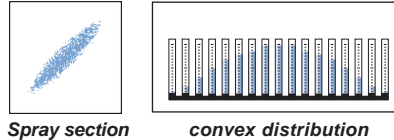
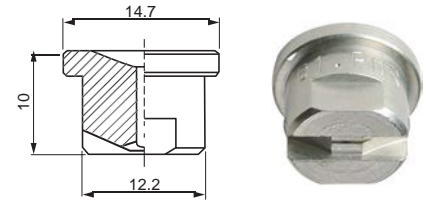


LOW CAPACITY

Flat fan nozzle tips are usually mounted onto a pipe by means of a welded nipple or a clamp, and secured in place with a retaining nut. They can be easily replaced and the jet can be conveniently oriented in the desired direction.

The tips models shown on this page delivery very low flow values. Their precisely machined small orifices can be protected from clogging by means of a filter assembled inside our nipples and clamps that are designed for this purpose. Please find more information on page 44.



Spray section

convex distribution

■ Connection: Flange

■ Typical applications

Washing: semiconductor and precision parts cleaning

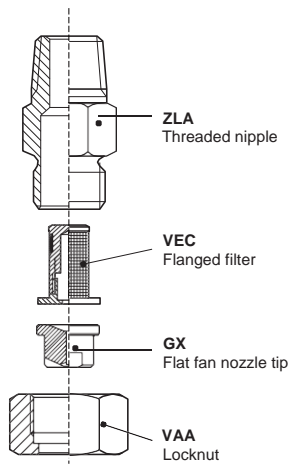
Cooling: continuous casting, product cooling

Lubrication: spray of lubricating oils and release agents

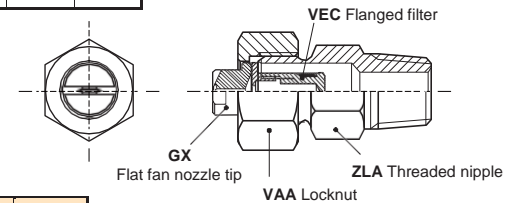
Other applications: spray of flavouring agents, cooling oil and antifoulant chemicals

GXD 25°	GXL 40°	GXN 50°	GXR 65°	Capacity code	D mm	Capacity at different pressure values									
						(l/min) (bar)									
						0.5	1.0	1.5	2.0	3.0	4.0	5.0	7.0	10	
				0060	0.28				0.05	0.06	0.07	0.08	0.09	0.11	
				0100	0.34				0.08	0.10	0.12	0.13	0.15	0.18	
			•	0130	0.38				0.11	0.13	0.15	0.17	0.20	0.24	
		•	•	0200	0.46		0.12	0.14	0.16	0.20	0.23	0.26	0.31	0.37	
				0260	0.53		0.15	0.18	0.21	0.26	0.30	0.34	0.40	0.47	
				0390	0.66		0.23	0.28	0.32	0.39	0.45	0.50	0.60	0.71	
•	•	•	•	0590	0.79	0.24	0.34	0.42	0.48	0.59	0.68	0.76	0.90	1.08	
•	•	•	•	0780	0.91	0.32	0.45	0.55	0.64	0.78	0.90	1.01	1.19	1.42	
				1120	1.10	0.49	0.69	0.85	0.98	1.20	1.39	1.55	1.83	2.19	
				1160	1.30	0.65	0.92	1.13	1.31	1.60	1.85	2.07	2.44	2.92	

