Tertech

Flatspyledyser

Design feature:

- Flat spray pattern distributes the liquid as a flat- or sheet-type spray.
- Small-to medium-sized drops.
- Uniform distribution over a wide range of flow rates and pressures.
- Spray angles available from 0° (solid stream) to 110° at 40 psi (2.8 bar).
- Specially tapered spray pattern is ideal for use in manifold and header applications.
- High impact solid stream provides highest impact per unit area.
- Unobstructed flow passages minimize clogging.

H-U

1 gpm (3.9 l/min) and above at
2.8 bar（40 psi）
1/8" to 3/4" NPT or BSPT (M)

U

40 gpm (152 l/min) and above at
2.8 bar（40 psi）
1" to 2" NPT or BSPT (M)

H-VV

1 gpm (3.9 l/min) and above at
2.8 bar（40 psi）
1/8" to 3/4" NPT or BSPT (M)

H-VVL

Integral strainer
1/8" to 1/4" NPT or BSPT (M)

Common application:

- Conveyor cleaning
- Cooling and quenching
- Dust control
- Fire suppression/prevention
- Gas washing
- Liquor washers
- Scrubbers
- Washing/rinsing
- Water cooling

Dimension and weight

Standard	Nozzle Type	Inlet Conn. (in.)	Length (mm)	Hex. (mm)	Net weight (kg)
	H-VV (M)	1/8	22	12.7	.02
		1/4	23	14.3	.03
	H-VVL (M)	1/8	36	12.7	0.2
		1/4	38	14.3	0.3
	H-U (M)	1/8	22	12.7	.02
		1/4	25	14.3	.03
		3/8	32	17.5	.04
		1/2	38	22.2	.06
		3/4	51	27	.14
	U (M)	1	64	33.3 dia	.26
		1-1/4	95	45.9 dia	.57
		2	127	60.3 dia	1.9

Based on largest/heaviest version of each type.

Material

Material	Material Code	Nozzle Type			
		H-VV	H-VVL	H-U	U
Brass	(none)	●	●	●	●
303 Stainless Steel	SS	●	●	●	●
316 Stainless Steel	316SS	●	●	●	●

Other materials available upon request.

Ordering information:

H	1/4	VV-	SS	110	10
Nozzle Prefix	Inlet Conn.	Nozzle Type	Material Code	Spray Angle	Capacity Size

BSPT connections require the addition of a “B” prior to the inlet connection.

Performance data At the stated pressure in bar.

