

Sizing and Selection Chart

25P, 25PE, 25PA, and all Combinations

Capacities pounds of saturated steam per hour for reduced port valve sizes for lower steam velocities

Inlet Steam Pressure psig	Outlet Steam Pressure psig	NOMINAL VALVE SIZE									
		1/2"S	3/4"S	1"S	1-1/4"S	1-1/2"S	2"S	2-1/2"S	3"S	4"S	6"S
	C.V. Factors \bar{I}	1.16	2.4	4.6	6.5	11.6	18.5	26	37	64	156
15	10	30	65	125	175	315	505	695	1,000	1,730	4,048
	5	45	95	175	250	450	720	1,015	1,440	2,500	6,311
	3	50	110	205	285	510	820	1,150	1,630	2,795	6,917
20	12	40	85	160	230	405	650	920	1,300	2,225	6,070
	8	50	110	210	290	520	825	1,170	1,655	2,825	7,585
	0-5	60	125	235	335	600	955	1,330	1,915	3,265	8,427
25	15	50	100	190	270	485	770	1,085	1,540	2,630	7,438
	10	65	135	255	360	640	1,025	1,435	2,040	3,550	9,144
	0-7	70	145	270	385	685	1,090	1,555	2,210	3,775	9,912
30	20	50	110	210	290	520	825	1,170	1,655	2,825	7,942
	15	75	150	290	410	735	1,175	1,660	2,350	4,000	9,808
	0-12	80	160	305	430	760	1,220	1,715	2,435	4,225	10,665
40	30	50	110	210	290	520	825	1,170	1,655	2,825	8,864
	25	85	175	335	470	835	1,360	1,870	2,665	4,640	11,017
	0-18	95	200	370	525	935	1,500	2,100	2,985	5,185	13,160
50	40	65	130	250	355	640	1,105	1,430	2,085	3,565	9,699
	30	105	220	420	585	1,045	1,670	2,350	3,330	5,825	13,936
	0-21	115	240	460	650	1,130	1,850	2,600	3,700	6,430	16,364
60	45	95	200	370	520	940	1,500	2,110	3,000	5,125	13,105
	35	125	250	475	670	1,195	1,900	2,760	3,810	6,590	16,781
	0-27	130	270	510	720	1,290	2,065	2,885	4,125	7,105	18,855
75	60	95	200	370	525	935	1,500	2,100	2,985	5,185	14,475
	50	140	290	545	775	1,380	2,210	3,155	4,475	7,655	18,666
	0-35	155	330	620	875	1,565	2,500	3,495	4,950	8,640	22,813
85	70	100	210	395	540	960	1,590	2,160	3,070	5,415	15,320
	50	165	350	655	915	1,660	2,650	3,735	5,295	9,045	23,062
	0-43	170	360	680	960	1,710	2,735	3,850	5,460	9,475	24,851
100	80	120	255	490	690	1,230	1,960	2,735	3,880	6,780	19,198
	60	190	400	755	1,080	1,900	3,050	4,315	6,140	10,600	26,542
	0-48	200	420	800	1,120	2,000	3,200	4,480	6,350	11,000	29,476
125	100	145	300	585	825	1,470	2,350	3,365	4,765	8,140	23,900
	80	230	480	905	1,275	2,280	3,645	5,115	7,250	12,500	31,378
	0-62	245	510	965	1,365	2,435	3,900	5,535	7,850	13,420	35,922
150	125	160	335	645	910	1,625	2,590	3,640	5,270	9,000	26,126
	100	265	555	1,050	1,490	2,645	4,230	5,930	8,415	14,650	36,170
	0-76	285	580	1,140	1,600	2,870	4,590	6,420	9,140	15,800	42,368
175	150	165	350	655	915	1,660	2,650	3,775	5,295	9,045	28,177
	125	290	600	1,160	1,630	2,915	4,665	6,550	9,285	15,900	39,252
	0-87	330	680	1,310	1,840	3,300	5,270	7,410	10,500	18,000	49,436
200	150	285	580	1,125	1,600	2,850	4,480	6,290	9,060	15,450	42,109
	125	360	740	1,420	2,000	3,570	5,725	8,015	11,350	19,700	50,199
	0-103	375	780	1,485	2,100	3,740	5,990	8,390	11,875	20,670	55,471
225	175	290	605	1,170	1,625	2,945	4,700	6,600	9,400	16,200	44,785
	150	390	810	1,540	2,180	3,885	6,200	8,715	12,350	21,300	53,605
	0-117	420	875	1,655	2,340	4,175	6,680	9,375	13,300	23,000	61,917
250	200	310	640	1,250	1,730	3,100	4,920	6,920	9,840	17,000	47,309
	150	450	935	1,775	2,500	4,465	7,155	10,000	14,200	24,700	63,991
	0-131	460	970	1,830	2,590	4,615	7,395	10,300	14,725	25,450	68,363
*275	225	290	610	1,160	1,640	2,930	4,670	6,560	9,335	16,150	
	200	415	855	1,640	2,320	4,140	6,600	9,275	13,200	22,830	
	0-145	505	1,040	2,000	2,830	5,050	8,050	11,310	16,100	27,840	
*300	250	310	635	1,220	1,720	3,070	4,890	6,870	9,780	18,900	
	225	415	860	1,650	2,330	4,160	6,640	9,330	13,270	22,900	
	0-160	550	1,130	2,170	3,070	5,475	8,730	12,270	17,460	30,200	

Capacities are based on an accuracy regulation of 1 PSI and with pipe sizes to insure reasonable velocities. Refer to pipe sizing chart.
* Cast steel construction required for service above 250 psig