

Nozzle Size	10 1 145	20 2 290	30 3 435	40 4 580	50 5 725	60 6 870	70 7 1015	80 8 1160	90 9 1305	100 10 1450	110 11 1595	120 12 1740	130 13 1885	140 14 2031	150 15 2176	bar Mpa psi
010	0.7	1.0	1.2	1.4	1.6	1.8	1.9	2.0	2.2	2.3	2.4	2.5	2.6	2.7	2.8	l/min
015	1.1	1.5	1.9	2.2	2.4	2.6	2.9	3.1	3.2	3.4	3.6	3.7	3.9	4.0	4.2	
020	1.4	2.0	2.5	2.9	3.2	3.5	3.8	4.1	4.3	4.6	4.8	5.0	5.2	5.4	5.6	
022	1.6	2.2	2.7	3.2	3.5	3.9	4.2	4.5	4.8	5.0	5.3	5.5	5.7	5.9	6.1	
025	1.8	2.5	3.1	3.6	4.0	4.4	4.8	5.1	5.4	5.7	6.0	6.2	6.5	6.7	7.0	
028	2	2.9	3.5	4	4.5	4.9	5.3	5.7	6.1	6.4	6.7	7	7.3	7.6	7.8	
030	2.2	3.1	3.7	4.3	4.8	5.3	5.7	6.1	6.5	6.8	7.2	7.5	7.8	8.1	8.4	
033	2.4	3.4	4.1	4.8	5.3	5.8	6.3	6.7	7.1	7.5	7.9	8.2	8.6	8.9	9.2	
035	2.5	3.6	4.4	5	5.6	6.2	6.7	7.1	7.6	8	8.4	8.7	9.1	9.4	9.8	
037	2.7	3.8	4.6	5.3	6	6.5	7.1	7.5	8	8.4	8.8	9.2	9.6	10	10.3	
040	2.9	4.1	5	5.8	6.4	7.1	7.6	8.2	8.6	9.1	9.6	10	10.4	10.8	11.2	
042	3	4.3	5.2	6.1	6.8	7.4	8	8.6	9.1	9.6	10	10.5	10.9	11.3	11.7	
045	3.2	4.6	5.6	6.5	7.3	7.9	8.6	9.2	9.7	10.3	10.8	11.2	11.7	12.1	12.6	
050	3.6	5.1	6.2	7.2	8.1	8.8	9.5	10.2	10.8	11.4	12	12.5	13	13.5	14	
053	3.8	5.4	6.6	7.6	8.5	9.4	10.1	10.8	11.5	12.1	12.7	13.2	13.8	14.3	14.8	
055	4	5.6	6.9	7.9	8.9	9.7	10.5	11.2	11.9	12.5	13.1	13.7	14.3	14.8	15.4	
058	4.2	5.9	7.2	8.4	9.3	10.2	11.1	11.8	12.5	13.2	13.9	14.5	15.1	15.6	16.2	
060	4.3	6.1	7.5	8.6	9.7	10.6	11.4	12.2	13	13.7	14.3	15	15.6	16.2	16.8	
065	4.7	6.6	8.1	9.4	10.5	11.5	12.4	13.3	14.1	14.8	15.5	16.2	16.9	17.5	18.1	
070	5	7.1	8.7	10.1	11.3	12.4	13.3	14.3	15.1	16	16.7	17.5	18.2	18.9	19.5	
075	5.4	7.6	9.4	10.8	12.1	13.2	14.3	15.3	16.2	17.1	17.9	18.7	19.5	20.2	20.9	
080	5.8	8.2	10	11.5	12.9	14.1	15.3	16.3	17.3	18.2	19.1	20	20.8	21.6	22.3	
085	6.1	8.7	10.6	12.3	13.7	15	16.2	17.3	18.4	19.4	20.3	21.2	22.1	22.9	23.7	
090	6.5	9.2	11.2	13	14.5	15.9	17.2	18.3	19.5	20.5	21.5	22.5	23.4	24.3	25.1	
10	7.2	10.2	12.5	14.4	16.1	17.7	19.1	20.4	21.6	22.7	23.9	25	26	27	27.9	
11	7.9	11.2	13.7	15.9	17.7	19.4	21	22.4	23.8	25.1	26.3	27.5	28.6	29.7	30.7	
12	8.6	12.2	15	17.3	19.3	21.2	22.9	24.5	25.9	27.2	28.7	30	31.2	32.4	33.5	
15	10.8	15.3	18.7	21.6	24.2	26.5	28.6	30.6	32.4	34.2	35.9	37.5	39	40.5	41.9	
20	14.4	20.4	25	28.8	32.2	35.3	38.1	40.8	43.2	45.6	47.8	49.9	52	53.9	55.8	
25	18	25.5	31.2	36	40.3	44.1	47.7	51	54.1	57	59.8	62.4	65	67.4	69.8	
30	21.6	30.6	37.5	43.2	48.4	53	57.2	61.2	64.9	68.4	71.7	74.9	78	80.9	83.8	
35	25.2	35.7	43.7	50.5	56.4	61.8	66.7	71.4	75.7	79.8	83.7	87.4	91	94.4	97.7	
