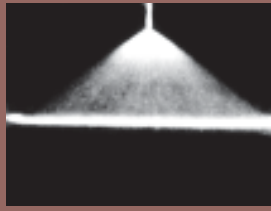
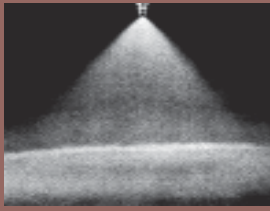


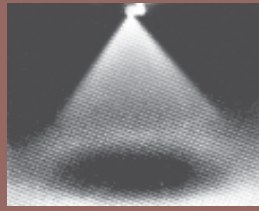
喷嘴按喷射水流分为:It can be classified as the following according to the spray current from nozzle:



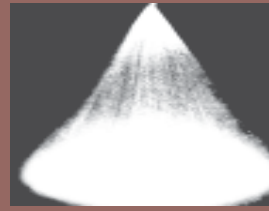
扁平形(B).....2~41
flat shape



实心锥形 (QZ).....42~63
full cone shape



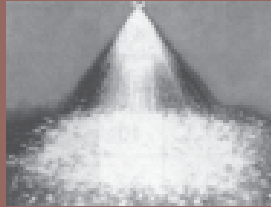
空心锥形(KZ).....64~69
hollow cone shape



椭圆形(TY).....70~73
ellipse shape



方形(F).....74
square shape



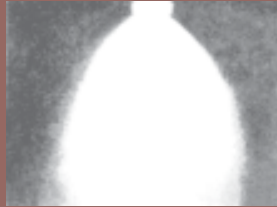
矩形(J).....75~77
rectangle shape



螺旋锥形(LZ).....78~98
spiral cone shape



混合扁平形 (B).....99~138
mixed flat shape



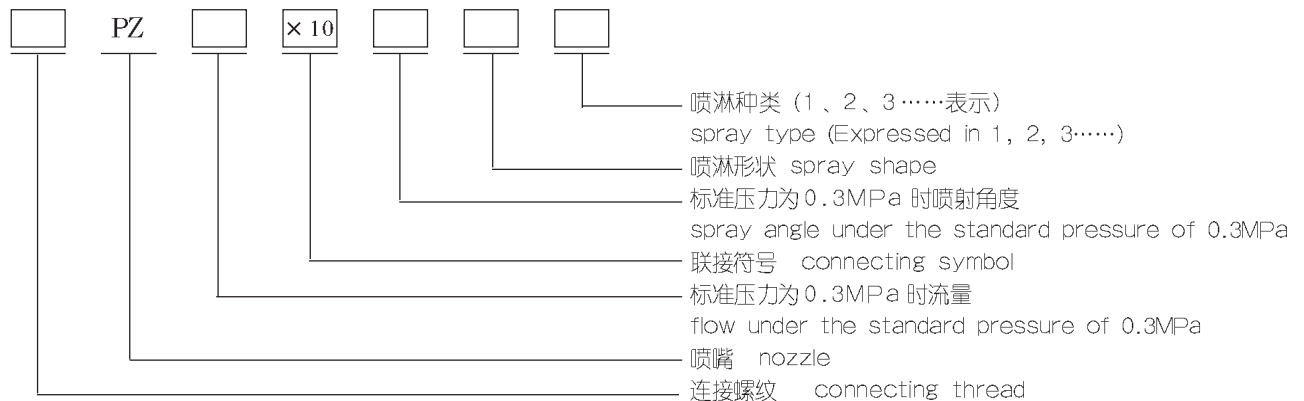
混合锥形 (QZ).....139~142
mixed cone shape



空气雾化.....144~150
air atomizing

喷嘴型号编制 (Denotation of Product Models):

PZ 系列 (series):



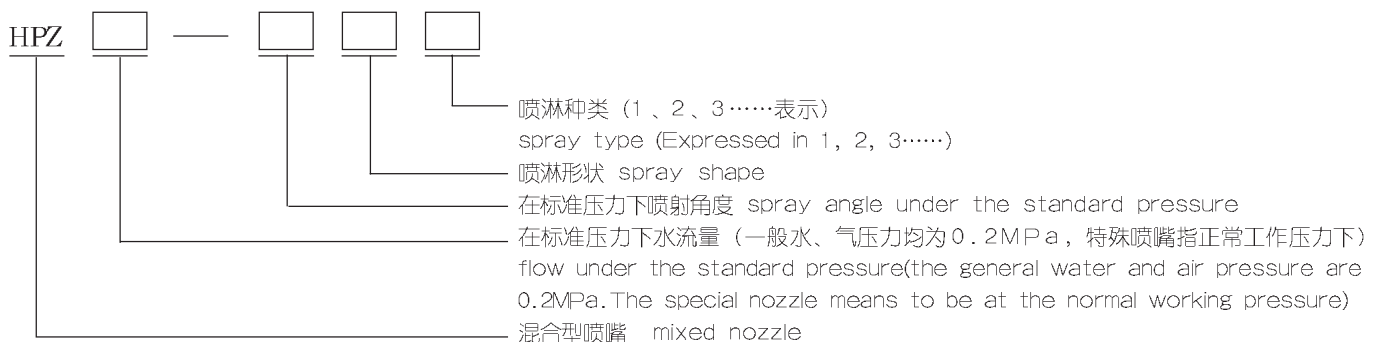
例(for example):3/8PZ7895B1

3/8—接口螺纹interface screw thread
95—喷射角 spray angle(95°)

PZ—喷嘴 nozzle
B—扁平形 flat

78—流量 flow(7.8L/min)
1—喷淋种类号 spray type

HPZ 系列 (series):



例 (for example):HPZ7-140B1

HPZ—混合型喷嘴 mixed nozzle
B—扁平形 flat

7—流量 flow(7L/min) 140—喷射角 spray angle(140°)
1—喷淋种类号 spray type

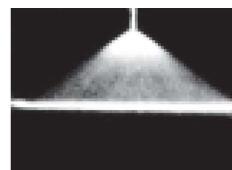
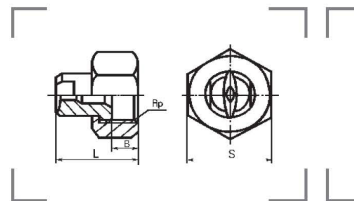
我们的主要产品包括 PZ 系列喷水嘴、HPZ 系列气—水雾化喷嘴、GPZ 系列高压喷嘴等系列产品, 以及涂装、石油化工、造纸、机械润滑、除尘等行业的喷嘴。此样本只是我公司喷嘴典型应用的一部分, 如果您需要包含其它产品选型技术数据的详样本, 请与我们联系。

Our major products include series PZ water nozzle, series HPZ air-water spraying nozzle, series GPZ high-pressure nozzle, nozzle for painting application, petrochemical industry, paper-making, mechanical lubrication, dust removing, etc. This brochure only covers some of our products. If you need more detailed technical data for selecting nozzles, please contact us.

PZ 系列喷嘴

喷雾特性及用途:

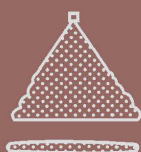
该喷嘴结构紧凑,性能稳定,雾化均匀;其喷雾形状为扁平带状,主要适用于方、板坯连铸机的二次冷却,也适用于需冷却的设备。



Spray Feature and Application:

The nozzle is marked with compact structure, stable performance and even atomization. Its spray pattern is in flat band shape. It is mainly suitable for the secondary cooling of continuous casting machine for bloom/billet and slab as well as apparatus which need to be cooled.

产 品 型 号 Model	材 质 Material	外形 尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)								喷射角(°) Spray angle (degree)		
		S	L	B	R _p	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.15	0.3	0.5	
3/8PZ12110B1	H62 HPb59-1 1Cr18Ni9Ti	22	18	9	3/8	0.68	0.96	1.2	1.4	1.5	1.8	2.1	99	110	117	
3/8PZ16110B1		22	18	9	3/8	0.90	1.3	1.6	1.8	2.0	2.4	2.9	100	110	117	
3/8PZ20110B1		22	18	9	3/8	1.1	1.6	2.0	2.3	2.5	3.0	3.6	100	110	117	
3/8PZ23110B1		22	18	9	3/8	1.4	1.9	2.3	2.7	3.0	3.6	4.3	101	110	116	
3/8PZ31110B1		22	21.5	9	3/8	1.8	2.6	3.1	3.6	4.0	4.8	5.7	102	110	116	
3/8PZ39110B1		22	21.5	9	3/8	2.3	3.2	3.9	4.5	5.0	6.0	7.1	103	110	116	
3/8PZ59110B1		22	21.5	9	3/8	3.4	4.8	5.9	6.8	7.6	9.0	10.7	104	110	115	
3/8PZ78110B1		22	21.5	9	3/8	4.5	6.4	7.8	9.0	10.1	11.9	14.3	105	110	115	
3/8PZ117110B1		22	21.5	9	3/8	6.8	9.6	11.7	13.5	15.1	17.9	21	105	110	115	
3/8PZ1295B1		22	18	9	3/8	0.68	0.96	1.2	1.4	1.5	1.8	2.1	83	95	100	
3/8PZ1695B1		22	18	9	3/8	0.90	1.3	1.6	1.8	2.0	2.4	2.9	84	95	100	
3/8PZ2095B1		22	18	9	3/8	1.1	1.6	2.0	2.3	2.5	3.0	3.6	84	95	100	
3/8PZ2395B1		22	18	9	3/8	1.4	1.9	2.3	2.7	3.0	3.6	4.3	86	95	100	
3/8PZ3195B1		22	21.5	9	3/8	1.8	2.6	3.1	3.6	4.0	4.8	5.7	87	95	100	
3/8PZ3995B1		22	21.5	9	3/8	2.3	3.2	3.9	4.5	5.0	6.0	7.1	89	95	100	
3/8PZ5995B1		22	21.5	9	3/8	3.4	4.8	5.9	6.8	7.6	9.0	10.7	90	95	100	
3/8PZ7895B1		22	21.5	9	3/8	4.5	6.4	7.8	9.0	10.1	11.9	14.3	90	95	99	
3/8PZ11795B1		22	21.5	9	3/8	6.8	9.6	11.7	13.5	15.1	17.9	21	91	95	100	
3/8PZ9895B1		22	21.5	9	3/8	5.67	7.96	9.8	11.62	12.95	14.33	15.35	90	95	99	
3/8PZ11790B1		22	21.5	9	3/8	6.8	9.6	11.7	13.5	15.1	17.9	21	85	90	95	
3/8PZ15695B1		22	24.5	9	3/8	9.0	12.8	15.6	18.1	20	24	29	92	95	99	
3/8PZ19595B1		22	24.5	9	3/8	11.3	16.0	19.5	23	25	30	36	93	95	98	
3/8PZ23095B1		22	24.5	9	3/8	13.5	19.2	23	27	30	36	43	93	95	98	
3/8PZ27095B1		22	24.5	9	3/8	15.8	22	27	32	35	42	50	93	95	98	
3/8PZ1280B1		22	18	9	3/8	0.68	0.96	1.2	1.4	1.5	1.8	2.1	70	80	86	
3/8PZ1680B1		22	18	9	3/8	0.90	1.3	1.6	1.8	2.0	2.4	2.9	71	80	85	
3/8PZ2080B1		22	18	9	3/8	1.1	1.6	2.0	2.3	2.5	3.0	3.6	71	80	85	
3/8PZ2380B1		22	18	9	3/8	1.4	1.9	2.3	2.7	3.0	3.6	4.3	72	80	84	
3/8PZ3180B1		22	18	9	3/8	1.8	2.6	3.1	3.6	4.0	4.8	5.7	72	80	83	
3/8PZ3980B1		22	21.5	9	3/8	2.3	3.2	3.9	4.5	5.0	6.0	7.1	73	80	83	
3/8PZ5980B1		22	21.5	9	3/8	3.4	4.8	5.9	6.8	7.6	9.0	10.7	74	80	82	
3/8PZ7880B1		22	21.5	9	3/8	4.5	6.4	7.8	9.0	10.1	11.9	14.3	74	80	82	
3/8PZ11780B1		22	21.5	9	3/8	6.8	9.6	11.7	13.5	15.1	17.9	21	74	80	82	
3/8PZ15680B1		22	24.5	9	3/8	9.0	12.8	15.6	18.1	20	24	29	74	80	82	
3/8PZ19580B1		22	24.5	9	3/8	11.3	16.0	19.5	23	25	30	36	74	80	82	
3/8PZ23080B1		22	24.5	9	3/8	13.5	19.2	23	27	30	36	43	75	80	82	



