

# ( FULL CONE NOZZLES / SQUARE SPRAY ) BF / BH

X-VANE / SQUARE SPRAY PATTERN / TWO-PIECE DESIGN

BF/BH type nozzles have a simple two-piece design producing a square section spray pattern. They are the convenient choice where the coverage of a surface is required to be as even as possible. Their X-vane ensures uniform spray distribution and resistance to clogging, also when working with large capacities. The sides of the square spray section are not aligned with the



grooves of the nozzle orifice and the offset angle is between 10° and 15° depending on working pressure and distance from the impact surface. Therefore, utmost attention must be paid during the nozzles overlay setting. They must be carefully aligned and adjusted according to the operating situation.

THREAD SPECIFICATION

**BH:** Male (BSPT, NPT)

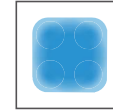
**BF:** Female (BSP, NPT)



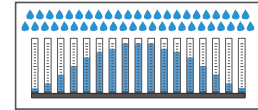
BH



BF



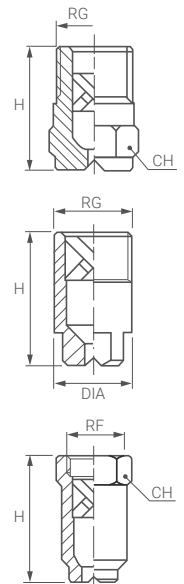
Spray section



Convex distribution

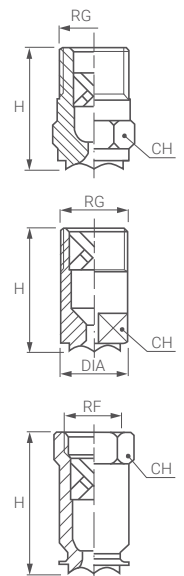
BFS Female	BHQ Male	CODE	RF RG inch	D mm	D1 mm	Capacity at different pressure values (l/min) (bar)							Spray angle at pressure (°) (bar)			
						0.7	1.0	2.0	3.0	5.0	7.0	10	0.5	1.5	3.0	6.0
	•	1270	1/8"	1.7	1.3	1.30	1.56	2.21	2.70	3.49	4.12	4.93	40°	52°	60°	47°
	•	1350		1.9	1.3	1.69	2.02	2.86	3.50	4.52	5.35	6.39	48°	63°	60°	57°
	•	1440		2.2	1.3	2.13	2.54	3.59	4.40	5.68	6.72	8.03	60°	66°	65°	60°
	•	1740	1/4"	2.8	1.6	3.58	4.27	6.04	7.40	9.55	11.3	13.5	62°	67°	65°	61°
	•	1890		3.2	1.6	4.30	5.14	7.27	8.90	11.5	13.6	16.3	70°	75°	65°	68°
	•	2107		3.8	1.6	5.17	6.18	8.74	10.7	13.8	16.3	19.5	78°	82°	65°	75°
	•	2133	3/8"	4.0	2.4	6.42	7.68	10.9	13.3	17.2	20.3	24.3	71°	75°	62°	68°
	•	2210	1/2"	5.5	3.2	10.1	12.1	17.1	21.0	27.1	32.1	38.3	71°	75°	64°	68°
	•	2270		6.4	3.2	13.0	15.6	22.1	27.0	34.9	41.2	49.3	78°	82°	65°	75°
	•	2370	3/4"	6.7	4.4	17.9	21.4	30.2	37.0	47.8	56.5	67.6	71°	75°	64°	68°
•		2780	1"	1.9	1.3	37.7	45.0	63.7	78.0	101	119	142	78°	80°	78°	73°
•		3131	1 1/4"	2.4	1.3	63.3	75.6	107	131	169	200	239	78°	80°	78°	73°
•		3170	1 1/2"	2.8	1.6	82.1	98.1	139	170	219	260	310	73°	77°	78°	70°
•		3215	2"	3.2	1.6	104	124	176	215	278	328	393	66°	70°	72°	64°
•		3265		3.8	1.6	128	153	216	265	342	405	484	70°	74°	75°	67°
•		3355		1.6	1.3	171	205	290	355	458	542	648	79°	82°	75°	74°
•		3360	2 1/2"	1.9	1.3	174	208	294	360	465	550	657	62°	67°	70°	61°
•		3435		2.4	1.3	210	251	355	435	562	664	794	75°	78°	80°	71°
•		3700		2.8	1.6	338	404	572	700	904	1069	1278	81°	84°	76°	76°
•		4220	5"	1.9	1.3	1063	1270	1796	2200	2840	3361	4017	89°	91°	75°	83°
•		4420	6"	2.4	1.3	2029	2425	3429	4200	5422	6416	7668	102°	105°	78°	95°

