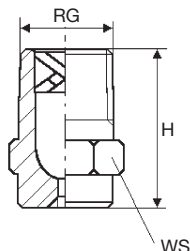


D



TWO-PIECE NOZZLES

D type nozzles offer a simple and efficient design for a full cone nozzle, that is a wide passage X- style vane assembled into a male threaded body. For sizes up to 3/8" the vane is locked in place, which allows the nozzle to be fitted under any possible orientation without the risk of the vane falling out.

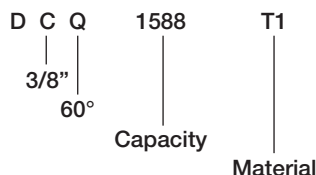
D type nozzles are offered with capacities ranging from 1.18 to 1470 lpm, a full choice of spray angles, and connections from 1/8" to 4". Normally stocked in the materials listed below, they are often manufactured on request in several super-alloys.

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

How to make up the nozzle code

The coding for D type nozzles uses the second digit to indicate the connection thread size.

Therefore, according to the desired thread size and material, the code for a D type nozzle is worked out as follows:



The table below gives coding and dimensions for different thread sizes, for nozzles shown both on this page and the next page.

Thread size coding table

RG inch	Code	H mm	WS mm
1/8	DA	19.5	12.0
1/4	DB	22.0	14.0
3/8	DC	25.0	17.0
1/2	DD	33.0	22.0

Spray angle 45°

DAM	DBM	DCM	DDM	Code	D mm	D1 mm	Capacity at different pressure values							lpm bar
							0.7	1.0	2.0	3.0	5.0	7.0	10	
•				1118 xx	1.1	1.0	0.57	0.68	0.96	1.18	1.52	1.80	2.15	
•				1147 xx	1.2	1.1	0.71	0.85	1.20	1.47	1.90	2.25	2.68	
•				1188 xx	1.3	1.2	0.91	1.09	1.54	1.88	2.43	2.87	3.43	
•				1212 xx	1.4	1.2	1.02	1.22	1.73	2.12	2.74	3.24	3.87	
•				1235 xx	1.5	1.3	1.14	1.36	1.92	2.35	3.03	3.59	4.29	
•				1294 xx	1.7	1.5	1.42	1.70	2.40	2.94	3.80	4.49	5.37	
	•	•		1370 xx	2.0	1.8	1.79	2.14	3.02	3.70	4.78	5.65	6.76	
	•	•		1470 xx	2.1	2.0	2.27	2.71	3.84	4.70	6.07	7.18	8.58	
	•	•		1588 xx	2.3	2.0	2.84	3.39	4.80	5.88	7.59	8.98	10.7	
	•	•		1659 xx	2.5	2.2	3.18	3.80	5.38	6.59	8.51	10.1	12.0	
		•	•	1740 xx	2.7	2.3	3.57	4.27	6.04	7.40	9.55	11.3	13.5	
			•	1835 xx	2.8	2.6	4.03	4.82	6.82	8.35	10.8	12.8	15.2	
			•	1940 xx	3.0	3.0	4.54	5.43	7.68	9.40	12.1	14.4	17.2	
			•	2105 xx	3.2	3.2	5.07	6.06	8.57	10.5	13.5	16.0	19.2	
			•	2117 xx	3.4	3.3	5.65	6.75	9.55	11.7	15.1	17.9	21.4	
			•	2147 xx	3.8	3.7	7.10	8.49	12.0	14.7	19.0	22.5	26.8	
			•	2188 xx	4.3	4.3	9.08	10.9	15.4	18.8	24.3	28.7	34.3	
			•	2235 xx	5.0	4.5	11.4	13.6	19.2	23.5	30.3	35.9	42.9	