40	28.8	40.8	49.9	57.7	64.5	70.6	76.3	81.6	86.5	91	95.6	99.9	104	107.9	111.7	
50	30.6	51	62.4	72.1	80.6	88.3	95.4	101.9	108.1	114	119.5	124.8	129.9	134.9	139.6	
60	43.2	61.2	74.9	86.5	96.7	105.9	114.4	122.3	129.7	136.8	143.4	149.8	155.9	161.8	167.5	
70	50.5	71.4	87.4	100.6	112.8	123.6	133.5	142.7	151.4	159.6	167.3	174.8	181.9	188.8	195.4	
80	57.7	81.6	99.9	115.3	128.9	141.3	152.6	163.1	173	182.4	191.3	199.8	207.9	215.8	223.3	
90	64.9	91.7	112.4	129.7	145.1	158.9	171.6	183.5	194.6	205.1	215.2	224.7	233.9	242.7	251.3	

Nozzle Size	160	170	180	190	200	210	220	230	240	250	260	270	276	280	290	bar Mpa psi
	16	17	18	19	20	21	22	23	24	25	26	27	27.6	28	29	
	2321	2466	2611	2756	2901	3046	3191	3336	3481	3626	3771	3916	4000	4061	4206	
010	2.9	3.0	3.1	3.1	3.2	3.3	3.4	3.5	3.5	3.6	3.7	3.7	3.8	3.8	3.9	l/min
015	4.3	4.5	4.6	4.7	4.8	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.7	5.8	
020	5.8	5.9	6.1	6.3	6.4	6.6	6.8	6.9	7.1	7.2	7.4	7.5	7.6	7.6	7.8	
022	6.3	6.5	6.7	6.9	7.1	7.3	7.4	7.6	7.8	7.9	8.1	8.2	8.3	8.4	8.5	
025	7.2	7.4	7.6	7.9	8.1	8.3	8.5	8.6	8.8	9.0	9.2	9.4	9.5	9.5	9.7	
028	8.1	8.3	8.6	8.8	9	9.2	9.4	9.7	9.9	10.1	10.3	10.5	10.6	10.7	10.9	
030	8.6	8.9	9.2	9.4	9.7	9.9	10.1	10.4	10.6	10.8	11	11.2	11.4	11.4	11.6	
033	9.5	9.8	10.1	10.4	10.6	10.9	11.2	11.4	11.7	11.9	12.1	12.4	12.5	12.6	12.8	
035	10.1	10.4	10.7	11	11.3	11.6	11.8	12.1	12.4	12.6	12.9	13.1	13.2	13.3	13.6	
037	10.7	11	11.3	11.6	11.9	12.2	12.5	12.8	13.1	13.3	13.6	13.8	14	14.1	14.4	
040	11.5	11.9	12.2	12.6	12.9	13.2	13.5	13.8	14.1	14.4	14.7	15	15.1	15.3	15.6	
042	12.1	12.5	12.8	13.2	13.5	13.9	14.2	14.5	14.8	15.1	15.4	15.7	15.9	16	16.3	
045	13	13.4	13.8	14.1	14.5	14.9	15.2	15.6	15.9	16.2	16.5	16.9	17	17.2	17.5	
050	14.4	14.9	15.3	15.7	16.1	16.5	16.9	17.3	17.7	18	18.4	18.7	18.9	19.1	19.4	
053	15.3	15.8	16.2	16.7	17.1	17.5	17.9	18.3	18.7	19.1	19.5	19.9	20.1	20.2	20.6	
055	15.9	16.3	16.8	17.3	17.7	18.2	18.6	19	19.4	19.8	20.2	20.6	20.8	21	21.3	
058	16.7	17.2	17.7	18.2	18.7	19.2	19.6	20.1	20.5	21	21.3	21.7	22	22.2	22.5	
060	17.3	17.8	18.3	18.9	19.3	19.8	20.3	20.7	21.2	21.6	22.1	22.5	22.7	22.9	23.3	
065	18.7	19.3	19.9	20.4	21	21.5	22	22.5	23	23.4	23.9	24.3	24.6	24.8	25.2	
070	20.2	20.8	21.4	22	22.6	23.1	23.7	24.2	24.7	25.2	25.7	26.2	26.5	26.7	27.2	
075	21.6	22.3	22.9	23.5	24.2	24.8	25.4	25.9	26.5	27	27.6	28.1	28.4	28.6	29.1	
080	23.1	23.8	24.5	25.1	25.8	26.4	27	27.7	28.3	28.8	29.4	30	30.3	30.5	31.1	
085	24.5	25.3	26	26.7	27.4	28.1	28.7	29.4	30	30.6	31.2	31.8	32.2	32.4	33	