PZ 系列喷嘴

产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)								喷射角(°) Spray angle (degree)		
		S	L	B	R _o	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.15	0.3	0.5	
3/8PZ27080B1	H62 HPb59-1 1Cr18Ni9Ti	22	24.5	9	3/8	15.8	22	27	32	35	42	50	75	80	82	
3/8PZ1265B1		22	18	9	3/8	0.68	0.96	1.2	1.4	1.5	1.8	2.1	53	65	71	
3/8PZ1665B1		22	18	9	3/8	0.90	1.3	1.6	1.8	2.0	2.4	2.9	53	65	71	
3/8PZ2065B1		22	18	9	3/8	1.1	1.6	2.0	2.3	2.5	3.0	3.6	53	65	71	
3/8PZ2365B1		22	18	9	3/8	1.4	1.9	2.3	2.7	3.0	3.6	4.3	54	65	71	
3/8PZ3165B1		22	21.5	9	3/8	1.8	2.6	3.1	3.6	4.0	4.8	5.7	55	65	70	
3/8PZ3965B1		22	21.5	9	3/8	2.3	3.2	3.9	4.5	5.0	6.0	7.1	56	65	70	
3/8PZ5965B1		22	21.5	9	3/8	3.4	4.8	5.9	6.8	7.6	9.0	10.7	56	65	69	
3/8PZ7865B1		22	21.5	9	3/8	4.5	6.4	7.8	9.0	10.1	11.9	14.3	57	65	69	
3/8PZ11765B1		22	21.5	9	3/8	6.8	9.6	11.7	13.5	15.1	17.9	21	58	65	68	
3/8PZ15665B1		22	24.5	9	3/8	9.0	12.8	15.6	18.1	20	24	29	59	65	67	
3/8PZ19565B1		22	24.5	9	3/8	11.3	16.0	19.5	23	25	30	36	60	65	67	
3/8PZ23065B1		22	24.5	9	3/8	13.5	19.2	23	27	30	36	43	60	65	67	
3/8PZ27065B1		22	24.5	9	3/8	15.8	22	27	32	35	42	50	60	65	67	
3/8PZ1250B1		22	18	9	3/8	0.68	0.96	1.2	1.4	1.5	1.8	2.1	40	50	55	
3/8PZ1650B1		22	18	9	3/8	0.90	1.3	1.6	1.8	2.0	2.4	2.9	42	50	55	
3/8PZ2050B1		22	18	9	3/8	1.1	1.6	2.0	2.3	2.5	3.0	3.6	44	50	55	
3/8PZ2350B1		22	18	9	3/8	1.4	1.9	2.3	2.7	3.0	3.6	4.3	45	50	55	
3/8PZ3150B1		22	21.5	9	3/8	1.8	2.6	3.1	3.6	4.0	4.8	5.7	45	50	54	
3/8PZ3950B1		22	21.5	9	3/8	2.3	3.2	3.9	4.5	5.0	6.0	7.1	45	50	54	
3/8PZ5950B1		22	21.5	9	3/8	3.4	4.8	5.9	6.8	7.6	9.0	10.7	45	50	54	
3/8PZ7850B1		22	21.5	9	3/8	4.5	6.4	7.8	9.0	10.1	11.9	14.3	45	50	54	
3/8PZ11750B1		22	21.5	9	3/8	6.8	9.6	11.7	13.5	15.1	17.9	21	45	50	54	
3/8PZ15650B1		22	24.5	9	3/8	9.0	12.8	15.6	18.1	20	24	29	46	50	53	
3/8PZ19550B1		22	24.5	9	3/8	11.3	16.0	19.5	23	25	30	36	46	50	53	
3/8PZ23050B1		22	24.5	9	3/8	13.5	19.2	23	27	30	36	43	46	50	53	
3/8PZ27050B1		22	24.5	9	3/8	15.8	22	27	32	35	42	50	46	50	53	
3/8PZ1240B1		22	18	9	3/8	0.68	0.96	1.2	1.4	1.5	1.8	2.1	30	40	48	
3/8PZ1640B1		22	18	9	3/8	0.90	1.3	1.6	1.8	2.0	2.4	2.9	30	40	48	
3/8PZ2040B1		22	18	9	3/8	1.1	1.6	2.0	2.3	2.5	3.0	3.6	31	40	47	
3/8PZ2340B1		22	18	9	3/8	1.4	1.9	2.3	2.7	3.0	3.6	4.3	31	40	47	
3/8PZ3140B1		22	21.5	9	3/8	1.8	2.6	3.1	3.6	4.0	4.8	5.7	31	40	46	
3/8PZ3940B1		22	21.5	9	3/8	2.3	3.2	3.9	4.5	5.0	6.0	7.1	32	40	44	
3/8PZ5940B1		22	21.5	9	3/8	3.4	4.8	5.9	6.8	7.6	9.0	10.7	32	40	44	
3/8PZ7840B1		22	21.5	9	3/8	4.5	6.4	7.8	9.0	10.1	11.9	14.3	32	40	44	
3/8PZ11740B1		22	21.5	9	3/8	6.8	9.6	11.7	13.5	15.1	17.9	21	33	40	44	
3/8PZ15640B1		22	24.5	9	3/8	9.0	12.8	15.6	18.1	20	24	29	34	40	44	
3/8PZ19540B1		22	24.5	9	3/8	11.3	16.0	19.5	23	25	30	36	35	40	44	
3/8PZ23040B1		22	24.5	9	3/8	13.5	19.2	23	27	30	36	43	35	40	44	
3/8PZ27040B1		22	24.5	9	3/8	15.8	22	27	32	35	42	50	35	40	44	
3/8PZ1225B1		22	18	9	3/8	0.68	0.96	1.2	1.4	1.5	1.8	2.1	15	25	31	
3/8PZ1625B1		22	18	9	3/8	0.90	1.3	1.6	1.8	2.0	2.4	2.9	16	25	30	
3/8PZ2025B1		22	18	9	3/8	1.1	1.6	2.0	2.3	2.5	3.0	3.6	16	25	30	
3/8PZ2325B1		22	18	9	3/8	1.4	1.9	2.3	2.7	3.0	3.6	4.3	17	25	30	
3/8PZ3125B1		22	21.5	9	3/8	1.8	2.6	3.1	3.6	4.0	4.8	5.7	17	25	30	
3/8PZ3925B1		22	21.5	9	3/8	2.3	3.2	3.9	4.5	5.0	6.0	7.1	18	25	30	
3/8PZ5925B1		22	21.5	9	3/8	3.4	4.8	5.9	6.8	7.6	9.0	10.7	18	25	30	
3/8PZ7825B1		22	21.5	9	3/8	4.5	6.4	7.8	9.0	10.1	11.9	14.3	19	25	30	

