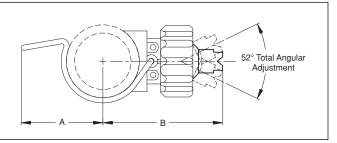
Clip-on spray nozzles





DIMENSIONS

PIPE	Dim.	Dim.
SIZE	Α	В
1"	45 mm	73 mm
11/4	51 mm	77 mm
11/2	54 mm	80 mm
2"	61 mm	89 mm

SPRAY CHARACTERISTICS:

These nozzles simply clip over a pre-drilled pipe (15mm dia. hole) and are available with a variety of spray balls, in various spray patterns, flow rates and spray angles.

CONSTRUCTION:

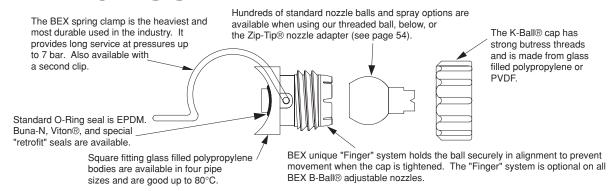
Made of corrosion-resistant plastic and stainless steel. Heavy-duty spring clip good to 6 bar at 80°C. A 316SS clip is also available, if required.

TYPICAL APPLICATIONS:

- Parts Cleaning
- Pretreatment
- Spray Washing & Rinsing

Double clip model also available.

THE BEX "FINGER" SYSTEM



HOW TO ORDER COMPLETE K-BALL ASSEMBLIES

Use the correct body part number (from the parts listed in BOLD at the right), followed by the model number for the nozzle ball (see pages 59 and 60).

Example:

BF5070 nozzle balls are needed to fit onto a 1-1/4" pipe. Accurate alignment of the nozzles is critical, so the 1-1/4" body with "fingers" will be used. The correct PART number for this K-Ball nozzle assembly is 1.2KFBF5070.

K-BALL BODY COLORS AND PART NUMBERS

1"	1-1/4"	1-1/2"	2"
1K (white)	1.2K (grey)	1.5K (black)	2K (tan)
1KF (green)	1.2KF (yellow)	1.5KF (red)	2KF (blue)
1KCL	1.2KCL	1.5KCL	2KCL
KOR	KOR	KOR	KOR
KCAP	KCAP	KCAP	KCAP
	1K (white) 1KF (green) 1KCL KOR	1K (white) 1.2K (grey) 1KF (green) 1.2KF (yellow) 1KCL 1.2KCL KOR KOR	1K (white) 1.2K (grey) 1.5K (black) 1KF (green) 1.2KF (yellow) 1.5KF (red) 1KCL 1.2KCL 1.5KCL KOR KOR KOR

SPRAY BALL: CHOOSE FROM THE TABLES ON PAGES 59 AND 60.

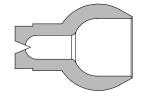
BF FLAT-V SPRAY NOZZLE BALLS (for 1", 1-1/4", 1-1/2" and 2" pipe)

SPRAY CHARACTERISTICS:

COLOR CODING:

Spray is fan-shaped with spray angles of 15° to The more popular models of the flat-V spray 110°. Spray density tapers off toward the outside to permit overlapping of the spray patterns while maintaining uniform spray density.

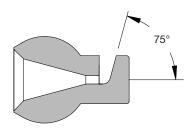
nozzle balls are color coded by flowrate for easier identification.



