

# MONT SELAS

## INDUSTRIAL GAS ENGINEERS

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### **ADJUSTABLE PORT PROPORTIONING AND FLOW CONTROL VALVES**



**GAS**



**AIR & MOTOR**



**AIR**

- Automatic or Manual Operation
- Pneumatic / ¼ turn / motorised control
- All adjustments are external to the valve
- Precise proportional flow control
- Valves for Preheated Air
- Valves for steam, water & other liquids
- Combined units
- Tandem or Triple linked assemblies



Gas valves type 223 for gas at pressures up to 2.8 bar (40 psi)

Sizes up to 3" are screwed B.S.P. - larger sizes are flanged and supplied with screwed mating flanges.

## Natural gas valve capacities - Type 223

Type	Inlet and outlet dia. BSP	GAS LINE PRESSURE - MILIBARS & INCHES WATER GAUGE																			
		mbars in wg																			
		12	5	25	10	37	15	50	20	63	25	75	30	88	35	100	40	113	45	125	50
		GAS 0.6 SPECIFIC GRAVITY, CAPACITY m <sup>3</sup> /hr & ft <sup>3</sup> /hr AT PRESSURE LOSS ACROSS VALVE EQUAL TO 10% OF LINE PRESSURE																			
	m <sup>3</sup> /hr	ft <sup>3</sup> /hr																			
223/00	¾	2.4	85	3.4	120	4.2	150	4.8	170	5.4	190	5.9	210	6.3	225	6.7	240	7.1	255	7.6	270
223/0	½	2.4	85	3.4	120	4.2	150	4.8	170	5.4	190	5.9	210	6.3	225	6.7	240	7.1	255	7.6	270
223/1	¾	9.4	335	13	475	16	590	19	680	21	760	23	830	25	900	27	960	28	1010	30	1075
223/2	1	16	590	24	870	28	1010	30	1060	37	1310	40	1430	43	1550	46	1650	49	1750	52	1860
223/3	1½	25	890	35	1260	43	1550	50	1780	56	2000	62	2200	66	2370	71	2350	76	2700	80	2850
223/4	1½	33	1190	47	1680	58	2060	66	2375	75	2660	81	2900	88	3150	94	3360	100	3570	105	3750
223/5	2	59	2110	84	3000	103	3670	118	4230	134	4750	146	5200	157	5600	168	6000	178	6350	188	6720
223/6	2½	85	3050	121	4320	148	5300	171	6100	190	6800	210	7500	226	8050	240	8620	257	9170	270	9650
223/7	3	116	4150	164	5870	202	7200	233	8300	260	9300	286	10200	308	11000	328	11700	344	12300	369	13150
223/8	4	214	7650	286	10200	370	13200	428	15300	479	17100	524	18700	565	20200	605	21600	642	22900	675	24100
223/9	6	493	17600	695	24800	854	30500	984	35100	1100	39250	1210	43000	1300	46500	1390	49500	1475	52700	1560	55500



Air valves type 225 for air normal temperature and pressures up to 276 mbar (3 psi)

All sizes are flanged and supplied with screwed mating flanges.

## Air valve capacities - Type 225

Type	Inlet and outlet dia. BSP	AIR LINE PRESSURE - MILIBARS & INCHES WATER GAUGE																	
		mbars in wg																	
		10	4	17.5	7	25	10	38	15	50	20	75	30	100	40	150	60	200	80
		AIR CAPACITIES m³/hr & ft³/hr PRESSURE LOSS ACROSS VALVE 10% OF LINE PRESSURE																	
		m³/hr		ft³/hr															
225/1	1½	32	1130	42	1490	50	1785	62	2185	71	2525	88	3095	101	3570	123	4370	143	5050
225/2	2	65	2285	85	3020	102	3610	125	4420	156	5510	177	6250	204	7220	250	8840	288	10215
225/3	2½	101	3565	134	4720	160	5640	195	6900	225	7970	278	9760	319	11,280	391	13,820	459	15940
225/4	3	128	4515	169	5970	202	7135	247	8740	286	10100	350	12370	404	14,280	494	17,480	572	20200
225/5	4	228	8030	300	10620	359	12690	438	15510	506	17900	620	21590	716	23,350	879	31,050	1040	36800
225/6	5	334	11830	443	15650	529	18700	648	22900	747	26450	916	32400	1060	37,400	1290	45,800	1490	52900
225/7	6	404	14270	532	18850	640	22560	781	27600	902	31880	1111	39050	1280	45,100	1560	55,200	1805	63800
225/8	8	908	32100	1200	42500	1435	50760	1760	62150	2030	71800	2480	87800	2870	101,500	3510	124,400	4070	143070
225/9	10	1420	50200	1880	66300	2240	79320	2750	97100	3170	112000	3890	137300	4470	158,600	5490	194,200	6340	224000
225/10	12	2040	72200	2700	95500	3230	114200	3960	140000	4570	161500	5610	198000	6470	228,400	7930	280,000	9140	323000



Oil valves type 274 for oil at pressures up to 2.8 bar (40 psi) All sizes are screwed B.S.P.

## Oil valve capacities - Type 274

Type	Inlet and outlet dia. BSP	bar lbf/in <sup>2</sup>		LINE PRESSURE - bar & lbf/in <sup>2</sup>																	
		.069	1	.138	2	.207	3	.345	5	.690	10	1.04	15	1.38	20	2.07	30	2.78	40		
		Litres gal		OIL CAPACITIES-IMPERIALGALLONS PER HOUR & LITRES PER HOUR																	
				PRESSURE LOSS THROUGH VALVE 10% OF LINE PRESSURE																	
274/1	¾	91	20	128	28	155	34	200	44	282	62	350	77	400	88	490	108	570	125		
274/2	½	91	20	128	28	155	34	200	44	282	62	350	77	400	88	490	108	570	125		
274/3	¾	360	79	510	112	624	137	805	177	1140	250	1390	306	1610	354	1970	433	2280	500		
274/4	1	624	136	880	193	1070	236	1390	305	1960	431	2400	528	2780	610	3400	747	3920	862		
274/5	1½	985	208	1340	295	1650	362	2120	466	3000	660	3680	808	4250	933	5200	1142	6000	1320		
274/6	1½	1270	278	1790	393	2180	480	2820	621	4000	879	4900	1076	5650	1244	6930	1522	8000	1758		
274/7	2	2250	494	3180	699	3890	855	5030	1106	7120	1562	8710	1913	10100	2210	12300	2708	14200	3125		
274/8	2½	3240	712	4550	1006	5620	1232	7250	1591	10200	2250	12500	2755	14500	3182	17700	3900	20500	4500		
274/9	3	4410	969	6240	1370	7630	1677	9850	2165	13900	3062	17100	3750	19700	4333	24100	5305	27900	6125		

Within the Temperature and Viscosity Ranges for Oil Burners the capacities will not vary more than 10% either way.

PRESSURE LOSS CORRECTIONS FOR CAPACITIES OF ALL VALVES.

When a pressure loss through a valve greater than 10% can be allowed, all capacity figures will be increased:-

Allowable pressure loss..	..	..	..	..	..	..	..	..	..	15%	20%
Multiple listed capacities by..	..	..	..	..	..	..	..	..	..	1.22	1.41

HIGHER WORKING PRESSURES AVAILABLE