090	25.9	26.7	27.5	28.3	29	29.7	30.4	31.1	31.8	32.4	33.1	33.7	34.1	34.3	34.9	
10	28.8	29.7	30.6	31.4	32.2	33	33.8	34.6	35.3	36	36.8	37.5	37.9	38.1	38.8	
11	31.7	32.7	33.6	34.6	35.5	36.3	37.2	38	38.8	39.6	40.4	41.2	41.6	42	42.7	
12	34.6	35.7	36.7	37.7	38.7	39.6	40.6	41.5	42.4	43.3	44.1	44.9	45.4	45.8	46.6	
15	43.2	44.6	45.9	47.1	48.4	49.5	50.7	51.9	53	54.1	55.1	56.2	56.8	57.2	58.2	
20	57.7	59.4	61.2	62.8	64.5	66.1	67.6	69.1	70.6	72.1	73.5	74.9	75.7	76.3	77.6	
25	72.1	74.3	76.5	78.6	80.6	82.6	84.5	86.4	88.3	90.1	91.9	93.6	94.6	95.4	97	
30	86.5	89.2	91.7	94.3	96.7	99.1	101.4	103.7	105.9	108.1	110.3	112.4	113.6	114.4	116.5	
35	100.9	104	107	110.1	112.8	115.6	118.3	121	123.6	126.1	128.9	131.1	132.5	133.5	135.9	
40	115.3	118.9	122.3	125.7	128.9	132.1	135.3	138.3	141.3	143.7	147	149.8	151.4	152.6	155.3	
50	144.2	148.6	152.9	157.1	161.2	165.2	169	172.8	176.6	180.2	183.8	187.3	189.3	190.7	194.1	
60	173	178.3	183.5	188.5	193.4	198.2	202.9	207.4	211.9	215.6	220.5	224.7	227.1	228.9	232.9	
70	201.8	208	214.1	219.9	225.7	231.2	236.7	242	247.2	252.3	257.3	262.2	265	267	271.7	
80	230.7	237.8	244.7	251.4	257.9	264.3	270.5	276.6	282.5	288.3	294	299.6	302.8	305.1	310.5	
90	259.5	267.5	275.2	282.8	290.1	297.3	304.3	311.1	317.8	324.4	330.8	337.1	340.7	343.3	349.4	

Nozzle Size	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	bar Mpa psi
	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	
	4351	4496	4641	4786	4931	5076	5221	5366	5511	5656	5802	5947	6092	6237	6382	
010	3.9	4.0	4.1	4.1	4.2	4.3	4.4	4.4	4.5	4.6	4.6	4.7	4.7	4.8	4.8	l/min
015	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.2	
020	7.9	8.0	8.2	8.3	8.4	8.5	8.6	8.8	8.9	9.0	9.1	9.2	9.3	9.5	9.6	
022	8.7	8.8	9.0	9.1	9.2	9.4	9.5	9.6	9.8	9.9	10.0	10.2	10.3	10.4	10.5	
025	9.9	10.0	10.2	10.4	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.5	11.7	11.8	12.0	
028	11.1	11.2	11.4	11.6	11.8	11.9	12.1	12.3	12.4	12.6	12.8	12.9	13.1	13.2	13.4	
030	11.8	12	12.2	12.4	12.6	12.8	13	13.2	13.3	13.5	13.7	13.8	14	14.2	14.3	
033	13	13.2	13.5	13.7	13.9	14.1	14.3	14.5	14.7	14.9	15	15.2	15.4	15.6	15.8	
035	13.8	14	14.3	14.5	14.7	14.9	15.1	15.3	15.6	15.8	16	16.2	16.3	16.5	16.7	
037	14.6	14.8	15.1	15.3	15.6	15.8	16	16.2	16.4	16.4	16.9	17.1	17.3	17.5	17.7	
040	15.8	16.1	16.3	16.6	16.8	17.1	17.3	17.5	17.8	18	18.2	18.5	18.7	18.9	19.1	
042	16.6	16.9	17.1	17.4	17.7	17.9	18.2	18.4	18.7	18.9	19.1	19.4	19.6	19.9	20.1	