SPRAY	l		EQUIV. ORIFICE DIAMETER				CITY (L/min) AT VARIOUS P							NGLE @
ANGLE @ 3 bar	MODEL NUMBER	SPRAY BALL	DIAMETER	0.3	0.5	0.7	1	1.5	2	3	4	5 bor	1.5	3
	1	COLOUR	(mm) 4.62	bar 7.5	<u>bar</u> 9.7	bar 11.4	bar 13.7	<u>bar</u> 16.7	bar 19.3	bar 23.7	bar 27.3	<u>bar</u> 30.6	bar 107°	<u>bar</u> 110°
110° 95°	BF11060 BF9530	Blue Purple	3.28										63°	95°
90	BF9540	Green	3.78	3.7 5.0	4.8 6.4	5.7 7.6	6.8 9.1	8.4 11.2	9.7 12.9	11.8 15.8	13.7 18.2	15.3 20.4	63°	95°
	BF9550	Yellow	4.24	6.2	8.1	9.5	11.4	14.0	16.1	19.7	22.8	25.5	63°	95°
	BF9560	Blue	4.62	7.5	9.7	11.4	13.7	16.7	19.3	23.7	27.3	30.6	63°	95°
80°	BF8010	White	1.91	1.25	1.61	1.91	0.61	2.79	3.2	3.9	4.6	5.1	75°	80°
00	BF8020	Light Blue	2.67	2.50	3.2	3.8	4.6	5.6	6.4	7.9	9.1	10.2	63°	80°
	BF8030	Purple	3.28	3.7	4.8	5.7	6.8	8.4	9.7	11.8	13.7	15.3	63°	80°
	BF8040	Green	3.78	5.0	6.4	7.6	9.1	11.2	12.9	15.8	18.2	20.4	76°	80°
	BF8050	Yellow	4.24	6.2	8.1	9.5	11.4	14.0	16.1	19.7	22.8	25.5	77°	80°
	BF8060	Blue	4.62	7.5	9.7	11.4	13.7	16.7	19.3	23.7	27.3	30.6	77°	80°
	BF8070	Red	5.00	8.7	11.3	13.3	16.0	19.5	22.6	27.6	32	36	78°	80°
	BF80100	Brown	5.99	12.5	16.1	19.1	22.8	27.9	32	39	46	51	75°	80°
65°	BF6520	Light Blue	2.67	2.50	3.2	3.8	4.6	5.6	6.4	7.9	9.1	10.2	63°	65°
	BF6530	Purple	3.28	3.7	4.8	5.7	6.8	8.4	9.7	11.8	13.7	15.3	63°	65°
	BF6540	Green	3.78	5.0	6.4	7.6	9.1	11.2	12.9	15.8	18.2	20.4	63°	65°
	BF6550	Yellow	4.24	6.2	8.1	9.5	11.4	14.0	16.1	19.7	22.8	25.5	63°	65°
	BF6560	Blue	4.62	7.5	9.7	11.4	13.7	16.7	19.3	23.7	27.3	30.6	63°	65°
	BF6570	Red	5.00	8.7	11.3	13.3	16.0	19.5	22.6	27.6	32	36	63°	65°
	BF65100	Brown	5.99	12.5	16.1	19.1	22.8	27.9	32	39	46	51	58°	65°
50°	BF5020	Light Blue	2.67	2.50	3.2	3.8	4.6	5.6	6.4	7.9	9.1	10.2	63°	50°
	BF5030	Purple	3.28	3.7	4.8	5.7	6.8	8.4	9.7	11.8	13.7	15.3	63°	50°
	BF5040	Green	3.78	5.0	6.4	7.6	9.1	11.2	12.9	15.8	18.2	20.4	43°	50°
	BF5050	Yellow	4.24	6.2	8.1	9.5	11.4	14.0	16.1	19.7	22.8	25.5	43°	50°
	BF5060	Blue	4.62	7.5	9.7	11.4	13.7	16.7	19.3	23.7	27.3	30.6	43°	50°
	BF5070	Red	5.00	8.7	11.3	13.3	16.0	19.5	22.6	27.6	32	36	43°	50°
	BF50100	Brown	5.99	12.5	16.1	19.1	22.8	27.9	32	39	46	51	44°	50°
40°	BF4040	Green	3.78	5.0	6.4	7.6	9.1	11.2	12.9	15.8	18.2	20.4	33°	40°
	BF4050	Yellow	4.24	6.2	8.1	9.5	11.4	14.0	16.1	19.7	22.8	25.5	35°	40°
	BF4060	Blue	4.62	7.5	9.7	11.4	13.7	16.7	19.3	23.7	27.3	30.6	37°	40°
	BF4070	Red	5.00	8.7	11.3	13.3	16.0	19.5	22.6	27.6	32	36	35°	40°
	BF40100 BF2540	Brown	5.99	12.5	16.1	19.1	22.8	27.9	32	39	46	51	33°	40°
25°	BF2550	Green Yellow	3.78	5.0 6.2	6.4 8.1	7.6 9.5	9.1 11.4	11.2 14.0	12.9 16.1	15.8 19.7	18.2 22.8	20.4 25.5	22° 20°	25° 25°
	1		4.24	6.2 7.5	9.7		I	16.7					18°	25°
	BF2560 BF2570	Blue Red	4.62 5.00	7.5 8.7	11.3	11.4 13.3	13.7 16.0	19.5	19.3 22.6	23.7 27.6	27.3 32	30.6 36	19°	25°
	BF25100	Brown	5.00	12.5	16.1	19.1	22.8	27.9	32	39	46	51	21°	25°
15°	BF15100	Brown	5.99	12.5	16.1	19.1	22.8	27.9	32	39	46	51	13°	15°
13	BF15100	Black	6.55	15.0	19.3	22.9	27.3	33	39	47	55	61	12°	15°
	BF15150	Black	7.34	18.7	24.2	28.6	34	42	48	59	68	76	12°	15°
		<u> Diaok</u>				2.0						, 0	14	- 10

