TeeJet® Disc-Core Type Cone Spray Tips

For spraying pesticides at higher pressures and flow rates. Especially suitable for wettable powders and other abrasive chemicals. Larger capacity nozzles are also used in air blast sprayers.

- Produce smaller droplets for thorough coverage with contact pesticides and foliar applications.
- Maximum spray pressure to 300 PSI (20 bar).

Full Cone Spray Pattern

Produced by Cores #31, 33, 35, & 56

Orifice Discs

Available in a variety of sizes and materials. Ceramic for increased wear life, hardened stainless steel, stainless steel and polymer.

Ceramic Sizes Available:
DCER-2 through DCER-8, DCER-10.


Ceramic


Hardened Stainless Steel


Stainless Steel


Polymer

Cores

Standard cores are made of brass. Also available in ceramic, hardened stainless steel, aluminum and Nylon. All cores with the exception of ceramic are made with rear "nibs." Make sure core is always placed with the nib facing the nozzle body.

Ceramic Sizes Available:
DC13-CER, DC23-CER, DC25-CER, DC31-CER, DC33-CER, DC35-CER, DC45-CER, DC46-CER, DC56-CER.

Ceramic


Hardened Stainless Steel


Aluminum


Brass


Nylon

Full Cone Type Spray Tips

			GPM												
			10 PSI	20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI	150 PSI	200 PSI	300 PSI	20 PSI	40 PSI	80 PSI
D1	DC31	.031″	.08	.11	.13	.15	.18	.20	.23	.27	.31	.37	49°	47°	43°
D1.5	DC31	.036″	.10	.14	.17	.19	.23	.26	.29	.35	.40	.48	57°	65°	53°
D2	DC31	.041″	.12	.16	.19	.22	.26	.30	.33	.40	.45	.55	62°	63°	61°
D3	DC31	.047″	.13	.18	.21	.24	.29	.33	.37	.44	.50	.60	63°	65°	63°
D1	DC33	.031″	.09	.11	.12	.14	.17	.20	.22	.26	.30	.37	27°	32°	35°
D1.5	DC33	.036″	.12	.15	.17	.19	.23	.26	.30	.36	.41	.50	37°	43°	45°
D2	DC33	.041″	.13	.17	.21	.24	.29	.33	.37	.45	.52	.63	45°	52°	55°
D3	DC33	.047″	.15	.21	.25	.29	.36	.41	.45	.55	.63	.76	48°	54°	57°
D4	DC33	.063″	.20	.28	.34	.39	.47	.54	.60	.73	.83	1.02	50°	56°	61°
D1	DC35	.031″	.08	.11	.13	.14	.17	.20	.22	.26	.29	.35	19°	23°	26°
D1.5	DC35	.036″	.10	.14	.17	.19	.23	.26	.29	.34	.39	.46	23°	27°	29°
D2	DC35	.041″	.14	.18	.24	.25	.30	.34	.37	.45	.51	.60	40°	44°	47°
D3	DC35	.047″	.16	.22	.26	.30	.36	.41	.45	.55	.62	.74	45°	50°	52°
D4	DC35	.063″	.27	.37	.44	.50	.60	.70	.79	.93	1.1	1.3	68°	70°	71°
D5	DC35	.078″	.34	.48	.58	.66	.80	.92	1.0	1.2	1.4	1.7	67°	69°	71°
D2	DC56	.041″	—	—	.21	.25	.30	.35	.39	.47	.55	.67	—	14°	17°
D3	DC56	.047″	—	—	.29	.34	.41	.48	.53	.65	.75	.92	—	20°	23°
D4	DC56	.063″	—	.39	.48	.55	.67	.78	.87	1.06	1.23	1.51	20°	26°	29°
D5	DC56	.078″	.38	.54	.66	.76	.93	1.08	1.20	1.47	1.69	2.08	26°	32°	34°
D6	DC56	.094″	.55	.78	.95	1.10	1.35	1.55	1.74	2.13	2.46	3.02	34°	39°	41°
D7	DC56	.109″	.76	1.07	1.32	1.52	1.86	2.15	2.40	2.94	3.40	4.16	45°	52°	54°
D8	DC56	.125″	.96	1.36	1.67	1.93	2.36	2.73	3.05	3.73	4.32	5.28	52°	57°	59°
D10	DC56	.156″	1.35	1.91	2.34	2.70	3.31	3.82	4.26	5.22	6.03	7.39	62°	65°	67°

How to order:
To order orifice disc only, specify disc no., material.
Examples:
DCER-2 – Ceramic
D2 – Hardened Stainless Steel
DE-2 – Stainless Steel
DVP-2 – Polymer

To order core only, specify core no., material.
Examples:
DC13-CER – Ceramic
DC13-HSS – Hardened Stainless Steel
DC13-AL – Aluminum
DC13 – Brass
DC13-NY – Nylon

STRAINER NOTE: For nozzles using orifice disc nos. 1, 1.5, and 2; or core nos. 31 and 33, slotted strainer no. 4514-20 equivalent to 25 mesh screen size is required. For all other larger capacity discs and cores, slotted strainer no. 4514-32 equivalent to 16 mesh screen size is required.

TeeJet® Disc-Core Type Cone Spray Tips

Typical Assembly with Ceramic Disc and Core

TeeJet Nozzle Body | 4514-NY Slotted Strainer* | Core | Disc | CP20230 TeeJet Cap

*Use 20229-NY gasket when 4514-NY nylon slotted strainer is not used.