flat nozzle
扁平形喷嘴



PZ 系列喷嘴

扁平形喷嘴
flat nozzle

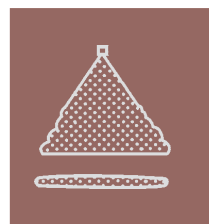
产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)		
		S	L	B	R _D	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.15	0.3	0.5
3/8PZ11725B1	H62 HPb59-1 1Cr18Ni9Ti	22	21.5	9	3/8	6.8	9.6	11.7	13.5	15.1	17.9	21	20	25	29
3/8PZ15625B1		22	24.5	9	3/8	9.0	12.8	15.6	18.1	20	24	29	21	25	28
3/8PZ19525B1		22	24.5	9	3/8	11.3	16.0	19.5	23	25	30	36	21	25	28
3/8PZ23025B1		22	24.5	9	3/8	13.5	19.2	23	27	30	36	43	22	25	28
3/8PZ27025B1		22	24.5	9	3/8	15.8	22	27	32	35	42	50	22	25	28
3/8PZ1215B1		22	18	9	3/8	0.68	0.96	1.2	1.4	1.5	1.8	2.1	6	15	20
3/8PZ1615B1		22	18	9	3/8	0.90	1.3	1.6	1.8	2.0	2.4	2.9	7	15	19
3/8PZ2015B1		22	18	9	3/8	1.1	1.6	2.0	2.3	2.5	3.0	3.6	7	15	19
3/8PZ2315B1		22	18	9	3/8	1.4	1.9	2.3	2.7	3.0	3.6	4.3	8	15	19
3/8PZ3115B1		22	21.5	9	3/8	1.8	2.6	3.1	3.6	4.0	4.8	5.7	9	15	18
3/8PZ3915B1		22	21.5	9	3/8	2.3	3.2	3.9	4.5	5.0	6.0	7.1	10	15	17
3/8PZ5915B1		22	21.5	9	3/8	3.4	4.8	5.9	6.8	7.6	9.0	10.7	10	15	17
3/8PZ7815B1		22	21.5	9	3/8	4.5	6.4	7.8	9.0	10.1	11.9	14.3	10	15	17
3/8PZ11715B1		22	21.5	9	3/8	6.8	9.6	11.7	13.5	15.1	17.9	21	10	15	17
3/8PZ15615B1		22	21.5	9	3/8	9.0	12.8	15.6	18.1	20	24	29	10	15	17
3/8PZ19515B1		22	24.5	9	3/8	11.3	16.0	19.5	23	25	30	36	11	15	17
3/8PZ23015B1		22	24.5	9	3/8	13.5	19.2	23	27	30	36	43	11	15	17
3/8PZ27015B1		22	24.5	9	3/8	15.8	22	27	32	35	42	50	11	15	17
3/8PZ1200B1		22	18	9	3/8	0.68	0.96	1.2	1.4	1.5	1.8	2.1	0° 液柱流 liquid column 		
3/8PZ1600B1		22	18	9	3/8	0.90	1.3	1.6	1.8	2.0	2.4	2.9			
3/8PZ2000B1		22	18	9	3/8	1.1	1.6	2.0	2.3	2.5	3.0	3.6			
3/8PZ2300B1		22	18	9	3/8	1.4	1.9	2.3	2.7	3.0	3.6	4.3			
3/8PZ3100B1		22	21.5	9	3/8	1.8	2.6	3.1	3.6	4.0	4.8	5.7			
3/8PZ3900B1		22	21.5	9	3/8	2.3	3.2	3.9	4.5	5.0	6.0	7.1			
3/8PZ5900B1		22	21.5	9	3/8	3.4	4.8	5.9	6.8	7.6	9.0	10.7			
3/8PZ7800B1		22	21.5	9	3/8	4.5	6.4	7.8	9.0	10.1	11.9	14.3			
3/8PZ11700B1		22	21.5	9	3/8	6.8	9.6	11.7	13.5	15.1	17.9	21			
3/8PZ15600B1		22	24.5	9	3/8	9.0	12.8	15.6	18.1	20	24	29			
3/8PZ19500B1		22	24.5	9	3/8	11.3	16.0	19.5	23	25	30	36			
3/8PZ23000B1		22	24.5	9	3/8	13.5	19.2	23	27	30	36	43			
3/8PZ27000B1		22	24.5	9	3/8	15.8	22	27	32	35	42	50			
3/8PZ1290B1		22	20	9	3/8	0.71	1.00	1.23	1.42	1.58	1.87	2.27	82	90	99
3/8PZ1590B1		22	20	9	3/8	0.88	1.25	1.53	1.77	1.98	2.34	2.8	82	90	99
3/8PZ2090B1		22	20	9	3/8	1.13	1.60	1.96	2.26	2.53	2.99	3.5	82	90	99
3/8PZ2390B1		22	20	9	3/8	1.34	1.90	2.33	2.69	3.00	3.56	4.25	83	90	98
3/8PZ3190B1		22	20	9	3/8	1.77	2.50	3.06	3.53	3.95	4.68	5.6	83	90	98
3/8PZ3990B1		22	20	9	3/8	2.23	3.15	3.86	4.45	4.98	5.89	7.04	83	90	98
3/8PZ4990B1		22	20	9	3/8	2.83	4.00	4.90	5.66	6.33	7.48	8.9	84	90	97
3/8PZ5890B1		22	20	9	3/8	3.36	4.75	5.82	6.71	7.51	8.89	10.6	84	90	97
3/8PZ7790B1		22	20	9	3/8	4.46	6.30	7.72	8.9	9.96	11.79	14.1	84	90	97
3/8PZ9890B1		22	20	9	3/8	5.66	8.00	9.80	11.3	12.65	14.97	17.9	84	90	97
3/8PZ12390B1		22	20	9	3/8	7.07	10.00	12.25	14.3	15.81	18.71	22.4	85	90	96
3/8PZ12120B1		22	20	9	3/8	0.71	1.00	1.23	1.42	1.58	1.87	2.27	103	120	129
3/8PZ15120B1		22	20	9	3/8	0.88	1.25	1.53	1.77	1.98	2.34	2.8	103	120	129
3/8PZ20120B1		22	20	9	3/8	1.13	1.60	1.96	2.26	2.53	2.99	3.5	104	120	128
3/8PZ23120B1		22	20	9	3/8	1.34	1.90	2.33	2.69	3.00	3.56	4.25	104	120	128

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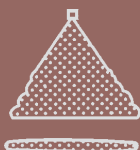
扁平形喷嘴

产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)		
		S	L	B	R _p	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.15	0.3	0.5
3/8PZ31120B1	H62 HPb59-1 1Cr18Ni9Ti	22	20	9	3/8	1.77	2.50	3.06	3.53	3.95	4.68	5.6	104	120	128
3/8PZ39120B1		22	20	9	3/8	2.23	3.15	3.86	4.45	4.98	5.89	7.04	104	120	128
3/8PZ49120B1		22	20	9	3/8	2.83	4.00	4.90	5.66	6.33	7.48	8.9	105	120	126
3/8PZ58120B1		22	20	9	3/8	3.36	4.75	5.82	6.71	7.51	8.89	10.6	105	120	126
3/8PZ77120B1		22	20	9	3/8	4.46	6.30	7.72	8.9	9.96	11.79	14.1	105	120	126
3/8PZ98120B1		22	20	9	3/8	5.66	8.00	9.80	11.3	12.65	14.97	17.9	105	120	126
3/8PZ123120B1		22	20	9	3/8	7.07	10.00	12.25	14.3	15.81	18.71	22.4	105	120	126
3/4PZ7760B1		32	21.7	11.7	3/4	4.45	6.30	7.72	8.9	9.96	11.79	14.1	55	60	63
3/4PZ9860B1		32	21.7	11.7	3/4	5.66	8.00	9.80	11.3	12.65	14.97	17.9	55	60	63
3/4PZ12360B1		32	21.7	11.7	3/4	7.07	10.00	12.25	14.3	15.81	18.71	22.4	55	60	63
3/4PZ15360B1		32	21.7	11.7	3/4	8.84	12.50	15.31	17.7	19.76	23.39	28.0	55	60	63
3/4PZ19660B1		32	21.7	11.7	3/4	11.31	16.00	19.60	22.6	25.30	29.93	35.4	55	60	63
3/4PZ24560B1		32	21.7	11.7	3/4	14.14	20.00	24.49	28.3	31.62	37.42	44.8	55	60	63
3/4PZ30660B1		32	21.7	11.7	3/4	17.68	25.00	30.62	35.4	39.53	46.77	56.6	55	60	63
3/4PZ49060B1		32	21.7	11.7	3/4	28.28	40.00	48.99	56.6	63.25	74.83	90	55	60	63
3/4PZ7790B1		32	21.7	11.7	3/4	4.45	6.30	7.72	8.9	9.96	11.79	14.1	84	90	97
3/4PZ9890B1		32	21.7	11.7	3/4	5.66	8.00	9.80	11.3	12.65	14.97	17.9	84	90	97
3/4PZ12390B1		32	21.7	11.7	3/4	7.07	10.00	12.25	14.3	15.81	18.71	22.4	85	90	96
3/4PZ15390B1		32	21.7	11.7	3/4	8.84	12.50	15.31	17.7	19.76	23.39	28.0	85	90	96
3/4PZ19690B1		32	21.7	11.7	3/4	11.31	16.00	19.60	22.6	25.30	29.93	35.4	85	90	96
3/4PZ24590B1		32	21.7	11.7	3/4	14.14	20.00	24.49	28.3	31.62	37.42	44.8	85	90	96
3/4PZ30690B1		32	21.7	11.7	3/4	17.68	25.00	30.62	35.4	39.53	46.77	56.6	85	90	96
3/4PZ49090B1		32	21.7	11.7	3/4	28.28	40.00	48.99	56.6	63.25	74.83	90	85	90	96
3/4PZ77120B1		32	21.7	11.7	3/4	4.45	6.30	7.72	8.9	9.96	11.79	14.1	105	120	125
3/4PZ98120B1		32	21.7	11.7	3/4	5.66	8.00	9.80	11.3	12.65	14.97	17.9	105	120	125
3/4PZ123120B1		32	21.7	11.7	3/4	7.07	10.00	12.25	14.15	15.81	18.71	22.4	105	120	126
3/4PZ153120B1		32	21.7	11.7	3/4	8.84	12.50	15.31	17.68	19.76	23.39	28.0	105	120	126
3/4PZ196120B1		32	21.7	11.7	3/4	11.31	16.00	19.60	22.63	25.30	29.93	35.4	105	120	126
3/4PZ245120B1		32	21.7	11.7	3/4	14.14	20.00	24.49	28.28	31.62	37.42	44.8	105	120	126
3/4PZ306120B1		32	21.7	11.7	3/4	17.68	25.00	30.62	35.36	39.53	46.77	56.6	105	120	126
3/4PZ490120B1		32	21.7	11.7	3/4	28.28	40.00	48.99	56.57	63.25	74.83	90	105	120	126
3/8PZ1220B1		22	19	9	3/8	0.72	1.01	1.24	1.43	1.6	1.89	2.27	11	20	26
3/8PZ1520B1		22	19	9	3/8	0.88	1.25	1.53	1.77	1.98	2.34	2.8	11	20	26
3/8PZ1920B1		22	19	9	3/8	1.10	1.60	1.90	2.2	2.5	3.0	3.5	11	20	26
3/8PZ2320B1		22	19	9	3/8	1.34	1.90	2.33	2.69	3.0	3.5	4.25	11	20	26
3/8PZ3120B1		22	19	9	3/8	1.80	2.50	3.1	3.6	4.0	4.7	5.6	12	20	25
3/8PZ3920B1		22	19	9	3/8	2.23	3.15	3.85	4.45	4.98	5.9	7.04	12	20	25
3/8PZ4920B1		22	19	9	3/8	2.80	4.0	4.9	5.6	6.3	7.5	8.9	12	20	25
3/8PZ5820B1		22	19	9	3/8	3.36	4.75	5.81	6.7	7.51	8.89	10.6	12	20	25
3/8PZ7820B1		22	19	9	3/8	4.5	6.3	7.8	9.0	10	11.8	14.1	13	20	24
3/8PZ9820B1		22	19	9	3/8	5.7	8.0	9.8	11.3	12.6	15	17.9	13	20	24
3/8PZ12420B1		22	19	9	3/8	7.2	10.1	12.4	14.3	16	18.9	22.4	13	20	24
3/8PZ15320B1		22	19	9	3/8	8.8	12.5	15.3	17.7	19.8	23.4	28.0	15	20	23
3/8PZ19420B1		22	19	9	3/8	11.2	15.8	19.4	22.4	25	29.6	35.4	15	20	23
3/8PZ1230B1		22	19	9	3/8	0.72	1.01	1.24	1.43	1.6	1.89	2.27	19	30	38
3/8PZ1530B1		22	19	9	3/8	0.88	1.25	1.53	1.77	1.98	2.34	2.8	19	30	38
3/8PZ1930B1		22	19	9	3/8	1.10	1.60	1.90	2.2	2.5	3.0	3.5	20	30	37