045	17.8	18.3	18.6	18.9	19.2	19.5	19.7	20	20.3	20.5	20.8	21	21.2	21.5	21.7	
050	19.7	20.1	20.4	20.7	21	21.3	21.6	21.9	22.2	22.5	22.8	23.1	23.4	23.6	23.9	
053	20.9	21.3	21.6	21.9	22.3	22.6	22.9	23.2	23.6	23.9	24.2	24.5	24.8	25.1	25.3	
055	21.7	22.1	22.4	22.8	23.1	23.5	23.8	24.1	24.4	24.8	25.1	25.4	25.7	26	26.3	
058	22.9	23.3	23.6	24	24.4	24.7	25.1	25.4	25.8	26.1	26.4	26.8	27.1	27.4	27.7	
060	23.7	24.1	24.5	24.8	25.2	25.6	25.9	26.3	26.7	27	27.4	27.7	28	28.4	28.7	
065	25.7	26.1	26.5	26.9	27.3	27.7	28.1	28.5	28.9	29.3	29.6	30	30.4	30.7	31.1	
070	27.6	28.1	28.5	29	29.4	29.9	30.3	30.8	31.1	31.5	31.9	32.3	32.7	33.1	33.5	
075	29.6	30.1	30.6	31.1	31.5	32	32.4	32.9	33.3	33.8	34.2	34.6	35	35.5	35.9	
080	31.6	32.1	32.6	33.1	33.6	34.1	34.6	35.1	35.6	36	36.5	36.9	37.4	37.8	38.3	
085	33.6	34.1	34.7	35.2	35.7	36.2	36.8	37.3	37.8	38.3	38.8	39.3	39.7	40.2	40.6	
090	35.5	36.1	36.7	37.3	37.8	38.4	38.9	39.5	40	40.5	41	41.5	42	42.5	43	
10	39.5	40.1	40.8	41.4	42	42.6	43.2	43.8	44.4	45	45.6	46.2	46.7	47.3	47.8	
11	43.4	44.1	44.9	45.5	46.2	46.9	47.6	48.2	48.9	49.5	50.1	50.8	51.4	52	52.6	
12	47.4	48.2	48.9	49.7	50.4	51.2	51.9	52.6	53.3	54	54.7	55.4	56.1	56.7	57.4	
15	59.2	60.2	61.2	62.1	63	64	64.9	65.8	66.7	67.5	68.4	69.2	70.1	70.9	71.7	
20	79	80.3	81.6	82.4	84.1	85.3	86.5	87.7	88.9	90.2	91.2	92.3	93.4	94.5	95.6	
25	98.7	100.3	101.9	103.5	105.1	106.6	108.1	109.6	111.1	112.5	114	115.4	116.8	118.2	119.5	
30	118.4	120.4	122.3	124.2	126.1	127.9	129.7	131.5	133.3	135	136.8	138.5	140.1	141.8	143.4	
35	138.2	140.5	142.7	144.9	147.1	149.3	151.4	153.5	155.5	157.6	159.6	161.5	163.5	165.4	167.3	
40	157.9	160.5	163.1	165.6	168.1	170.6	173.1	175.4	177.7	180.1	182.4	184.6	186.9	189.1	191.3	
50	197.4	200.7	203.9	207	210.2	213.2	216.2	219.2	222.2	225.1	227.9	230.8	233.6	236.3	239.1	
60	236.9	240.8	244.7	248.4	252.2	255.9	259.5	263.1	266.6	270.1	273.5	276.9	280.3	283.6	286.9	
70	276.4	280.9	285.4	289.9	294.2	298.5	302.7	306.9	311	315.1	319.1	323.1	327	330.9	334.7	
80	315.8	321.1	326.2	331.3	336.2	341.2	346	350.8	355.5	360.1	364.7	369.2	373.7	378.1	382.5	
90	355.3	361.2	367	372.7	378.3	383.8	389.2	394.6	399.9	405.1	410.2	415.4	420.4	425.4	430.3	

Nozzle Size	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	bar Mpa psi
	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	
	6527	6672	6817	6962	7107	7252	7397	7542	7687	7832	7977	8122	8267	8412	8557	
010	4.8	4.9	4.9	4.9	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.4	5.4	5.5	5.5	l/min