Hollow Cone Spray Pattern

Produced by Cores #13, 23, 25, 45 & 46

Hollow Cone Type Spray Tips

			GPM												
			10 PSI	20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI	150 PSI	200 PSI	300 PSI	20 PSI	40 PSI	80 PSI
D1	DC13	.031″	—	—	.059	.066	.078	.088	.097	.115	.128	.152	—	51°	62°
D1.5	DC13	.036″	—	.057	.067	.075	.088	.098	.110	.127	.142	.167	38°	55°	66°
D2	DC13	.041″	—	.064	.075	.08	.10	.11	.12	.14	.16	.18	49°	67°	72°
D3	DC13	.047″	—	.071	.08	.09	.11	.12	.13	.16	.18	.20	53°	70°	75°
D4	DC13	.063″	.070	.09	.11	.12	.14	.16	.17	.20	.23	.27	69°	79°	83°
D1	DC23	.031″	—	—	.064	.072	.080	.096	.107	.124	.139	.164	—	47°	58°
D1.5	DC23	.036″	—	.064	.076	.086	.103	.117	.130	.155	.175	.210	34°	51°	62°
D2	DC23	.041″	—	.078	.092	.10	.13	.14	.16	.19	.21	.25	51°	63°	70°
D3	DC23	.047″	.065	.087	.10	.12	.14	.16	.18	.21	.24	.28	58°	69°	75°
D4	DC23	.063″	.082	.113	.14	.15	.19	.21	.23	.28	.32	.38	68°	82°	87°
D5	DC23	.078″	.095	.13	.16	.18	.22	.25	.28	.34	.38	.46	79°	89°	94°
D6	DC23	.094″	.112	.15	.19	.21	.26	.29	.32	.39	.45	.54	84°	93°	98°
D1	DC25	.031″	—	—	.088	.101	.122	.138	.156	.185	.210	.255	—	27°	43°
D1.5	DC25	.036″	—	—	.118	.135	.162	.185	.205	.245	.280	.33	—	38°	49°
D2	DC25	.041″	—	.12	.14	.16	.19	.22	.25	.29	.34	.41	39°	51°	58°
D3	DC25	.047″	.10	.14	.17	.19	.23	.26	.29	.35	.40	.48	52°	61°	67°
D4	DC25	.063″	.15	.21	.25	.29	.35	.40	.45	.54	.62	.75	67°	74°	80°
D5	DC25	.078″	.18	.25	.30	.35	.42	.48	.54	.65	.75	.90	73°	79°	84°
D6	DC25	.094″	.23	.32	.39	.44	.54	.62	.70	.85	.97	1.19	79°	85°	89°
D7	DC25	.109″	.26	.37	.45	.52	.63	.73	.81	.98	1.18	1.37	85°	91°	93°
D8	DC25	.125″	.31	.43	.53	.61	.75	.89	.97	1.19	1.36	1.68	91°	96°	97°
D10	DC25	.156″	.38	.54	.65	.76	.93	1.07	1.21	1.48	1.71	2.1	97°	102°	103°
D12	DC25	.188″	.46	.61	.80	.93	1.15	1.32	1.47	1.81	2.09	2.55	103°	109°	112°
D14	DC25	.219″	.51	.72	.88	1.03	1.26	1.47	1.65	2.02	2.34	2.89	108°	113°	114°
D1	DC45	.031″	—	—	—	.125	.148	.170	.190	.225	.257	.310	—	22°	34°
D1.5	DC45	.036″	—	—	.14	.16	.20	.23	.25	.31	.35	.43	—	33°	44°
D2	DC45	.041″	—	.14	.18	.20	.25	.28	.32	.38	.44	.53	32°	46°	55°
D3	DC45	.047″	—	.17	.20	.23	.28	.33	.36	.44	.51	.62	40°	53°	60°
D4	DC45	.063″	.18	.25	.31	.36	.43	.50	.56	.68	.78	.95	62°	69°	72°
D5	DC45	.078″	.23	.32	.39	.45	.55	.64	.71	.86	.99	1.22	67°	73°	76°
D6	DC45	.094″	.29	.41	.50	.58	.72	.83	.93	1.15	1.33	1.64	73°	79°	81°
D7	DC45	.109″	.33	.48	.59	.68	.84	.97	1.11	1.35	1.57	1.94	81°	86°	87°
D8	DC45	.125″	.41	.59	.72	.84	1.04	1.21	1.35	1.68	1.94	2.40	86°	90°	90°
D10	DC45	.156″	.54	.77	.94	1.10	1.35	1.57	1.77	2.18	2.50	3.10	90°	93°	93°
D12	DC45	.188″	.67	.95	1.17	1.36	1.68	1.95	2.20	2.69	3.11	3.80	97°	100°	102°
D14	DC45	.218″	.75	1.07	1.32	1.53	1.89	2.19	2.45	3.00	3.49	4.30	101°	104°	105°
D16	DC45	.250″	.86	1.25	1.54	1.79	2.20	2.57	2.89	3.54	4.11	5.20	108°	111°	112°
D1	DC46	.031″	—	—	—	.145	.178	.205	.23	.28	.32	.39	—	13°	15°
D1.5	DC46	.036″	—	—	—	.213	.260	.300	.33	.41	.46	.56	—	15°	17°
D2	DC46	.041″	—	—	.24	.27	.33	.37	.42	.50	.57	.68	—	18°	21°
D3	DC46	.047″	—	.23	.28	.32	.39	.45	.51	.61	.70	.86	14°	20°	24°
D4	DC46	.063″	.28	.39	.48	.56	.68	.78	.88	1.07	1.23	1.52	23°	29°	33°
D5	DC46	.078″	.38	.54	.66	.77	.94	1.10	1.25	1.50	1.73	2.13	33°	39°	42°
D6	DC46	.094″	.55	.78	.95	1.10	1.35	1.58	1.73	2.16	2.50	3.06	42°	48°	50°
D7	DC46	.109″	—	.98	1.22	1.39	1.72	1.97	2.22	2.73	3.15	3.85	48°	53°	56°
D8	DC46	.125″	—	—	1.59	1.84	2.25	2.62	2.93	3.60	4.17	5.05	—	60°	62°
D10	DC46	.156″	—	—	2.15	2.48	3.05	3.53	3.96	4.83	5.59	6.80	—	66°	68°

CP26277-1-NY Quick TeeJet® Cap

For ceramic disc and core. See page 104 for ordering information.

How to order:

To order orifice disc only, specify disc no., material.

Examples:

- DCER-2 – Ceramic
- D2 – Hardened Stainless Steel
- DE2 – Stainless Steel
- DVP-2 – Polymer

To order core only, specify core no., material.

Examples:

- DC13-CER – Ceramic
- DC13-HSS – Hardened Stainless Steel
- DC13-AL – Aluminum
- DC13 – Brass
- DC13-NY – Nylon

Color-coding applies to polymer material only.

STRAINER NOTE: For nozzles using orifice disc nos. 1, 1.5, and 2; or core nos. 31 and 33, slotted strainer no. 4514-20 equivalent to 25 mesh screen size is required. For all other larger capacity discs and cores, slotted strainer no. 4514-32 equivalent to 16 mesh screen size is required.

ConeJet® VisiFlo® Hollow Cone Spray Tips

Typical Applications:

EXCELLENT: Use for directed applications in air blast spraying for orchards and vineyards and other specialty crops. Also well-suited for applications of insecticides, fungicides, defoliants and foliar fertilizers at pressures of 40 PSI (3 bar) and above.