GXS 73°	GXT 80°	GXV 95°	GXJ 110°	Capacity code	D mm	Capacity at different pressure values									
						(l/min) (bar)									
						0.5	1.0	1.5	2.0	3.0	4.0	5.0	7.0	10	
				0060	0.28				0.05	0.06	0.07	0.08	0.09	0.11	
				0100	0.34				0.08	0.10	0.12	0.13	0.15	0.18	
			•	0130	0.38				0.11	0.13	0.15	0.17	0.20	0.24	
				0150	0.40				0.12	0.15	0.17	0.19	0.23	0.27	
				0200	0.46		0.12	0.14	0.16	0.20	0.23	0.26	0.31	0.37	
				0260	0.53		0.15	0.18	0.21	0.26	0.30	0.34	0.40	0.47	
		•	•	0390	0.66		0.23	0.28	0.32	0.39	0.45	0.50	0.60	0.71	
•	•	•	•	0590	0.79	0.24	0.34	0.42	0.48	0.59	0.68	0.76	0.90	1.08	
•	•	•	•	0780	0.91	0.32	0.45	0.55	0.64	0.78	0.90	1.01	1.19	1.42	
				1120	1.10	0.49	0.69	0.85	0.98	1.20	1.39	1.55	1.83	2.19	
•	•	•	•	1160	1.30	0.65	0.92	1.13	1.31	1.60	1.85	2.07	2.44	2.92	



Assembly fittings



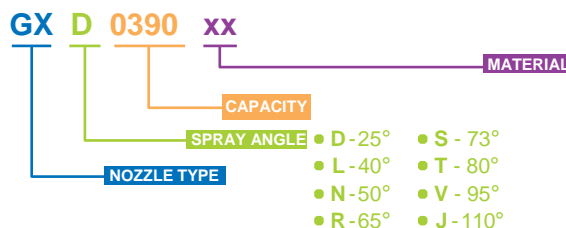
MATERIAL PROCESSING

Because of the extreme difficulty of working hard materials such as stainless steels with very small profile drills, not all the capacity sizes shown in the nozzle table are available in all materials. The table below shows the minimum capacity values we can produce for each given material. Please contact our sales for more information.

Material	0060	0100	0130	0150	0200	0260	0390	0590	0780	1120	1160
B31 - AISI 316L SS								•	•	•	•
B1 - AISI 303 SS			•	•	•	•	•	•	•	•	•
T1 - Brass	•	•	•	•	•	•	•	•	•	•	•

HOW TO MAKE UP THE NOZZLE CODE

EX.: GXD 0390 B1

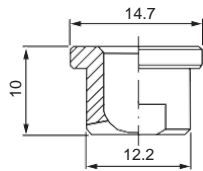


- B1 - AISI 303 Stainless steel
- B31 - AISI 316L Stainless steel
- T1 - Brass

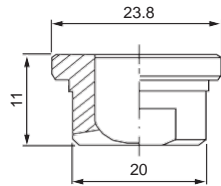
- D - 25°
- L - 40°
- N - 50°
- R - 65°
- S - 73°
- T - 80°
- V - 95°
- J - 110°



3/8" Standard capacity



3/4" Large capacity



STANDARD AND LARGE CAPACITIES

Flat fan nozzle tips are usually mounted onto a pipe by means of a welded 3/8" nipple or a clamp, and secured in place with a retaining nut. They can be easily replaced and their jet can be conveniently oriented in the desired direction. These nozzles are available in two types: 3/8" standard capacity and 3/4" large capacity. The tip is assembled with a pipe clamp, a welding nipple and a locknut. Please find more information on page 44.

Typical applications

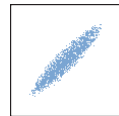
Washing: filter cloth cleaning, parts cleaning, vehicles cleaning

Cooling: steel cooling, product cooling

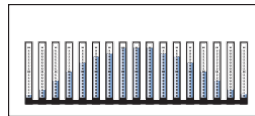
Lubrication: spray of lubricating oil and release agents

Other applications: spray of antifoulant chemicals, etc.