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产 品 型 号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)								喷射角(°) Spray angle (degree)		
		S	L	B	R _p	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.15	0.3	0.5	
3/8PZ2330B1	H62 HPb59-1 1Cr18Ni9Ti	22	19	9	3/8	1.34	1.90	2.33	2.69	3.0	3.5	4.25	20	30	37	
3/8PZ3130B1		22	19	9	3/8	1.80	2.50	3.1	3.6	4.0	4.7	5.6	20	30	37	
3/8PZ3930B1		22	19	9	3/8	2.23	3.15	3.85	4.45	4.98	5.9	7.04	22	30	36	
3/8PZ4930B1		22	19	9	3/8	2.80	4.0	4.9	5.6	6.3	7.5	8.9	22	30	36	
3/8PZ5830B1		22	19	9	3/8	3.36	4.75	5.81	6.7	7.51	8.89	10.6	22	30	36	
3/8PZ7830B1		22	19	9	3/8	4.5	6.3	7.8	9.0	10	11.8	14.1	24	30	35	
3/8PZ9830B1		22	19	9	3/8	5.7	8.0	9.8	11.3	12.6	15	17.9	24	30	35	
3/8PZ12430B1		22	19	9	3/8	7.2	10.1	12.4	14.3	16	18.9	22.4	24	30	35	
3/8PZ15330B1		22	19	9	3/8	8.8	12.5	15.3	17.7	19.8	23.4	28.0	25	30	34	
3/8PZ19430B1		22	19	9	3/8	11.2	15.8	19.4	22.4	25	29.6	35.4	25	30	34	
3/8PZ1245B1		22	19	9	3/8	0.72	1.01	1.24	1.43	1.6	1.89	2.27	34	45	55	
3/8PZ1545B1		22	19	9	3/8	0.88	1.25	1.53	1.77	1.98	2.34	2.8	34	45	55	
3/8PZ1945B1		22	19	9	3/8	1.10	1.60	1.90	2.2	2.5	3.0	3.5	34	45	55	
3/8PZ2345B1		22	19	9	3/8	1.34	1.90	2.33	2.69	3.0	3.5	4.25	36	45	53	
3/8PZ3145B1		22	19	9	3/8	1.80	2.50	3.1	3.6	4.0	4.7	5.6	36	45	53	
3/8PZ3945B1		22	19	9	3/8	2.23	3.15	3.85	4.45	4.98	5.9	7.04	36	45	53	
3/8PZ4945B1		22	19	9	3/8	2.80	4.0	4.9	5.6	6.3	7.5	8.9	38	45	51	
3/8PZ5845B1		22	19	9	3/8	3.36	4.75	5.81	6.7	7.51	8.89	10.6	38	45	51	
3/8PZ7845B1		22	19	9	3/8	4.5	6.3	7.8	9.0	10	11.8	14.1	40	45	49	
3/8PZ9845B1		22	19	9	3/8	5.7	8.0	9.8	11.3	12.6	15	17.9	40	45	49	
3/8PZ12445B1		22	19	9	3/8	7.2	10.1	12.4	14.3	16	18.9	22.4	40	45	49	
3/8PZ15345B1		22	19	9	3/8	8.8	12.5	15.3	17.7	19.8	23.4	28.0	40	45	49	
3/8PZ19445B1		22	19	9	3/8	11.2	15.8	19.4	22.4	25	29.6	35.4	40	45	48	
3/8PZ1260B1		22	19	9	3/8	0.72	1.01	1.24	1.43	1.6	1.89	2.27	48	60	68	
3/8PZ1560B1		22	19	9	3/8	0.88	1.25	1.53	1.77	1.98	2.34	2.8	48	60	68	
3/8PZ1960B1		22	19	9	3/8	1.10	1.60	1.90	2.2	2.5	3.0	3.5	48	60	68	
3/8PZ2360B1		22	19	9	3/8	1.34	1.90	2.33	2.69	3.0	3.5	4.25	49	60	67	
3/8PZ3160B1		22	19	9	3/8	1.80	2.50	3.1	3.6	4.0	4.7	5.6	49	60	67	
3/8PZ3960B1		22	19	9	3/8	2.23	3.15	3.85	4.45	4.98	5.9	7.04	49	60	67	
3/8PZ4960B1		22	19	9	3/8	2.80	4.0	4.9	5.6	6.3	7.5	8.9	51	60	66	
3/8PZ5860B1		22	19	9	3/8	3.36	4.75	5.81	6.7	7.51	8.89	10.6	51	60	66	
3/8PZ7860B1		22	19	9	3/8	4.5	6.3	7.8	9.0	10	11.8	14.1	51	60	66	
3/8PZ9860B1		22	19	9	3/8	5.7	8.0	9.8	11.3	12.6	15	17.9	53	60	65	
3/8PZ12460B1		22	19	9	3/8	7.2	10.1	12.4	14.3	16	18.9	22.4	53	60	65	
3/8PZ15360B1		22	19	9	3/8	8.8	12.5	15.3	17.7	19.8	23.4	28.0	53	60	65	
3/8PZ19460B1		22	19	9	3/8	11.2	15.8	19.4	22.4	25	29.6	35.4	55	60	64	
3/8PZ24560B1		22	19	9	3/8	14.2	20	24.5	28.3	31.5	37.4	44.8	55	60	64	
3/8PZ1275B1		22	19	9	3/8	0.72	1.01	1.24	1.43	1.6	1.89	2.27	66	75	82	
3/8PZ1575B1		22	19	9	3/8	0.88	1.25	1.53	1.77	1.98	2.34	2.8	66	75	82	
3/8PZ1975B1		22	19	9	3/8	1.10	1.60	1.90	2.2	2.5	3.0	3.5	66	75	82	
3/8PZ2375B1		22	19	9	3/8	1.34	1.90	2.33	2.69	3.0	3.5	4.25	67	75	81	
3/8PZ3175B1		22	19	9	3/8	1.80	2.50	3.1	3.6	4.0	4.7	5.6	67	75	81	
3/8PZ3975B1		22	19	9	3/8	2.23	3.15	3.85	4.45	4.98	5.9	7.04	67	75	81	
3/8PZ4975B1		22	19	9	3/8	2.80	4.0	4.9	5.6	6.3	7.5	8.9	69	75	80	
3/8PZ5875B1		22	19	9	3/8	3.36	4.75	5.81	6.7	7.51	8.89	10.6	69	75	80	
3/8PZ7875B1		22	19	9	3/8	4.5	6.3	7.8	9.0	10	11.8	14.1	70	75	79	