Features:

- VisiFlo color-coded versions consist of stainless steel or ceramic orifice in a polypropylene body
- Standard ConeJet spray nozzles (not color-coded) are available in brass and stainless steel with 65° (TY) and 80° (TX) spray angles
- Finely atomized hollow cone spray pattern provides thorough coverage
- Maximum pressure rating of 300 PSI (20 bar). Spray angle is 80° at 100 PSI (7 bar)

		GPM																		
		30 PSI	40 PSI	50 PSI	60 PSI	70 PSI	80 PSI	90 PSI	100 PSI	120 PSI	140 PSI	160 PSI	180 PSI	200 PSI	220 PSI	240 PSI	260 PSI	280 PSI	300 PSI
TXVK-3	100	0.044	0.050	0.055	0.060	0.064	0.068	0.071	0.075	0.081	0.086	0.092	0.096	0.101	0.105	0.109	0.113	0.117	0.120
TXVK-4	50	0.058	0.067	0.074	0.080	0.086	0.091	0.096	0.101	0.110	0.118	0.125	0.132	0.139	0.145	0.151	0.157	0.162	0.167
TXVK-6	50	0.088	0.100	0.111	0.120	0.129	0.137	0.145	0.152	0.165	0.177	0.188	0.199	0.208	0.218	0.226	0.235	0.243	0.251
TXVK-8	50	0.116	0.133	0.148	0.162	0.174	0.186	0.196	0.207	0.225	0.243	0.259	0.274	0.288	0.301	0.314	0.326	0.338	0.349
TXVK-10	50	0.145	0.167	0.185	0.202	0.218	0.232	0.246	0.258	0.282	0.303	0.323	0.342	0.360	0.376	0.392	0.408	0.422	0.437
TXVK-12	50	0.174	0.200	0.223	0.243	0.261	0.279	0.295	0.310	0.338	0.364	0.388	0.410	0.432	0.452	0.471	0.489	0.507	0.524
TXVK-18	50	0.260	0.300	0.335	0.367	0.396	0.423	0.449	0.473	0.517	0.558	0.597	0.633	0.667	0.699	0.730	0.759	0.788	0.815
TXVK-26	50	0.376	0.433	0.484	0.530	0.572	0.611	0.648	0.683	0.747	0.807	0.862	0.914	0.963	1.009	1.054	1.097	1.138	1.177
TX*800050VK	100	0.044	0.050	0.055	0.060	0.064	0.068	0.071	0.075	0.081	0.086	0.092	0.096	0.101	0.105	0.109	0.113	0.117	0.120
TX*800067VK	100	0.058	0.067	0.074	0.080	0.086	0.091	0.096	0.101	0.110	0.118	0.125	0.132	0.139	0.145	0.151	0.157	0.162	0.167
TX*8001VK	100	0.088	0.100	0.111	0.120	0.129	0.137	0.145	0.152	0.165	0.177	0.188	0.199	0.208	0.218	0.226	0.235	0.243	0.251
TX*80015VK	100	0.131	0.150	0.167	0.182	0.196	0.209	0.221	0.232	0.254	0.273	0.291	0.308	0.324	0.339	0.353	0.367	0.380	0.393
TX*8002VK	50	0.174	0.200	0.223	0.243	0.261	0.279	0.295	0.310	0.338	0.364	0.388	0.410	0.432	0.452	0.471	0.489	0.507	0.524
TX*8003VK	50	0.260	0.300	0.335	0.367	0.396	0.423	0.449	0.473	0.517	0.558	0.597	0.633	0.667	0.699	0.730	0.759	0.788	0.815
TX*8004VK	50	0.347	0.400	0.447	0.489	0.528	0.564	0.598	0.630	0.690	0.745	0.796	0.843	0.889	0.932	0.973	1.012	1.050	1.087

** Specify "A" or "B." See pages 70 and 71 for more information on TX ConeJet spray tips.*

TeeJet® VisiFlo® Flat Spray Tips

Typical Applications:

EXCELLENT: Use for directed applications in air blast spraying for orchards and vineyards and other specialty crops. Also well-suited for applications of insecticides, fungicides, defoliants and foliar fertilizers at pressures of 40 PSI (3 bar) and above.

Features:

- Tapered edge flat spray pattern for uniform coverage
- VisiFlo color-coded version available with ceramic orifice
- Maximum pressure rating of 300 PSI (20 bar)

		GPM																		
		30 PSI	40 PSI	50 PSI	60 PSI	70 PSI	80 PSI	90 PSI	100 PSI	120 PSI	140 PSI	160 PSI	180 PSI	200 PSI	220 PSI	240 PSI	260 PSI	280 PSI	300 PSI
TP8001VK	100	0.087	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27
TP80015VK	100	0.13	0.15	0.17	0.18	0.20	0.21	0.23	0.24	0.26	0.28	0.30	0.32	0.34	0.35	0.37	0.38	0.40	0.41
TP8002VK	50	0.17	0.20	0.22	0.24	0.26	0.28	0.30	0.32	0.35	0.37	0.40	0.42	0.45	0.47	0.49	0.51	0.53	0.55
XR8003VK	50	0.26	0.30	0.34	0.37	0.40	0.42	0.45	0.47	0.52	0.56	0.60	0.64	0.67	0.70	0.73	0.76	0.79	0.82
XR8004VK	50	0.35	0.40	0.45	0.49	0.53	0.57	0.60	0.63	0.69	0.75	0.80	0.85	0.89	0.94	0.98	1.02	1.06	1.10
XR8005VK	50	0.43	0.50	0.56	0.61	0.66	0.71	0.75	0.79	0.87	0.94	1.00	1.06	1.12	1.17	1.22	1.27	1.32	1.37
XR8006VK	50	0.52	0.60	0.67	0.73	0.79	0.85	0.90	0.95	1.04	1.12	1.20	1.27	1.34	1.41	1.47	1.53	1.59	1.64
XR8008VK	50	0.69	0.80	0.89	0.98	1.06	1.13	1.20	1.26	1.39	1.50	1.60	1.70	1.79	1.88	1.96	2.04	2.12	2.19

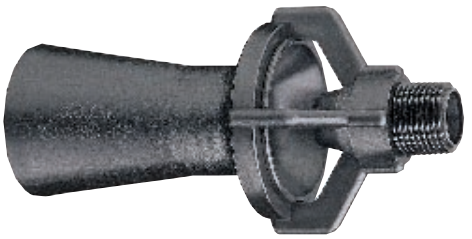
TeeJet® Eductor Nozzle

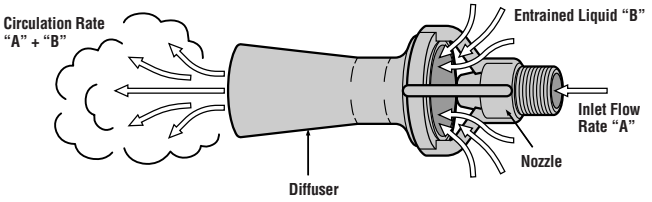
Y33180-PP & Y9270-PP
Features:

- Allows small pumps to circulate large volumes of liquid
- Manufactured of glass-filled polypropylene for excellent corrosion and chemical resistance
- Large flow opening minimizes plugging
- Available in ⅜″ or ¾″ (M) pipe thread inlet connection

How to order:

Specify nozzle number, inlet connection.
Example: Y33180-PP-3/8





Approximate Flow Rate Performance	Model No.	Inlet Liquid Pressure							
		10 PSI	15 PSI	20 PSI	25 PSI	30 PSI	35 PSI	40 PSI	50 PSI
Inlet Flow Rate "A" (GPM)	Y33180-PP	9	11	12.7	14	16	17	18	20
	Y9270-PP	13.5	17	19	21	23	25	27	30
Entrained Liquid "B"(GPM)	Y33180-PP	36	44	50.8	56	64	68	72	80
	Y9270-PP	54	68	76	84	92	100	108	120
Circulation Rate "A"+"B" (GPM)	Y33180-PP	45	55	63.5	70	80	85	90	100
	Y9270-PP	67.5	85	95	105	115	125	135	150

Model No.	Pipe Thread Inlet Connection	Orifice Diameter	Length	Diameter
Y33180-PP	⅜″ (M)	5/16″	4 1/16″	2 1/16″
Y9270-PP	¾″ (M)	⅜″	6⅜″	2 29/32″

TeeJet® Jet Agitators

Installed at bottom of spray tank on end of agitator return line. Continuous solid stream jet flow creates turbulence and keeps wettable powders in suspension.

6290-SC

Made in choice of brass, aluminum and all stainless steel. ¼″ NPT (F) inlet connection. Fits through 2″ hole. Weight 6 ounces. Siphon caps increase liquid flow by venturi action to increase mixing potential.

Jet Agitator Number	Orifice Cap Number	Orifice Cap Inlet Diameter	Capacity (GPM) Thru Agitator Line at Various Pressures						For Maximum Tank Size in Gallons of:
			10 PSI	15 PSI	20 PSI	30 PSI	40 PSI	50 PSI	
6290 SC-1	11118-1	.055″	.78	.96	1.1	1.4	1.6	1.8	50
6290 SC-2	11118-2	.086″	1.9	2.3	2.7	3.3	3.8	4.3	110
6290 SC-3	11118-3	.096″	2.4	2.9	3.3	4.1	4.7	5.3	140
6290 SC-5	11118-5	.144″	4.4	5.4	6.2	7.6	8.8	9.9	250
6290 SC-8	11118-8	.156″	5.1	6.3	7.2	8.8	10.2	11.4	300
6290 SC-10	11118-10	.177″	5.7	7.0	8.0	9.7	11.4	12.7	350

Note: Maximum tank sizes shown in table are approximate and are based on 40 PSI operation with pesticides, not fertilizers.

How to order:

Specify Jet Agitator no.
Examples:

6290SC-1 Brass

6290SC-1-AL Aluminum

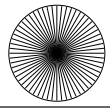
6290SC-1-SS Stainless Steel

Other sizes available.

TeeJet® Tank Rinsing Nozzles

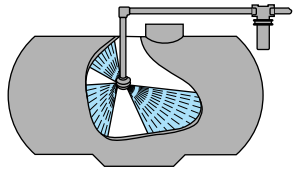
27500E-TEF

- The 27500 tank rinsing nozzle has a fluid-driven rotational spray head with orifices positioned to provide effective rinsing of sprayer tanks
- Provides 360° coverage of inside surface of tank
- Made of corrosion-resistant Teflon material
- Mounting connection – ¾″ NPT or BSPT (F)

Nozzle No.	Capacity – GPM					Type of Coverage	Spray Angle
	10 PSI	20 PSI	30 PSI	40 PSI	50 PSI		
27500E-¾-18-TEF	9	12.7	15.6	18	20		360°

Also available in BSPT.

Typical Application



D25468-POM/SS-7

- The rotary tank rinsing nozzle is used for rinsing the insides of chemical containers and spray tanks up to 6.5 feet in diameter
- Available with ½″ NPT or BSPT connections
- Rotating head is driven by the flow of the rinsing liquid, starts at pressure of less than 7 PSI
- Self-cleaning sliding bearing

Nozzle No.	Capacity – GPM				
	20 PSI	30 PSI	40 PSI	50 PSI	70 PSI
D25468-POM/SS-7	4.9	6.0	7.0	7.8	9.2

Also available in BSPT.

- Body of Celcon-Delrin, flat spray inserts of 303 stainless steel
- Nozzle fits in 1½″ opening

TeeJet® Container Rinsing Nozzles

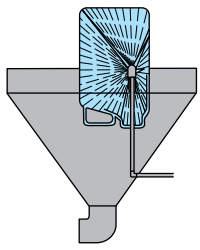
23240

- The 23240 container rinsing nozzle is used to rinse residue from containers before disposal
- Can be used for containers with 1 31/32″ diameter openings or larger
- Three flat spray orifices provide self-rotational forces needed to create spherical coverage
- Made of 303 stainless steel with hardened stainless steel bearings and races for maximum wear life. Also includes an internal sleeve made of Teflon

Nozzle No.	Inlet Connection	Capacity – GPM				
		20 PSI	30 PSI	40 PSI	50 PSI	60 PSI
23240-3-HSS-5.7-SS	½″ NPT	4.0	4.9	5.7	6.4	7.0
23240-3-HSS-7-SS		4.9	6.1	7.0	7.8	8.6

Also available in BSPT.

Typical Application



VSM-*

- Used for inside rinsing of chemical containers
- 40 orifices combine to produce a 240° spray angle
- All nylon construction
- Available with ½″ or ¾″ NPT or BSPT (F) connection
- Recommended operating pressure 30-60 PSI

Nozzle No.	Inlet Pipe Connection	Orifice Dia.	Capacity – GPM						Spray Angle
			20 PSI	30 PSI	40 PSI	60 PSI	80 PSI	100 PSI	
VSM-*-28	½″ NPT	.031″	3.9	4.8	5.5	6.7	7.8	8.7	240°
VSM-*-44		.039″	6.1	7.5	8.6	10.6	12.2	13.7	
VSM-*-90	½″ or ¾″ NPT	.059″	12.5	15.3	17.7	22	25	28	
VSM-*-140		.077″	19.4	24	27	34	39	43	
VSM-*-190		.091″	26	32	37	46	53	59	

** Indicate size.*

Also available in BSPT.

