.8	50.0
CT-43	50.0	92.2
CT-44	92.2	310.0
CT-45	310.0	830.1
CT-46	830.1	2961.7

Bin	Min FS	Max FS
CT-40	3.0	9.1
CT-41	9.1	25.0
CT-42	25.0	84.2
CT-43	84.2	153.7
CT-44	153.7	516.7
CT-45	516.7	1383.5
CT-46	1383.5	4936.1

Bin	Min FS	Max FS
CT-40	4.3	12.9
CT-41	12.9	35.2
CT-42	35.2	118.5
CT-43	118.5	215.2
CT-44	215.2	723.3
CT-45	723.3	1936.9
CT-46	1936.9	6910.6

Bin	Min FS	Max FS
CT-40	5.5	16.6
CT-41	16.6	45.4
CT-42	45.4	152.7
CT-43	152.8	276.7
CT-44	276.7	930.0
CT-45	930.0	2490.3
CT-46	2490.3	8885.0

Atmosphere

Bin	Min FS	Max FS
CT-40	3.0	9.1
CT-41	9.1	25.0
CT-42	25.0	84.2
CT-43	84.2	143.9
CT-44	143.9	490.6
CT-45	490.6	1348.1
CT-46	1348.2	4736.7

Bin	Min FS	Max FS
CT-40	4.3	12.9
CT-41	12.9	35.2
CT-42	35.2	118.5
CT-43	118.5	214.5
CT-44	214.5	723.3
CT-45	723.3	1936.9
CT-46	1936.9	6910.6

Bin	Min FS	Max FS
CT-40	5.5	16.6
CT-41	16.6	45.4
CT-42	45.4	152.7
CT-43	152.8	276.7
CT-44	276.7	930.0
CT-45	930.0	2490.3
CT-46	2490.3	8885.0

1200 Torr

Bin	Min FS	Max FS
CT-40	4.3	12.9
CT-41	12.9	33.7
CT-42	33.7	118.5
CT-43	118.5	192.2
CT-44	192.2	656.8
CT-45	656.8	1815.5
CT-46	1815.5	6354.5

Bin	Min FS	Max FS
CT-40	5.5	16.6
CT-41	16.6	45.4
CT-42	45.4	152.7
CT-43	152.8	270.9
CT-44	270.9	919.1
CT-45	919.1	2487.3
CT-46	2487.3	8828.4

**CO2 (25)**

**15-30 psia**

**25-40 psia**

**35-50 psia**

**45-60 psia**

**Vacuum**

Bin	Min FS	Max FS
CT-40	1.6	4.9
CT-41	4.9	14.5
CT-42	14.5	47.8
CT-43	47.8	114.8
CT-44	114.8	387.4
CT-45	387.4	1037.2
CT-46	1037.2	3700.7
CT-47	3700.7	8511.4
CT-48	8511.4	15259.4

Bin	Min FS	Max FS
CT-40	2.8	8.3
CT-41	8.3	24.4
CT-42	24.4	80.8
CT-43	80.8	192.1
CT-44	192.1	645.6
CT-45	645.6	1728.7
CT-46	1728.7	6167.8
CT-47	6167.8	14481.4
CT-48	14481.4	25987.8

Bin	Min FS	Max FS
CT-40	3.9	11.7
CT-41	11.7	34.4
CT-42	34.4	113.8
CT-43	113.8	268.9
CT-44	268.9	903.8
CT-45	903.8	2420.2
CT-46	2420.2	8634.9
CT-47	8634.9	15814.4
CT-48	15814.4	31577.5

Bin	Min FS	Max FS
CT-40	5.0	15.1
CT-41	15.2	44.3
CT-42	44.3	146.8
CT-43	146.8	345.7
CT-44	345.7	1162.1
CT-45	1162.1	3111.6
CT-46	3111.6	11102.0
CT-47	11102.0	15814.4
CT-48	15814.4	31577.5

**Atmosphere**

Bin	Min FS	Max FS
CT-40	2.8	8.3
CT-41	8.3	24.4
CT-42	24.4	80.8
CT-43	80.8	179.0
CT-44	179.0	610.3
CT-45	610.3	1680.7
CT-46	1680.7	5895.5
CT-47	5895.5	13397.5
CT-48	13397.5	25523.1

Bin	Min FS	Max FS
CT-40	3.9	11.7
CT-41	11.7	34.4
CT-42	34.4	113.8
CT-43	113.8	267.9
CT-44	267.9	903.6
CT-45	903.6	2420.2
CT-46	2420.2	8634.9
CT-47	8634.9	15814.4
CT-48	15814.4	31577.5

Bin	Min FS	Max FS
CT-40	5.0	15.1
CT-41	15.2	44.3
CT-42	44.3	146.8
CT-43	146.8	345.7
CT-44	345.7	1162.1
CT-45	1162.1	3111.6
CT-46	3111.6	11102.0
CT-47	11102.0	15814.4
CT-48	15814.4	31577.5

**1200 Torr**

Bin	Min FS	Max FS
CT-40	3.9	11.7
CT-41	11.7	34.4
CT-42	34.4	113.8
CT-43	113.8	239.8
CT-44	239.8	819.2
CT-45	819.2	2267.4
CT-46	2267.4	7927.4
CT-47	7927.4	15814.4
CT-48	15814.4	31577.5

Bin	Min FS	Max FS
CT-40	5.0	15.1
CT-41	15.2	44.3
CT-42	44.3	146.8
CT-43	146.8	338.7
CT-44	338.7	1148.7
CT-45	1148.7	3108.5
CT-46	3108.5	11033.3
CT-47	11033.3	15814.4
CT-48	15814.4	31577.5

**N2O (27)**

**15-30 psia**

**25-40 psia**

**35-50 psia**

**45-60 psia**

**Vacuum**

Bin	Min FS	Max FS
CT-40	1.6	4.9
CT-41	4.9	14.6
CT-42	14.6	47.9
CT-43	47.9	114.5
CT-44	114.5	386.0
CT-45	386.0	1033.5
CT-46	1033.5	3687.6
CT-47	3687.6	8493.6
CT-48	8493.6	15217.3

Bin	Min FS	Max FS
CT-40	2.8	8.4
CT-41	8.4	24.6
CT-42	24.6	81.1
CT-43	81.1	191.4
CT-44	191.4	643.3
CT-45	643.3	1722.6
CT-46	1722.6	6146.0
CT-47	6146.0	14447.8
CT-48	14447.8	25911.7

Bin	Min FS	Max FS
CT-40	3.9	11.8
CT-41	11.8	34.6
CT-42	34.6	114.2
CT-43	114.2	268.0
CT-44	268.0	900.6
CT-45	900.6	2411.6
CT-46	2411.6	8604.3
CT-47	8604.3	15736.6
CT-48	15736.6	31422.2

Bin	Min FS	Max FS
CT-40	5.1	15.2
CT-41	15.2	44.5
CT-42	44.6	147.3
CT-43	147.3	344.5
CT-44	344.5	1157.9
CT-45	1158.0	3100.6
CT-46	3100.6	11062.7
CT-47	11062.7	15736.6
CT-48	15736.6	31422.2

**Atmosphere**

Bin	Min FS	Max FS
CT-40	2.8	8.4
CT-41	8.4	24.6
CT-42	24.6	81.1
CT-43	81.1	178.8
CT-44	178.8	609.3
CT-45	609.3	1676.9
CT-46	1676.9	5884.2
CT-47	5884.2	13382.0
CT-48	13382.1	25471.1

Bin	Min FS	Max FS
CT-40	3.9	11.8
CT-41	11.8	34.6
CT-42	34.6	114.2
CT-43	114.2	267.1
CT-44	267.1	900.5
CT-45	900.5	2411.6
CT-46	2411.6	8604.3
CT-47	8604.3	15736.6
CT-48	15736.6	31422.2

Bin	Min FS	Max FS
CT-40	5.1	15.2
CT-41	15.2	44.5
CT-42	44.6	147.3
CT-43	147.3	344.5
CT-44	344.5	1157.9
CT-45	1158.0	3100.6
CT-46	3100.6	11062.7
CT-47	11062.7	15736.6
CT-48	15736.6	31422.2

**1200 Torr**

Bin	Min FS	Max FS
CT-40	3.9	11.8
CT-41	11.8	34.6
CT-42	34.6	114.2
CT-43	114.2	239.5
CT-44	239.5	818.1
CT-45	818.1	2263.3
CT-46	2263.3	7915.0
CT-47	7915.0	15736.6
CT-48	15736.6	31422.2

Bin	Min FS	Max FS
CT-40	5.1	15.2
CT-41	15.2	44.5
CT-42	44.6	147.3
CT-43	147.3	337.9
CT-44	337.9	1145.7
CT-45	1145.7	3098.2
CT-46	3098.2	11001.2
CT-47	11001.2	15736.6
CT-48	15736.6	31422.2