STANDARD SPRAY ANGLE



BFW Female	BHW Male	CODE	RF RG inch	D mm	D1 mm	Capacity (l/min) at different pressure values (bar)							Spray angle (°) at pressure (bar)		
						0.7	1.0	2.0	3.0	5.0	7.0	10	0.3	0.7	6.0
	•	2100	1/4"	3.2	1.6	4.83	5.77	8.16	10.0	12.9	15.3	18.3	99°	101°	93°
	•	2122	3/8"	3.9	1.6	5.89	7.04	9.96	12.2	15.8	18.6	22.3	99°	101°	93°
	•	2144		4.0	2.4	6.96	8.31	11.8	14.4	18.6	22.0	26.3	104°	110°	94°
	•	2172		4.6	2.4	8.31	9.93	14.0	17.2	22.2	26.3	31.4	104°	110°	94°
	•	2194		5.4	2.4	9.37	11.2	15.8	19.4	25.0	29.6	35.4	104°	110°	98°
	•	2220	1/2"	4.8	3.0	10.6	12.7	18.0	22.0	28.4	33.6	40.2	104°	110°	102°
	•	2250		5.1	3.0	12.1	14.4	20.4	25.0	32.3	38.2	45.6	104°	110°	102°
	•	2290		5.7	3.0	14.0	16.7	23.7	29.0	37.4	44.3	52.9	104°	110°	102°
	•	2320		7.0	3.0	15.5	18.5	26.1	32.0	41.3	48.9	58.4	104°	110°	102°
	•	2360		8.0	3.0	17.4	20.8	29.4	36.0	46.5	55.0	65.7	104°	110°	102°
•	•	2500	3/4"	8.5	4.5	24.2	28.9	40.8	50.0	64.6	76.4	91.3	105°	110°	102°
•	•	2930	1"	11.6	5.6	44.9	53.7	75.9	93.0	120	142	170	107°	110°	107°
•		3134	1 1/4"	14.5	6.0	64.7	77.4	109	134	173	205	245	108°	111°	109°
•		3200	1 1/2"	18.2	9.0	96.6	115	163	200	258	306	365	109°	114°	109°
•		3395	2"	24.0	11.1	191	228	323	395	510	603	721	110°	114°	109°
•		3590	2 1/2"	26.0	14.3	285	341	482	590	762	901	1077	110°	115°	109°
•		3800	3"	31.5	17.5	386	462	653	800	1033	1222	1461	110°	115°	109°

WIDE SPRAY ANGLE

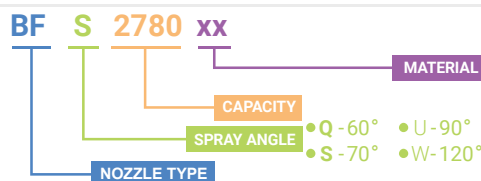


Dim.	inch	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	5"	6"	
H	mm	22	23	30	39	55	70	88	102	138	175	187	311	366	
CH	mm	12	14	17	21	27	32	40	50	60	85	100	170	200	
DIA	mm					32	38								
W	kg	0.01	0.02	0.03	0.04	0.20	0.35	0.55	0.80	1.6	2.0	7.8	18	25	
MANUFACTURE		MACHINE						CASTING							

DIMENSIONS AND WEIGHTS

HOW TO MAKE UP THE NOZZLE CODE

EX.: BFS 2780 B1



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