015	7.3	7.3	7.4	7.5	7.6	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.2	8.2	8.3	
020	9.7	9.8	9.9	10.1	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	
022	10.6	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.7	11.8	11.9	12.0	12.1	12.2	
025	12.1	12.2	12.4	12.5	12.6	12.7	12.9	13.0	13.1	13.2	13.4	13.5	13.6	13.7	13.8	
028	13.5	13.7	13.8	14	14.1	14.3	14.4	14.6	14.7	14.8	15	15.1	15.2	15.4	15.5	
030	14.5	14.7	14.8	15	15.1	15.3	15.4	15.6	15.7	15.9	16	16.2	16.3	16.5	16.6	
033	16	16.1	16.3	16.5	16.7	16.8	17	17.2	17.3	17.5	17.6	17.8	18	18.1	18.3	
035	16.9	17.1	17.3	17.5	17.7	17.8	18	18.2	18.4	18.5	18.7	18.9	19	19.2	19.4	
037	17.9	18.1	18.3	18.5	18.7	18.9	19	19.2	19.4	19.6	19.8	20	20.1	20.3	20.5	
040	19.3	19.6	19.8	20	20.2	20.4	20.6	20.8	21	21.2	21.4	21.6	21.8	22	22.1	
042	20.3	20.5	20.8	21	21.2	21.4	21.6	21.8	22	22.2	22.5	22.7	22.9	23.1	23.3	
045	21.8	22	22.2	22.5	22.7	22.9	23.2	23.4	23.6	23.8	24.1	24.3	24.5	24.7	24.9	
050	24.2	24.4	24.7	25	25.2	25.5	25.7	26	26.2	26.5	26.7	27	27.2	27.4	27.7	
053	25.6	25.9	26.2	26.5	26.7	27	27.3	27.5	27.8	28.1	28.3	28.6	28.8	29.1	29.3	
055	26.6	26.9	27.2	27.5	27.8	28	28.3	28.6	28.9	29.1	29.4	29.7	29.9	30.2	30.5	
058	28	28.4	28.7	29	29.3	29.6	29.9	30.1	30.4	30.7	31	31.3	31.6	31.8	32.1	
060	29	29.3	29.6	30	30.3	30.6	30.9	31.2	31.5	31.8	32.1	32.4	32.7	32.9	33.2	
065	31.4	31.8	32.1	32.5	32.8	33.1	33.5	33.8	34.1	34.4	34.7	35.1	35.4	35.7	36	
070	33.8	34.2	34.6	35	35.3	35.7	36	36.4	36.7	37.1	37.4	37.8	38.1	38.4	38.8	
075	36.3	36.7	37.1	37.5	37.8	38.2	38.6	39	39.4	39.7	40.1	40.5	40.8	41.2	41.5	
080	38.7	39.1	39.5	40	40.4	40.8	41.2	41.6	42	42.4	42.8	43.2	43.5	43.9	44.3	
085	41.1	41.6	42	42.4	42.9	43.3	43.8	44.2	44.6	45	45.4	45.8	46.3	46.7	47.1	
090	43.5	44	44.5	44.9	45.4	45.9	46.3	46.8	47.2	47.7	48.1	48.5	49	49.4	49.8	
10	48.4	48.9	49.4	49.9	50.5	51	51.5	52	52.5	53	53.5	53.9	54.4	54.9	55.4	
11	53.2	53.8	54.4	54.9	55.5	56.1	56.6	57.2	57.7	58.3	58.8	59.3	59.9	60.4	60.9	
12	58	58.7	59.3	59.9	60.5	61.2	61.8	62.4	63	63.6	64.1	64.7	65.3	65.9	66.4	
15	72.5	73.3	74.1	74.9	75.7	76.5	77.2	78	78.7	79.5	80.2	80.9	81.6	82.3	83.1	
20	96.7	97.8	98.8	99.9	101	102	103	104	105	106	107	108	109.2	110.7	112	
25	120.9	122.2	123.5	124.8	126.1	127.4	128.7	129.9	131.2	132.4	133.6	134.9	136.1	137.2	138.4	
30	145.1	146.7	148.2	149.8	151.4	152.9	154.4	155.9	157.4	158.9	160.4	161.8	163.3	164.7	166.1	
35	169.2	171.1	173	174.8	176.6	178.4	180.2	181.9	183.7	185.4	187.1	188.8	190.5	192.1	193.8	
