

NH₃ CFM Chart and Properties

Relief Valve Rate of Discharge							
Surface Area Square Feet	CFM	Surface Area Square Feet	CFM	Surface Area Square Feet	CFM	Surface Area Square Feet	CFM
135	1,240	260	2,120	650	4,480	1,600	9,380
140	1,280	270	2,180	700	4,760	1,650	9,620
145	1,310	280	2,250	750	5,040	1,700	9,860
150	1,350	290	2,320	800	5,300	1,750	10,090
155	1,390	300	2,380	850	5,590	1,800	10,330
160	1,420	310	2,450	900	5,850	1,850	10,560
165	1,460	320	2,510	950	6,120	1,900	10,800
170	1,500	330	2,570	1,000	6,380	1,950	11,030
175	1,530	340	2,640	1,050	6,640	2,000	11,260
180	1,570	350	2,700	1,100	6,900	2,050	11,490
185	1,600	360	2,760	1,150	7,160	2,100	11,720
190	1,640	370	2,830	1,200	7,410	2,150	11,950
195	1,670	380	2,890	1,250	7,660	2,200	12,180
200	1,710	390	2,950	1,300	7,910	2,250	12,400
210	1,780	400	3,010	1,350	8,160	2,300	12,630
220	1,850	450	3,320	1,400	8,410	2,350	12,850
230	1,920	500	3,620	1,450	8,650	2,400	13,080
240	1,980	550	3,910	1,500	8,900	2,450	13,300
250	2,050	600	4,200	1,550	9,140	2,500	13,520

Minimum required rate of discharge in cubic feet per minute (CFM) of air for safety relief valves.
Discharge measured @ 60° F. and atmospheric pressure 14.7 psi.

Properties of Anhydrous Ammonia (NH ₃)	
Color	Colorless
Odor	Pungent - Sharp
Molecular Weight	17.03
Weight per gallon @ 60° F.	5.14 Lb
Weight per cubic foot @ 60° F.	38.45 Lb
Boiling Point @ 760 mm Hg	-33.35° C (-28° F.)
Freezing Point @ 760 mm Hg	-77.7° C (-107.9° F.)