**CH4 (28)**

**15-30 psia**

**25-40 psia**

**35-50 psia**

**45-60 psia**

**Vacuum**

Bin	Min FS	Max FS
CT-40	2.2	6.7
CT-41	6.7	19.9
CT-42	19.9	66.6
CT-43	66.6	189.5
CT-44	189.5	631.3
CT-45	631.3	1722.2
CT-46	1722.2	6141.9
CT-47	6141.9	13951.7
CT-48	13951.7	25022.8

Bin	Min FS	Max FS
CT-40	3.8	11.4
CT-41	11.4	33.7
CT-42	33.7	112.5
CT-43	112.5	318.8
CT-44	318.8	1061.2
CT-45	1061.2	2870.3
CT-46	2870.3	10241.1
CT-47	10241.1	23863.3
CT-48	23863.3	42824.2

Bin	Min FS	Max FS
CT-40	5.3	16.0
CT-41	16.0	47.5
CT-42	47.5	158.4
CT-43	158.4	446.5
CT-44	446.5	1490.9
CT-45	1490.9	4018.5
CT-46	4018.5	14337.5
CT-47	14337.5	32051.2
CT-48	32051.2	60638.8

Bin	Min FS	Max FS
CT-40	6.9	20.6
CT-41	20.6	61.2
CT-42	61.2	204.3
CT-43	204.3	574.1
CT-44	574.1	1920.4
CT-45	1920.4	5166.6
CT-46	5166.6	18433.9
CT-47	18434.0	32051.2
CT-48	32051.2	63998.5

**Atmosphere**

Bin	Min FS	Max FS
CT-40	3.8	11.4
CT-41	11.4	33.7
CT-42	33.7	112.5
CT-43	112.5	294.0
CT-44	294.0	1002.8
CT-45	1002.8	2771.4
CT-46	2771.5	9696.8
CT-47	9696.8	21986.3
CT-48	21986.3	41962.5

Bin	Min FS	Max FS
CT-40	5.3	16.0
CT-41	16.0	47.5
CT-42	47.5	158.4
CT-43	158.4	443.7
CT-44	443.7	1490.9
CT-45	1490.9	4018.5
CT-46	4018.5	14337.5
CT-47	14337.5	32051.2
CT-48	32051.2	60638.8

Bin	Min FS	Max FS
CT-40	6.9	20.6
CT-41	20.6	61.2
CT-42	61.2	204.3
CT-43	204.3	574.1
CT-44	574.1	1920.4
CT-45	1920.4	5166.6
CT-46	5166.6	18433.9
CT-47	18434.0	32051.2
CT-48	32051.2	63998.5

**1200 Torr**

Bin	Min FS	Max FS
CT-40	5.3	16.0
CT-41	16.0	47.5
CT-42	47.5	158.4
CT-43	158.4	394.2
CT-44	394.2	1347.1
CT-45	1347.1	3737.8
CT-46	3737.8	13044.4
CT-47	13044.4	29354.4
CT-48	29354.4	56918.2

Bin	Min FS	Max FS
CT-40	6.9	20.6
CT-41	20.6	61.2
CT-42	61.2	204.3
CT-43	204.3	560.0
CT-44	560.0	1900.9
CT-45	1900.9	5155.8
CT-46	5155.8	18272.7
CT-47	18272.7	32051.2
CT-48	32051.2	63998.5

**NH3 (29)**

**15-30 psia**

**25-40 psia**

**35-50 psia**

**45-60 psia**

**Vacuum**

Bin	Min FS	Max FS
CT-40	2.4	7.2
CT-41	7.2	21.4
CT-42	21.4	71.2
CT-43	71.2	185.4
CT-44	185.4	627.7
CT-45	627.7	1680.9
CT-46	1680.9	5997.2
CT-47	5997.2	13682.9
CT-48	13682.9	24567.7

Bin	Min FS	Max FS
CT-40	4.1	12.2
CT-41	12.2	36.1
CT-42	36.1	120.6
CT-43	120.6	311.2
CT-44	311.3	1046.2
CT-45	1046.2	2801.5
CT-46	2801.5	9995.3
CT-47	9995.3	23339.7
CT-48	23339.7	41936.4

Bin	Min FS	Max FS
CT-40	5.7	17.2
CT-41	17.2	50.8
CT-42	50.8	170.0
CT-43	170.0	435.8
CT-44	435.8	1464.7
CT-45	1464.7	3922.0
CT-46	3922.1	13993.5
CT-47	13993.5	27913.6
CT-48	27913.6	55736.6

Bin	Min FS	Max FS
CT-40	7.4	22.2
CT-41	22.2	65.5
CT-42	65.5	219.4
CT-43	219.4	560.3
CT-44	560.3	1883.2
CT-45	1883.2	5042.6
CT-46	5042.6	17991.6
CT-47	17991.6	27913.6
CT-48	27913.6	55736.6

**Atmosphere**

Bin	Min FS	Max FS
CT-40	4.1	12.2
CT-41	12.2	36.1
CT-42	36.1	120.4
CT-43	120.4	287.7
CT-44	287.7	981.3
CT-45	981.3	2709.1
CT-46	2709.1	9486.5
CT-47	9486.5	21506.2
CT-48	21506.2	41072.4

Bin	Min FS	Max FS
CT-40	5.7	17.2
CT-41	17.2	50.8
CT-42	50.8	170.0
CT-43	170.0	433.2
CT-44	433.2	1463.2
CT-45	1463.2	3922.0
CT-46	3922.1	13993.5
CT-47	13993.5	27913.6
CT-48	27913.6	55736.6

Bin	Min FS	Max FS
CT-40	7.4	22.2
CT-41	22.2	65.5
CT-42	65.5	219.4
CT-43	219.4	560.3
CT-44	560.3	1883.2
CT-45	1883.2	5042.6
CT-46	5042.6	17991.6
CT-47	17991.6	27913.6
CT-48	27913.6	55736.6

**1200 Torr**

Bin	Min FS	Max FS
CT-40	5.7	17.2
CT-41	17.2	50.8
CT-42	50.8	169.2
CT-43	169.2	385.3
CT-44	385.3	1316.8
CT-45	1316.8	3651.1
CT-46	3651.1	12749.1
CT-47	12749.1	27913.6
CT-48	27913.6	55620.3

Bin	Min FS	Max FS
CT-40	7.4	22.2
CT-41	22.2	65.5
CT-42	65.5	219.4
CT-43	219.4	546.6
CT-44	546.6	1855.6
CT-45	1855.6	5032.2
CT-46	5032.2	17836.9
CT-47	17836.9	27913.6
CT-48	27913.6	55736.6

**SO<sub>2</sub> (32)**

Vacuum

Atmosphere

1200 Torr

**15-30 psia**

Bin	Min FS	Max FS
CT-40	1.9	5.8
CT-41	5.8	15.6
CT-42	15.6	53.1
CT-43	53.1	95.5
CT-44	95.5	321.1
CT-45	321.1	859.9
CT-46	859.9	3068.0

**25-40 psia**

Bin	Min FS	Max FS
CT-40	3.2	9.7
CT-41	9.7	26.3
CT-42	26.4	89.5
CT-43	89.5	159.2
CT-44	159.2	535.2
CT-45	535.2	1433.2
CT-46	1433.2	5113.4

Bin	Min FS	Max FS
CT-40	3.2	9.7
CT-41	9.7	26.2
CT-42	26.2	89.5
CT-43	89.5	150.2
CT-44	150.2	511.8
CT-45	511.8	1403.3
CT-46	1403.3	4937.3

**35-50 psia**

Bin	Min FS	Max FS
CT-40	4.6	13.7
CT-41	13.7	37.1
CT-42	37.1	125.9
CT-43	125.9	222.9
CT-44	222.9	749.3
CT-45	749.3	2006.4
CT-46	2006.4	7158.7

Bin	Min FS	Max FS
CT-40	4.6	13.7
CT-41	13.7	37.1
CT-42	37.1	125.9
CT-43	125.9	222.6
CT-44	222.6	749.3
CT-45	749.3	2006.4
CT-46	2006.4	7158.7

Bin	Min FS	Max FS
CT-40	4.6	13.7
CT-41	13.7	35.2
CT-42	35.2	125.9
CT-43	125.9	200.9
CT-44	200.9	686.3
CT-45	686.3	1894.0
CT-46	1894.0	6636.0

**45-60 psia**

Bin	Min FS	Max FS
CT-40	5.9	17.7
CT-41	17.7	47.8
CT-42	47.8	162.3
CT-43	162.3	286.6
CT-44	286.6	963.4
CT-45	963.4	2579.7
CT-46	2579.7	9204.1

Bin	Min FS	Max FS
CT-40	5.9	17.7
CT-41	17.7	47.8
CT-42	47.8	162.3
CT-43	162.3	286.6
CT-44	286.6	963.4
CT-45	963.4	2579.7
CT-46	2579.7	9204.1