Connection: Flange



Spray section



Convex distribution

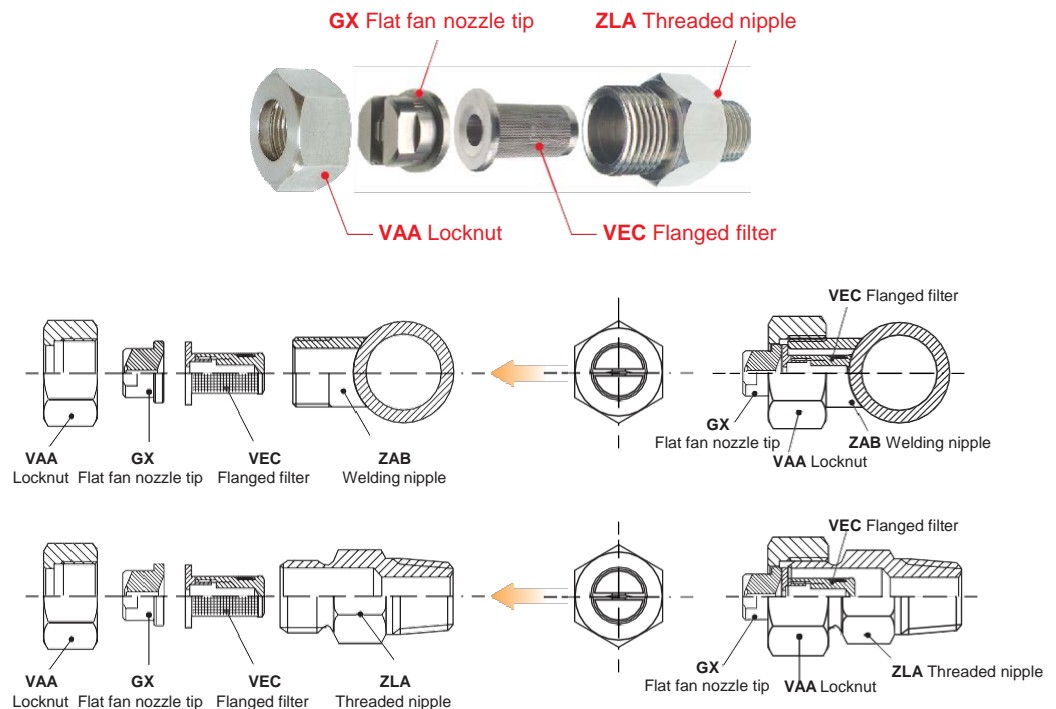


SPRAY ANGLE CODES

GXA	GXF	GXM	GXQ	GXU	GXW
0°	30°	45°	60°	90°	120°

ASSEMBLY FITTINGS

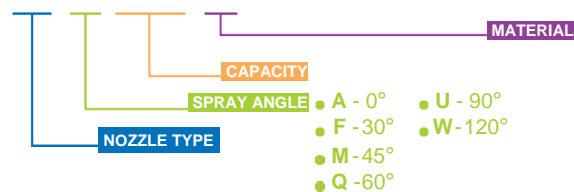
This illustration shows a typical assembly of a nozzle tip with a locknut and a welding nipple.