Spray Angle at 3 bar	Nozzle Type/(in.) H-W 1/8	H-W 1/4	H-WL 1/8	H-WL 1/4	Capacity Size	Equiv. Orifice Dia.	Flow rate (l/min)* 0.4	0.7	1.5	2	3	35	Spray angle (°)* 1.5	3	6	15
110°	●	●	●	●	01	.66	.14	0.19	.28	.32	.39	1.3	94	110	121	124
	●	●	●	●	015	.81	.22	.29	.42	.48	.59	2.0	97	110	121	124
	●	●	●	●	02	.89	.29	.38	.56	.64	.79	2.7	98	110	120	123
	●	●	●	●	03	1.1	.43	.57	.84	.97	1.2	4.0	99	110	120	123
	●	●	●	●	04	1.3	.58	.76	1.1	1.3	1.6	5.4	100	110	119	122
	●	●	●	●	05	1.4	.72	.95	1.4	1.6	2.0	6.7	100	110	118	122
	●	●	●	●	06	1.5	.86	1.1	1.7	1.9	2.4	8.1	101	110	117	122
	●	●	●	●	08	1.8	1.2	1.5	2.2	2.6	3.2	10.8	102	110	117	121
	●	●	●	●	10	2.0	1.4	1.9	2.8	3.2	3.9	13.5	103	110	117	119
	●	●	●	●	15	2.4	2.2	2.9	4.2	4.8	5.9	20	104	110	117	118
95°	●		●		0050	.46	—	—	.14	.16	.20	.67	81	95	105	113
	●	●	●	●	01	.66	.14	.19	.28	.32	.39	1.3	81	95	105	113
	●		●	●	015	.81	.22	.29	.42	.48	.59	2.0	82	95	105	113
	●	●	●	●	02	.89	.29	.38	.56	.64	.79	2.7	82	95	105	113
	●	●	●	●	03	1.1	.43	.57	.84	.97	1.2	4.0	83	95	104	111
	●	●	●	●	04	1.3	.58	.76	1.1	1.3	1.6	5.4	84	95	103	108
	●	●	●	●	05	1.4	.72	.95	1.4	1.6	2.0	6.7	84	95	102	107
	●	●	●	●	06	1.5	.86	1.1	1.7	1.9	2.4	8.1	86	95	101	106
	●				065	1.6	.94	1.2	1.8	2.1	2.6	8.8	86	95	101	106
	●	●	●	●	08	1.8	1.2	1.5	2.2	2.6	3.2	10.8	87	95	100	105
80°	●	●	●	●	01	.66	—	.19	.28	.32	.39	1.3	68	80	89	92
		●	●	●	015	.81	—	.29	.42	.48	.59	2.0	68	80	89	92
	●	●	●	●	02	.89	.29	.38	.56	.64	.79	2.7	69	80	88	91
	●	●	●	●	03	1.1	.43	.57	.84	.97	1.2	4.0	70	80	87	90
	●	●	●	●	04	1.3	.58	.76	1.1	1.3	1.6	5.4	71	80	86	89
	●	●	●	●	05	1.4	.72	.95	1.4	1.6	2.0	6.7	71	80	86	89
	●	●	●	●	06	1.5	.86	1.1	1.7	1.9	2.4	8.1	72	80	85	88
	●				07	1.7	1.0	1.3	2.0	2.3	2.8	9.4	72	80	85	88
	●	●	●	●	08	1.8	1.2	1.5	2.2	2.6	3.2	10.8	72	80	84	87
		●		●	09	1.9	1.3	1.7	2.5	2.9	3.6	12.1	73	80	84	87
73°	●	●	●	●	0154	.81	.22	.29	.43	.50	.61	2.1	55	73	84	88
		●		●	0231	.97	.33	.44	.64	.74	.91	3.1	56	73	83	87
	●	●	●	●	0308	1.2	.44	.59	.86	.99	1.2	4.2	58	73	82	86
		●		●	0462	1.4	.67	.88	1.3	1.5	1.8	6.2	60	73	80	84
	●		●		0770	1.8	1.1	1.5	2.1	2.5	3.0	10.4	64	73	77	82
65°	●	●	●	●	01	.66	—	.19	.28	.32	.39	1.3	51	65	74	80
	●	●	●	●	015	.81	—	.29	.42	.48	.59	2.0	51	65	74	80
	●	●	●	●	02	.89	.29	.38	.56	.64	.79	2.7	52	65	73	79
	●		●		025	.99	.36	.48	.70	.81	.99	3.4	52	65	73	79
	●	●	●	●	03	1.1	.43	.57	.84	.97	1.2	4.0	53	65	72	78
	●	●	●	●	04	1.3	.58	.76	1.1	1.3	1.6	5.4	53	65	72	76
	●	●	●	●	05	1.4	.72	.95	1.4	1.6	2.0	6.7	53	65	72	76
		●			055	1.5	.79	1.0	1.5	1.8	2.2	7.4	53	65	72	76
	●	●		●	06	1.5	.86	1.1	1.7	1.9	2.4	8.1	54	65	72	75
		●			07	1.7	1.0	1.3	2.0	2.3	2.8	9.4	54	65	71	75
	●	●	●	●	08	1.8	1.2	1.5	2.2	2.6	3.2	10.8	55	65	71	74
	●				09	1.9	1.3	1.7	2.5	2.9	3.6	12.1	55	65	71	74

Performance data At the stated pressure in bar.