Bin	Min FS	Max FS
CT-40	5.9	17.7
CT-41	17.7	47.8
CT-42	47.8	162.3
CT-43	162.3	281.9
CT-44	281.9	955.4
CT-45	955.4	2578.9
CT-46	2578.9	9168.0



**CH3F (33)**

**15-30 psia**

**25-40 psia**

**35-50 psia**

**45-60 psia**

**Vacuum**

Bin	Min FS	Max FS
CT-40	2.2	6.7
CT-41	6.7	19.5
CT-42	19.5	63.1
CT-43	63.1	131.0
CT-44	131.0	440.8
CT-45	440.8	1180.3
CT-46	1180.3	4211.3
CT-47	4211.3	9768.1
CT-48	9768.2	17519.4

Bin	Min FS	Max FS
CT-40	3.8	11.3
CT-41	11.3	32.8
CT-42	32.9	106.6
CT-43	106.6	218.6
CT-44	218.6	734.7
CT-45	734.7	1967.2
CT-46	1967.2	7018.9
CT-47	7018.9	15007.0
CT-48	15007.0	29730.6

Bin	Min FS	Max FS
CT-40	5.3	15.9
CT-41	15.9	46.2
CT-42	46.2	150.0
CT-43	150.0	306.0
CT-44	306.0	1028.5
CT-45	1028.6	2754.1
CT-46	2754.1	9826.5

Bin	Min FS	Max FS
CT-40	6.9	20.6
CT-41	20.6	59.5
CT-42	59.5	193.4
CT-43	193.4	393.4
CT-44	393.5	1322.4
CT-45	1322.4	3541.0
CT-46	3541.0	12634.0

**Atmosphere**

Bin	Min FS	Max FS
CT-40	3.8	11.3
CT-41	11.3	32.8
CT-42	32.8	106.6
CT-43	106.6	205.1
CT-44	205.1	698.9
CT-45	698.9	1920.2
CT-46	1920.2	6746.6
CT-47	6746.6	15007.0
CT-48	15007.0	29228.6

Bin	Min FS	Max FS
CT-40	5.3	15.9
CT-41	15.9	46.2
CT-42	46.2	150.0
CT-43	150.0	305.3
CT-44	305.3	1028.5
CT-45	1028.6	2754.1
CT-46	2754.1	9826.5

Bin	Min FS	Max FS
CT-40	6.9	20.6
CT-41	20.6	59.5
CT-42	59.5	193.4
CT-43	193.4	393.4
CT-44	393.5	1322.4
CT-45	1322.4	3541.0
CT-46	3541.0	12634.0

**1200 Torr**

Bin	Min FS	Max FS
CT-40	5.3	15.9
CT-41	15.9	46.0
CT-42	46.0	150.0
CT-43	150.0	274.4
CT-44	274.4	937.5
CT-45	937.5	2590.7
CT-46	2590.7	9068.4

Bin	Min FS	Max FS
CT-40	6.9	20.6
CT-41	20.6	59.5
CT-42	59.5	193.4
CT-43	193.4	386.2
CT-44	386.2	1309.5
CT-45	1309.5	3538.9
CT-46	3538.9	12571.6

**COS (34)**

Vacuum

Atmosphere

1200 Torr

**15-30 psia**

Bin	Min FS	Max FS
CT-40	2.0	5.9
CT-41	5.9	16.0
CT-42	16.0	54.5
CT-43	54.5	97.9
CT-44	97.9	328.9
CT-45	328.9	880.7
CT-46	880.7	3142.4

**25-40 psia**

Bin	Min FS	Max FS
CT-40	3.3	10.0
CT-41	10.0	27.0
CT-42	27.1	91.9
CT-43	91.9	163.1
CT-44	163.1	548.2
CT-45	548.2	1467.9
CT-46	1467.9	5237.3

Bin	Min FS	Max FS
CT-40	3.3	10.0
CT-41	10.0	26.9
CT-42	26.9	91.9
CT-43	91.9	154.4
CT-44	154.4	525.8
CT-45	525.8	1440.5
CT-46	1440.5	5071.2

**35-50 psia**

Bin	Min FS	Max FS
CT-40	4.7	14.1
CT-41	14.1	38.1
CT-42	38.1	129.3
CT-43	129.3	228.3
CT-44	228.3	767.5
CT-45	767.5	2055.0
CT-46	2055.0	7332.2

Bin	Min FS	Max FS
CT-40	4.7	14.1
CT-41	14.1	38.1
CT-42	38.1	129.3
CT-43	129.3	228.2
CT-44	228.2	767.5
CT-45	767.5	2055.0
CT-46	2055.0	7332.2

Bin	Min FS	Max FS
CT-40	4.7	14.1
CT-41	14.1	36.2
CT-42	36.2	129.3
CT-43	129.3	206.7
CT-44	206.7	705.9
CT-45	705.9	1946.4
CT-46	1946.4	6823.1

**45-60 psia**

Bin	Min FS	Max FS
CT-40	6.0	18.1
CT-41	18.1	49.1
CT-42	49.1	166.6
CT-43	166.7	293.6
CT-44	293.6	986.7
CT-45	986.8	2642.2
CT-46	2642.2	9427.1

Bin	Min FS	Max FS
CT-40	6.0	18.1
CT-41	18.1	49.1
CT-42	49.1	166.6
CT-43	166.7	293.6
CT-44	293.6	986.7
CT-45	986.8	2642.2
CT-46	2642.2	9427.1

Bin	Min FS	Max FS
CT-40	6.0	18.1
CT-41	18.1	49.1
CT-42	49.1	166.6
CT-43	166.7	289.4
CT-44	289.4	980.1
CT-45	980.1	2642.0
CT-46	2642.0	9399.8

**SiH4 (39)**

**15-30 psia**

**25-40 psia**

**35-50 psia**

**45-60 psia**

**Vacuum**

Bin	Min FS	Max FS
CT-40	2.3	6.8
CT-41	6.8	20.0
CT-42	20.0	64.5
CT-43	64.6	132.9
CT-44	132.9	446.7
CT-45	446.7	1196.1
CT-46	1196.1	4267.7

Bin	Min FS	Max FS
CT-40	3.9	11.6
CT-41	11.6	33.6
CT-42	33.6	109.0
CT-43	109.0	221.5
CT-44	221.5	744.5
CT-45	744.5	1993.5
CT-46	1993.5	7112.8

Bin	Min FS	Max FS
CT-40	5.4	16.3
CT-41	16.3	47.3
CT-42	47.3	153.4
CT-43	153.4	310.1
CT-44	310.1	1042.3
CT-45	1042.3	2791.0
CT-46	2791.0	9957.9

Bin	Min FS	Max FS
CT-40	7.0	21.0
CT-41	21.0	61.0
CT-42	61.0	197.8
CT-43	197.8	398.7
CT-44	398.7	1340.1
CT-45	1340.1	3588.4
CT-46	3588.4	12803.0

**Atmosphere**

Bin	Min FS	Max FS
CT-40	3.9	11.6
CT-41	11.6	33.6
CT-42	33.6	109.0
CT-43	109.0	209.3
CT-44	209.3	712.8
CT-45	712.8	1954.4
CT-46	1954.5	6875.8

Bin	Min FS	Max FS
CT-40	5.4	16.3
CT-41	16.3	47.3
CT-42	47.3	153.4
CT-43	153.4	309.8
CT-44	309.8	1042.3
CT-45	1042.3	2791.0
CT-46	2791.0	9957.9

Bin	Min FS	Max FS
CT-40	7.0	21.0
CT-41	21.0	61.0
CT-42	61.0	197.8
CT-43	197.8	398.7
CT-44	398.7	1340.1
CT-45	1340.1	3588.4
CT-46	3588.4	12803.0

**1200 Torr**

Bin	Min FS	Max FS
CT-40	5.4	16.3
CT-41	16.3	47.0
CT-42	47.0	153.4
CT-43	153.4	280.5
CT-44	280.5	957.8
CT-45	957.8	2642.7
CT-46	2642.7	9259.3

Bin	Min FS	Max FS
CT-40	7.0	21.0
CT-41	21.0	61.0
CT-42	61.0	197.8
CT-43	197.8	393.1
CT-44	393.1	1331.1
CT-45	1331.1	3588.2
CT-46	3588.2	12766.4

**C2H2 (42)**

**15-30 psia**

**25-40 psia**

**35-50 psia**

**45-60 psia**

**Vacuum**

Bin	Min FS	Max FS
CT-40	2.4	7.1
CT-41	7.1	20.8
CT-42	20.8	67.8
CT-43	67.8	147.1
CT-44	147.1	494.7
CT-45	494.7	1324.6
CT-46	1324.6	4726.1
CT-47	4726.1	10992.3
CT-48	10992.3	19644.3

