

**Minimum/Maximum Burst Pressure for CO Rupture Disks @ 72°F (psig)/22°C barg**

Disk Size (Inches)		Type: CO, COV, COR, RCOR, RCOV							LCO	LVCO	LCVL	
		TOP SECTION CHOICE: 316, Nickel, Inconel, Monel							TOP SECTION CHOICE: 316, NICKEL, INCONEL OR MONEL		TOP SECTION	
		SEAL MATERIAL							Fluoropolymer Seal	Fluoropolymer Seal	316 SS	Nickel
		Fluoropolymer	Ni	Mon	Inconel	316	Al	Fluoropolymer Seal				
1"	Min	psig	44	180	220	285	400	50	87	87	300	230
		barg	3.0	12.4	15.2	19.6	27.6	3.4	6.0	6.0	20.7	15.9
	Max	psig	1000	2000	2000	2000	2000	1600	1000	300	1000	600
		barg	68.9	137.9	137.9	137.9	137.9	110.3	68.9	20.7	68.9	41.4
DN 25	Min	psig	31	120	145	185	265	33	61	61	140	105
		barg	2.1	8.3	10	12.8	18.3	2.3	4.2	4.2	9.7	7.2
	Max	psig	700	1400	1400	1400	1400	1300	700	140	700	450
		barg	48.3	96.5	96.5	96.5	96.5	89.6	48.3	9.7	48.3	31
2"	Min	psig	15	69	84	109	150	20	30	30	100	75
		barg	1.0	4.8	5.8	7.5	10.3	1.4	2.1	2.1	6.9	5.2
	Max	psig	555	1100	1100	1100	1100	960	555	100	555	395
		barg	38.3	75.8	75.8	75.8	75.8	66.2	38.3	6.9	38.3	27.2
DN 50	Min	psig	11	52	62	79	115	15	21	21	65	45
		barg	0.8	3.6	4.3	5.4	7.9	1	1.4	1.4	4.5	3.1
	Max	psig	450	900	900	900	900	730	450	65	450	315
		barg	31	62.1	62.1	62.1	62.1	50.3	31	4.5	31	21.7
3"	Min	psig	8	39	47	60	85	12	16	16	60	35
		barg	0.6	2.7	3.2	4.1	5.9	0.8	1.1	1.1	4.1	2.4
	Max	psig	415	830	830	830	830	630	415	60	415	300
		barg	28.6	57.2	57.2	57.2	57.2	43.4	28.6	4.1	28.6	20.7
DN 100	Min	psig	6	29	35	45	64	9	12	12	75	45
		barg	0.4	2	2.4	3.1	4.4	0.6	0.8	0.8	5.2	3.1
	Max	psig	320	640	640	640	640	485	320	75	320	225
		barg	22.1	44.1	44.1	44.1	44.1	33.4	22.1	5.2	22.1	15.5
6"	Min	psig	5	23	28	35	50	7	11	11	75	55
		barg	0.3	1.6	1.9	2.4	3.4	0.5	0.8	0.8	5.2	3.8
	Max	psig	295	590	590	590	590	420	295	75	295	200
		barg	20.3	40.7	40.7	40.7	40.7	29	20.3	5.2	20.3	13.8
DN 200	Min	psig	4	18	22	28	38	5	9	9	60	35
		barg	0.3	1.2	1.5	1.9	2.6	0.3	0.6	0.6	4.1	2.4
	Max	psig	240	480	480	480	480	340	240	60	240	160
		barg	16.5	33.1	33.1	33.1	33.1	23.4	16.5	4.1	16.5	11
10"	Min	psig	3	15	19	24	34	5	6	6	45	30
		barg	0.2	1	1.3	1.7	2.3	0.3	0.4	0.4	3.1	2.1
	Max	psig	200	400	400	400	400	290	200	45	200	140
		barg	13.8	27.6	27.6	27.6	27.6	20	13.8	3.1	13.8	9.7
DN 300	Min	psig	3	14	17	22	29	4	6	6	40	30
		barg	0.2	1	1.2	1.5	2	0.3	0.4	0.4	2.8	2.1
	Max	psig	170	350	350	350	350	270	170	40	170	120
		barg	11.7	24.1	24.1	24.1	24.1	18.6	11.7	2.8	11.7	8.3
14"	Min	psig	3	12	14	19	25	4	6	6	35	25
		barg	0.2	0.8	1	1.3	1.7	0.3	0.4	0.4	2.4	1.7
	Max	psig	150	300	300	300	300	250	150	35	150	105
		barg	10.3	20.7	20.7	20.7	20.7	17.2	10.3	2.4	10.3	7.2
DN 400	Min	psig	3	10	13	17	23	4	6	6	35	35
		barg	0.2	0.7	0.9	1.2	1.6	0.3	0.4	0.4	2.4	2.4
	Max	psig	135	270	270	270	270	225	135	35	150	90
		barg	9.3	18.6	18.6	18.6	18.6	15.5	9.3	2.4	10.3	6.2
18"	Min	psig	3	10	12	15	20	3	6	6	35	35
		barg	0.2	0.7	0.8	1	1.4	0.2	0.4	0.4	2.4	2.4
	Max	psig	120	240	240	240	240	200	120	35	150	80
		barg	8.3	16.5	16.5	16.5	16.5	13.8	8.3	2.4	10.3	5.5
DN 450	Min	psig	3	40	55	45	45	3	6	6	35	35
		barg	0.2	2.8	3.8	3.1	3.1	0.2	0.4	0.4	2.4	2.4
	Max	psig	100	200	200	200	200	170	100	35	150	70
		barg	6.9	13.8	13.8	13.8	13.8	11.7	6.9	2.4	10.3	4.8
Max Temp	(° F)	500	750	800	900	900	250	500	500	500	500	
	(° C)	260.0	399.0	427.0	482.0	482.0	121.0	260.0	260.0	260.0	260.0	

**Note:** The LCVL and LVCO rupture discs withstand full vacuum without any metal in contact with the process media.



### CO Free Flow Area/Minimum Net Flow Area (MNFA)

Disk Size In.	Net Flow Area Sq. In.
1	0.651
1.5	1.507
2	3.355
3	7.392
4	12.73
6	25.45
8	44.41
10	73.71
12	100.5
14	137.1
16	179.4
18	228
20	281.7
24	405.9

### Standard Manufacturing Design Ranges for CO Rupture Disks

Specified Rupture Pressure		Manufacturing Design Range %
PSIG @ 72° F	BARG @ 22° C	
3 - 8	0.21-0.55	+40 to -40
9 - 12	0.62 - 0.83	+30 to -30
13 - 20	0.9 - 1.4	+20 to -10
21 - 45	1.4 - 3.1	+16 to -8
46 - 90	3.2 - 6.2	+12 to -6
91 - 270	6.3 - 18.6	+10 to -5
271 - Up	18.7 Up	+6 to -3

### Burst Tolerances for CO Rupture Disks

Marked Rupture Pressure		Burst Tolerance
PSIG @ 72° F	BARG @ 22° C	
3 - 40	2.1 - 2.8	± 2 PSIG
over 40	over 2.8	± 5%