40	193.4	195.6	197.7	199.7	201.8	203.9	205.9	207.9	209.9	211.9	213.8	215.8	217.7	219.6	221.5	
50	241.8	244.4	247.1	249.7	252.3	254.8	257.4	259.9	262.4	264.8	267.3	269.7	272.1	274.5	276.8	
60	290.1	292.9	295.6	298.3	301	302.7	305.8	308.9	311.9	314.9	317.8	320.7	323.6	326.5	329.4	
70	338.5	342.2	345.9	349.5	353.2	356.8	360.3	363.9	367.3	370.8	374.2	377.6	380.9	384.3	387.6	
80	386.8	391.1	395.3	399.5	403.7	407.8	411.8	415.8	419.8	423.8	427.7	431.5	435.4	439.2	442.9	
90	435.2	440	444.7	449.5	454.1	458.7	463.3	467.8	472.3	476.7	481.1	485.5	489.7	494.1	498.3	

Nozzle Size	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	bar Mpa psi
	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	
	8702	8847	8992	9137	9282	9427	9573	9718	9863	10008	10153	10298	10443	10588	10733	
010	5.6	5.6	5.7	5.7	5.8	5.8	5.9	5.9	5.9	6.0	6.0	6.1	6.1	6.2	6.2	l/min
015	8.4	8.4	8.5	8.6	8.6	8.7	8.8	8.9	8.9	9.0	9.0	9.1	9.2	9.2	9.3	
020	11.2	11.3	11.4	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.1	12.2	12.3	12.4	
022	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.5	13.6	
025	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.8	14.9	15.0	15.1	15.2	15.3	15.4	15.5	
028	15.6	15.8	15.9	16	16.1	16.3	16.4	16.5	16.6	16.8	16.9	17	17.1	17.2	17.4	
030	16.8	16.9	17	17.2	17.3	17.4	17.6	17.7	17.8	18	18.1	18.2	18.3	18.5	18.6	
033	18.4	18.6	18.7	18.8	19	19.2	19.3	19.5	19.6	19.8	19.9	20	20.2	20.3	20.5	
035	19.5	19.7	19.9	20	20.2	20.3	20.5	20.7	20.8	21	21.1	21.3	21.4	21.6	21.7	
037	20.7	20.8	21	21.2	21.3	21.5	21.7	21.8	22	22.2	22.3	22.5	22.6	22.8	22.9	
040	22.3	22.5	22.7	22.9	23.1	23.2	23.4	23.6	23.8	24	24.1	24.3	24.5	24.6	24.8	
042	23.5	23.6	23.8	24	24.2	24.4	24.6	24.8	25	25.1	25.3	25.5	25.7	25.9	26	
045	25.1	25.3	25.5	25.7	25.9	26.2	26.4	26.6	26.7	26.9	27.1	27.3	27.5	27.7	27.9	
050	27.9	28.1	28.4	28.6	28.8	29.1	29.3	29.5	29.7	29.9	30.2	30.4	30.6	30.8	31	
053	29.6	29.8	30.1	30.3	30.6	30.8	31	31.3	31.5	31.7	32	32.2	32.4	32.6	32.9	
055	30.7	31	31.2	31.5	31.7	32	32.2	32.5	32.7	32.9	33.2	33.3	33.4	33.6	33.9	
058	32.4	32.7	32.9	33.2	33.4	33.7	33.9	34.2	34.5	34.7	35	35.2	35.5	35.7	36	
060	33.5	33.8	34.1	34.3	34.6	34.9	35.1	35.4	35.7	35.9	36.2	36.4	36.7	37	37.2	
065	36.3	36.6	36.9	37.2	37.5	37.8	38.1	38.4	38.6	38.9	39.2	39.5	39.8	40	40.3	
070	39.1	39.4	39.7	40	40.4	40.7	41	41.3	41.6	41.9	42.2	42.5	42.8	43.1	43.4	
075	41.9	42.2	42.6	42.9	43.2	43.6	43.9	44.3	44.6	44.9	45.2	45.6	45.9	46.2	46.5	
080	44.7	45	45.4	45.8	46.1	46.5	46.8	47.2	47.6	47.9	48.2	48.6	48.9	49.3	49.6	