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产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)								喷射角(°) Spray angle (degree)	
		S	L	B	R _D	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.15	0.3	0.5
3/8PZ9875B1	H62 HPb59-1 1Cr18Ni9Ti	22	19	9	3/8	5.7	8.0	9.8	11.3	12.6	15	17.9	70	75	79
3/8PZ12475B1		22	19	9	3/8	7.2	10.1	12.4	14.3	16	18.9	22.4	70	75	79
3/8PZ15375B1		22	19	9	3/8	8.8	12.5	15.3	17.7	19.8	23.4	28.0	70	75	79
3/8PZ19475B1		22	19	9	3/8	11.2	15.8	19.4	22.4	25	29.6	35.4	71	75	78
3/8PZ24575B1		22	19	9	3/8	14.2	20	24.5	28.3	31.5	37.4	44.8	71	75	78
3/8PZ0545B1		22	18.5	9	3/8	0.29	0.41	0.5	0.58	0.65	0.76	0.91	34	45	55
3/8PZ0890B1		22	16	8	3/8	0.46	0.65	0.8	0.92	1.03	1.22	1.46	85	90	96
3/8PZ34110B1		22	18	9	3/8	1.9	2.7	3.4	3.9	4.3	5.2	6.2	98	110	115
3/8PZ4180B1		22	22.5	8	3/8	2.3	3.3	4.1	4.9	5.4	6.3	7.5	75	80	83
3/8PZ5280B1		22	22.5	8	3/8	2.8	4.2	5.2	5.8	6.4	7.9	9.5	75	80	83
3/8PZ5765B1		22	22.5	8	3/8	3.3	4.7	5.7	6.6	7.4	8.7	10.4	54	65	70
3/8PZ5780B1		22	22.5	8	3/8	3.3	4.7	5.7	6.6	7.4	8.7	10.4	75	80	83
3/8PZ6780B1		22	22.5	8	3/8	3.9	5.5	6.7	7.7	8.6	10.2	12.2	75	80	83
3/8PZ12480B1		22	22.5	8	3/8	7.1	10	12.4	14.3	16.0	18.9	22.6	75	80	83
1/2PZ10765B1		26	30	11	1/2	6.2	8.7	10.7	12.4	13.8	16.3	19.5	58	65	68
3/4PZ8035B1		32	38	11	3/4	4.6	6.5	8.0	9.2	10.3	12.2	14.6	27	35	39
3/4PZ16020B1		30	25	16	3/4	9.2	13.1	16.0	18.5	20.7	24.4	29.2	14	20	23
3/4PZ12330B1		32	21	11	3/4	7.07	10.0	12.3	14.3	15.8	18.7	22.4	24	30	35
3/4PZ12345B1		32	21	11	3/4	7.07	10.0	12.3	14.3	15.8	18.7	22.4	40	45	49
3/4PZ1225120B1		32	28	11	3/4	70.7	100.0	122.5	141.5	158.1	187.1	223.6	105	120	126
3/8PZ6060B1		22	22.5	8	3/8	3.5	4.9	6.0	6.9	7.8	9.2	11.0	49	60	63
3/8PZ6080B1		22	22.5	8	3/8	3.5	4.9	6.0	6.9	7.8	9.2	11.0	74	80	82
3/8PZ7060B1		22	21.5	9	3/8	4.0	5.7	7.0	8.1	9.0	10.7	12.8	49	60	63
3/8PZ8060B1		22	16.5	8	3/8	4.6	6.5	8.0	9.2	10.3	12.2	14.6	49	60	63
3/8PZ8080B1		22	22.5	8	3/8	4.6	6.5	8.0	9.2	10.3	12.2	14.6	74	80	82
3/8PZ12115B1		22	19	9	3/8	0.68	0.96	1.2	1.4	1.5	1.8	2.1	102	115	121
3/8PZ1565B1		22	22.5	8	3/8	0.87	1.22	1.5	1.73	1.94	2.3	2.7	53	65	71
3/8PZ20130B1		22	19	9	3/8	1.1	1.6	2.0	2.3	2.5	3.0	3.6	115	130	135
3/8PZ3065B1		22	22.5	8	3/8	1.73	2.4	3.0	3.5	3.9	4.6	5.5	54	65	70
3/8PZ4795B1		22	21.5	9	3/8	2.7	3.8	4.7	5.4	6.1	7.2	8.6	93	95	98
3/8PZ6540B1		22	22.5	8	3/8	3.8	5.3	6.5	7.5	8.4	9.9	11.7	32	40	44
3/8PZ10065B1		22	18	9	3/8	5.8	8.2	10.0	11.5	12.9	15.3	18.3	56	65	68
3/8PZ10095B1		22	22.5	9	3/8	5.8	8.2	10.0	11.5	12.9	15.3	18.3	91	95	100
3/8PZ11580B1		22	22.5	8	3/8	6.6	9.4	11.5	13.2	14.8	17.6	21.0	75	80	83
3/8PZ12065B1		22	22.5	8	3/8	6.9	9.8	12.0	13.9	15.5	18.3	21.9	62	65	72
3/8PZ12075B1		22	22.5	8	3/8	6.9	9.8	12.0	13.9	15.5	18.3	21.9	72	75	82
3/8PZ12360B1		22	19	8	3/8	7.1	10.0	12.3	14.2	15.9	18.8	22.4	80	90	95
3/8PZ12390B1		22	22.5	8	3/8	7.1	10.0	12.3	14.2	15.9	18.8	22.4	85	90	96
3/8PZ15380B1		22	22.5	8	3/8	8.8	12.5	15.3	17.7	19.7	23.4	27.9	73	80	84
3/8PZ21580B1		22	22.5	8	3/8	12.4	17.6	21.5	24.8	27.7	32.8	39.2	73	80	83
3/8PZ21595B1		22	22.5	8	3/8	12.4	17.6	21.5	24.8	27.7	32.8	39.2	80	95	100



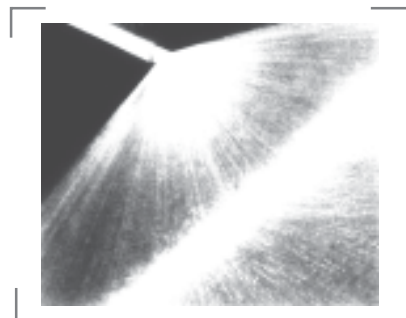
PZ 系列喷嘴

喷雾特性及用途:

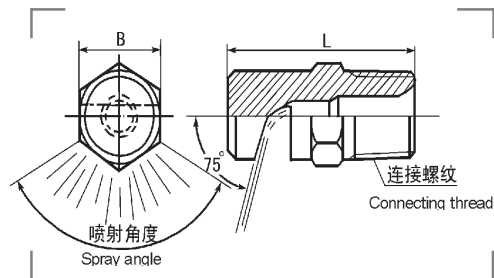
该喷嘴的喷淋形式是同装配螺纹轴线成 75° 的方向扇形扁平喷射, 即使处于低压, 近距离的情况下, 也能获得较大的喷射角度及喷射宽度: 主要用于冷却、清洗及连铸结晶器冷却。

Spray Feature and Application:

The spray pattern of the nozzle is in flat spray, at an angle of 75° in the direction of mounting axis of thread. Even under the condition of low pressure and short distance, it can still get a large spray angle and broad spray width. It is mainly used for cooling, cleaning and the cooling of mold of continuous casting machine.



连接螺纹 Connecting thread	R1/8	R1/4	R3/8	R1/2	R3/4
喷嘴型号 Nozzle model	1/8PZ	1/4PZ	3/8PZ	1/2PZ	3/4PZ
材质 Material	HPb59-1 1Cr18Ni9Ti				
L	25	34	44	51	60
B	10	14	17	22	27



产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)		
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.1	0.3	1.0
1/8PZ10140B2	0.58	0.82	1.00	1.15	1.29	1.53	1.83	127	140	148
1/8PZ12140B2	0.69	0.98	1.20	1.39	1.55	1.83	2.19	127	140	148
1/8PZ15140B2	0.87	1.22	1.50	1.73	1.94	2.3	2.7	127	140	148
1/8PZ20140B2	1.15	1.63	2.0	2.3	2.6	3.1	3.7	128	140	147
1/8PZ30140B2	1.73	2.4	3.0	3.5	3.9	4.6	5.5	128	140	147
1/8PZ39140B2	2.3	3.2	3.9	4.5	5.0	6.0	7.1	128	140	147
1/4PZ10140B2	0.58	0.82	1.00	1.15	1.29	1.53	1.83	127	140	147
1/4PZ20140B2	1.15	1.63	2.0	2.3	2.6	3.1	3.7	127	140	147
1/4PZ40140B2	2.3	3.3	4.0	4.6	5.2	6.1	7.3	128	140	147
1/4PZ50140B2	2.4	3.8	5.0	5.9	6.5	7.6	9.1	128	140	147
1/4PZ60140B2	3.5	4.9	6.0	6.9	7.7	9.2	11.0	128	140	147
1/4PZ70140B2	4	5.7	7.0	8.0	9.0	10.7	12.8	128	140	147
1/4PZ80140B2	4.6	6.5	8.0	9.2	10.3	12.2	14.6	128	140	147
1/4PZ100140B2	5.8	8.2	10.0	11.5	12.9	15.3	18.3	128	140	147
1/4PZ150140B2	8.6	12.2	15.0	17.3	19.4	22.9	27.4	128	140	147
1/4PZ250140B2	14.4	20.4	25.0	28.9	32.3	38.2	45.6	130	140	146
3/8PZ200140B2	11.5	16.3	20.0	23.1	25.8	30.6	36.5	130	140	146
3/8PZ250140B2	14.4	20.4	25.0	28.9	32.3	38.2	45.6	130	140	146
3/8PZ300140B2	17.3	24.5	30.0	34.6	38.7	45.8	54.8	130	140	146
3/8PZ185140B2	11.1	15.3	18.5	21	23	28.3	33.8	130	140	146
1/2PZ400140B2	23.1	32.7	40.0	46.2	51.6	61.6	73.0	132	140	145
1/2PZ500140B2	28.9	40.8	50.0	57.7	64.5	76.4	91.3	132	140	145
1/2PZ600140B2	34.6	49.0	60.0	69.3	77.5	91.7	110	132	140	145
3/4PZ750140B2	43.3	61.2	75.0	86.6	96.8	115	137	133	140	144
3/4PZ1040140B2	60	84.9	104	120	134	159	190	135	140	144
3/4PZ1500140B2	86.6	122	150	173	194	229	274	135	140	144

PZ 系列喷嘴

喷雾特性及用途:

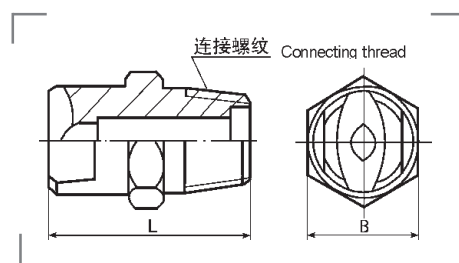
此喷嘴结构简单, 安装方便, 喷雾形状为扇形, 根据注水面积的需要, 可选用不同流量和喷射角度的喷嘴, 组成喷射集管; 主要适用于连铸冷却、喷涂、冷却塔等。

Spray Feature and Application:

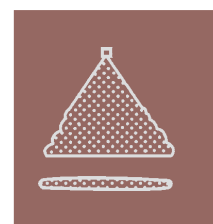
The nozzle is simple in structure and can be easily installed. The spray pattern is in flat shape. Nozzles with different flows and spray angles can be selected to make up the spray group-pipe according to the requirements of the spray area, which is mainly suitable for cooling-off in continuous casting machine, spray painting, cooling tower, etc.