Bin	Min FS	Max FS
CT-40	4.0	12.0
CT-41	12.0	35.1
CT-42	35.1	114.5
CT-43	114.5	245.3
CT-44	245.3	824.5
CT-45	824.5	2207.7
CT-46	2207.7	7876.8
CT-47	7876.8	18481.8
CT-48	18481.8	33372.3

Bin	Min FS	Max FS
CT-40	5.6	16.9
CT-41	16.9	49.4
CT-42	49.4	161.2
CT-43	161.2	343.4
CT-44	343.4	1154.3
CT-45	1154.3	3090.8
CT-46	3090.8	11027.6
CT-47	11027.6	18481.8
CT-48	18481.8	36903.6

Bin	Min FS	Max FS
CT-40	7.3	21.9
CT-41	21.9	63.7
CT-42	63.7	207.8
CT-43	207.9	441.5
CT-44	441.5	1484.1
CT-45	1484.1	3973.8
CT-46	3973.9	14178.3

**Atmosphere**

Bin	Min FS	Max FS
CT-40	4.0	12.0
CT-41	12.0	35.1
CT-42	35.1	114.5
CT-43	114.5	231.6
CT-44	231.6	788.6
CT-45	788.6	2163.4
CT-46	2163.4	7608.5
CT-47	7608.5	17374.5
CT-48	17374.5	32933.6

Bin	Min FS	Max FS
CT-40	5.6	16.9
CT-41	16.9	49.4
CT-42	49.4	161.2
CT-43	161.2	343.1
CT-44	343.1	1154.3
CT-45	1154.3	3090.8
CT-46	3090.8	11027.6
CT-47	11027.6	18481.8
CT-48	18481.8	36903.6

Bin	Min FS	Max FS
CT-40	7.3	21.9
CT-41	21.9	63.7
CT-42	63.7	207.8
CT-43	207.9	441.5
CT-44	441.5	1484.1
CT-45	1484.1	3973.8
CT-46	3973.9	14178.3

**1200 Torr**

Bin	Min FS	Max FS
CT-40	5.6	16.9
CT-41	16.9	49.4
CT-42	49.4	161.2
CT-43	161.2	310.5
CT-44	310.5	1060.2
CT-45	1060.2	2926.0
CT-46	2926.1	10249.8

Bin	Min FS	Max FS
CT-40	7.3	21.9
CT-41	21.9	63.7
CT-42	63.7	207.8
CT-43	207.9	435.3
CT-44	435.3	1474.1
CT-45	1474.1	3973.6
CT-46	3973.6	14137.8

**CHF3 (49)**

**Vacuum**

**Atmosphere**

**1200 Torr**

**15-30 psia**

Bin	Min FS	Max FS
CT-40	1.6	4.9
CT-41	4.9	13.9
CT-42	13.9	46.0
CT-43	46.0	89.0
CT-44	89.0	299.1
CT-45	299.1	800.9
CT-46	800.9	2857.5

**25-40 psia**

Bin	Min FS	Max FS
CT-40	2.8	8.3
CT-41	8.3	23.6
CT-42	23.6	77.6
CT-43	77.6	148.3
CT-44	148.3	498.5
CT-45	498.5	1334.8
CT-46	1334.8	4762.4

Bin	Min FS	Max FS
CT-40	2.8	8.3
CT-41	8.3	23.6
CT-42	23.6	77.6
CT-43	77.6	141.1
CT-44	141.1	480.3
CT-45	480.3	1314.0
CT-46	1314.0	4629.5

**35-50 psia**

Bin	Min FS	Max FS
CT-40	3.9	11.7
CT-41	11.7	33.2
CT-42	33.2	109.2
CT-43	109.2	207.6
CT-44	207.6	697.9
CT-45	697.9	1868.7
CT-46	1868.7	6667.4

Bin	Min FS	Max FS
CT-40	3.9	11.7
CT-41	11.7	33.2
CT-42	33.2	109.2
CT-43	109.2	207.6
CT-44	207.6	697.9
CT-45	697.9	1868.7
CT-46	1868.7	6667.4

Bin	Min FS	Max FS
CT-40	3.9	11.7
CT-41	11.7	33.1
CT-42	33.1	109.2
CT-43	109.2	189.4
CT-44	189.4	646.2
CT-45	646.2	1779.9
CT-46	1779.9	6243.4

**45-60 psia**

Bin	Min FS	Max FS
CT-40	5.0	15.1
CT-41	15.1	42.9
CT-42	42.9	140.8
CT-43	140.8	267.0
CT-44	267.0	897.3
CT-45	897.3	2402.6
CT-46	2402.6	8572.4

Bin	Min FS	Max FS
CT-40	5.0	15.1
CT-41	15.1	42.9
CT-42	42.9	140.8
CT-43	140.8	267.0
CT-44	267.0	897.3
CT-45	897.3	2402.6
CT-46	2402.6	8572.4

Bin	Min FS	Max FS
CT-40	5.0	15.1
CT-41	15.1	42.9
CT-42	42.9	140.8
CT-43	140.8	264.1
CT-44	264.1	893.3
CT-45	893.3	2402.6
CT-46	2402.6	8560.1

**NF3 (53)**

**15-30 psia**

**25-40 psia**

**35-50 psia**

**45-60 psia**

**Vacuum**

Bin	Min FS	Max FS
CT-40	1.4	4.1
CT-41	4.1	12.2
CT-42	12.2	39.7
CT-43	39.7	87.7
CT-44	87.7	294.9
CT-45	294.9	789.6
CT-46	789.6	2817.2
CT-47	2817.2	6574.1
CT-48	6574.1	11713.8

Bin	Min FS	Max FS
CT-40	2.3	7.0
CT-41	7.0	20.5
CT-42	20.6	67.1
CT-43	67.1	146.2
CT-44	146.2	491.5
CT-45	491.5	1316.0
CT-46	1316.0	4695.3
CT-47	4695.3	11156.2
CT-48	11156.2	19909.1

Bin	Min FS	Max FS
CT-40	3.3	9.9
CT-41	9.9	28.9
CT-42	28.9	94.5
CT-43	94.5	204.7
CT-44	204.7	688.1
CT-45	688.1	1842.4
CT-46	1842.4	6573.4
CT-47	6573.4	11631.0
CT-48	11631.0	23224.4

Bin	Min FS	Max FS
CT-40	4.2	12.7
CT-41	12.8	37.3
CT-42	37.3	121.8
CT-43	121.8	263.2
CT-44	263.2	884.6
CT-45	884.6	2368.8
CT-46	2368.8	8451.6

**Atmosphere**

Bin	Min FS	Max FS
CT-40	2.3	7.0
CT-41	7.0	20.5
CT-42	20.6	67.1
CT-43	67.1	138.9
CT-44	138.9	472.5
CT-45	472.5	1294.2
CT-46	1294.2	4556.1
CT-47	4556.1	10437.9
CT-48	10437.9	19706.3

Bin	Min FS	Max FS
CT-40	3.3	9.9
CT-41	9.9	28.9
CT-42	28.9	94.5
CT-43	94.5	204.7
CT-44	204.7	688.1
CT-45	688.1	1842.4
CT-46	1842.4	6573.4
CT-47	6573.4	11631.0
CT-48	11631.0	23224.4

Bin	Min FS	Max FS
CT-40	4.2	12.7
CT-41	12.8	37.3
CT-42	37.3	121.8
CT-43	121.8	263.2
CT-44	263.2	884.6
CT-45	884.6	2368.8
CT-46	2368.8	8451.6

**1200 Torr**

Bin	Min FS	Max FS
CT-40	3.3	9.9
CT-41	9.9	28.9
CT-42	28.9	94.5
CT-43	94.5	186.5
CT-44	186.5	636.4
CT-45	636.4	1754.1
CT-46	1754.1	6149.4
CT-47	6149.4	11631.0
CT-48	11631.0	23224.4

Bin	Min FS	Max FS
CT-40	4.2	12.7
CT-41	12.8	37.3
CT-42	37.3	121.8
CT-43	121.8	260.4
CT-44	260.4	880.7
CT-45	880.7	2368.8
CT-46	2368.8	8439.5

**B2H6 (58)**

**15-30 psia**

**25-40 psia**

**35-50 psia**

**45-60 psia**

**Vacuum**

Bin	Min FS	Max FS
CT-40	3.1	9.3
CT-41	9.3	24.4
CT-42	24.4	85.6
CT-43	85.6	140.5
CT-44	140.5	472.2
CT-45	472.2	1264.3
CT-46	1264.3	4511.0

Bin	Min FS	Max FS
CT-40	5.3	15.8
CT-41	15.8	40.6
CT-42	40.7	144.1
CT-43	144.1	234.1
CT-44	234.1	786.9
CT-45	787.0	2107.2
CT-46	2107.2	7518.3

