



Capacities for the Stainless Steel Pilot Operated Pressure Regulator DP 163

CAPACITIES Pounds of saturated steam per hour for standard valves

Inlet Steam Pressure psig	Outlet Steam Pressure psig	NOMINAL VALVE SIZE							
		1/2" LC	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	3"
Max C _v Factors		1.1	3.2	6.4	9.4	14.0	19.8	32.7	74.8
25	15	42	94	198	340	510	790	1270	2350
	10	48	100	205	365	530	840	1345	2510
	7	51	110	225	390	575	895	1420	2630
50	40	60	130	240	475	640	995	1525	2300
	30	95	205	420	730	1080	1590	2570	5300
	0-21	110	225	450	790	1190	1660	2775	5950
75	60	100	210	445	775	1050	1600	2650	5300
	50	135	295	610	990	1500	2175	3600	7900
	0-35	160	340	720	1160	1780	2665	4230	9100
100	80	140	305	620	1075	1570	2300	3800	8100
	60	210	440	915	1490	2250	3300	5300	12000
	0-48	220	470	980	1560	2400	3550	5650	12450
125	100	165	360	680	1200	1825	2775	4420	9500
	80	245	520	1090	1750	2650	3970	6300	14100
	0-62	270	580	1225	1960	2970	4325	7050	15400
150	125	190	405	825	1330	2050	3060	4940	10700
	100	290	660	1300	2090	3150	4450	7500	16600
	0-76	330	700	1480	2360	3605	5320	8500	18700
175	150	205	430	890	1470	2200	3250	5150	11200
	125	310	680	1400	2225	3375	5000	8025	17750
	0-87	380	820	1750	2710	4160	6230	9970	21900
200	150	305	660	1380	2250	3290	4970	7980	11500
	125	405	870	1800	2810	4275	6500	10400	23100
	0-103	440	925	1970	3100	4750	7100	11350	25070
225	175	315	680	1405	2300	3390	5115	8200	17800
	150	425	900	1880	2990	4600	6800	10960	24000
	0-117	495	1050	2195	3485	5360	7980	12800	28200
250	200	320	685	1440	2320	3440	5200	8300	18600
	150	530	1130	2350	3750	5800	8600	13700	30300
	0-131	555	1180	2420	3800	5970	8990	14280	31900
275	225	340	720	1530	2430	3600	5405	8700	19000
	200	450	955	2030	3200	4840	7220	11600	25900
	0-145	610	1305	2700	4300	6650	9800	15820	34800
300	250	350	740	1580	2490	3720	5600	8970	19300
	225	465	980	2050	3275	4990	7380	11850	26500
	0-160	665	1420	2940	4700	7180	10760	17200	37900