How to order:

VSM – 3/4 (NPT) – 140

Nozzle Type | Size | Thread | Capacity

Quick TeeJet® 39600 Multi-Position Valve

Features:

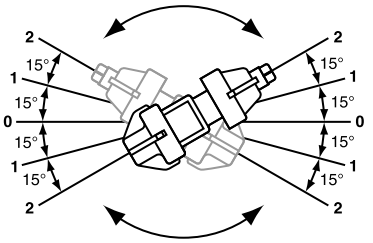
- Quick hand-indexing of 10 positions
- Designed to work with all Quick TeeJet caps, tip strainers and nozzles
- Built-in manual shutoff to stop liquid flow to the nozzle
- Maximum operating pressure of 150 PSI (10 bar)
- TeeJet ChemSaver® for drip-free shutoff
- Most commonly used on vertical booms in orchard and vineyard applications

Typical Assembly with Ceramic Disc and Core

4514-NY Slotted Strainer | Gasket | Core | Disc

CP26277 Quick TeeJet Cap

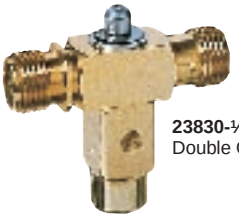
Indexing Positions



TeeJet® Specialty Valves

Rollover Valves

Developed for use on airblast sprayers. Maximum operating pressure of 500 PSI (34 bar). Positive shutoff at 90° from "on" position. Indexing recommended only at zero line pressure. Can be used with all standard TeeJet tips and strainers. Available inlet connections shown below. Made of brass.



23830-¼F
Double Outlet

Part No.	Inlet Connection
23830	11/16″-16
23830-¼M	¼″ Male
23830-¼F	¼″ Female

23831-¼M
Single Outlet

Part No.	Inlet Connection
23831	11/16″-16
23831-¼M	¼″ Male
23831-¼F	¼″ Female

Plug Valve

A compact quarter turn on-off valve for many applications. Low profile handle is suited for use on airblast sprayers. Maximum operating pressure is 400 PSI (28 bar). Brass with Celcon® handle.

23220

Plug Valve No.	Connections in NPT
23220-¼F x ¼F	¼″ (F) x ¼″ (F)
23220-⅛F x ⅛F	⅛″ (F) x ⅛″ (F)
23220-¼M x T	¼″ (M) x 11/16″-16 (M)
23220-¼F x T	¼″ (F) x 11/16″-16 (M)
23220-¼M x ¼F	¼″ (M) x ¼″ (F)
23220-¼F x ¼M	¼″ (F) x ¼″ (M)

Typical Assembly with Ceramic Disc and Core

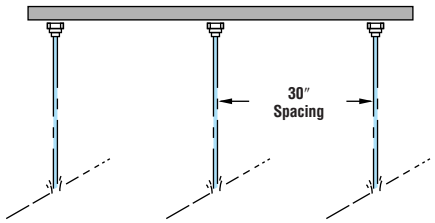
4514-NY Slotted Strainer* | Core | Disc

CP20230 TeeJet Cap

**Use 20229-NY gasket when 4514-NY nylon slotted strainer is not used.*

Stainless Steel for Banding Fertilizers

- Permits banding fluids at high rig speeds.
- Large orifices with no internal obstructions permit non-clogging suspension applications.
- Lower drift potential.
- Reference pages 124-142 for more information.



How to order:
Specify nozzle no., material.
Examples:

H¼U-SS0010 Stainless Steel

TP0010-SS Stainless Steel
(for use with standard TeeJet cap.)

	PSI	1 Nozzle in GPM	GPA 30″ 4 mph	6 mph	8 mph	10 mph	12 mph	14 mph	16 mph	18 mph	20 mph
H¼U-SS0004 TP0004-SS	10	0.20	9.9	6.6	5.0	4.0	3.3	2.8	2.5	2.2	2.0
	20	0.28	13.9	9.2	6.9	5.5	4.6	4.0	3.5	3.1	2.8
	30	0.35	17.3	11.6	8.7	6.9	5.8	5.0	4.3	3.9	3.5
	40	0.40	19.8	13.2	9.9	7.9	6.6	5.7	5.0	4.4	4.0
H¼U-SS0006 TP0006-SS	10	0.30	14.9	9.9	7.4	5.9	5.0	4.2	3.7	3.3	3.0
	20	0.42	21	13.9	10.4	8.3	6.9	5.9	5.2	4.6	4.2
	30	0.52	26	17.2	12.9	10.3	8.6	7.4	6.4	5.7	5.1
	40	0.60	30	19.8	14.9	11.9	9.9	8.5	7.4	6.6	5.9
H¼U-SS0008 TP0008-SS	10	0.40	19.8	13.2	9.9	7.9	6.6	5.7	5.0	4.4	4.0
	20	0.57	28	18.8	14.1	11.3	9.4	8.1	7.1	6.3	5.6
	30	0.69	34	23	17.1	13.7	11.4	9.8	8.5	7.6	6.8
	40	0.80	40	26	19.8	15.8	13.2	11.3	9.9	8.8	7.9
H¼U-SS0010 TP0010-SS	10	0.50	25	16.5	12.4	9.9	8.3	7.1	6.2	5.5	5.0
	20	0.71	35	23	17.6	14.1	11.7	10.0	8.8	7.8	7.0
	30	0.87	43	29	22	17.2	14.4	12.3	10.8	9.6	8.6
	40	1.00	50	33	25	19.8	16.5	14.1	12.4	11.0	9.9
H¼U-SS0015 TP0015-SS	10	0.75	37	25	19	14.9	12.4	10.6	9.3	8.3	7.4
	20	1.06	52	35	26	21	17.5	15.0	13.1	11.7	10.5
	30	1.30	64	43	32	26	21	18.4	16.1	14.3	12.9
	40	1.50	74	50	37	30	25	21	18.6	16.5	14.9
H¼U-SS0020 TP0020-SS	10	1.00	50	33	25	19.8	16.5	14.1	12.4	11.0	9.9
	20	1.41	70	47	35	28	23	19.9	17.4	15.5	14.0
	30	1.73	86	57	43	34	29	24	21	19.0	17.1
	40	2.00	99	66	50	40	33	28	25	22	19.8
H¼U-SS0030 TP0030-SS	10	1.50	74	50	37	30	25	21	18.6	16.5	14.9
	20	2.12	105	70	52	42	35	30	26	23	21
	30	2.60	129	86	64	51	43	37	32	29	26
	40	3.00	149	99	74	59	50	42	37	33	30
H¼U-SS0040 TP0040-SS	10	2.00	99	66	50	40	33	28	25	22	20
	20	2.83	140	93	70	56	47	40	35	31	28
	30	3.46	171	114	86	69	57	49	43	38	34
	40	4.00	198	132	99	79	66	57	50	44	40
H¼U-SS0050	10	2.50	124	83	62	50	41	35	31	28	25
	20	3.54	175	117	88	70	58	50	44	39	35
	30	4.33	214	143	107	86	71	61	54	48	43
	40	5.00	248	165	124	99	83	71	62	55	50
H¼U-SS0060	10	3.00	149	99	74	59	50	42	37	33	30
	20	4.24	210	140	105	84	70	60	52	47	42
	30	5.20	257	172	129	103	86	74	64	57	51
	40	6.00	297	198	149	119	99	85	74	66	59

Note: Always double check your application rates. See pages 124 and 125 for useful formulas and information.