Spray angle 60°

DAQ	DBQ	DCQ	DDQ	Code	D	D1	0.7	1.0	2.0	3.0	5.0	7.0	10
•				1118 xx	1.2	0.8	0.57	0.68	0.96	1.18	1.52	1.80	2.15
•				1147 xx	1.3	1.0	0.71	0.85	1.20	1.47	1.90	2.25	2.68
•				1188 xx	1.4	1.1	0.91	1.09	1.54	1.88	2.43	2.87	3.43
•				1212 xx	1.5	1.2	1.02	1.22	1.73	2.12	2.74	3.24	3.87
•				1235 xx	1.6	1.2	1.14	1.36	1.92	2.35	3.03	3.59	4.29
•				1294 xx	1.8	1.3	1.42	1.70	2.40	2.94	3.80	4.49	5.37
•	•			1370 xx	2.0	1.4	1.79	2.14	3.02	3.70	4.78	5.65	6.76
	•	•		1470 xx	2.4	1.9	2.27	2.71	3.84	4.70	6.07	7.18	8.58
	•	•		1588 xx	2.6	2.0	2.84	3.39	4.80	5.88	7.59	8.98	10.7
	•	•		1659 xx	2.7	2.0	3.18	3.80	5.38	6.59	8.51	10.1	12.0
	•	•		1740 xx	2.9	2.0	3.57	4.27	6.04	7.40	9.55	11.3	13.5
	•	•		1835 xx	3.2	2.8	4.03	4.82	6.82	8.35	10.8	12.8	15.2
	•	•		1940 xx	3.2	2.8	4.54	5.43	7.68	9.40	12.1	14.4	17.2
	•	•		2100 xx	3.4	3.0	5.07	6.06	8.57	10.5	13.5	16.0	19.2
		•	•	2117 xx	3.6	3.0	5.65	6.75	9.55	11.7	15.1	17.9	21.4
			•	2147 xx	4.0	3.3	7.10	8.49	12.0	14.7	19.0	22.5	26.8
			•	2188 xx	4.5	3.7	9.08	10.9	15.4	18.8	24.3	28.7	34.3
			•	2235 xx	5.2	4.5	11.4	13.6	19.2	23.5	30.3	35.9	42.9
			•	2294 xx	5.8	4.7	14.2	17.0	24.0	29.4	38.0	44.9	53.7

TWO-PIECE NOZZLES

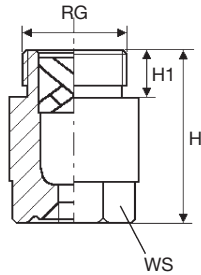
Spray angle 90°

DAU	DBU	DCU	DDU	Code	D mm	D1 mm	Capacity at different pressure values							lpm bar
							0.7	1.0	2.0	3.0	5.0	7.0	10	
•				1118 xx	1.2	0.8	0.57	0.68	0.96	1.18	1.52	1.80	2.15	
•				1147 xx	1.3	1.0	0.71	0.85	1.20	1.47	1.90	2.25	2.68	
•				1188 xx	1.4	1.2	0.91	1.09	1.54	1.88	2.43	2.87	3.43	
•				1212 xx	1.5	1.2	1.02	1.22	1.73	2.12	2.74	3.24	3.87	
•				1235 xx	1.6	1.3	1.14	1.36	1.92	2.35	3.03	3.59	4.29	
•	•			1294 xx	1.8	1.3	1.42	1.70	2.40	2.94	3.80	4.49	5.37	
•	•			1370 xx	2.0	1.4	1.79	2.14	3.02	3.70	4.78	5.65	6.76	
	•	•		1470 xx	2.3	1.8	2.27	2.71	3.84	4.70	6.07	7.18	8.58	
	•	•		1588 xx	2.6	1.8	2.84	3.39	4.80	5.88	7.59	8.98	10.7	
	•	•		1659 xx	2.7	2.0	3.18	3.80	5.38	6.59	8.51	10.1	12.0	
	•	•		1740 xx	2.9	2.0	3.57	4.27	6.04	7.40	9.55	11.3	13.5	
	•	•		1835 xx	3.3	2.0	4.03	4.82	6.82	8.35	10.8	12.8	15.2	
	•	•		1940 xx	3.3	2.4	4.54	5.43	7.68	9.40	12.1	14.4	17.2	
	•	•		2105 xx	3.5	2.6	5.07	6.06	8.57	10.5	13.5	16.0	19.2	
		•		2117 xx	3.7	2.7	5.65	6.75	9.55	11.7	15.1	17.9	21.4	
		•		2147 xx	4.0	3.2	7.10	8.49	12.0	14.7	19.0	22.5	26.8	
		•		2164 xx	4.1	3.2	7.92	9.47	13.4	16.4	21.2	25.1	29.9	
			•	2188 xx	4.7	3.2	9.08	10.9	15.4	18.8	24.3	28.7	34.3	
			•	2235 xx	5.2	3.8	11.4	13.6	19.2	23.5	30.3	35.9	42.9	
			•	2294 xx	5.8	3.8	14.2	17.0	24.0	29.4	38.0	44.9	53.7	
			•	2370 xx	6.4	3.8	17.9	21.4	30.2	37.0	47.8	56.5	67.6	

