

# Capacities | Limiting Orifice Valve

## CAPACITIES scfh (Nm<sup>3</sup>/h) Natural Gas (0.6 s.g.)

Capacity, scfh (Nm <sup>3</sup> /h)	Valve designation and pipe size					
	1807-01 ½"	1807-0 ¾"	1807-1 1"	1807-2 1¼"	1807-3 1½"	
Pressure drop, psi (mbar)	0.1 (.430)	86 (2.4)	121 (3.4)	222 (6.3)	327 (9.3)	414 (11.7)
	0.2 (.862)	122 (3.5)	172 (4.9)	315 (8.9)	470 (13.3)	584 (16.5)
	0.3 (1.29)	149 (4.2)	210 (5.9)	386 (10.9)	564 (16.0)	715 (20.2)
	0.4 (1.72)	172 (4.9)	243 (6.9)	446 (12.6)	650 (18.4)	830 (23.5)
	0.5 (2.15)	192 (5.4)	272 (7.7)	500 (14.2)	730 (20.7)	925 (26.2)
	1.0 (4.30)	272 (7.7)	385 (10.9)	705 (20.0)	1030 (29.2)	1310 (37.1)
	2.0 (8.62)	384 (10.9)	542 (15.3)	990 (28.0)	1460 (41.3)	1850 (52.4)
	3.0 (12.9)	470 (13.3)	665 (18.8)	1210 (34.3)	1780 (50.4)	2270 (64.3)
	4.0 (17.2)	544 (15.4)	770 (21.8)	1410 (39.9)	2060 (58.3)	2620 (74.2)
	5.0 (21.5)	610 (17.3)	860 (24.4)	1580 (44.7)	2320 (65.7)	2930 (83.0)
6.0 (25.9)	666 (18.9)	940 (26.6)	1720 (48.7)	2550 (72.2)	3210 (90.9)	

Capacity, scfh (Nm <sup>3</sup> /h)	Valve designation and pipe size				
	1807-4 2"	1807-5 2½"	1807-6 3"	1807-7 4"	
Pressure drop, psi (mbar)	0.1 (.430)	990 (28.0)	1491 (42.2)	2600 (73.6)	5100 (136.6)
	0.2 (.862)	1400 (39.6)	2110 (59.7)	3675 (104.1)	7210 (193.2)
	0.3 (1.29)	1720 (48.7)	2580 (73.1)	4500 (127.4)	8830 (236.7)
	0.4 (1.72)	1980 (56.1)	2982 (84.4)	5200 (147.2)	10200 (273.3)
	0.5 (2.15)	2230 (63.1)	3340 (94.6)	5820 (164.8)	11400 (305.5)
	1.0 (4.30)	3150 (89.2)	4720 (133.7)	8220 (232.8)	16120 (432.1)
	2.0 (8.62)	4450 (126.0)	6660 (188.6)	11590 (328.2)	22800 (611.1)
	3.0 (12.9)	5440 (154.0)	8200 (232.2)	14220 (402.7)	27930 (748.4)
	4.0 (17.2)	6300 (178.4)	9440 (267.3)	16440 (465.5)	32250 (864.2)
	5.0 (21.5)	7040 (199.4)	10560 (299.0)	18400 (521.0)	36060 (966.2)
6.0 (25.9)	7700 (218.0)	11570 (327.6)	20150 (570.6)	39500 (1058)	

Capacities shown with 1 psi (70 mbar) inlet pressure.  
Maximum Pressure: 25 psig (1.7 bar)

### 1807 Pressure and Temperature Ratings

Specific Gravity	Capacity Factor
0.4	1.22
0.6	1.00
0.8	0.866
1.5	0.632
2.0	0.547

Valve Designation	Max Inlet Pressure	Min. Temp.	Max. Temp.
<b>1807</b>	25 psi (1.7 bar)	-20F (-28C)	225F (107C)
<b>1807- -K</b>	25 psi (1.7 bar)	-20F (-28C)	225F (107C)
<b>1807- -TK</b>	25 psi (1.7 bar)	-20F (-28C)	600F (316C)
<b>1807- -H</b>	125 psi (8.6 bar)	-20F (-28C)	225F (107C)