连接螺纹 Connecting thread	R1/8	R1/4	R3/8	R1/2	R3/4
喷嘴型号 Nozzle model	1/8PZ	1/4PZ	3/8PZ	1/2PZ	3/4PZ
材质 Material	HPb59-1 1Cr18Ni9Ti				
L	22	25	32	38	51
B	12	14	17	22	27



产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle(degree)		
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.1	0.3	1.0
1/4PZ12110B3	0.68	0.96	1.2	1.4	1.5	1.8	2.1	99	110	120
1/4PZ16110B3	0.90	1.3	1.6	1.8	2.0	2.4	2.9	100	110	119
1/4PZ23110B3	1.4	1.9	2.3	2.7	3.0	3.6	4.3	101	110	117
1/4PZ31110B3	1.8	2.6	3.1	3.6	4.0	4.8	5.7	102	110	117
1/4PZ39110B3	2.3	3.2	3.9	4.5	5.0	6.0	7.1	103	110	117
1/4PZ59110B3	3.4	4.8	5.9	6.8	7.6	9.0	10.7	104	110	117
1/4PZ1295B3	0.68	0.96	1.2	1.4	1.5	1.8	2.1	83	95	104
1/4PZ1695B3	0.90	1.3	1.6	1.8	2.0	2.4	2.9	84	95	103
1/4PZ2395B3	1.4	1.9	2.3	2.7	3.0	3.6	4.3	86	95	101
1/4PZ3195B3	1.8	2.6	3.1	3.6	4.0	4.8	5.7	87	95	100
1/4PZ3995B3	2.3	3.2	3.9	4.5	5.0	6.0	7.1	89	95	100
1/4PZ5995B3	3.4	4.8	5.9	6.8	7.6	9.0	10.7	90	95	100
1/4PZ7895B3	4.5	6.4	7.8	9.0	10.1	11.9	14.3	90	95	100
1/4PZ11795B3	6.8	9.6	11.7	13.5	15.1	17.9	21	91	95	101
1/4PZ15695B3	9.0	12.8	15.6	18.1	20	24	29	92	95	100
1/4PZ19595B3	11.3	16.0	19.5	23	25	30	36	93	95	99
1/4PZ23095B3	13.5	19.2	23	27	30	36	43	93	95	99
3/8PZ27095B3	15.8	22	27	32	35	42	50	93	95	99
1/2PZ39095B3	23	32	39	45	50	60	71	93	95	99
1/4PZ1280B3	0.68	0.96	1.2	1.4	1.5	1.8	2.1	70	80	87
1/4PZ1680B3	0.90	1.3	1.6	1.8	2.0	2.4	2.9	71	80	86



PZ 系列喷嘴

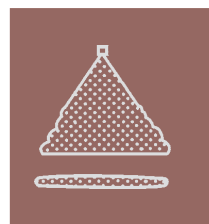
flat nozzle
扁平形喷嘴

产 品 型 号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)		
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.15	0.3	0.5
1/4PZ2080B3	1.1	1.6	2.0	2.3	2.5	3.0	3.6	71	80	86
1/4PZ2380B3	1.4	1.9	2.3	2.7	3.0	3.6	4.3	72	80	85
1/4PZ3180B3	1.8	2.6	3.1	3.6	4.0	4.8	5.7	72	80	84
1/4PZ3980B3	2.3	3.2	3.9	4.5	5.0	6.0	7.1	75	80	83
1/4PZ5980B3	3.4	4.8	5.9	6.8	7.6	9.0	10.7	74	80	83
1/4PZ7880B3	4.5	6.4	7.8	9.0	10.1	11.9	14.3	74	80	83
1/4PZ11780B3	6.8	9.6	11.7	13.5	15.1	17.9	21	75	80	84
1/4PZ15680B3	9.0	12.8	15.6	18.1	20	24	29	76	80	85
1/4PZ19580B3	11.3	16.0	19.5	23	25	30	36	78	80	85
1/4PZ23080B3	13.5	19.2	23	27	30	36	43	78	80	86
3/8PZ27080B3	15.8	22	27	32	35	42	50	78	80	89
1/2PZ39080B3	23	32	39	45	50	60	71	75	80	83
1/2PZ59080B3	34	48	59	68	76	90	107	73	80	84
1/2PZ78080B3	45	64	78	90	101	119	143	74	80	82
3/4PZ156080B3	90	128	156	181	200	240	285	78	80	81
1/4PZ1265B3	0.68	0.96	1.2	1.4	1.5	1.8	2.1	53	65	72
1/4PZ1665B3	0.90	1.3	1.6	1.8	2.0	2.4	2.9	53	65	72
1/4PZ2065B3	1.1	1.6	2.0	2.3	2.5	3.0	3.6	53	65	72
1/4PZ2365B3	1.4	1.9	2.3	2.7	3.0	3.6	4.3	54	65	72
1/4PZ3165B3	1.8	2.6	3.1	3.6	4.0	4.8	5.7	55	65	71
1/4PZ3965B3	2.3	3.2	3.9	4.5	5.0	6.0	7.1	57	65	73
1/4PZ5965B3	3.4	4.8	5.9	6.8	7.6	9.0	10.7	59	65	72
1/4PZ7865B3	4.5	6.4	7.8	9.0	10.1	11.9	14.3	61	65	72
1/4PZ11765B3	6.8	9.6	11.7	13.5	15.1	17.9	21	62	65	72
1/4PZ15665B3	9.0	12.8	15.6	18.1	20	24	29	63	65	72
1/4PZ19565B3	11.3	16.0	19.5	23	25	30	36	63	65	73
1/4PZ23065B3	13.5	19.2	23	27	30	36	43	63	65	73
3/8PZ27065B3	15.8	22	27	32	35	42	50	63	65	74
3/8PZ39065B3	23	32	39	45	50	60	71	58	65	69
1/2PZ59065B3	34	48	59	68	76	90	107	59	65	68
1/2PZ78065B3	45	64	78	90	101	119	143	60	65	67
1/8PZ1250B3	0.68	0.96	1.2	1.4	1.5	1.8	2.1	40	50	56
1/4PZ1650B3	0.90	1.3	1.6	1.8	2.0	2.4	2.9	42	50	56
1/4PZ2050B3	1.1	1.6	2.0	2.3	2.5	3.0	3.6	44	50	56
1/4PZ2350B3	1.4	1.9	2.3	2.7	3.0	3.6	4.3	45	50	56
1/4PZ3150B3	1.8	2.6	3.1	3.6	4.0	4.8	5.7	45	50	56
1/4PZ3950B3	2.3	3.2	3.9	4.5	5.0	6.0	7.1	43	50	55
1/4PZ5950B3	3.4	4.8	5.9	6.8	7.6	9.0	10.7	43	50	55
1/4PZ7850B3	4.5	6.4	7.8	9.0	10.1	11.9	14.3	42	50	55
1/4PZ11750B3	6.8	9.6	11.7	13.5	15.1	17.9	21	43	50	54

PZ 系列喷嘴

flat nozzle
扁平形喷嘴

产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)		
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.15	0.3	0.5
1/4PZ15650B3	9.0	12.8	15.6	18.1	20	24	29	43	50	54
1/4PZ19550B3	11.3	16.0	19.5	23	25	30	36	43	50	53
1/4PZ23050B3	13.5	19.2	23	27	30	36	43	43	50	53
3/8PZ27050B3	15.8	22	27	32	35	42	50	43	50	53
3/8PZ39050B3	23	32	39	45	50	60	71	44	50	52
3/8PZ47050B3	27	38	47	54	61	72	86	44	50	53
1/2PZ59050B3	34	48	59	68	76	90	107	45	50	52
1/2PZ78050B3	45	64	78	90	101	119	143	46	50	52
3/4PZ156050B3	90	128	156	181	200	240	285	46	50	52
1/4PZ1240B3	0.68	0.96	1.2	1.4	1.5	1.8	2.1	30	40	50
1/4PZ1640B3	0.90	1.3	1.6	1.8	2.0	2.4	2.9	30	40	50
1/4PZ2040B3	1.1	1.6	2.0	2.3	2.5	3.0	3.6	31	40	49
1/4PZ2340B3	1.4	1.9	2.3	2.7	3.0	3.6	4.3	31	40	49
1/4PZ3140B3	1.8	2.6	3.1	3.6	4.0	4.8	5.7	31	40	47
1/4PZ3940B3	2.3	3.2	3.9	4.5	5.0	6.0	7.1	32	40	45
1/4PZ5940B3	3.4	4.8	5.9	6.8	7.6	9.0	10.7	32	40	45
1/4PZ7840B3	4.5	6.4	7.8	9.0	10.1	11.9	14.3	32	40	45
1/4PZ11740B3	6.8	9.6	11.7	13.5	15.1	17.9	21	33	40	44
1/4PZ15640B3	9.0	12.8	15.6	18.1	20	24	29	33	40	44
1/4PZ19540B3	11.3	16.0	19.5	23	25	30	36	33	40	43
1/4PZ23040B3	13.5	19.2	23	27	30	36	43	33	40	43
3/8PZ27040B3	15.8	22	27	32	35	42	50	33	40	43
3/8PZ39040B3	23	32	39	45	50	60	71	34	40	43
1/2PZ59040B3	34	48	59	68	76	90	107	35	40	43
1/2PZ78040B3	45	64	78	90	101	119	143	36	40	42
1/4PZ1225B3	0.68	0.96	1.2	1.4	1.5	1.8	2.1	15	25	33
1/4PZ1625B3	0.90	1.3	1.6	1.8	2.0	2.4	2.9	16	25	32
1/4PZ2025B3	1.1	1.6	2.0	2.3	2.5	3.0	3.6	16	25	32
1/4PZ2325B3	1.4	1.9	2.3	2.7	3.0	3.6	4.3	17	25	31
1/4PZ3125B3	1.8	2.6	3.1	3.6	4.0	4.8	5.7	17	25	31
1/4PZ3925B3	2.3	3.2	3.9	4.5	5.0	6.0	7.1	18	25	31
1/4PZ5925B3	3.4	4.8	5.9	6.8	7.6	9.0	10.7	21	25	31
1/4PZ7825B3	4.5	6.4	7.8	9.0	10.1	11.9	14.3	23	25	32
1/4PZ11725B3	6.8	9.6	11.7	13.5	15.1	17.9	21	23	25	32
1/4PZ15625B3	9.0	12.8	15.6	18.1	20	24	29	23	25	32
1/4PZ19525B3	11.3	16.0	19.5	23	25	30	36	23	25	32
1/4PZ23025B3	13.5	19.2	23	27	30	36	43	23	25	33
3/8PZ27025B3	15.8	22	27	32	35	42	50	23	25	33
3/8PZ39025B3	23	32	39	45	50	60	71	23	25	28
1/2PZ59025B3	34	48	59	68	76	90	107	24	25	28