Spray Angle at 3 bar	Nozzle Type/(in.) H-VV 1/8	H-VV 1/4	H-VVL 1/8	H-VVL 1/4	Capacity Size	Equiv. Orifice Dia. (mm)	Flow rate (l/min)* 0.4	0.7	1.5	2	3	3.5	Spray angle (°)* 1.5	3	6	15
50°	●	●	●	●	01	.66	—	.19	.28	.32	.39	1.3	37	50	59	65
	●	●	●	●	02	.89	—	.38	.56	.64	.79	2.7	39	50	56	63
	●	●	●	●	03	1.1	.43	.57	.84	.97	1.2	4.0	40	50	56	62
	●	●	●	●	04	1.3	.58	.76	1.1	1.3	1.6	5.4	42	50	56	61
	●	●	●	●	05	1.4	.72	.95	1.4	1.6	2.0	6.7	44	50	56	61
	●				055	1.5	.79	1.0	1.5	1.8	2.2	7.4	44	50	56	61
	●	●	●	●	06	1.5	.86	1.1	1.7	1.9	2.4	8.1	45	50	56	60
	●	●			07	1.7	1.0	1.3	2.0	2.3	2.8	9.4	45	50	56	60
	●	●	●	●	08	1.8	1.2	1.5	2.2	2.6	3.2	10.8	45	50	55	60
		●			09	1.9	1.3	1.7	2.5	2.9	3.6	12.1	45	50	55	59
40°	●	●	●	●	01	.66	—	—	.28	.32	.39	1.3	26	40	52	59
	●	●	●	●	015	.81	—	—	.42	.48	.59	2.0	27	40	52	59
	●	●	●	●	02	.89	—	.38	.56	.64	.79	2.7	29	40	51	58
	●	●	●	●	03	1.1	—	.57	.84	.97	1.2	4.0	30	40	50	57
	●	●	●	●	04	1.3	—	.76	1.1	1.3	1.6	5.4	30	40	50	56
	●	●	●	●	05	1.4	—	.95	1.4	1.6	2.0	6.7	31	40	49	55
	●	●			055	1.5	—	1.0	1.5	1.8	2.2	7.4	31	40	49	55
	●	●	●	●	06	1.5	—	1.1	1.7	1.9	2.4	8.1	31	40	49	55
	●	●			065	1.6	—	1.2	1.8	2.1	2.6	8.8	31	40	48	54
	●	●			07	1.7	—	1.3	2.0	2.3	2.8	9.4	31	40	48	54
	●	●	●	●	08	1.8	1.2	1.5	2.2	2.6	3.2	10.8	31	40	47	53
	●				085	1.8	1.2	1.6	2.4	2.7	3.4	11.5	32	40	46	50
	●	●			09	1.9	1.2	1.7	2.5	2.9	3.6	12.1	32	40	46	50
25°	●	●	●	●	01	.66	—	—	.28	.32	.39	1.3	14	25	34	42
	●	●	●	●	02	.89	—	—	.56	.64	.79	2.7	15	25	33	40
	●	●	●	●	03	1.1	—	—	.84	.97	1.2	4.0	15	25	33	40
	●	●	●	●	04	1.3	—	.76	1.1	1.3	1.6	5.4	16	25	32	39
				●	045	1.3	—	.86	1.3	1.5	1.8	6.1	16	25	32	39
	●	●	●	●	05	1.4	—	.95	1.4	1.6	2.0	6.7	16	25	32	39
	●	●			055	1.5	—	1.0	1.5	1.8	2.2	7.4	16	25	31	38
	●	●	●	●	06	1.5	—	1.1	1.7	1.9	2.4	8.1	17	25	31	38
	●	●			065	1.6	—	1.2	1.8	2.1	2.6	8.8	17	25	31	38
	●	●	●		07	1.7	—	1.3	2.0	2.3	2.8	9.4	17	25	31	38
	●	●			075	1.7	—	1.4	2.1	2.4	3.0	10.1	17	25	31	38
	●	●	●	●	08	1.8	—	1.5	2.2	2.6	3.2	10.8	17	25	31	38
	●				085	1.8	—	1.6	2.4	2.7	3.4	11.5	18	25	31	37
	●	●			09	1.9	—	1.7	2.5	2.9	3.6	12.1	17	25	31	37
					15	2.4	—	2.9	4.2	4.8	5.9	20	18	25	31	37
15°	●	●		●	01	.66	—	—	—	.32	.39	1.3	—	15	24	28
	●		●		02	.89	—	—	.56	.64	.79	2.7	6	15	22	27
	●	●	●	●	03	1.1	—	—	.84	.97	1.2	4.0	6	15	22	27
	●	●	●	●	04	1.3	—	—	1.1	1.3	1.6	5.4	7	15	21	26
	●	●	●	●	05	1.4	—	—	1.4	1.6	2.0	6.7	7	15	21	26
	●	●			055	1.5	—	1.0	1.5	1.8	2.2	7.4	7	15	21	26
	●	●	●	●	06	1.5	—	1.1	1.7	1.9	2.4	8.1	8	15	21	26
	●	●			065	1.6	—	1.2	1.8	2.1	2.6	88	8	15	20	25
		●			07	1.7	—	1.3	2.0	2.3	2.8	9.4	8	15	20	25
	●	●	●	●	08	1.8	—	1.5	2.2	2.6	3.2	10.8	9	15	20	25
	●	●			085	1.8	—	1.6	2.4	2.7	3.4	11.5	9	15	19	24
	●	●			09	1.9	—	1.7	2.5	2.9	3.6	12.1	9	15	19	24

Performance data

At the stated pressure in bar.