085	47.5	47.9	48.2	48.6	49	49.4	49.8	50.2	50.5	50.9	51.3	51.6	52	52.3	52.7	
090	50.3	50.7	51.1	51.5	51.9	52.3	52.7	53.1	53.5	53.9	54.3	54.7	55	55.4	55.8	
10	55.8	56.3	56.8	57.2	57.7	58.1	58.6	59	59.4	59.9	60.3	60.7	61.2	61.6	62	
11	61.4	61.9	62.4	62.9	63.4	63.9	64.4	64.9	65.4	65.9	66.3	66.8	67.3	67.7	68.2	
12	67	67.6	68.1	68.7	69.2	69.7	70.3	70.8	71.3	71.9	72.4	72.9	73.4	73.9	74.4	
15	83.8	84.4	85.1	85.8	86.5	87.2	87.8	88.5	89.2	89.8	90.5	91.1	91.7	92.4	93	
20	111.7	112.6	113.5	114.4	115.3	116.2	117.1	118	118.9	119.8	120.6	121.5	122.3	123.2	124	
25	139.6	140.7	141.9	143	144.2	145.3	146.4	147.5	148.6	149.7	150.8	151.8	152.9	154	155	
30	167.5	168.9	170.3	171.6	173	174.3	175.7	177	178.3	179.6	180.9	182.2	183.5	184.8	186	
35	195.4	197	198.6	200.2	201.8	203.4	205	206.5	208	209.6	211.1	212.6	214.1	215.6	217	
40	223.3	225.2	227	228.9	230.7	232.5	234.2	236	237.8	239.5	241.2	242.9	244.7	246.3	248	
50	279.2	281.5	283.8	286.1	288.3	290.6	292.8	295	297.2	299.4	301.5	303.7	305.8	307.9	310	
60	335	337.8	340.5	343.3	346	348.7	351.4	354	356.6	359.3	361.8	364.4	367	369.5	372	
70	390.8	394.1	397.3	400.5	403.7	406.8	409.9	413	416.1	419.1	422.2	425.2	428.1	431.1	434	
80	446.7	450.4	454.1	457.7	461.3	464.9	468.5	472	475.5	479	482.5	485.9	489.3	492.7	496.1	
90	502.5	506.7	510.8	514.9	519	523	527	531	535	538.9	542.8	546.6	550.5	554.3	558.1	

Nozzle Size	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	bar
	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	Mpa
	10878	11023	11168	11313	11458	11603	11748	11893	12038	12183	12328	12473	12618	12763	12908	13053	psi
010	6.2	6.3	6.3	6.4	6.4	6.4	6.5	6.5	6.6	6.6	6.6	6.7	6.7	6.8	6.8	6.8	l/min
015	9.4	9.4	9.5	9.6	9.7	9.7	9.8	9.9	9.9	10.0	10.0	10.1	10.2	10.2	10.3	10.3	
020	12.5	12.6	12.7	12.7	12.8	12.9	13.0	13.1	13.1	13.2	13.3	13.4	13.5	13.5	13.6	13.7	
022	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.4	14.5	14.6	14.7	14.8	14.9	15.0	15.0	
025	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	17.0	17.1	
028	17.5	17.6	17.7	17.8	17.9	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	19	19.1	
030	18.7	18.9	19	19.1	19.2	19.3	19.5	19.6	19.7	19.8	19.9	20.1	20.2	20.3	20.4	20.5	
033	20.6	20.7	20.9	21	21.1	21.3	21.4	21.5	21.7	21.8	21.9	22.1	22.2	22.3	22.4	22.6	
035	21.8	22	22.1	22.3	22.4	22.6	22.7	22.8	23	23.1	23.3	23.4	23.5	23.7	23.8	23.9	
037	23.1	23.3	23.4	23.6	23.7	23.9	24	24.2	24.3	24.4	24.6	24.7	24.9	25	25.2	25.3	