PZ 系列喷嘴

flat nozzle
扁平形喷嘴



产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)		
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.15	0.3	0.5
1/2PZ78025B3	45	64	78	90	101	119	143	24	25	26
1/4PZ1215B3	0.68	0.96	1.2	1.4	1.5	1.8	2.1	6	15	22
1/4PZ1615B3	0.90	1.3	1.6	1.8	2.0	2.4	2.9	7	15	21
1/4PZ2015B3	1.1	1.6	2.0	2.3	2.5	3.0	3.6	7	15	21
1/4PZ2315B3	1.4	1.9	2.3	2.7	3.0	3.6	4.3	8	15	21
1/4PZ3115B3	1.8	2.6	3.1	3.6	4.0	4.8	5.7	9	15	20
1/4PZ3915B3	2.3	3.2	3.9	4.5	5.0	6.0	7.1	10	15	19
1/4PZ5915B3	3.4	4.8	5.9	6.8	7.6	9.0	10.7	10	15	19
1/4PZ7815B3	4.5	6.4	7.8	9.0	10.1	11.9	14.3	10	15	19
1/4PZ11715B3	6.8	9.6	11.7	13.5	15.1	17.9	21	10	15	19
1/4PZ15615B3	9.0	12.8	15.6	18.1	20	24	29	12	15	19
1/4PZ19515B3	11.3	16.0	19.5	23	25	30	36	13	15	19
1/4PZ23015B3	13.5	19.2	23	27	30	36	43	13	15	19
3/8PZ27015B3	15.8	22	27	32	35	42	50	13	15	19
3/8PZ39015B3	23	32	39	45	50	60	71	13	15	17
3/8PZ47015B3	27	38	47	54	61	72	86	13	15	17
1/2PZ59015B3	34	48	59	68	76	90	107	14	15	17
1/2PZ78015B3	45	64	78	90	101	119	143	14	15	17
3/4PZ98015B3	56	80	98	113	126	149	179	14	15	16
1/4PZ2090B3	1.1	1.6	2.0	2.3	2.5	3.0	3.6	79	90	95
1/4PZ4460B3	2.6	3.6	4.4	5.1	5.7	6.7	8.0	53	60	63
1/4PZ4580B3	2.6	3.7	4.5	5.2	5.8	6.9	8.2	75	80	83
1/8PZ5980B3	3.4	4.8	5.9	6.8	7.6	9.0	10.8	74	80	84
3/8PZ6550B3	3.8	5.3	6.5	7.5	8.4	9.9	11.9	45	50	53
1/4PZ7065B3	4.0	5.7	7.0	8.1	9.0	10.7	12.8	56	65	68
1/4PZ10050B3	5.8	8.2	10.0	11.5	12.9	15.3	18.3	45	50	53
1/4PZ10850B3	6.2	8.8	10.8	12.5	13.9	16.5	19.7	43	50	54
1/4PZ11770B3	6.8	9.6	11.7	13.5	15.1	17.9	21.0	63	70	74
1/4PZ12040B3	6.9	9.8	12.0	13.9	15.5	18.3	21.9	32	40	42
3/8PZ12565B3	7.2	10.2	12.5	14.4	16.1	19.1	22.8	58	65	68
1/4PZ13065B3	7.5	10.6	13.0	15.0	16.8	19.8	23.7	59	65	67
3/8PZ15360B3	8.8	12.5	15.3	17.7	19.8	23.4	28	53	60	63
3/8PZ16040B3	9.2	13.1	16.0	18.5	20.7	24.4	29.2	34	40	44
3/8PZ16070B3	9.2	13.1	16.0	18.5	20.7	24.4	29.2	65	70	73
1/4PZ160100B3	9.2	13.1	16.0	18.5	20.7	24.4	29.2	90	100	104
1/4PZ16580B3	9.5	13.5	16.5	19.1	21.3	25.2	30.1	74	80	84
1/4PZ30050B3	17.3	24.5	30.0	34.6	38.7	45.8	54.8	46	50	53

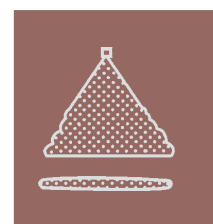
PZ 系列喷嘴

flat nozzle

扁平形喷嘴

产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)		
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.15	0.3	0.5
1/8PZ1200B3	0.68	0.96	1.2	1.4	1.5	1.8	2.1			
1/4PZ1200B3	0.68	0.96	1.2	1.4	1.5	1.8	2.1			
1/8PZ1600B3	0.90	1.3	1.6	1.8	2.0	2.4	2.9			
1/8PZ2300B3	1.4	1.9	2.3	2.7	3.0	3.6	4.3			
1/4PZ2300B3	1.4	1.9	2.3	2.7	3.0	3.6	4.3			
1/8PZ3100B3	1.8	2.6	3.1	3.6	4.0	4.8	5.7			
1/4PZ3100B3	1.8	2.6	3.1	3.6	4.0	4.8	5.7			
1/8PZ3900B3	2.3	3.2	3.9	4.5	5.0	6.0	7.1			
1/4PZ3900B3	2.3	3.2	3.9	4.5	5.0	6.0	7.1			
1/4PZ5900B3	3.4	4.8	5.9	6.8	7.6	9.0	10.7			
1/8PZ7800B3	4.5	6.4	7.8	9.0	10.1	11.9	14.3			
1/4PZ7800B3	4.5	6.4	7.8	9.0	10.1	11.9	14.3			
1/8PZ11700B3	6.8	9.6	11.7	13.5	15.1	17.9	21			
1/4PZ11700B3	6.8	9.6	11.7	13.5	15.1	17.9	21			
1/8PZ15600B3	9.0	12.8	15.6	18.1	20	24	29			
1/4PZ15600B3	9.0	12.8	15.6	18.1	20	24	29			
1/4PZ19500B3	11.3	16.0	19.5	23	25	30	36			
1/4PZ23000B3	13.5	19.2	23	27	30	36	43			
1/4PZ27000B3	15.8	22	27	32	35	42	50			
1/4PZ31000B3	18.1	26	31	36	40	48	57			
3/8PZ39000B3	23	32	39	45	50	60	71			
3/8PZ47000B3	27	38	47	54	61	72	86			
1/2PZ59000B3	34	48	59	68	76	90	107			
1/2PZ78000B3	45	64	78	90	101	119	143			
3/8PZ98000B3	56	80	98	113	126	149	179			
3/4PZ137000B3	79	112	137	158	177	210	250			
3/4PZ275000B3	158	225	275	315	355	415	500			
1PZ390000B3	225	320	390	450	500	600	710			
1PZ430000B3	250	350	430	495	560	660	790			
1 ¹ /4PZ550000B3	315	445	550	630	710	840	1000			
1 ¹ /4PZ700000B3	405	570	700	810	910	1070	1290			
2PZ780000B3	450	640	780	900	1010	1190	1430			
2PZ1370000B3	790	1120	1370	1580	1770	2090	2500			

0°
液柱流
liquid columne



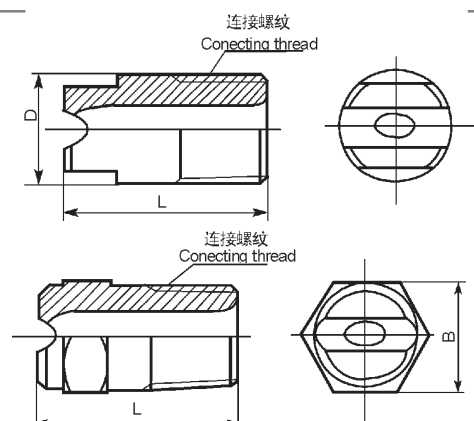
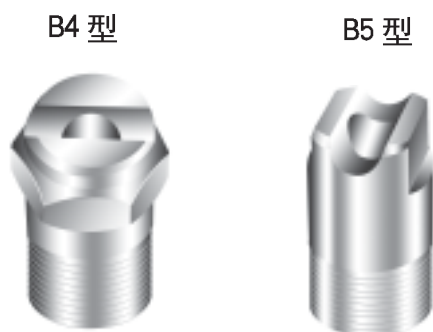
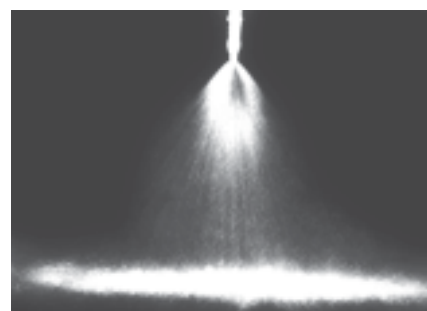
PZ 系列喷嘴

喷雾特性及用途:

该喷嘴具有结构简单、喷雾均匀的特点，根据喷水面积需要，可在集管上安装许多喷嘴，当喷嘴均匀排列时，可保证喷雾的互相交叉，并略有重叠部分，使整个集管喷射分布均匀；主要适用于连铸、初轧和各种需要扁平喷雾冷却的机械设备中。

Spray Feature and Application:

The nozzle is marked with simple structure and even spray. YSeveral nozzles can be installed on the header according to the water-spray area. When the nozzles are arranged evenly, with some cross spray & overlap patterns, it makes the even distribution of the whole header. It is mainly suitable for continuous casting machine, rough rolling mill and various machines that need flat spray cooling.

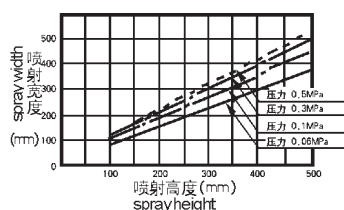


连接螺纹 Connecting thread	R1/8	R1/4	R3/8	R1/2	R3/4	R1	R1 ¹ / ₄	R1 ¹ / ₂
喷嘴型号 Nozzle model	1/8PZ	1/4PZ	3/8PZ	1/2PZ	3/4PZ	1PZ	1 ¹ / ₄ PZ	1 ¹ / ₂ PZ
材质 Material	HPb59-1 1Cr18Ni9Ti							
L	18	25	32	38	50	60	75	90
B(D)	10	14	17	22	27	35	46	50

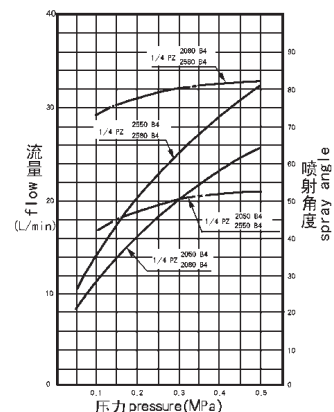
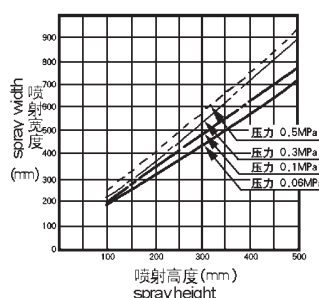
—— 压力-流量曲线 pressure-flow curve
- - - 压力-喷射角度曲线 pressure-spray angle curve