Spray angle 120°

DAW	DBW	DCW	DDW	Code	D	D1	0.7	1.0	2.0	3.0	5.0	7.0	10
•				1118 xx	1.2	0.8	0.57	0.68	0.96	1.18	1.52	1.80	2.15
•				1147 xx	1.3	0.9	0.71	0.85	1.20	1.47	1.90	2.25	2.68
•				1188 xx	1.5	1.0	0.91	1.09	1.54	1.88	2.43	2.87	3.43
•				1212 xx	1.6	1.1	1.02	1.22	1.73	2.12	2.74	3.24	3.87
•				1235 xx	1.6	1.2	1.14	1.36	1.92	2.35	3.03	3.59	4.29
•				1294 xx	1.9	1.3	1.42	1.70	2.40	2.94	3.80	4.49	5.37
•				1370 xx	2.1	1.4	1.79	2.14	3.02	3.70	4.78	5.65	6.76
	•	•		1470 xx	2.4	1.6	2.27	2.71	3.84	4.70	6.07	7.18	8.58
	•	•		1588 xx	2.7	1.8	2.84	3.39	4.80	5.88	7.59	8.98	10.7
	•	•		1659 xx	3.0	1.8	3.18	3.80	5.38	6.59	8.51	10.1	12.0
	•	•		1740 xx	3.1	1.9	3.57	4.27	6.04	7.40	9.55	11.3	13.5
	•	•		1835 xx	3.3	1.9	4.03	4.82	6.82	8.35	10.8	12.8	15.2
	•	•		1940 xx	3.5	1.9	4.54	5.43	7.68	9.40	12.1	14.4	17.2
	•	•		2105 xx	3.7	2.3	5.07	6.06	8.57	10.5	13.5	16.0	19.2
		•		2117 xx	3.8	2.4	5.65	6.75	9.55	11.7	15.1	17.9	21.4
		•		2147 xx	4.2	2.7	7.10	8.49	12.0	14.7	19.0	22.5	26.8
		•		2164 xx	4.4	2.7	7.92	9.47	13.4	16.4	21.2	25.1	29.9
		•	•	2188 xx	4.6	3.1	9.08	10.9	15.4	18.8	24.3	28.7	34.3
			•	2235 xx	5.3	3.3	11.4	13.6	19.2	23.5	30.3	35.9	42.9
			•	2294 xx	5.9	4.1	14.2	17.0	24.0	29.4	38.0	44.9	53.7
			•	2370 xx	6.6	4.7	17.9	21.4	30.2	37.0	47.8	56.5	67.6

