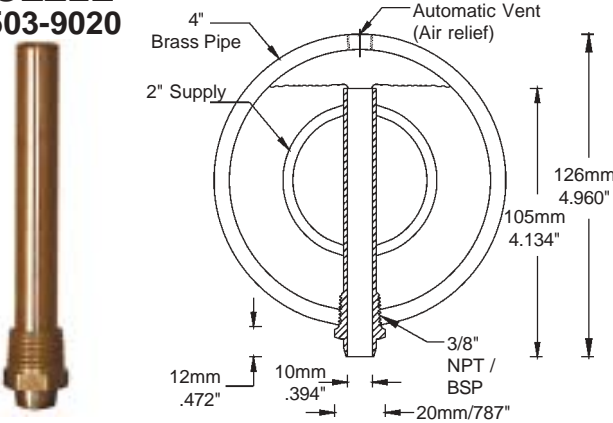


PEM 0114 RAIN CURTAIN NOZZLE #503-9020

PEM 0114 Nozzle is designed for medium size free falling rain curtain effects to provide an even outflow of all nozzles over the length of a rain curtain effect. PEM 0114 is made of brass and has 3/8" NPT male pipe thread. The discharge manifold to be 4" pipe size. The 0114 nozzles are threaded into the bottom of the discharge manifold pipe, care is to be taken, that all nozzles are inserted to the same depth.



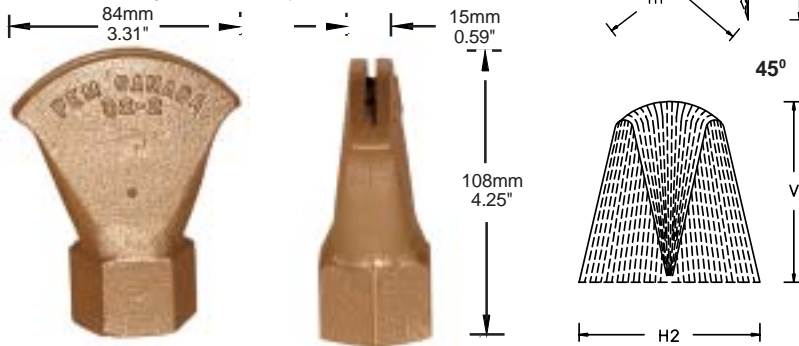
The discharge manifold must have provisions for adjustment to a perfect horizontal balance throughout the full length of the pipe as the nozzles act as overflows within the discharge pipe. Supply pressure must be valve regulated. On regular intervals the discharge pipe also to have air vents on the top, automatic for pressure filled discharge pipe or just open vents for non pressure filled pipe (water does not rise to top of discharge pipe). The water effect discharged is a ragged, broken stream of droplets depending in size on the head of water overflowing into the nozzle. The less head the finer and further apart the droplets. At full pressure a ragged stream of water is ejected.

Closest spacing of nozzles: 25 mm \ 1.0" center to center.
Flow requirements range from 1 Liter /Quart per minute for 10 nozzles to app. 25 L/min \ 6.6 USGPM per nozzle.

Basic Rule: The less water, the better the equal horizontal alignment of all nozzle intakes must be. **SS = 3mm\0.125"**

PEM 02-1 & 02-2 FAN JETS

#504-1100, PEM 02-1, T = 3/4"
#504-1200, PEM 02-2, T = 1"



Performances at 45°

H1	H2	V	FL	MC
m	m	m	L	m
0.50	1.20	0.25	13	2.20
1.00	2.80	0.60	39	2.70
1.50	4.40	0.95	56	3.60
2.00	6.00	1.30	71	7.00
Ft	Ft	Ft	G	Ft
2.0	4.9	1.1	4.8	6.9
3.0	8.2	1.2	8.8	8.1
4.0	11.2	2.5	11.9	10.0
5.0	14.4	3.2	14.8	14.2
6.0	17.8	3.9	17.2	16.9
7.0	21.0	4.5	19.6	17.4

Vertical Performances

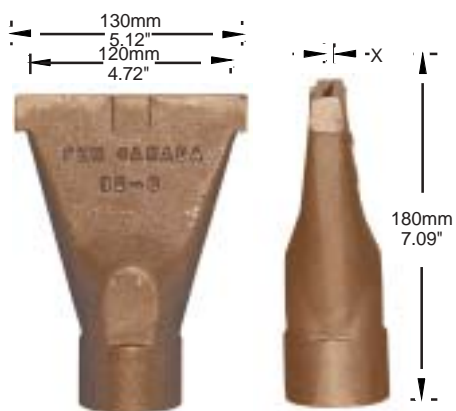
V	H2	FL	MC
m	m	L	m
0.5	2.0	35	1.10
1.0	5.0	62	1.60
1.5	8.0	84	2.70
Ft	Ft	G	Ft
2.0	9.2	11.9	4.0
3.0	14.8	15.6	5.3
4.0	21.0	19.1	6.3
5.0	26.2	22.2	8.9

PEM 02 Series Fan Jets are made of cast bronze. Best solid sheet performances are at lower performances shown. Water supply to jet must be undisturbed, non turbulent. For directional adjustment use PEM 500 series Swivel Union. Use PEM 02-1, 3/4" for lowest performances only.

X = 4mm x 76mm/0.156" x 3.0" **SS = 3mm/0.125"**

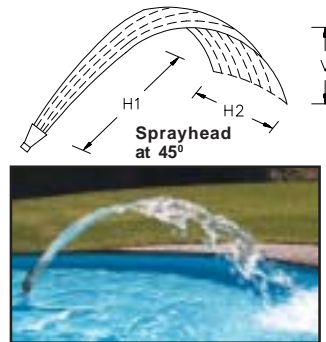
PEM 02-6 NARROW FAN JET

#504-1610, PEM 02-6-1, T = 1 1/2"
#504-1620, PEM 02-6-2, T = 2" (Male)



For directional adjustment use PEM 500 series Swivel Union.

X: 5mm\0.2" X 120mm\4.72", **SS:3.0mm/0.125"**



Performances at 45°

H1	H2	V	FL	MC
m	m	m	L	m
0.5	0.23	0.10	95	0.4
1.0	0.48	0.30	126	0.7
2.0	0.95	0.60	260	1.1
3.0	1.45	1.00	281	1.7
4.0	2.00	1.50	350	2.3
Ft	Ft	Ft	G	Ft
2	0.92	0.70	26.7	1.5
4	1.81	1.35	38.6	2.5
5	2.37	1.80	46.0	3.0
10	4.74	3.30	76.1	5.8
12	5.68	4.80	87.2	6.9

Sprayhead Vertical



Vertical Performances

V	H3	H2	FL	MC
m	m	m	L	m
0.5	0.40	0.50	180	0.7
1.0	0.64	1.00	252	1.2
2.0	1.42	2.30	420	2.2
3.0	2.65	4.20	570	3.2
Ft	Ft	Ft	G	Ft
2	1.48	2.00	54	3.0
4	3.00	4.00	78	6.0
5	4.00	5.70	92	7.0
10	8.70	13.80	154	12.0

PEM 02-6 Fan Jets are made of cast bronze. Best solid sheet performances are at lower performances shown. Water supply to jet to be undisturbed, non turbulent.