Spray Angle at 3 bar	Nozzle Type/(in.) Inlet Conn. (in.)								Kap	Equiv. Orifice Dia. (mm)	Flow rate (l/min)*											Spray angle (°)*			
	H-U					U																				
	1/8	1/4	3/8	1/2	3/4	1	1 1/4	2			0.4	0.7	1.5	2	3	4	6	7	15	20	35	1.5	3	6	15
50°									02	.89	.29	.38	.56	.64	.79	.91	1.1	1.2	1.8	2.0	2.7	39	50	57	68
									03	1.1	.43	.57	.84	.97	1.2	1.4	1.7	1.8	2.6	3.1	4.0	40	50	56	63
									04	1.3	.58	.76	1.1	1.3	1.6	1.8	2.2	2.4	3.5	4.1	5.4	42	50	56	62
									05	1.4	.72	.95	1.4	1.6	2.0	2.3	2.8	3.0	4.4	5.1	6.7	44	50	56	61
									055	1.5	.79	1.0	1.5	1.8	2.2	2.5	3.1	3.3	4.9	5.6	7.4	44	50	56	61
									06	1.5	.86	1.1	1.7	1.9	2.4	2.7	3.4	3.6	5.3	6.1	8.1	45	50	56	61
									07	1.7	1.0	1.3	2.0	2.3	2.8	3.2	3.9	4.2	6.2	7.1	9.4	45	50	56	60
									08	1.8	1.2	1.5	2.2	2.6	3.2	3.6	4.5	4.8	7.1	8.2	10.8	45	50	55	60
	●	●	●		●				10	2.0	1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	13.5	45	50	55	60
		●	●	●	●				15	2.4	2.2	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	20	45	50	55	59
	●	●	●	●	●				20	2.8	2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20	27	45	50	55	59
	●	●	●	●	●				30	3.4	4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	26	31	40	45	50	55	59
	●	●	●		●				40	3.9	5.8	7.6	11.2	12.9	15.8	18.2	22	24	35	41	54	46	50	54	59
	●	●	●		●				50	4.4	7.2	9.5	14.0	16.1	19.7	23	28	30	44	51	67	46	50	54	59
		●	●		●				60	4.8	8.6	11.4	16.8	19.3	24	27	34	36	53	61	81	46	50	54	59
		●	●	●	●				70	5.1	10.1	13.3	19.5	23	28	32	39	42	62	71	94	46	50	54	59
		●	●						80	5.5	11.5	15.3	22	26	32	36	45	48	71	82	108	45	50	53	58
			●						85	5.7	12.3	16.2	24	27	34	39	47	51	75	87	115	45	50	53	57
		●							90	5.8	13.0	17.2	25	29	36	41	50	54	79	92	121	45	50	53	56
			●	●					100	6.2	14.4	19.1	28	32	39	46	56	60	88	102	135	44	50	52	54
			●						110	6.5	15.9	21	31	35	43	50	61	66	97	112	148	45	50	53	54
			●						120	6.7	17.3	23	34	39	47	55	67	72	106	122	162	45	50	53	55
			●						135	7.2	19.5	26	38	44	53	62	75	81	119	138	182	46	50	52	55
			●	●					150	7.5	22	29	42	48	59	68	84	90	132	153	202	46	50	52	55
				●					200	8.7	29	38	56	64	79	91	112	121	177	204	270	46	50	52	55
				●					250	9.7	36	48	70	81	99	114	140	151	221	255	337	49	50	52	55
									400	12.0	58	76	112	129	158	182	223	241	353	408	539	49	50	52	55
						●	●		500	13.4	72	95	140	161	197	228	279	302	441	510	674	49	50	51	54
						●			580	14.5	84	111	162	187	229	264	324	350	512	591	782	49	50	51	54
							●		750	16.4	108	143	209	242	296	342	419	452	662	765	1011	49	50	51	53
							●		1000	19.0	144	191	279	322	395	456	558	603	883	1019	1349	49	50	51	53
								●	1500	23.2	216	286	419	484	592	684	838	905	1324	1529	2023	49	50	51	52
								●	2000	26.8	288	381	558	645	790	912	1117	1206	1766	2039	2697	49	50	51	52
40°		●	●						10	2.0	1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	13.5	32	40	45	48
	●	●	●	●					15	2.4	2.2	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	20	32	40	45	48
	●	●	●	●					20	2.8	2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20	27	32	40	45	48
	●	●	●						30	3.4	4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	26	31	40	33	40	45	48
	●	●	●						40	3.9	5.8	7.6	11.2	12.9	15.8	18.2	22	24	35	41	54	34	40	45	48
		●	●	●					50	4.4	7.2	9.5	14.0	16.1	19.7	23	28	30	44	51	67	35	40	45	48
		●	●	●					60	4.8	8.6	11.4	16.8	19.3	24	27	34	36	53	61	81	35	40	45	48
		●	●	●					70	5.2	10.1	13.3	19.5	23	28	32	39	42	62	71	94	35	40	45	48
		●							80	5.5	11.5	15.3	22	26	32	36	45	48	71	82	108	35	40	44	47
			●	●					100	6.2	14.4	19.1	28	32	39	46	56	60	88	102	135	34	40	43	46
			●	●					150	7.5	22	29	42	48	59	68	84	90	132	153	202	35	40	43	44
				●					200	8.7	29	38	56	64	79	91	112	121	177	204	270	36	40	42	44
						●			500	13.4	72	95	140	161	197	228	279	302	441	510	674	38	40	41	45