HOW TO MAKE UP THE NOZZLE CODE

EX.: GXA 1310 B1

GX A 1310 XX



- B1 - AISI 303 Stainless steel
- B31 - AISI 316L Stainless steel
- T1 - Brass

STANDARD AND LARGE CAPACITIES

3/8" STANDARD CAPACITY TIPS

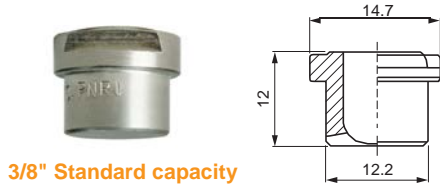
GXA 0°	GXF 30°	GXM 45°	GXQ 60°	GXU 90°	GXW 120°	Code	D mm	Capacity at different pressure values									
								(l/min) (bar)									
								0.5	1.0	1.5	2.0	3.0	4.0	5.0	7.0	10	
•	•	•	•	•	•	1190	1.30	0.78	1.10	1.34	1.55	1.90	2.19	2.45	2.90	3.47	
•	•	•	•	•	•	1233	1.50	0.95	1.35	1.65	1.90	2.33	2.69	3.01	3.56	4.25	
•	•	•	•	•	•	1310	1.70	1.27	1.79	2.19	2.53	3.10	3.58	4.00	4.74	5.66	
•	•	•	•	•	•	1385	1.80	1.57	2.22	2.72	3.14	3.85	4.45	4.97	5.88	7.03	
•	•	•	•	•	•	1490	2.10	2.00	2.83	3.46	4.00	4.90	5.66	6.33	7.48	8.95	
•	•	•	•	•	•	1581	2.30	2.37	3.35	4.11	4.74	5.81	6.71	7.50	8.87	10.6	
•	•	•	•	•	•	1780	2.70	3.18	4.50	5.52	6.37	7.80	9.01	10.1	11.9	14.2	
•	•	•	•	•	•	1980	3.00	4.00	5.66	6.93	8.00	9.80	11.3	12.7	15.0	17.9	
•	•	•	•	•	•	2124	3.40	5.06	7.16	8.77	10.1	12.4	14.3	16.0	18.9	22.6	
•	•	•	•	•	•	2153	3.80	6.25	8.83	10.8	12.5	15.3	17.7	19.8	23.4	27.9	
•	•	•	•	•	•	2194	4.30	7.92	11.2	13.7	15.8	19.4	22.4	25.0	29.6	35.4	
•	•	•	•	•	•	2245	4.80	10.0	14.1	17.3	20.0	24.5	28.3	31.6	37.4	44.7	

3/4" LARGE CAPACITY TIPS

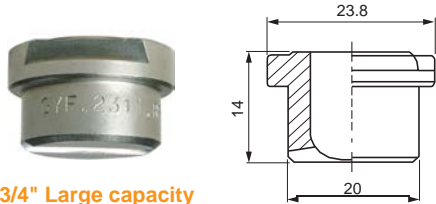
GXA 0°	GXF 30°	GXM 45°	GXQ 60°	GXU 90°	GXW 120°	Code	D mm	Capacity at different pressure values									
								(l/min) (bar)									
								0.5	1.0	1.5	2.0	3.0	4.0	5.0	7.0	10	
•	•	•	•	•	•	1781	2.70	3.18	4.50	5.52	6.37	7.80	9.01	10.1	11.9	14.2	
•	•	•	•	•	•	1981	3.00	4.00	5.66	6.93	8.00	9.80	11.3	12.7	15.0	17.9	
•	•	•	•	•	•	2125	3.40	5.06	7.16	8.77	10.1	12.4	14.3	16.0	18.9	22.6	
•	•	•	•	•	•	2154	3.80	6.25	8.83	10.8	12.5	15.3	17.7	19.8	23.4	27.9	
•	•	•	•	•	•	2195	4.30	7.92	11.2	13.7	15.8	19.4	22.4	25.0	29.6	35.4	
•	•	•	•	•	•	2246	4.80	10.0	14.1	17.3	20.0	24.5	28.3	31.6	37.4	44.7	
•	•	•	•	•	•	2311	5.40	12.7	18.0	22.0	25.4	31.1	35.9	40.1	47.5	56.8	
•	•	•	•	•	•	2490	6.40	20.0	28.3	34.6	40.0	49.0	56.6	63.3	74.8	89.5	
•	•	•	•	•	•	2610	7.50	24.9	35.2	43.1	49.8	61.0	70.4	78.8	93.2	111	
•	•	•	•	•	•	2760	8.30	31.0	43.9	53.7	62.1	76.0	87.8	98.1	116	139	
•	•	•	•	•	•	3122	12.5	49.8	70.4	86.3	99.6	122	141	158	186	223	

ASSEMBLY FITTINGS CODING

Name	Code and material	Appearance	Standard size 3/8"	Large size 3/4"
Locknut 	B1 - AISI 303 SS B3 - AISI 316 SS T1 - Brass D6 - Fiberglass reinforced PP		VAA 0380 xx	VAA 0750 xx
Welding nipple 	B1 - AISI 303 SS B31- AISI 316L SS		ZAA 1738 xx	ZAA 2775 xx
Threaded nipple 	B1 - AISI 303 SS B31- AISI 316L SS T1 - Brass		ZLA 2538 xx	ZLA 7575 xx
Metal pipe clamp 	B1 - AISI 303 SS T1 - Brass		ZPM	=
Plastic pipe clamp 	D6 - Fiberglass reinforced PP		ZPB 0050 D6	=
Plastic bayonet pipe clamp 	D82 - PVDF		ZPC 0050 D82	=
Flanged filter 	B1 - AISI 303 SS B3 - AISI 316 SS T1 - Brass D3 - Polyamide		VEC 0138 xx	=