D



TWO-PIECE NOZZLES/LARGE CAPACITY

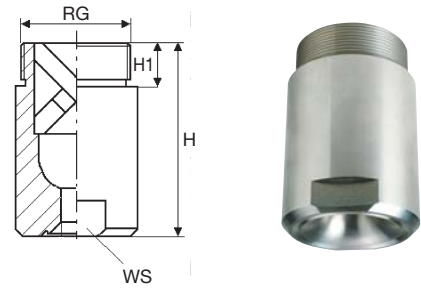
The larger nozzles in the D series maintain the simple design of the smaller D series nozzles, but they are resistant to clogging due to the X-vane design they inherit. These nozzles are often manufactured out of high quality alloys and special plastic materials and are widely used in many industrial processes.

- Materials**
- B1 AISI 303 Stainless steel
 - B31 AISI 316L Stainless steel
 - T1 Brass
- On request special materials are quoted

Code	RG inch	D mm	D1 mm	Capacity at different pressure values							lpm bar	Dimensions mm			
				0.7	1.0	2.0	3.0	5.0	7.0	10		H	H1	WS	
60°															
DEQ 2235 xx	3/4	4.8	3.5	11.4	13.6	19.2	23.5	30.3	35.9	42.9	43	16	27		
DEQ 2295 xx		5.5	4.5	14.2	17.0	24.1	29.5	38.1	45.1	53.9					
DEQ 2370 xx		6.0	4.5	17.9	21.4	30.2	37.0	47.8	56.5	67.6					
DEQ 2470 xx		7.0	4.5	22.7	27.1	38.4	47.0	60.7	71.8	85.8					
DFQ 2470 xx	1	7.0	5.6	22.7	27.1	38.4	47.0	60.7	71.8	85.8	58	18	36		
DFQ 2590 xx		7.8	5.6	28.5	34.1	48.2	59.0	76.2	90.1	108					
DFQ 2740 xx		9.5	5.6	35.7	42.7	60.4	74.0	95.5	113	135					
DGQ 2740 xx	1 1/4	9.5	5.6	35.7	42.7	60.4	74.0	95.5	113	135	74	19	41		
DGQ 3118 xx		12.5	6.0	57.0	68.1	96.3	118	152	180	215					
DHQ 3147 xx	1 1/2	13.0	9.0	71.0	84.9	120	147	190	225	268	85	19	50		
DKQ 3188 xx	2	15.0	9.0	90.8	109	154	188	243	287	343	106	24	60		
DKQ 3235 xx		16.0	11.0	114	136	192	235	303	359	429					
DKQ 3294 xx		17.0	11.1	142	170	240	294	380	449	537					
DLQ 3370 xx	2 1/2	17.5	11.1	179	214	302	370	478	565	676	128	27	75		
DLQ 3470 xx		23.0	11.1	227	271	384	470	607	718	858					
DMQ 3588 xx	3	28.0	14.3	284	339	480	588	759	898	1074	153	30	85		
DNQ 3740 xx	3 1/2	29.0	17.5	357	427	604	740	955	1130	1351	190	32	105		
DNQ 3940 xx		36.0	17.5	454	543	768	940	1214	1436	1716					
DPQ 4117 xx	4	39.0	19.0	568	678	959	1175	1517	1795	2145	205	36	110		