Performance data At the stated pressure in bar.

Spray Angle at 3 bar	Nozzle Type/(in.) Inlet Conn. (in.)								Kap	Equiv. Orifice Dia. (mm)	Flow rate (l/min)*												Spray angle (º)*			
	H-U					U																				
	1/8	1/4	3/8	1/2	3/4	1	1 1/4	2			0.4	0.7	1.5	2	3	4	6	7	15	20	35	1.5	3	6	15
25°	●	●							10	2.0	1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	13.5	18	25	31	37
	●	●	●						15	2.4	2.2	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	20	18	25	31	37
	●	●	●						20	2.8	2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20	27	19	25	31	37
	●	●	●						30	3.4	4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	26	31	40	20	25	30	36
		●	●						40	3.9	5.8	7.6	11.2	12.9	15.8	18.2	22	24	35	41	54	21	25	29	35
		●	●						50	4.4	7.2	9.5	14.0	16.1	19.7	23	28	30	44	51	67	21	25	29	35
		●	●						60	4.8	8.6	11.4	16.8	19.3	24	27	34	36	53	61	81	22	25	29	35
		●	●	●					70	5.2	10.1	13.3	19.5	23	28	32	39	42	62	71	94	22	25	29	35
			●	●					100	6.2	14.4	19.1	28	32	39	46	56	60	88	102	135	23	25	28	32
			●	●					150	7.5	22	29	42	48	59	68	84	90	132	153	202	24	25	28	30
				●					200	8.7	29	38	56	64	79	91	112	121	177	204	270	24	25	26	29
						●	●		500	13.4	72	95	140	161	197	228	279	302	441	510	674	24	25	26	29
							●		750	16.4	108	143	209	242	296	342	419	452	662	765	1011	24	25	26	28
							●		1000	19.0	144	191	279	322	395	456	558	603	883	1019	1349	24	25	26	28
15°	●								01	.66	.14	.19	.28	.32	.39	.46	.56	.60	.88	1.0	1.3	—	15	24	28
	●	●							10	2.0	1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	13.5	10	15	19	24
	●	●	●						15	2.4	2.2	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	20	10	15	19	24
	●	●	●						20	2.8	2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20	27	10	15	19	23
	●	●	●						30	3.4	4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	26	31	40	10	15	19	21
	●	●	●						40	3.9	5.8	7.6	11.2	12.9	15.8	18.2	22	24	35	41	54	10	15	18	21
		●	●	●					50	4.4	7.2	9.5	14.0	16.1	19.7	23	28	30	44	51	67	11	15	18	21
		●	●						60	4.8	8.6	11.4	16.8	19.3	24	27	34	36	53	61	81	11	15	18	21
		●	●	●					70	5.2	10.1	13.3	19.5	23	28	32	39	42	62	71	94	11	15	18	21
			●	●					100	6.2	14.4	19.1	28	32	39	46	56	60	88	102	135	13	15	17	18
			●						120	6.7	17.3	23	34	39	47	55	67	72	106	122	162	13	15	17	18
				●					150	7.5	22	29	42	48	59	68	84	90	132	153	202	14	15	17	18
				●					200	8.7	29	38	56	64	79	91	112	121	177	204	270	14	15	17	18
							●		500	13.4	72	95	140	161	197	228	279	302	441	510	674	14	15	16	17
							●		1000	19.0	144	191	279	322	395	456	558	603	883	1019	1349	14	15	16	17

Performance data At the stated pressure in bar.