3/8" Standard capacity



3/4" Large capacity

STANDARD AND LARGE CAPACITIES

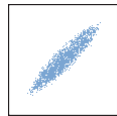
GY flat fan nozzle tips are usually mounted onto a pipe by means of a welding nipple and secured in place with a retaining nut. Therefore, they can be easily replaced and their dovetail connection assures an always precise assembly as the nozzle can be assembled only when the flat fan is properly oriented. They are available in three types: 3/8" standard capacity, 3/4" large capacity and 1" extra-large capacity. The tip models shown on this page deliver the most popular capacity values, while GY flat fan tips with bigger capacities and sizes can be manufactured on request and supplied with matching dovetail nipples and retaining nuts. Please find information about instalment and accessories on page 89.

■ **Connection:** Dovetail flat fan tips

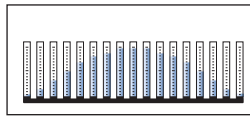
■ **Typical applications**

Washing: steel cleaning
filter cloth cleaning
parts cleaning

Cooling: steel cooling, product cooling



Spray section



Convex distribution



SPRAY ANGLE CODES

GYA	GYF	GYM	GYQ	GYU	GYW
0°	30°	45°	60°	90°	120°

ASSEMBLY FITTINGS

The picture below shows a GY nozzle tip (in the middle) assembled with a dovetail nipple (right) and a locknut (left).

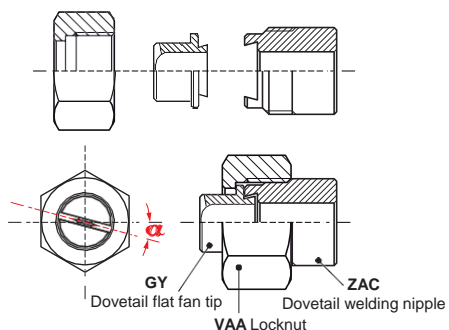


Locknut

Dovetail flat fan tip

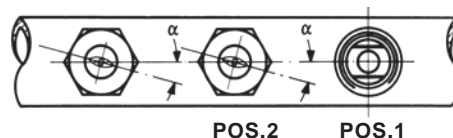
Dovetail welding nipple

GY ASSEMBLY FITTINGS



DOVETAIL NIPPLES

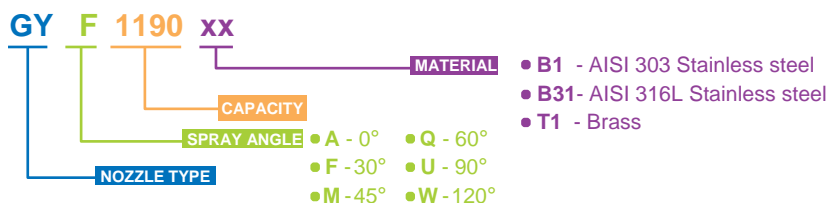
GY nozzle tips are assembled onto their own series of matching dovetail nipples, to assure perfect alignment: the two tip sizes require nipples and caps as shown in the table below. The orientation of the spray jets, properly inclined to avoid their interfering, is automatically obtained welding the nipples in place with their dovetail aligned along the pipe axis. This is easily done by running a straight rule across the dovetail profile machined on the nipple.



See values for jet deviation angle (α) beside capacity tables next page.