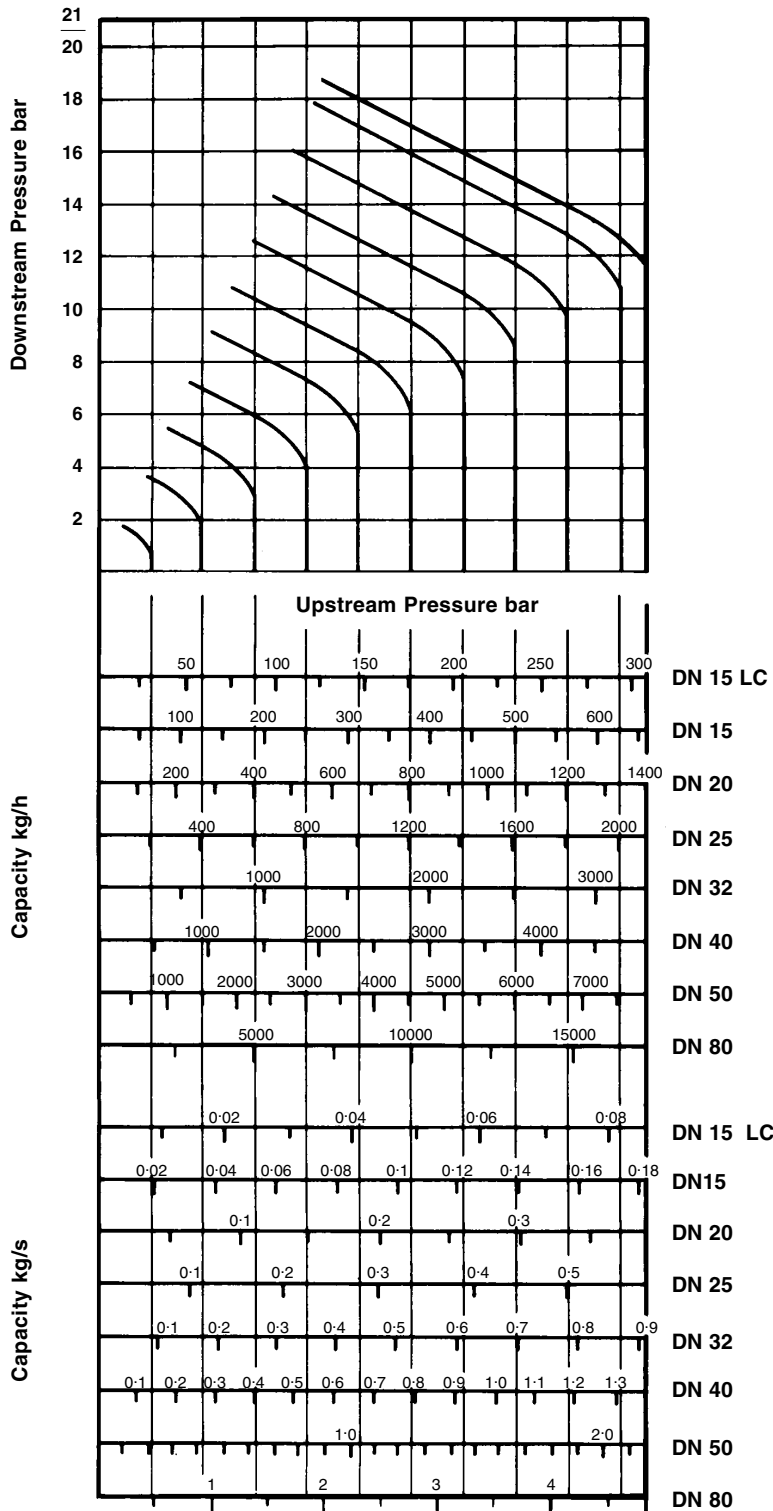
Capacities are based on an accuracy of regulation of 1-1/2 psi and with pipe sizes to ensure reasonable steam velocities. Refer to pipe sizing chart.

Note: The capacities quoted on the chart are based on valves fitted with external pressure sensing pipes. Reliance on the internal pressure sensing pipe will mean that capacities may be reduced. In the case of low downstream pressure, this reduction could be up to 30% of the valve capacity

*Local regulation may restrict the use of this product below the conditions quoted. Limiting conditions refer to standard connections only.
In the interests of development and improvement of the product, we reserve the right to change the specification.*

Capacities for the Stainless Steel Pilot Operated Pressure Regulator DP 163

STEAM CAPACITIES (METRIC UNITS)



HOW TO USE THE CHART

Saturated Steam

Required a valve to pass 600 kg/h reducing from 6 bar to 4 bar. Find point at which curved 6 bar upstream pressure line crosses horizontal 4 bar downstream pressure line. A perpendicular dropped from this point gives the capacities of all DP sizes under these conditions. A DN 32 valve is the smallest size which will carry the required load.

Superheated Steam

Because of the higher specific volume of superheated steam, a correction factor must be applied to the figure obtained from this chart. For 55°C of superheat, the factor is 0.95, and for 100°C of superheat, it is 0.9.

Using the example given for saturated steam, the DN 32 valve would pass $600 \times 0.95 = 570$ kg/h if the steam had 55°C of superheat. It is still big enough to pass the required load of 600 kg/h.