Bin	Min FS	Max FS
CT-40	7.4	22.2
CT-41	22.2	56.9
CT-42	56.9	202.6
CT-43	202.6	327.8
CT-44	327.8	1101.7
CT-45	1101.7	2950.1
CT-46	2950.1	10525.6

Bin	Min FS	Max FS
CT-40	9.6	28.7
CT-41	28.7	73.2
CT-42	73.2	261.1
CT-43	261.1	421.4
CT-44	421.4	1416.5
CT-45	1416.5	3793.0
CT-46	3793.0	13532.9

**Atmosphere**

Bin	Min FS	Max FS
CT-40	5.3	15.8
CT-41	15.8	39.2
CT-42	39.2	144.1
CT-43	144.1	224.6
CT-44	224.6	763.6
CT-45	763.6	2083.0
CT-46	2083.0	7353.1

Bin	Min FS	Max FS
CT-40	7.4	22.2
CT-41	22.2	56.9
CT-42	56.9	202.6
CT-43	202.6	327.8
CT-44	327.8	1101.7
CT-45	1101.7	2950.1
CT-46	2950.1	10525.6

Bin	Min FS	Max FS
CT-40	9.6	28.7
CT-41	28.7	73.2
CT-42	73.2	261.1
CT-43	261.1	421.4
CT-44	421.4	1416.5
CT-45	1416.5	3793.0
CT-46	3793.0	13532.9

**1200 Torr**

Bin	Min FS	Max FS
CT-40	7.4	22.2
CT-41	22.2	52.9
CT-42	52.9	198.3
CT-43	198.3	301.5
CT-44	301.5	1028.2
CT-45	1028.3	2826.6
CT-46	2826.6	9928.6

Bin	Min FS	Max FS
CT-40	9.6	28.7
CT-41	28.7	73.0
CT-42	73.0	261.1
CT-43	261.1	418.1
CT-44	418.1	1412.9
CT-45	1412.9	3793.0
CT-46	3793.0	13526.4

**C3H6-a) (61)**

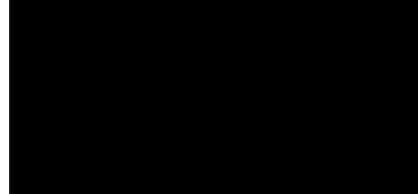
**Vacuum**

**Atmosphere**

**1200 Torr**

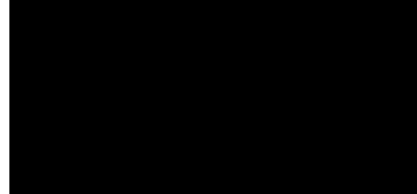
**15-30 psia**

Bin	Min FS	Max FS
CT-40	2.7	8.2
CT-41	8.2	19.9
CT-42	19.9	75.0
CT-43	75.0	114.4
CT-44	114.4	384.5

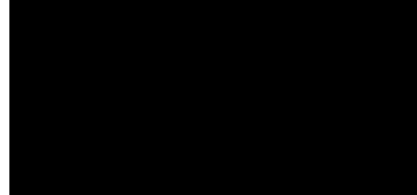


**25-40 psia**

Bin	Min FS	Max FS
CT-40	4.6	13.8
CT-41	13.8	33.1
CT-42	33.1	126.2
CT-43	126.2	190.7
CT-44	190.7	640.8

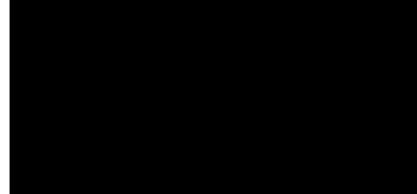


Bin	Min FS	Max FS
CT-40	4.6	13.8
CT-41	13.8	31.9
CT-42	31.9	120.6
CT-43	120.6	182.9
CT-44	182.9	621.9

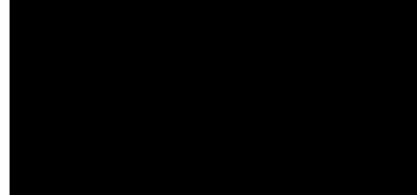


**35-50 psia**

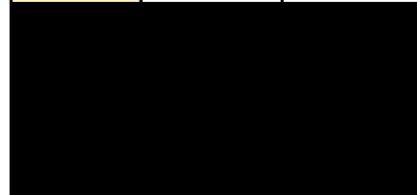
Bin	Min FS	Max FS
CT-40	6.5	19.5
CT-41	19.5	46.3
CT-42	46.3	177.4
CT-43	177.4	266.9
CT-44	266.9	897.1



Bin	Min FS	Max FS
CT-40	6.5	19.5
CT-41	19.5	46.3
CT-42	46.3	177.4
CT-43	177.4	266.9
CT-44	266.9	897.1

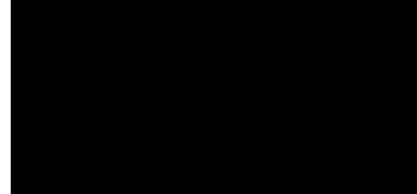


Bin	Min FS	Max FS
CT-40	6.5	19.4
CT-41	19.4	43.1
CT-42	43.1	161.7
CT-43	161.7	245.4
CT-44	245.4	837.1

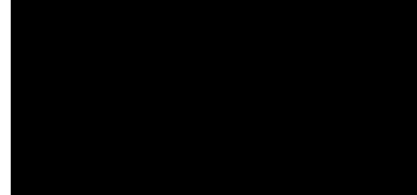


**45-60 psia**

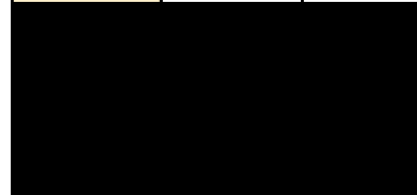
Bin	Min FS	Max FS
CT-40	8.4	25.1
CT-41	25.1	59.6
CT-42	59.6	228.6
CT-43	228.7	343.2
CT-44	343.2	1153.5



Bin	Min FS	Max FS
CT-40	8.4	25.1
CT-41	25.1	59.6
CT-42	59.6	228.6
CT-43	228.7	343.2
CT-44	343.2	1153.5



Bin	Min FS	Max FS
CT-40	8.4	25.1
CT-41	25.1	59.4
CT-42	59.4	228.6
CT-43	228.7	340.4
CT-44	340.4	1150.3





CF4 (63)

15-30 psia

25-40 psia

35-50 psia

45-60 psia

Vacuum

Bin	Min FS	Max FS
CT-40	1.4	4.3
CT-41	4.3	12.2
CT-42	12.2	40.1
CT-43	40.1	78.3
CT-44	78.3	263.3
CT-45	263.3	705.1
CT-46	705.1	2515.7

Bin	Min FS	Max FS
CT-40	2.4	7.2
CT-41	7.2	20.6
CT-42	20.6	67.6
CT-43	67.6	130.6
CT-44	130.6	438.9
CT-45	438.9	1175.2
CT-46	1175.2	4192.9

Bin	Min FS	Max FS
CT-40	3.4	10.1
CT-41	10.2	29.1
CT-42	29.1	95.1
CT-43	95.1	182.8
CT-44	182.8	614.4
CT-45	614.4	1645.2
CT-46	1645.2	5870.0

Bin	Min FS	Max FS
CT-40	4.4	13.1
CT-41	13.1	37.6
CT-42	37.6	122.6
CT-43	122.6	235.0
CT-44	235.0	790.0
CT-45	790.0	2115.3
CT-46	2115.3	7547.1

Atmosphere

Bin	Min FS	Max FS
CT-40	2.4	7.2
CT-41	7.2	20.6
CT-42	20.6	67.6
CT-43	67.6	124.9
CT-44	124.9	424.6
CT-45	424.6	1160.0
CT-46	1160.0	4090.6

Bin	Min FS	Max FS
CT-40	3.4	10.1
CT-41	10.2	29.1
CT-42	29.1	95.1
CT-43	95.1	182.8
CT-44	182.8	614.4
CT-45	614.4	1645.2
CT-46	1645.2	5870.0

Bin	Min FS	Max FS
CT-40	4.4	13.1
CT-41	13.1	37.6
CT-42	37.6	122.6
CT-43	122.6	235.0
CT-44	235.0	790.0
CT-45	790.0	2115.3
CT-46	2115.3	7547.1

1200 Torr

Bin	Min FS	Max FS
CT-40	3.4	10.1
CT-41	10.2	28.9
CT-42	28.9	95.1
CT-43	95.1	167.8
CT-44	167.8	572.1
CT-45	572.2	1574.3
CT-46	1574.3	5525.9

Bin	Min FS	Max FS
CT-40	4.4	13.1
CT-41	13.1	37.6
CT-42	37.6	122.6
CT-43	122.6	233.1
CT-44	233.1	787.7
CT-45	787.8	2115.3
CT-46	2115.3	7542.6

C3H6-b) (69)