Code	RG inch	D mm	D1 mm	Capacity at different pressure values							lpm bar	Dimensions mm		
				0.7	1.0	2.0	3.0	5.0	7.0	10		H	H1	WS
90°														
DEU 2295 xx	3/4	5.8	3.0	14.2	17.0	24.1	29.5	38.1	45.1	53.9	43	16	27	
DEU 2370 xx		6.4	4.5	17.9	21.4	30.2	37.0	47.8	56.5	67.6				
DEU 2470 xx		8.0	4.5	22.7	27.1	38.4	47.0	60.7	71.8	85.8				
DFU 2590 xx	1	8.6	4.5	28.5	34.1	48.2	59.0	76.2	90.1	108	58	18	36	
DFU 2740 xx		9.3	5.0	35.7	42.7	60.4	74.0	95.5	113	135				
DFU 2830 xx		9.9	6.0	40.3	48.2	68.2	83.5	108	128	152				
DGU 3118 xx	1 1/4	13.0	6.0	57.0	68.1	96.3	118	152	180	215	74	19	41	
DGU 3147 xx		16.0	6.0	71.0	84.9	120	147	190	225	268				
DHU 3188 xx	1 1/2	14.5	9.0	90.8	109	154	188	243	287	343	85	19	50	
DKU 3235 xx	2	16.6	11.0	114	136	192	235	303	359	429	106	24	60	
DKU 3294 xx		18.0	11.0	142	170	240	294	380	449	537				
DKU 3370 xx		25.0	11.0	179	214	302	370	478	565	676				
DLU 3470 xx	2 1/2	27.0	11.1	227	271	384	470	607	718	858	128	27	75	
DLU 3588 xx		30.0	14.3	284	339	480	588	759	898	1074				
DMU 3740 xx	3	30.0	17.5	357	427	604	740	955	1130	1351	153	30	85	
DMU 3870 xx		32.5	17.5	420	502	710	870	1123	1329	1588				
DNU 3940 xx	3 1/2	35.5	17.5	454	543	768	940	1214	1436	1716	190	32	105	
DNU 4117 xx		39.0	19.0	568	678	959	1175	1517	1795	2145				
DPU 4147 xx	4	42.8	25.4	710	849	1200	1470	1898	2245	2684	205	36	110	

TWO-PIECE NOZZLES/LARGE CAPACITY



Code	RG inch	D mm	D1 mm	Capacity at different pressure values								lpm bar	Dimensions mm		
				0.7	1.0	2.0	3.0	5.0	7.0	10	H		H1	WS	
120°	DEW 2295 xx	3/4	5.1	3.0	14.2	17.0	24.1	29.5	38.1	45.1	53.9	43	16	27	
	DEW 2370 xx		6.5	3.5	17.9	21.4	30.2	37.0	47.8	56.5	67.6				
	DEW 2470 xx		8.5	4.5	22.7	27.1	38.4	47.0	60.7	71.8	85.8				
	DFW 2590 xx	1	11.5	4.5	28.5	34.1	48.2	59.0	76.2	90.1	108	58	18	36	
	DFW 2740 xx		12.0	4.5	35.7	42.7	60.4	74.0	95.5	113	135				
	DFW 2830 xx		13.0	5.6	40.3	48.2	68.2	83.5	108	128	152				
	DGW 3118 xx	1 1/4	13.5	6.0	57.0	68.1	96.3	118	152	180	215	74	19	41	
	DGW 3147 xx		17.0	6.0	71.0	84.9	120	147	190	225	268				
	DHW 3188 xx	1 1/2	20.0	9.0	90.8	109	154	188	243	287	343	85	19	50	
	DKW 3235 xx	2	18.0	11.0	114	136	192	235	303	359	429	106	24	60	
	DKW 3294 xx		19.0	11.0	142	170	240	294	380	449	537				
	DKW 3370 xx		21.3	11.0	179	214	302	370	478	565	676				
DLW 3470 xx	2 1/2	23.5	11.1	227	271	384	470	607	718	858	128	27	75		
DLW 3588 xx		26.5	14.3	284	339	480	588	759	898	1074					
DMW 3740 xx	3	29.5	17.5	357	427	604	740	955	1130	1351	153	30	85		
DMW 3870 xx		32.0	17.5	420	502	710	870	1123	1329	1588					
DNW 3940 xx	3 1/2	33.5	17.5	454	543	768	940	1214	1436	1716	190	32	105		
DNW 4117 xx		37.0	19.0	568	678	959	1175	1517	1795	2145					
DPW 4147 xx	4	42.0	25.4	710	849	1200	1470	1898	2245	2684	205	36	110		