BFL FLOODING SPRAY NOZZLE BALLS

(for 1", 1-1/4", 1-1/2" and 2" pipe)



SPRAY CHARACTERISTICS:

A wide, flat shaped spray with low impact. The spray is deflected 75° from the centerline of the nozzle, as shown.

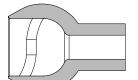
TYPICAL APPLICATIONS:

Flooding nozzles are often used at the beginning and end of phosphate stages, to prevent mist carry over. They can also be used for "wetting" surfaces during long drain stages.

	EQUIV. ORIFICE	CAPACITY (L/min) AT VARIOUS PRESSURES (bar)									SPRAY ANGLE @		
MODEL NUMBER	DIAMETER (mm)	0.2 bar	0.3 bar	0.5 bar	0.7 bar	1 bar	1.5 bar	2 bar	2.5 bar	3 bar	4 bar	0.5 bar	1.5 bar
BFL5	1.93	1.02	1.25		1.91	2.28		3.2	3.6	3.9	4.6	114°	130°
			- 1								-		
BFL10	2.79	2.04	2.50	3.2	3.8	4.6	5.6	6.4	7.2	7.9	9.1	134°	146°
BFL18	3.78	3.7	4.5	5.8	6.9	8.2	10.0	11.6	13.0	14.2	16.4	130°	142°
BFL24	4.24	4.9	6.0	7.7	9.2	10.9	13.4	15.5	17.3	18.9	21.9	121°	136°
BFL30	4.65	6.1	7.5	9.7	11.4	13.7	16.7	19.3	21.6	23.7	27.3	120°	133°
BFL40	5.54	8.2	10.0	12.9	15.3	18.2	22.3	25.8	28.8	31.6	36	130°	144°

BPH HOLLOW CONE PHOSPHATING NOZZLE BALLS

(for 1", 1-1/4", 1-1/2" and 2" pipe)



SPRAY CHARACTERISTICS:

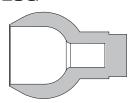
A hollow cone pattern with low impact. BPH nozzle balls are made of glass reinforced polypropylene. Available in three models.

TYPICAL APPLICATIONS:

Designed specifically for phosphate stages. This large droplet, low impact spray results in tighter and more consistent phosphate crystalline structure. It minimizes the misting of phosphate spray, thus reducing 'pre-coating', streaking, and carry over to adjacent stages.

	SPRAY	MAXIMUM FREE	CA	CAPACITY (L/min) AT VARIOUS PRESSURES (bar)										SPRAY ANGLE @			
MODEL	BALL	PASSAGE	0.2	0.3	0.5	0.7	1	1.5	2	3	4	0.3	0.5	0.7	1.5		
NUMBER	COLOR	(mm)	bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	bar	bar		
BPH28	White	4.56	5.7	7.0	9.0	10.7	12.8	15.6	18.0	22.1	25.5	44°	52°	53°	55°		
BPH51	Grey	1.91	10.2	12.5	16.1	19.1	22.8	27.9	32.2	39	46	37°	40°	42°	48°		
BPH53	Black	3.78	10.2	12.5	16.1	19.1	22.8	27.9	32.2	39	46	62°	70°	71°	73°		

KPLUG SHUT-OFF PLUG



TYPICAL APPLICATIONS:

The KPLUG nozzle ball is used in place of any other nozzle ball to completely shut off the flow through the assembly.