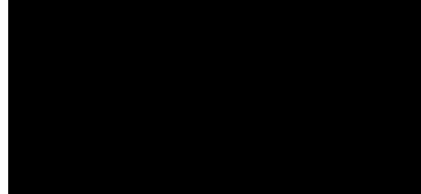
Vacuum

Atmosphere

1200 Torr

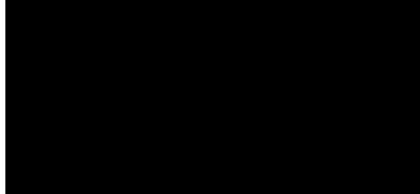
15-30 psia

Bin	Min FS	Max FS
CT-40	2.8	8.4
CT-41	8.4	19.7
CT-42	19.7	76.1
CT-43	76.1	113.3
CT-44	113.4	381.0

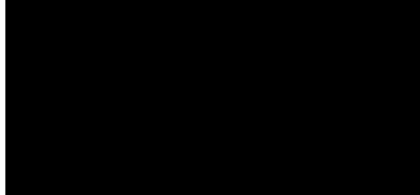


25-40 psia

Bin	Min FS	Max FS
CT-40	4.7	14.2
CT-41	14.2	32.8
CT-42	32.8	128.9
CT-43	128.9	188.9
CT-44	188.9	635.0

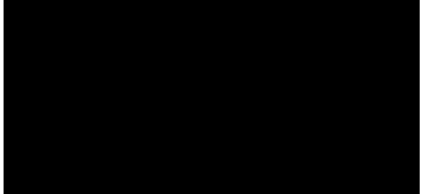


Bin	Min FS	Max FS
CT-40	4.7	14.2
CT-41	14.2	31.8
CT-42	31.8	120.3
CT-43	120.3	182.0
CT-44	182.0	618.5

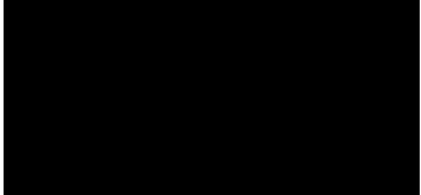


35-50 psia

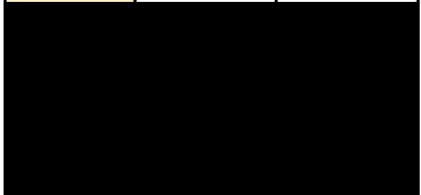
Bin	Min FS	Max FS
CT-40	6.7	20.0
CT-41	20.0	45.9
CT-42	45.9	181.7
CT-43	181.7	264.5
CT-44	264.5	889.0



Bin	Min FS	Max FS
CT-40	6.7	20.0
CT-41	20.0	45.9
CT-42	45.9	181.3
CT-43	181.3	264.5
CT-44	264.5	889.0

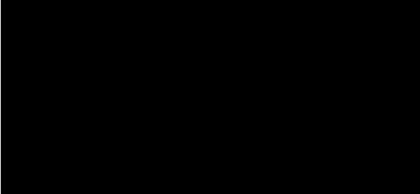


Bin	Min FS	Max FS
CT-40	6.7	20.0
CT-41	20.0	42.9
CT-42	42.9	161.4
CT-43	161.4	244.5
CT-44	244.5	833.6

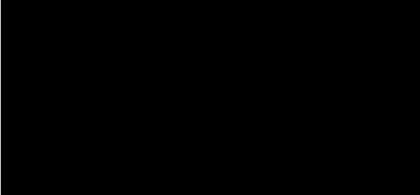


45-60 psia

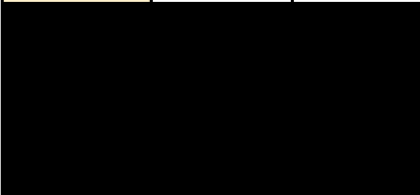
Bin	Min FS	Max FS
CT-40	8.6	25.8
CT-41	25.8	59.0
CT-42	59.0	234.6
CT-43	234.6	340.0
CT-44	340.1	1142.9



Bin	Min FS	Max FS
CT-40	8.6	25.8
CT-41	25.8	59.0
CT-42	59.0	234.6
CT-43	234.6	340.0
CT-44	340.1	1142.9



Bin	Min FS	Max FS
CT-40	8.6	25.8
CT-41	25.8	59.0
CT-42	59.0	228.8
CT-43	228.8	337.9
CT-44	337.9	1141.1



**CH2F2 (160)**

**Vacuum**

**Atmosphere**

**1200 Torr**

**15-30 psia**

Bin	Min FS	Max FS
CT-40	1.9	5.8
CT-41	5.8	16.3
CT-42	16.4	54.0
CT-43	54.0	104.9
CT-44	104.9	352.6
CT-45	352.6	944.2
CT-46	944.2	3368.8

**25-40 psia**

Bin	Min FS	Max FS
CT-40	3.3	9.8
CT-41	9.8	27.7
CT-42	27.7	91.2
CT-43	91.2	174.8
CT-44	174.9	587.7
CT-45	587.7	1573.6
CT-46	1573.6	5614.6

Bin	Min FS	Max FS
CT-40	3.3	9.8
CT-41	9.8	27.7
CT-42	27.7	91.2
CT-43	91.2	165.3
CT-44	165.3	562.8
CT-45	562.8	1542.9
CT-46	1542.9	5429.0

**35-50 psia**

Bin	Min FS	Max FS
CT-40	4.6	13.8
CT-41	13.8	39.0
CT-42	39.0	128.3
CT-43	128.3	244.8
CT-44	244.8	822.8
CT-45	822.8	2203.1
CT-46	2203.1	7860.4

Bin	Min FS	Max FS
CT-40	4.6	13.8
CT-41	13.8	39.0
CT-42	39.0	128.3
CT-43	128.3	244.6
CT-44	244.6	822.8
CT-45	822.8	2203.1
CT-46	2203.1	7860.4

Bin	Min FS	Max FS
CT-40	4.6	13.8
CT-41	13.8	38.7
CT-42	38.7	128.3
CT-43	128.3	221.3
CT-44	221.3	755.8
CT-45	755.8	2085.1
CT-46	2085.1	7306.7

**45-60 psia**

Bin	Min FS	Max FS
CT-40	5.9	17.8
CT-41	17.8	50.3
CT-42	50.3	165.4
CT-43	165.4	314.7
CT-44	314.7	1057.8
CT-45	1057.8	2832.5
CT-46	2832.6	10106.3

Bin	Min FS	Max FS
CT-40	5.9	17.8
CT-41	17.8	50.3
CT-42	50.3	165.4
CT-43	165.4	314.7
CT-44	314.7	1057.8
CT-45	1057.8	2832.5
CT-46	2832.6	10106.3

Bin	Min FS	Max FS
CT-40	5.9	17.8
CT-41	17.8	50.3
CT-42	50.3	165.4
CT-43	165.4	310.1
CT-44	310.1	1050.4
CT-45	1050.4	2832.3
CT-46	2832.3	10075.5

5%B2H6/Ar (615)

15-30 psia

25-40 psia

35-50 psia

45-60 psia

Vacuum

Bin	Min FS	Max FS
CT-40	1.1	3.4
CT-41	3.4	10.5
CT-42	10.5	34.2
CT-43	34.2	102.4
CT-44	102.4	349.2
CT-45	349.2	1047.9
CT-46	1048.0	3506.7
CT-47	3506.7	8748.4
CT-48	8748.5	15510.2

Bin	Min FS	Max FS
CT-40	1.9	5.8
CT-41	5.8	17.8
CT-42	17.8	57.8
CT-43	57.8	172.9
CT-44	172.9	590.9
CT-45	591.0	1760.0
CT-46	1760.0	5951.9
CT-47	5951.9	14814.4
CT-48	14814.4	26198.5

Bin	Min FS	Max FS
CT-40	2.7	8.2
CT-41	8.2	25.1
CT-42	25.1	81.5
CT-43	81.5	243.3
CT-44	243.3	832.7
CT-45	832.7	2471.6
CT-46	2471.6	8372.0
CT-47	8372.0	20882.6
CT-48	20882.6	36887.7

Bin	Min FS	Max FS
CT-40	3.5	10.6
CT-41	10.6	32.3
CT-42	32.3	105.2
CT-43	105.2	313.8
CT-44	313.8	1074.5
CT-45	1074.5	3182.9
CT-46	3182.9	10792.0
CT-47	10792.0	25121.5
CT-48	25121.5	47575.9

Atmosphere

Bin	Min FS	Max FS
CT-40	1.9	5.8
CT-41	5.8	17.8
CT-42	17.8	57.8
CT-43	57.8	172.9
CT-44	172.9	590.9
CT-45	591.0	1760.0
CT-46	1760.0	5890.8
CT-47	5890.8	14055.7
CT-48	14055.7	26198.5