040	25	25.1	25.3	25.5	25.6	25.8	25.9	26.1	26.3	26.4	26.6	26.7	26.9	27	27.2	27.4	
042	26.2	26.4	26.6	26.7	26.9	27.1	27.2	27.4	27.6	27.7	27.9	28.1	28.2	28.4	28.6	28.7	
045	28.1	28.3	28.5	28.6	28.8	29	29.2	29.4	29.6	29.7	29.9	30.1	30.3	30.4	30.6	30.8	
050	31.2	31.4	31.6	31.8	32	32.2	32.4	32.6	32.8	33	33.2	33.4	33.6	33.8	34	34.2	
053	33.1	33.3	33.5	33.7	34	34.2	34.4	34.6	34.8	35	35.2	35.4	35.6	35.8	36	36.2	
055	34.3	34.6	34.8	35	35.2	35.5	35.7	35.9	36.1	36.3	36.6	36.8	37	37.2	37.4	37.6	
058	36.2	36.4	36.7	36.9	37.2	37.4	37.7	37.9	38.1	38.3	38.5	38.8	39	39.2	39.4	39.7	
060	37.5	37.7	38	38.2	38.4	38.7	38.9	39.2	39.4	39.6	39.9	40.1	40.3	40.6	40.8	41	
065	40.6	40.8	41.1	41.4	41.6	41.9	42.2	42.4	42.7	42.9	43.2	43.4	43.7	44	44.2	44.4	
070	43.7	44	44.3	44.6	45.1	45.4	45.7	46	46.2	46.5	46.9	47.1	47.4	47.6	47.9	48.2	
075	46.8	47.1	47.4	47.7	48.1	48.4	48.7	49	49.3	49.6	49.8	50.1	50.4	50.7	51	51.3	
080	49.9	50.3	50.6	50.9	51.3	51.6	51.9	52.2	52.5	52.9	53.2	53.5	53.8	54.1	54.4	54.7	
085	53.1	53.4	53.8	54.1	54.5	54.8	55.1	55.5	55.8	56.2	56.5	56.8	57.1	57.5	57.8	58.1	
090	56.2	56.6	56.9	57.3	57.7	58	58.4	58.7	58.9	59.3	59.6	60.2	60.5	60.9	61.2	61.5	
10	62.4	62.8	63.6	63.7	64.1	64.5	64.9	65.3	65.7	66.1	66.5	66.8	67.2	67.6	68	68.4	
11	68.7	69.1	69.6	70	70.5	70.9	71.4	71.8	72.2	72.7	73.1	73.5	74	74.4	74.8	75.2	
12	74.9	75.4	75.9	76.4	76.9	77.4	77.8	78.3	78.9	79.3	79.7	80.2	80.7	81.1	81.6	82.1	
15	93.6	94.3	94.9	95.5	96.1	96.7	97.3	97.9	98.5	99.1	99.7	100.3	100.8	101.4	102	102.6	
20	124.8	125.7	126.5	127.3	128.1	128.9	129.8	130.6	131.3	132	132.7	133.5	134.2	135	135.7	136.3	
25	156.1	157.1	158.1	159.2	160.2	161.2	162.2	163.2	164.2	165.2	166.1	167.1	168.1	169	170.1	171	
30	187.3	188.5	189.8	191	192.2	193.4	194.6	195.8	197	198.2	199.4	200.5	201.7	202.9	204	205.1	
35	218.5	219.9	221.4	222.8	224.2	225.7	227.1	228.5	229.8	231.2	232.6	234	235.3	236.7	238	239.3	
40	249.7	251.4	253	254.6	256.3	257.9	259.5	261.1	262.7	264.3	265.8	267.4	268.9	270.5	272	273.5	
50	312.1	314.2	316.3	318.3	320.3	322.4	324.4	326.4	328.3	330.2	332.3	334.2	336.2	338.1	340	341.9	
60	374.5	377	379.5	382	384.4	386.9	389.2	391.4	393.6	395.8	398	400.1	402.4	404.5	406.7	408.9	
70	437	439.9	442.8	445.7	448.5	451.3	454.1	456.9	459.7	462.4	465.2	467.9	470.6	473.3	476	478.7	
80	499.4	502.7	506	509.3	512.5	515.8	519	522.2	525.4	528.5	531.6	534.8	537.9	540.9	544	547.1	
90	561.8	565.6	569.3	572.9	576.5	580.2	583.9	587.5	591	594.6	598.1	601.6	605.1	608.6	612	615.4	