

MONT SELAS

INDUSTRIAL GAS ENGINEERS

UNIT D2, BROOKSIDE BUSINESS PARK, GREENGATE, CHADDERTON, M24 1GS, ENGLAND

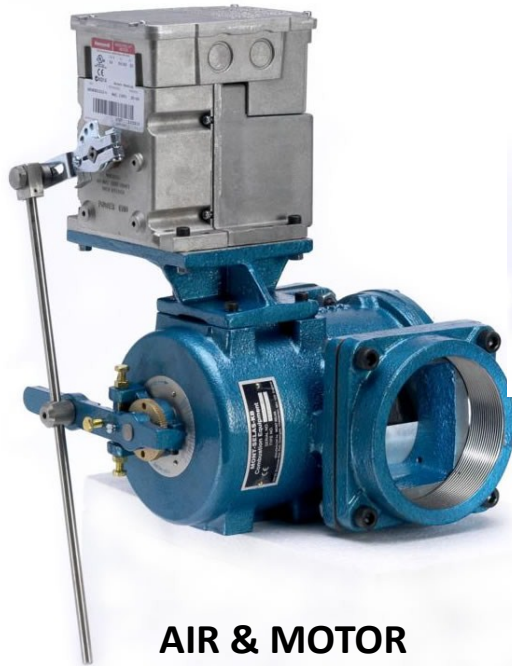
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ADJUSTABLE PORT PROPORTIONING AND FLOW CONTROL VALVES



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



Natural gas valve capacities - Type 223

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.

Type	Inlet and outlet dia. BSP	GAS LINE PRESSURE - MILIBARS & INCHES WATER GAUGE																																							
		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 ³ /hr & ft ³ /hr																																							
AT PRESSURE LOSS ACROSS VALVE EQUAL TO 10% OF LINE PRESSURE																																									
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	1¼	25	890	35	1260	43	1550	50	1780	56	2000	62	2200	66	2370	71	2350	76	3570	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	8060	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	5270	1560	55500																				



Air valve capacities - Type 225

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.

Type	Inlet and outlet dia. BSP	AIR LINE PRESSURE - MILIBARS & INCHES WATER GAUGE																																			
		10		4		17.5		7		25		10		38		15		50		20		75		30		100		40		150		60		200		80	
		AIR CAPACITIES m ³ /hr & ft ³ /hr																																			
PRESSURE LOSS ACROSS VALVE 10% OF LINE PRESSURE																																					
225/1	1½	32	1130	42	1490	50	1785	62	2185	71	2525	88	3095	101	3570	123	3570	143	5050																		
225/2	2	65	2285	85	3020	102	3610	125	4420	156	5510	177	6250	204	6250	250	6250	288	10215																		
225/3	2½	101	3565	134	4720	160	5640	195	6900	225	7970	278	9760	319	9760	391	9760	459	15940																		
225/4	3	128	4515	169	5970	202	7135	247	8740	286	10100	350	12370	404	12370	494	12370	572	20200																		
225/5	4	228	8030	300	10620	359	12690	438	15510	506	17900	620	21590	716	21590	879	21590	1040	36800																		
225/6	5	334	11830	443	15650	529	18700	648	22900	747	26450	916	32400	1060	32400	1290	32400	1490	52900																		
225/7	6	404	14270	532	18850	640	22560	781	27600	902	31880	1111	39050	1280	39050	1560	39050	1805	63800																		
225/8	8	908	32100	1200	42500	1435	50760	1760	62150	2030	71800	2480	87800	2870	87800	3510	87800	4070	143070																		
225/9	10	1420	50200	1880	66300	2240	79320	2750	97100	3170	112000	3890	137300	4470	137300	5490	137300	6340	224000																		
225/10	12	2040	72200	2700	95500	3230	114200	3960	140000	4570	161500	5610	198000	6470	198000	7930	280000	9140	323000																		



Oil valve capacities - Type 274

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

Type	Inlet and outlet dia. BSP	LINE PRESSURE - bar & lbf/in ²																																			
		.069		1		.138		2		.207		3		.345		5		.690		10		1.04		15		1.38		20		2.07		30		2.78		40	
		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	62	490	108	570	125																		
274/2	½	91	20	128	28	155	34	200	44	282	62	350	77	400	62	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	1¼	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.

HIGHER WORKING PRESSURES AVAILABLE

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