Bin	Min FS	Max FS
CT-40	2.7	8.2
CT-41	8.2	25.1
CT-42	25.1	81.5
CT-43	81.5	243.3
CT-44	243.3	832.7
CT-45	832.7	2471.6
CT-46	2471.6	8372.0
CT-47	8372.0	20882.6
CT-48	20882.6	36887.7

Bin	Min FS	Max FS
CT-40	3.5	10.6
CT-41	10.6	32.3
CT-42	32.3	105.2
CT-43	105.2	313.8
CT-44	313.8	1074.5
CT-45	1074.5	3182.9
CT-46	3182.9	10792.0
CT-47	10792.0	25121.5
CT-48	25121.5	47575.9

1200 Torr

Bin	Min FS	Max FS
CT-40	2.7	8.2
CT-41	8.2	25.1
CT-42	25.1	81.5
CT-43	81.5	243.6
CT-44	243.6	833.8
CT-45	833.8	2425.2
CT-46	2425.2	8271.9
CT-47	8271.9	18749.5
CT-48	18749.5	36747.6

Bin	Min FS	Max FS
CT-40	3.5	10.6
CT-41	10.6	32.3
CT-42	32.3	105.2
CT-43	105.2	313.8
CT-44	313.8	1074.5
CT-45	1074.5	3182.9
CT-46	3182.9	10792.0
CT-47	10792.0	25121.5
CT-48	25121.5	47575.9

15%O3/O2 (641)

15-30 psia

25-40 psia

35-50 psia

45-60 psia

Vacuum

Bin	Min FS	Max FS
CT-40	1.3	3.9
CT-41	3.9	11.9
CT-42	11.9	39.0
CT-43	39.0	115.2
CT-44	115.2	388.3
CT-45	388.3	1184.7
CT-46	1184.7	3854.2
CT-47	3854.2	9526.2
CT-48	9526.2	17150.8

Bin	Min FS	Max FS
CT-40	2.2	6.6
CT-41	6.6	20.1
CT-42	20.1	66.0
CT-43	66.0	194.1
CT-44	194.1	655.3
CT-45	655.3	1987.1
CT-46	1987.1	6520.3
CT-47	6520.3	16347.1
CT-48	16347.1	29495.1

Bin	Min FS	Max FS
CT-40	3.1	9.4
CT-41	9.4	28.3
CT-42	28.3	93.1
CT-43	93.1	273.0
CT-44	273.0	922.2
CT-45	922.2	2788.8
CT-46	2788.8	9187.0
CT-47	9187.0	23006.6
CT-48	23006.6	41852.1

Bin	Min FS	Max FS
CT-40	4.0	12.1
CT-41	12.1	36.5
CT-42	36.5	120.1
CT-43	120.1	351.9
CT-44	351.9	1189.0
CT-45	1189.0	3590.3
CT-46	3590.3	11854.6
CT-47	11854.6	25507.6
CT-48	25507.6	50932.5

Atmosphere

Bin	Min FS	Max FS
CT-40	2.2	6.6
CT-41	6.6	20.1
CT-42	20.1	66.0
CT-43	66.0	194.1
CT-44	194.1	655.3
CT-45	655.3	1901.4
CT-46	1901.4	6520.3
CT-47	6520.3	14965.4
CT-48	14965.4	28714.6

Bin	Min FS	Max FS
CT-40	3.1	9.4
CT-41	9.4	28.3
CT-42	28.3	93.1
CT-43	93.1	273.0
CT-44	273.0	922.2
CT-45	922.2	2788.8
CT-46	2788.8	9187.0
CT-47	9187.0	23006.6
CT-48	23006.6	41852.1

Bin	Min FS	Max FS
CT-40	4.0	12.1
CT-41	12.1	36.5
CT-42	36.5	120.1
CT-43	120.1	351.9
CT-44	351.9	1189.0
CT-45	1189.0	3590.3
CT-46	3590.3	11854.6
CT-47	11854.6	25507.6
CT-48	25507.6	50932.5

1200 Torr

Bin	Min FS	Max FS
CT-40	3.1	9.4
CT-41	9.4	28.3
CT-42	28.3	93.1
CT-43	93.1	268.9
CT-44	268.9	919.3
CT-45	919.3	2560.5
CT-46	2560.5	8911.9
CT-47	8911.9	19995.7
CT-48	19995.7	38907.8

Bin	Min FS	Max FS
CT-40	4.0	12.1
CT-41	12.1	36.5
CT-42	36.5	120.1
CT-43	120.1	351.9
CT-44	351.9	1189.0
CT-45	1189.0	3571.3
CT-46	3571.3	11854.6
CT-47	11854.6	25507.6
CT-48	25507.6	50932.5

5%B2H6/N2 (654)

15-30 psia

25-40 psia

35-50 psia

45-60 psia

Vacuum

Bin	Min FS	Max FS
CT-40	1.5	4.4
CT-41	4.4	13.2
CT-42	13.2	43.3
CT-43	43.3	127.8
CT-44	127.8	430.8
CT-45	430.8	1314.2
CT-46	1314.2	4276.2
CT-47	4276.2	10570.5
CT-48	10570.5	19037.6

Bin	Min FS	Max FS
CT-40	2.5	7.4
CT-41	7.4	22.3
CT-42	22.3	73.3
CT-43	73.3	215.4
CT-44	215.4	727.0
CT-45	727.0	2204.2
CT-46	2204.2	7234.2
CT-47	7234.2	18136.5
CT-48	18136.5	32740.3

Bin	Min FS	Max FS
CT-40	3.5	10.4
CT-41	10.4	31.4
CT-42	31.4	103.2
CT-43	103.2	302.9
CT-44	302.9	1023.1
CT-45	1023.1	3093.5
CT-46	3093.5	10193.4
CT-47	10193.4	25525.2
CT-48	25525.2	46457.2

Bin	Min FS	Max FS
CT-40	4.5	13.4
CT-41	13.4	40.5
CT-42	40.5	133.2
CT-43	133.2	390.4
CT-44	390.4	1319.2
CT-45	1319.2	3982.7
CT-46	3982.7	13152.9
CT-47	13152.9	28242.3
CT-48	28242.3	56393.1

Atmosphere

Bin	Min FS	Max FS
CT-40	2.5	7.4
CT-41	7.4	22.3
CT-42	22.3	73.3
CT-43	73.3	215.4
CT-44	215.4	727.0
CT-45	727.0	2109.6
CT-46	2109.7	7234.2
CT-47	7234.2	16598.0
CT-48	16598.0	31858.8

Bin	Min FS	Max FS
CT-40	3.5	10.4
CT-41	10.4	31.4
CT-42	31.4	103.2
CT-43	103.2	302.9
CT-44	302.9	1023.1
CT-45	1023.1	3093.5
CT-46	3093.5	10193.4
CT-47	10193.4	25525.2
CT-48	25525.2	46457.2

Bin	Min FS	Max FS
CT-40	4.5	13.4
CT-41	13.4	40.5
CT-42	40.5	133.2
CT-43	133.2	390.4
CT-44	390.4	1319.2
CT-45	1319.2	3982.7
CT-46	3982.7	13152.9
CT-47	13152.9	28242.3
CT-48	28242.3	56393.1

1200 Torr

Bin	Min FS	Max FS
CT-40	3.5	10.4
CT-41	10.4	31.4
CT-42	31.4	103.2
CT-43	103.2	298.2
CT-44	298.2	1019.7
CT-45	1019.7	2840.5
CT-46	2840.5	9885.3
CT-47	9885.3	22174.7
CT-48	22174.7	43158.3

Bin	Min FS	Max FS
CT-40	4.5	13.4
CT-41	13.4	40.5
CT-42	40.5	133.2
CT-43	133.2	390.4
CT-44	390.4	1319.2
CT-45	1319.2	3964.0
CT-46	3964.0	13152.9
CT-47	13152.9	28242.3
CT-48	28242.3	56393.1

10%B2H6/H2 (701)

15-30 psia

25-40 psia

35-50 psia

45-60 psia

Vacuum

Bin	Min FS	Max FS
CT-40	2.6	7.8
CT-41	7.8	24.9
CT-42	24.9	79.1
CT-43	79.1	249.5
CT-44	249.5	854.4
CT-45	854.4	2544.1
CT-46	2544.1	8296.2
CT-47	8296.2	21387.1
CT-48	21387.1	36181.8

Bin	Min FS	Max FS
CT-40	4.4	13.3
CT-41	13.3	42.3
CT-42	42.3	134.1
CT-43	134.1	422.7
CT-44	422.7	1443.3
CT-45	1443.3	4285.5
CT-46	4285.5	14009.1
CT-47	14009.1	36137.9
CT-48	36137.9	61162.4