Quick TeeJet® 8-Orifice Nozzles

Common Application

- Spraying of liquid fertilizer.

See selection guide on pages 64 and 65 for recommended typical application for Quick TeeJet 8-Orifice nozzles.

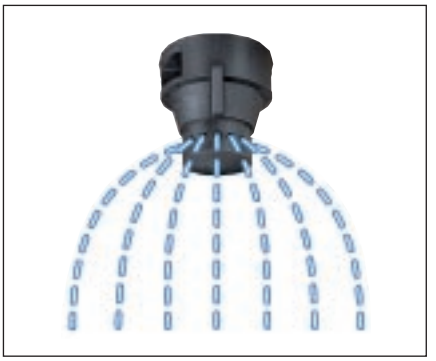
Features:

- Quick TeeJet connection
- Uniformly distributed streams of liquid fertilizers
- Recommended operating pressure 15-40 PSI (1-3 bar)
- Coarse droplets reduce drift
- Semicircle spray pattern
- Variation of flow rate by simply changing the orifice plate

CP18999-EPR
Seat Gasket

CP4916-*
Orifice Plate

QJ46130
Quick TeeJet Nozzle



How to order:

To order nozzle, specify nozzle number.
Example: QJ46130-1-NYB

To order gasket, specify gasket number.
Example: CP18999-EPR (Viton option)

To order flow regulator, specify flow regulator number.
Example: CP4916-*

**Determine capacity number*

QJ46130 + 4916-*	PSI	GPM	(inches)	GPA 20″ 3 mph	3.5 mph	4 mph	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph	7.5 mph	8 mph
4916-35	14.5	0.10	40	9.9	8.5	7.4	6.6	5.9	5.4	5.0	4.6	4.2	4.0	3.7
	22	0.12	40	11.9	10.2	8.9	7.9	7.1	6.5	5.9	5.5	5.1	4.8	4.5
	29	0.13	40	12.9	11.0	9.7	8.6	7.7	7.0	6.4	5.9	5.5	5.1	4.8
	36	0.15	40	14.9	12.7	11.1	9.9	8.9	8.1	7.4	6.9	6.4	5.9	5.6
	43.5	0.16	40	15.8	13.6	11.9	10.6	9.5	8.6	7.9	7.3	6.8	6.3	5.9
4916-39	14.5	0.11	40	10.9	9.3	8.2	7.3	6.5	5.9	5.4	5.0	4.7	4.4	4.1
	22	0.14	40	13.9	11.9	10.4	9.2	8.3	7.6	6.9	6.4	5.9	5.5	5.2
	29	0.16	40	15.8	13.6	11.9	10.6	9.5	8.6	7.9	7.3	6.8	6.3	5.9
	36	0.18	30	17.8	15.3	13.4	11.9	10.7	9.7	8.9	8.2	7.6	7.1	6.7
	43.5	0.20	30	20	17.0	14.9	13.2	11.9	10.8	9.9	9.1	8.5	7.9	7.4
4916-48	14.5	0.17	40	16.8	14.4	12.6	11.2	10.1	9.2	8.4	7.8	7.2	6.7	6.3
	22	0.21	40	21	17.8	15.6	13.9	12.5	11.3	10.4	9.6	8.9	8.3	7.8
	29	0.24	40	24	20	17.8	15.8	14.3	13.0	11.9	11.0	10.2	9.5	8.9
	36	0.27	30	27	23	20	17.8	16.0	14.6	13.4	12.3	11.5	10.7	10.0
	43.5	0.30	30	30	25	22	20	17.8	16.2	14.9	13.7	12.7	11.9	11.1
4916-59	14.5	0.26	40	26	22	19.3	17.2	15.4	14.0	12.9	11.9	11.0	10.3	9.7
	22	0.32	40	32	27	24	21	19.0	17.3	15.8	14.6	13.6	12.7	11.9
	29	0.37	30	37	31	27	24	22	20	18.3	16.9	15.7	14.7	13.7
	36	0.41	30	41	35	30	27	24	22	20	18.7	17.4	16.2	15.2
	43.5	0.45	50	45	38	33	30	27	24	22	21	19.1	17.8	16.7
4916-68	14.5	0.34	30	34	29	25	22	20	18.4	16.8	15.5	14.4	13.5	12.6
	22	0.42	30	42	36	31	28	25	23	21	19.2	17.8	16.6	15.6
	29	0.49	30	49	42	36	32	29	26	24	22	21	19.4	18.2
	36	0.54	50	53	46	40	36	32	29	27	25	23	21	20
	43.5	0.59	50	58	50	44	39	35	32	29	27	25	23	22
4916-72	14.5	0.39	30	39	33	29	26	23	21	19.3	17.8	16.5	15.4	14.5
	22	0.47	30	47	40	35	31	28	25	23	21	20	18.6	17.4
	29	0.54	30	53	46	40	36	32	29	27	25	23	21	20
	36	0.61	50	60	52	45	40	36	33	30	28	26	24	23
	43.5	0.67	50	66	57	50	44	40	36	33	31	28	27	25
4916-80	14.5	0.48	30	48	41	36	32	29	26	24	22	20	19.0	17.8
	22	0.58	30	57	49	43	38	34	31	29	27	25	23	22
	29	0.68	30	67	58	50	45	40	37	34	31	29	27	25
	36	0.76	50	75	64	56	50	45	41	38	35	32	30	28
	43.5	0.83	50	82	70	62	55	49	45	41	38	35	33	31

Note: Always double check your application rates. See pages 124 and 125 for useful formulas and information.