HOW TO MAKE UP THE NOZZLE CODE

EX.: GYF 1190 B1



STANDARD AND LARGE CAPACITIES

3/8" STANDARD CAPACITY TIPS

Jet deviation angle $\alpha = 5^\circ$





GYF 30°	GYM 45°	GYQ 60°	GYU 90°	GYW 120°	Capacity code	D mm	Capacity at different pressure values (l/min) (bar)									
							0.5	1.0	1.5	2.0	3.0	4.0	5.0	7.0	10	
					1190	1.30	0.78	1.10	1.34	1.55	1.90	2.19	2.45	2.90	3.47	
					1233	1.50	0.95	1.35	1.65	1.90	2.33	2.69	3.01	3.56	4.25	
•	•	•	•	•	1310	1.70	1.27	1.79	2.19	2.53	3.10	3.58	4.00	4.74	5.66	
•	•	•	•	•	1385	1.80	1.57	2.22	2.72	3.14	3.85	4.45	4.97	5.88	7.03	
					1490	2.10	2.00	2.83	3.46	4.00	4.90	5.66	6.33	7.48	8.95	
					1581	2.30	2.37	3.35	4.11	4.74	5.81	6.71	7.50	8.87	10.6	
•	•	•	•	•	1780	2.70	3.18	4.50	5.52	6.37	7.80	9.01	10.1	11.9	14.2	
•	•	•	•	•	1980	3.00	4.00	5.66	6.93	8.00	9.80	11.3	12.7	15.0	17.9	
					2124	3.40	5.06	7.16	8.77	10.1	12.4	14.3	16.0	18.9	22.6	
					2153	3.80	6.25	8.83	10.8	12.5	15.3	17.7	19.8	23.4	27.9	
•	•	•	•	•	2194	4.30	7.96	11.3	13.8	15.9	19.5	22.5	25.2	29.8	35.6	

3/4" LARGE CAPACITY TIPS

Jet deviation angle $\alpha = 15^\circ$

GYA 0°	GYF 30°	GYM 45°	GYQ 60°	GYU 90°	GYW 120°	Capacity code	D mm	Capacity at different pressure values (l/min) (bar)									
								0.5	1.0	1.5	2.0	3.0	4.0	5.0	7.0	10	
	•	•	•	•	•	1781	2.70	3.18	4.50	5.52	6.37	7.80	9.01	10.1	11.9	14.2	
	•	•	•	•	•	1981	3.00	4.00	5.66	6.93	8.00	9.80	11.3	12.7	15.0	17.9	
•	•	•	•	•	•	2125	3.40	5.06	7.16	8.77	10.1	12.4	14.3	16.0	18.9	22.6	
•	•	•	•	•	•	2154	3.80	6.25	8.83	10.8	12.5	15.3	17.7	19.8	23.4	27.9	
•	•	•	•	•	•	2195	4.30	7.92	11.2	13.7	15.8	19.4	22.4	25.0	29.6	35.4	
•	•	•	•	•	•	2246	4.80	10.0	14.2	17.4	20.1	24.6	28.4	31.8	37.6	44.9	
•	•	•	•	•	•	2311	5.40	12.7	18.0	22.0	25.4	31.1	35.9	40.1	47.5	56.8	
•	•	•	•	•	•	2490	6.40	20.0	28.3	34.6	40.0	49.0	56.6	63.3	74.8	89.5	
•	•	•	•	•	•	2610	7.50	24.9	35.2	43.1	49.8	61.0	70.4	78.8	93.2	111	
	•	•	•	•	•	2760	8.30	31.0	43.9	53.7	62.1	76.0	87.8	98.1	116	139	
	•	•	•			3122	12.5	49.8	70.4	86.3	99.6	122	141	158	186	223	

ASSEMBLY FITTINGS CODING

Name	Code and material	Appearance	Model no.	
			Standard size 3/8"	Large size 3/4"
Locknut 	B1 - AISI 303 SS B3 - AISI 316 SS T1 - Brass		VAA 0381 xx	VAA 0750 xx
Dovetail welding nipple 	B1 - AISI 303 SS B31 - AISI 316L SS		ZAC 1738 xx	ZAC 2775 xx

HOW TO MAKE UP THE NOZZLE CODE

EX.: GYF 1190 B1