Bin	Min FS	Max FS
CT-40	6.3	18.8
CT-41	18.8	59.6
CT-42	59.6	189.0
CT-43	189.1	595.9
CT-44	596.0	2032.3
CT-45	2032.3	6025.7
CT-46	6025.7	19721.9
CT-47	19721.9	50885.8
CT-48	50885.8	86141.9

Bin	Min FS	Max FS
CT-40	8.1	24.3
CT-41	24.3	77.0
CT-42	77.0	244.0
CT-43	244.0	769.2
CT-44	769.2	2621.1
CT-45	2621.2	7765.6
CT-46	7765.6	25434.9
CT-47	25434.9	65636.5
CT-48	65636.5	111122.3

Atmosphere

Bin	Min FS	Max FS
CT-40	4.4	13.3
CT-41	13.3	42.2
CT-42	42.2	134.1
CT-43	134.1	422.7
CT-44	422.7	1443.3
CT-45	1443.3	4285.5
CT-46	4285.5	14009.1
CT-47	14009.1	36137.9
CT-48	36137.9	61162.4

Bin	Min FS	Max FS
CT-40	6.3	18.8
CT-41	18.8	59.6
CT-42	59.6	189.0
CT-43	189.1	595.9
CT-44	596.0	2032.3
CT-45	2032.3	6025.7
CT-46	6025.7	19721.9
CT-47	19721.9	50885.8
CT-48	50885.8	86141.9

Bin	Min FS	Max FS
CT-40	8.1	24.3
CT-41	24.3	77.0
CT-42	77.0	244.0
CT-43	244.0	769.2
CT-44	769.2	2621.1
CT-45	2621.2	7765.6
CT-46	7765.6	25434.9
CT-47	25434.9	65636.5
CT-48	65636.5	111122.3

1200 Torr

Bin	Min FS	Max FS
CT-40	6.3	18.8
CT-41	18.8	59.3
CT-42	59.3	189.0
CT-43	189.1	595.5
CT-44	595.5	2032.3
CT-45	2032.3	6030.5
CT-46	6030.5	19721.9
CT-47	19721.9	50885.8
CT-48	50885.8	86124.9

Bin	Min FS	Max FS
CT-40	8.1	24.3
CT-41	24.3	77.0
CT-42	77.0	244.0
CT-43	244.0	769.2
CT-44	769.2	2621.1
CT-45	2621.2	7765.6
CT-46	7765.6	25434.9
CT-47	25434.9	65636.5
CT-48	65636.5	111122.3

15%B2H6/H2 (820)

15-30 psia

25-40 psia

35-50 psia

45-60 psia

Vacuum

Bin	Min FS	Max FS
CT-40	2.6	7.8
CT-41	7.8	24.3
CT-42	24.3	78.3
CT-43	78.3	240.5
CT-44	240.5	825.9
CT-45	825.9	2461.9
CT-46	2461.9	8182.7
CT-47	8182.7	20768.7
CT-48	20768.7	35672.3

Bin	Min FS	Max FS
CT-40	4.4	13.2
CT-41	13.2	41.2
CT-42	41.2	132.7
CT-43	132.7	406.5
CT-44	406.5	1400.7
CT-45	1400.7	4139.2
CT-46	4139.2	13802.8
CT-47	13802.8	35259.2
CT-48	35259.2	60281.5

Bin	Min FS	Max FS
CT-40	6.2	18.7
CT-41	18.7	58.1
CT-42	58.1	187.0
CT-43	187.0	572.5
CT-44	572.5	1975.7
CT-45	1975.7	5815.2
CT-46	5815.2	19422.9
CT-47	19422.9	49760.8
CT-48	49760.8	84889.6

Bin	Min FS	Max FS
CT-40	8.0	24.1
CT-41	24.1	75.0
CT-42	75.0	241.4
CT-43	241.4	738.5
CT-44	738.5	2550.9
CT-45	2550.9	7490.4
CT-46	7490.4	25043.3
CT-47	25043.3	64269.0
CT-48	64269.0	109500.7

Atmosphere

Bin	Min FS	Max FS
CT-40	4.4	13.2
CT-41	13.2	41.2
CT-42	41.2	132.7
CT-43	132.7	406.5
CT-44	406.5	1398.9
CT-45	1398.9	4139.2
CT-46	4139.2	13802.8
CT-47	13802.8	35116.7
CT-48	35116.7	60281.5

Bin	Min FS	Max FS
CT-40	6.2	18.7
CT-41	18.7	58.1
CT-42	58.1	187.0
CT-43	187.0	572.5
CT-44	572.5	1975.7
CT-45	1975.7	5815.2
CT-46	5815.2	19422.9
CT-47	19422.9	49760.8
CT-48	49760.8	84889.6

Bin	Min FS	Max FS
CT-40	8.0	24.1
CT-41	24.1	75.0
CT-42	75.0	241.4
CT-43	241.4	738.5
CT-44	738.5	2550.9
CT-45	2550.9	7490.4
CT-46	7490.4	25043.3
CT-47	25043.3	64269.0
CT-48	64269.0	109500.7

1200 Torr

Bin	Min FS	Max FS
CT-40	6.2	18.7
CT-41	18.7	58.1
CT-42	58.1	187.0
CT-43	187.0	572.5
CT-44	572.5	1967.1
CT-45	1967.1	5819.4
CT-46	5819.4	19422.9
CT-47	19422.9	47741.1
CT-48	47741.1	84889.6

Bin	Min FS	Max FS
CT-40	8.0	24.1
CT-41	24.1	75.0
CT-42	75.0	241.4
CT-43	241.4	738.5
CT-44	738.5	2550.9
CT-45	2550.9	7490.4
CT-46	7490.4	25043.3
CT-47	25043.3	64242.1
CT-48	64242.1	109500.7



20%B2H6/H2 (869)

15-30 psia

25-40 psia

35-50 psia

45-60 psia

Vacuum

Bin	Min FS	Max FS
CT-40	1.3	4.0
CT-41	4.0	12.1
CT-42	12.1	40.0
CT-43	40.0	117.1
CT-44	117.1	393.3
CT-45	393.3	1179.1
CT-46	1179.1	3885.9
CT-47	3885.9	9423.2
CT-48	9423.2	16951.4

Bin	Min FS	Max FS
CT-40	2.3	6.8
CT-41	6.8	20.5
CT-42	20.5	67.7
CT-43	67.7	197.3
CT-44	197.3	663.0
CT-45	663.0	1965.2
CT-46	1965.2	6564.4
CT-47	6564.4	16186.0
CT-48	16186.0	29117.1

Bin	Min FS	Max FS
CT-40	3.2	9.6
CT-41	9.6	28.9
CT-42	28.9	95.3
CT-43	95.3	277.4
CT-44	277.4	932.7
CT-45	932.7	2751.2
CT-46	2751.2	9243.1
CT-47	9243.1	22942.1
CT-48	22942.1	41294.4

Bin	Min FS	Max FS
CT-40	4.1	12.4
CT-41	12.4	37.3
CT-42	37.3	123.0
CT-43	123.0	357.6
CT-44	357.6	1202.3
CT-45	1202.3	3537.3
CT-46	3537.3	11921.5
CT-47	11921.5	24321.2
CT-48	24321.2	48563.6

Atmosphere

Bin	Min FS	Max FS
CT-40	2.3	6.8
CT-41	6.8	20.5
CT-42	20.5	67.7
CT-43	67.7	197.3
CT-44	197.3	663.0
CT-45	663.0	1878.7
CT-46	1878.7	6554.7
CT-47	6554.7	14811.7
CT-48	14811.7	28387.9

Bin	Min FS	Max FS
CT-40	3.2	9.6
CT-41	9.6	28.9
CT-42	28.9	95.3
CT-43	95.3	277.4
CT-44	277.4	932.7
CT-45	932.7	2751.2
CT-46	2751.2	9243.1
CT-47	9243.1	22773.2
CT-48	22773.2	41294.4

Bin	Min FS	Max FS
CT-40	4.1	12.4
CT-41	12.4	37.3
CT-42	37.3	123.0
CT-43	123.0	357.6
CT-44	357.6	1202.3
CT-45	1202.3	3537.3
CT-46	3537.3	11921.5
CT-47	11921.5	24321.2
CT-48	24321.2	48563.6

1200 Torr

Bin	Min FS	Max FS
CT-40	3.2	9.6
CT-41	9.6	28.9
CT-42	28.9	95.3
CT-43	95.3	266.0
CT-44	266.0	909.4
CT-45	909.4	2530.5
CT-46	2530.5	8813.0
CT-47	8813.0	19785.2
CT-48	19785.2	38469.8

Bin	Min FS	Max FS
CT-40	4.1	12.4
CT-41	12.4	37.3
CT-42	37.3	123.0
CT-43	123.0	357.6
CT-44	357.6	1202.3
CT-45	1202.3	3520.9
CT-46	3520.9	11921.5
CT-47	11921.5	24321.2
CT-48	24321.2	48563.6