Quick TeeJet® 3-Orifice Nozzle

Common Application

- Spraying of liquid fertilizer

How to order:

Example: QJ19840-*-*-NY

CP18999-EPR
Seat Gasket

CP4916-*
Orifice Plate

QJ19840
Quick TeeJet Nozzle

** Determines capacity.*

Features:

- Quick TeeJet connection
- Uniformly distributed streams of liquid fertilizer
- Recommended operating pressure 15-40 PSI (1-3 bar)
- Coarse droplets reduce drift
- Semicircle spray pattern
- Variation of flow rate by simply changing the orifice plate

For more information write for Data Sheet 19840-1 or -2.

QJ19840-1 +	PSI	GPM	(inches)	GPA 20″										
				3 mph	3.5 mph	4 mph	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph	7.5 mph	8 mph
4916-41	14.5	0.16	29.5	15.8	13.6	11.9	10.6	9.5	8.6	7.9	7.3	6.8	6.3	5.9
	22	0.20	29.5	19.8	17.0	14.9	13.2	11.9	10.8	9.9	9.1	8.5	7.9	7.4
	29	0.22	29.5	22	18.7	16.3	14.5	13.1	11.9	10.9	10.1	9.3	8.7	8.2
	36	0.25	29.5	25	21	18.6	16.5	14.9	13.5	12.4	11.4	10.6	9.9	9.3
	43.5	0.26	29.5	26	22	19.3	17.2	15.4	14.0	12.9	11.9	11.0	10.3	9.7
4916-55	14.5	0.26	29.5	26	22	19.3	17.2	15.4	14.0	12.9	11.9	11.0	10.3	9.7
	22	0.32	29.5	32	27	24	21	19.0	17.3	15.8	14.6	13.6	12.7	11.9
	29	0.36	29.5	36	31	27	24	21	19.4	17.8	16.4	15.3	14.3	13.4
	36	0.40	29.5	40	34	30	26	24	22	19.8	18.3	17.0	15.8	14.9
	43.5	0.45	29.5	45	38	33	30	27	24	22	21	19.1	17.8	16.7
4916-78	14.5	0.42	29.5	42	36	31	28	25	23	21	19.2	17.8	16.6	15.6
	22	0.50	29.5	50	42	37	33	30	27	25	23	21	19.8	18.6
	29	0.58	29.5	57	49	43	38	34	31	29	27	25	23	22
	36	0.66	29.5	65	56	49	44	39	36	33	30	28	26	25
	43.5	0.73	29.5	72	62	54	48	43	39	36	33	31	29	27
4916-115	14.5	0.66	29.5	65	56	49	44	39	36	33	30	28	26	25
	22	0.77	29.5	76	65	57	51	46	42	38	35	33	30	29
	29	0.92	29.5	91	78	68	61	55	50	46	42	39	36	34
	36	1.05	29.5	104	89	78	69	62	57	52	48	45	42	39
	43.5	1.14	29.5	113	97	85	75	68	62	56	52	48	45	42

QJ19840-2 +	PSI	GPM	(inches)	GPA 20″										
				3 mph	3.5 mph	4 mph	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph	7.5 mph	8 mph
4916-41	14.5	0.13	24	12.9	11.0	9.7	8.6	7.7	7.0	6.4	5.9	5.5	5.1	4.8
	22	0.16	24	15.8	13.6	11.9	10.6	9.5	8.6	7.9	7.3	6.8	6.3	5.9
	29	0.19	24	18.8	16.1	14.1	12.5	11.3	10.3	9.4	8.7	8.1	7.5	7.1
	36	0.21	24	21	17.8	15.6	13.9	12.5	11.3	10.4	9.6	8.9	8.3	7.8
	43.5	0.23	24	23	19.5	17.1	15.2	13.7	12.4	11.4	10.5	9.8	9.1	8.5
4916-46	14.5	0.20	24	19.8	17.0	14.9	13.2	11.9	10.8	9.9	9.1	8.5	7.9	7.4
	22	0.24	24	24	20	17.8	15.8	14.3	13.0	11.9	11.0	10.2	9.5	8.9
	29	0.28	24	28	24	21	18.5	16.6	15.1	13.9	12.8	11.9	11.1	10.4
	36	0.31	24	31	26	23	20	18.4	16.7	15.3	14.2	13.2	12.3	11.5
	43.5	0.34	24	34	29	25	22	20	18.4	16.8	15.5	14.4	13.5	12.6
4916-52	14.5	0.27	24	27	23	20	17.8	16.0	14.6	13.4	12.3	11.5	10.7	10.0
	22	0.33	24	33	28	25	22	19.6	17.8	16.3	15.1	14.0	13.1	12.3
	29	0.37	24	37	31	27	24	22	20	18.3	16.9	15.7	14.7	13.7
	36	0.42	24	42	36	31	28	25	23	21	19.2	17.8	16.6	15.6
	43.5	0.46	24	46	39	34	30	27	25	23	21	19.5	18.2	17.1
4916-70	14.5	0.40	24	40	34	30	26	24	22	19.8	18.3	17.0	15.8	14.9
	22	0.49	24	49	42	36	32	29	26	24	22	21	19.4	18.2
	29	0.56	24	55	48	42	37	33	30	28	26	24	22	21
	36	0.62	24	61	53	46	41	37	33	31	28	26	25	23
	43.5	0.69	24	68	59	51	46	41	37	34	32	29	27	26
4916-81	14.5	0.50	24	50	42	37	33	30	27	25	23	21	19.8	18.6
	22	0.62	24	61	53	46	41	37	33	31	28	26	25	23
	29	0.71	24	70	60	53	47	42	38	35	32	30	28	26
	36	0.80	24	79	68	59	53	48	43	40	37	34	32	30
	43.5	0.87	24	86	74	65	57	52	47	43	40	37	34	32

QJ19840-3 +	PSI	GPM	(inches)	GPA 20″										
				3 mph	3.5 mph	4 mph	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph	7.5 mph	8 mph
4916-91	14.5	0.65	24	64	55	48	43	39	35	32	30	28	26	24
	22	0.80	24	79	68	59	53	48	43	40	37	34	32	30
	29	0.92	24	91	78	68	61	55	50	46	42	39	36	34
	36	1.03	24	102	87	76	68	61	56	51	47	44	41	38
	43.5	1.13	24	112	96	84	75	67	61	56	52	48	45	42
4916-110	14.5	0.95	24	94	81	71	63	56	51	47	43	40	38	35
	22	1.17	24	116	99	87	77	69	63	58	53	50	46	43
	29	1.34	24	133	114	99	88	80	72	66	61	57	53	50
	36	1.50	24	149	127	111	99	89	81	74	69	64	59	56
	43.5	1.64	24	162	139	122	108	97	89	81	75	70	65	61
4916-128	14.5	1.25	24	124	106	93	83	74	68	62	57	53	50	46
	22	1.54	24	152	131	114	102	91	83	76	70	65	61	57
	29	1.77	24	175	150	131	117	105	96	88	81	75	70	66
	36	1.98	24	196	168	147	131	118	107	98	90	84	78	74
	43.5	2.15	24	213	182	160	142	128	116	106	98	91	85	80

Note: Always double check your application rates. See pages 124 and 125 for useful formulas and information.