Spray Angle at 3 bar	Nozzle Type/(in.) Inlet Conn. (in.)								Kap	Equiv. Orifice Dia. (mm)	Flow rate (l/min)*											Spray angle (º)*			
	H-U					U																			
	1/8	1/4	3/8	1/2	3/4	1	1 1/4	2			0.4	0.7	1.5	2	3	4	6	7	15	20	35	1.5	3	6	15
0°	●	●							03	1.2	.43	.57	.84	.97	1.2	1.4	1.7	1.8	2.6	3.1	4.0				
	●	●							04	1.4	.58	.76	1.1	1.3	1.6	1.8	2.2	2.4	3.5	4.1	5.4				
	●	●							05	1.6	.72	.95	1.4	1.6	2.0	2.3	2.8	3.0	4.4	5.1	6.7				
	●	●							055	1.7	.79	1.0	1.5	1.8	2.2	2.5	3.1	3.3	4.9	5.6	7.4				
	●	●							06	1.7	.86	1.1	1.7	1.9	2.4	2.7	3.4	3.6	5.3	6.1	8.1				
	●	●							065	1.8	.94	1.2	1.8	2.1	2.6	3.0	3.6	3.9	5.7	6.6	8.8				
		●							07	1.9	1.0	1.3	2.0	2.3	2.8	3.2	3.9	4.2	6.2	7.1	9.4				
	●	●							08	2.0	1.2	1.5	2.2	2.6	3.2	3.6	4.5	4.8	7.1	8.2	10.8				
	●								085	2.0	1.2	1.6	2.4	2.7	3.4	3.9	4.7	5.1	7.5	8.7	11.5				
	●	●							09	2.1	1.3	1.7	2.5	2.9	3.6	4.1	5.0	5.4	7.9	9.2	12.1				
	●	●							10	2.2	1.4	1.9	2.8	3.2	3.9	4.6	5.6	6.0	8.8	10.2	13.5				
		●							12	2.4	1.7	2.3	3.4	3.9	4.7	5.5	6.7	7.2	10.6	12.2	16.2				
	●	●							15	2.7	2.2	2.9	4.2	4.8	5.9	6.8	8.4	9.0	13.2	15.3	20				
	●	●							20	3.1	2.9	3.8	5.6	6.4	7.9	9.1	11.2	12.1	17.7	20	27				
	●	●							30	3.6	4.3	5.7	8.4	9.7	11.8	13.7	16.8	18.1	26	31	40				
	●	●							40	4.1	5.8	7.6	11.2	12.9	15.8	18.2	22	24	35	41	54				
		●							50	4.2	7.2	9.5	14.0	16.1	19.7	23	28	30	44	51	67				
		●							60	4.6	8.6	11.4	16.8	19.3	24	27	34	36	53	61	81	0° solid stream			
		●							70	5.0	10.1	13.3	19.5	23	28	32	39	42	62	71	94				
		●	●						80	5.3	11.5	15.3	22	26	32	36	45	48	71	82	108				
			●						100	6.0	14.4	19.1	28	32	39	46	56	60	88	102	135				
			●						120	6.8	17.3	23	34	39	47	55	67	72	106	122	162				
		●	●						150	7.3	22	29	42	48	59	68	84	90	132	153	202				
				●					165	7.7	24	31	46	53	65	75	92	100	146	168	223				
						●			200	8.5	29	38	56	64	79	91	112	121	177	204	270				
				●					250	9.5	36	48	70	81	99	114	140	151	221	255	337				
									350	11.1	50	67	98	113	138	160	195	211	309	357	472				
									570	14.2	82	109	159	184	225	260	318	344	503	581	769				
						●			700	15.7	101	133	195	226	276	319	391	422	618	714	944				
						●			1000	18.8	144	191	279	322	395	456	558	603	883	1019	1349				
							●		1100	19.7	159	210	307	355	434	501	614	663	971	1121	1483				
							●		1400	22.2	202	267	391	451	553	638	782	844	1236	1427	1888				
									1800	25.2	259	343	503	580	711	821	1005	1086	1589	1835	2427				
									2000	26.2	288	381	558	645	790	912	1117	1206	1766	2039	2697				
									3500	35.1	505	667	977	1128	1382	1596	1954	2111	3090	3568	4720				