TeeJet® Flow Regulators

Flow Regulators are usually mounted behind cultivator shanks for the subsurface application of liquid fertilizers and soil fumigants. They are also used for above-ground streaming applications.

How to order:
Specify orifice plate number.
Example: CP4916-8

Typical Assembly

CP1322
¼TT Body

5053
Strainer

CP4916
Orifice Plate

CP4928
Adapter
⅛" NPT (F)
Outlet

CP1325
Cap

NOTE: Always insert Orifice Plate with side marked with number facing the outlet.

MATERIAL: Stainless Steel

To determine the orifice plates you need, use the following equations:

$$\text{GPM (Per Nozzle)} = \frac{\text{GPA} \times \text{mph} \times W}{5{,}940}$$

$$\text{GPA} = \frac{5{,}940 \times \text{GPM (Per Nozzle)}}{\text{mph} \times W}$$

Tables based on spraying water. See page 124 for conversion factors for other weight solutions.

W = Nozzle spacing (in inches) for broadcast spraying

= Spray width (in inches) for single nozzle, band spraying or boomless spraying.

= Row spacing (in inches) divided by the number of nozzles per row for directed spraying.

	GPM			
	5 PSI	10 PSI	20 PSI	30 PSI
CP4916-8	0.003	0.004	0.006	0.007
CP4916-10	0.005	0.006	0.009	0.011
CP4916-12	0.007	0.009	0.013	0.016
CP4916-14	0.009	0.013	0.018	0.022
CP4916-15	0.010	0.014	0.020	0.025
CP4916-16	0.012	0.016	0.023	0.028
CP4916-18	0.015	0.021	0.030	0.036
CP4916-20	0.018	0.026	0.037	0.045
CP4916-22	0.022	0.031	0.043	0.053
CP4916-24	0.026	0.037	0.052	0.064
CP4916-25	0.028	0.040	0.056	0.068
CP4916-26	0.030	0.043	0.060	0.074
CP4916-27	0.032	0.045	0.064	0.078
CP4916-28	0.035	0.049	0.069	0.085
CP4916-29	0.038	0.054	0.076	0.093
CP4916-30	0.040	0.057	0.081	0.099
CP4916-31	0.043	0.061	0.087	0.106
CP4916-32	0.048	0.067	0.095	0.116
CP4916-34	0.052	0.074	0.104	0.127
CP4916-35	0.056	0.079	0.111	0.136
CP4916-37	0.061	0.086	0.121	0.149
CP4916-39	0.067	0.095	0.135	0.165
CP4916-40	0.072	0.102	0.144	0.177
CP4916-41	0.074	0.105	0.149	0.182
CP4916-43	0.081	0.115	0.163	0.200
CP4916-45	0.088	0.125	0.176	0.216
CP4916-46	0.095	0.135	0.191	0.233

	GPM			
	5 PSI	10 PSI	20 PSI	30 PSI
CP4916-47	0.097	0.137	0.194	0.238
CP4916-48	0.101	0.143	0.202	0.247
CP4916-49	0.104	0.147	0.208	0.255
CP4916-51	0.116	0.164	0.232	0.284
CP4916-52	0.118	0.167	0.237	0.290
CP4916-54	0.127	0.180	0.255	0.312
CP4916-55	0.133	0.188	0.266	0.326
CP4916-57	0.141	0.200	0.283	0.346
CP4916-59	0.152	0.215	0.304	0.372
CP4916-61	0.166	0.233	0.330	0.404
CP4916-63	0.174	0.246	0.347	0.425
CP4916-65	0.185	0.261	0.369	0.452
CP4916-67	0.196	0.278	0.392	0.481
CP4916-68	0.203	0.287	0.405	0.496
CP4916-70	0.216	0.306	0.433	0.530
CP4916-72	0.226	0.320	0.453	0.554
CP4916-73	0.233	0.330	0.467	0.572
CP4916-75	0.245	0.347	0.491	0.601
CP4916-78	0.272	0.385	0.544	0.667
CP4916-80	0.280	0.397	0.561	0.687
CP4916-81	0.290	0.411	0.581	0.711
CP4916-83	0.317	0.449	0.634	0.777
CP4916-86	0.332	0.470	0.664	0.813
CP4916-89	0.346	0.490	0.693	0.849
CP4916-91	0.369	0.523	0.739	0.905
CP4916-93	0.387	0.547	0.774	0.947
CP4916-95	0.404	0.572	0.808	0.990

	GPM			
	5 PSI	10 PSI	20 PSI	30 PSI
CP4916-98	0.442	0.625	0.884	1.08
CP4916-103	0.461	0.653	0.923	1.13
CP4916-107	0.518	0.733	1.04	1.27
CP4916-110	0.548	0.775	1.10	1.34
CP4916-115	0.605	0.855	1.21	1.48
CP4916-120	0.629	0.890	1.26	1.54
CP4916-125	0.693	0.980	1.39	1.70
CP4916-128	0.721	1.02	1.44	1.77
CP4916-132	0.774	1.10	1.55	1.90
CP4916-136	0.840	1.19	1.68	2.06
CP4916-140	0.894	1.27	1.79	2.19
CP4916-144	0.926	1.31	1.85	2.27
CP4916-147	0.953	1.35	1.91	2.33
CP4916-151	1.04	1.47	2.08	2.55
CP4916-156	1.10	1.55	2.20	2.69
CP4916-161	1.15	1.63	2.31	2.83
CP4916-166	1.21	1.72	2.43	2.97
CP4916-170	1.30	1.84	2.61	3.19
CP4916-172	1.36	1.92	2.71	3.32
CP4916-177	1.41	2.00	2.83	3.46
CP4916-182	1.47	2.08	2.95	3.61
CP4916-187	1.56	2.21	3.12	3.82
CP4916-196	1.73	2.45	3.46	4.24
CP4916-205	1.88	2.65	3.75	4.59
CP4916-218	2.11	2.98	4.21	5.16
CP4916-234	2.45	3.47	4.91	6.01
CP4916-250	2.83	4.00	5.66	6.93