喷嘴型号 Nozzle model: 1/4PZ2080B4
1/4PZ2580B4

喷嘴型号 Nozzle model: 1/4PZ2050B4
1/4PZ2550B4



各压力下喷射覆盖面
spray covering area under various pressure



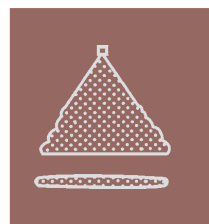
流量、喷射角、压力特性曲线
flow spray angle pressure characteristic curve

PZ 系列喷嘴

flat nozzle

扁平形喷嘴

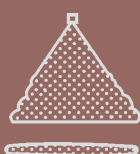
产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)		
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.1	0.3	0.5
1/8PZ1015B4	0.6	0.8	1.0	1.2	1.3	1.5	1.8	7	15	17
1/8PZ1025B4	0.6	0.8	1.0	1.2	1.3	1.5	1.8	12	25	30
1/8PZ1040B4	0.6	0.8	1.0	1.2	1.3	1.5	1.8	31	40	44
1/8PZ1050B4	0.6	0.8	1.0	1.2	1.3	1.5	1.8	36	50	55
1/8PZ1065B4	0.6	0.8	1.0	1.2	1.3	1.5	1.8	53	65	71
1/8PZ1080B4	0.6	0.8	1.0	1.2	1.3	1.5	1.8	66	80	85
1/8PZ1515B4	0.9	1.2	1.5	1.7	1.9	2.3	2.7	9	15	18
1/8PZ1525B4	0.9	1.2	1.5	1.7	1.9	2.3	2.7	15	25	30
1/8PZ1540B4	0.9	1.2	1.5	1.7	1.9	2.3	2.7	31	40	44
1/8PZ1550B4	0.9	1.2	1.5	1.7	1.9	2.3	2.7	41	50	53
1/8PZ1565B4	0.9	1.2	1.5	1.7	1.9	2.3	2.7	53	65	71
1/8PZ1580B4	0.9	1.2	1.5	1.7	1.9	2.3	2.7	67	80	84
1/8PZ2015B4	1.1	1.6	2.0	2.3	2.5	3.0	3.6	9	15	18
1/8PZ2025B4	1.1	1.6	2.0	2.3	2.5	3.0	3.6	15	25	30
1/8PZ2040B4	1.1	1.6	2.0	2.3	2.5	3.0	3.6	31	40	44
1/8PZ2050B4	1.1	1.6	2.0	2.3	2.5	3.0	3.6	41	50	53
1/8PZ2065B4	1.1	1.6	2.0	2.3	2.5	3.0	3.6	53	65	71
1/8PZ2080B4	1.1	1.6	2.0	2.3	2.5	3.0	3.6	67	80	84
1/8PZ3015B4	1.7	2.5	3.0	3.5	3.9	4.6	5.5	10	15	17
1/8PZ3025B4	1.7	2.5	3.0	3.5	3.9	4.6	5.5	16	25	29
1/8PZ3040B4	1.7	2.5	3.0	3.5	3.9	4.6	5.5	32	40	43
1/8PZ3050B4	1.7	2.5	3.0	3.5	3.9	4.6	5.5	42	50	52
1/8PZ3065B4	1.7	2.5	3.0	3.5	3.9	4.6	5.5	54	65	70
1/8PZ3080B4	1.7	2.5	3.0	3.5	3.9	4.6	5.5	67	80	84
1/4PZ4015B4	2.3	3.3	4.0	4.6	5.2	6.1	7.3	10	15	17
1/4PZ4025B4	2.3	3.3	4.0	4.6	5.2	6.1	7.3	16	25	29
1/4PZ4040B4	2.3	3.3	4.0	4.6	5.2	6.1	7.3	32	40	43
1/4PZ4050B4	2.3	3.3	4.0	4.6	5.2	6.1	7.3	42	50	52
1/4PZ4065B4	2.3	3.3	4.0	4.6	5.2	6.1	7.3	54	65	70
1/4PZ4080B4	2.3	3.3	4.0	4.6	5.2	6.1	7.3	67	80	84
1/4PZ6015B4	3.5	4.9	6.0	6.9	7.8	9.2	11.0	10	15	17
1/4PZ6025B4	3.5	4.9	6.0	6.9	7.8	9.2	11.0	16	25	29
1/4PZ6040B4	3.5	4.9	6.0	6.9	7.8	9.2	11.0	32	40	43
1/4PZ6050B4	3.5	4.9	6.0	6.9	7.8	9.2	11.0	42	50	52
1/4PZ6065B4	3.5	4.9	6.0	6.9	7.8	9.2	11.0	54	65	70
1/4PZ6080B4	3.5	4.9	6.0	6.9	7.8	9.2	11.0	67	80	83
1/4PZ8015B4	4.6	6.5	8.0	9.2	10.3	12.2	14.6	10	15	17
1/4PZ8025B4	4.6	6.5	8.0	9.2	10.3	12.2	14.6	17	25	28
1/4PZ8040B4	4.6	6.5	8.0	9.2	10.3	12.2	14.6	32	40	43
1/4PZ8050B4	4.6	6.5	8.0	9.2	10.3	12.2	14.6	42	50	52
1/4PZ8065B4	4.6	6.5	8.0	9.2	10.3	12.2	14.6	56	65	68
1/4PZ8080B4	4.6	6.5	8.0	9.2	10.3	12.2	14.6	69	80	83
1/4PZ10015B4	5.8	8.2	10.0	11.5	12.9	15.3	18.3	10	15	17
1/4PZ10025B4	5.8	8.2	10.0	11.5	12.9	15.3	18.3	18	25	28
1/4PZ10040B4	5.8	8.2	10.0	11.5	12.9	15.3	18.3	32	40	42
1/4PZ10050B4	5.8	8.2	10.0	11.5	12.9	15.3	18.3	42	50	52



PZ 系列喷嘴

扁平形喷嘴
flat nozzle

产 品 型 号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)		
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.1	0.3	0.5
1/4PZ10065B4	5.8	8.2	10.0	11.5	12.9	15.3	18.3	56	65	68
1/4PZ10080B4	5.8	8.2	10.0	11.5	12.9	15.3	18.3	75	80	83
1/4PZ15015B4	8.7	12.2	15.0	17.3	19.4	22.9	27.4	10	15	17
1/4PZ15025B4	8.7	12.2	15.0	17.3	19.4	22.9	27.4	18	25	28
1/4PZ15040B4	8.7	12.2	15.0	17.3	19.4	22.9	27.4	32	40	42
1/4PZ15050B4	8.7	12.2	15.0	17.3	19.4	22.9	27.4	42	50	52
1/4PZ15065B4	8.7	12.2	15.0	17.3	19.4	22.9	27.4	57	65	68
1/4PZ15080B4	8.7	12.2	15.0	17.3	19.4	22.9	27.4	71	80	83
1/4PZ20015B4	11.5	16.3	20.0	23.1	25.8	30.6	36.5	10	15	17
1/4PZ20025B4	11.5	16.3	20.0	23.1	25.8	30.6	36.5	18	25	28
1/4PZ20040B4	11.5	16.3	20.0	23.1	25.8	30.6	36.5	32	40	42
1/4PZ20050B4	11.5	16.3	20.0	23.1	25.8	30.6	36.5	42	50	52
1/4PZ20065B4	11.5	16.3	20.0	23.1	25.8	30.6	36.5	57	65	68
1/4PZ20080B4	11.5	16.3	20.0	23.1	25.8	30.6	36.5	73	80	82
1/4PZ25015B4	14.4	20.4	25.0	28.9	32.3	38.2	45.6	10	15	17
1/4PZ25025B4	14.4	20.4	25.0	28.9	32.3	38.2	45.6	18	25	28
1/4PZ25040B4	14.4	20.4	25.0	28.9	32.3	38.2	45.6	32	40	42
1/4PZ25050B4	14.4	20.4	25.0	28.9	32.3	38.2	45.6	42	50	52
1/4PZ25065B4	14.4	20.4	25.0	28.9	32.3	38.2	45.6	57	65	68
1/4PZ25080B4	14.4	20.4	25.0	28.9	32.3	38.2	45.6	73	80	82
1/4PZ30015B4	17.3	24.5	30.0	34.6	38.7	45.8	54.8	10	15	17
1/4PZ30025B4	17.3	24.5	30.0	34.6	38.7	45.8	54.8	18	25	28
1/4PZ30040B4	17.3	24.5	30.0	34.6	38.7	45.8	54.8	32	40	42
1/4PZ30050B4	17.3	24.5	30.0	34.6	38.7	45.8	54.8	42	50	52
1/4PZ30065B4	17.3	24.5	30.0	34.6	38.7	45.8	54.8	57	65	68
1/4PZ30080B4	17.3	24.5	30.0	34.6	38.7	45.8	54.8	73	80	81
3/8PZ40050B4	23.1	32.7	40.0	46.2	51.6	61.6	73.0	42	50	52
3/8PZ40065B4	23.1	32.7	40.0	46.2	51.6	61.6	73.0	57	65	68
3/8PZ40080B4	23.1	32.7	40.0	46.2	51.6	61.6	73.0	75	80	81
1/2PZ50050B4	28.9	40.8	50.0	57.7	64.5	76.4	91.3	42	50	52
1/2PZ50065B4	28.9	40.8	50.0	57.7	64.5	76.4	91.3	57	65	68
1/2PZ50080B4	28.9	40.8	50.0	57.7	64.5	76.4	91.3	75	80	81
1/2PZ60040B4	34.6	49.0	60.0	69.3	77.5	91.7	110	32	40	42
1/2PZ60050B4	34.6	49.0	60.0	69.3	77.5	91.7	110	41	50	52
1/2PZ60065B4	34.6	49.0	60.0	69.3	77.5	91.7	110	57	65	68
1/2PZ60080B4	34.6	49.0	60.0	69.3	77.5	91.7	110	75	80	81
1/2PZ75050B4	43.3	61.2	75.0	86.6	96.8	115	137	41	50	52
1/2PZ75080B4	43.3	61.2	75.0	86.6	129	115	137	75	80	81
3/4PZ100050B4	57.7	81.6	100	115	129	153	183	40	50	52
3/4PZ100080B4	57.7	81.6	100	115	194	153	183	76	80	81
3/4PZ150050B4	86.6	122	150	173	194	229	274	40	50	52
3/4PZ150080B4	86.6	122	150	173	258	229	274	76	80	81
1PZ200050B4	115	163	200	231	258	306	365	42	50	52
1PZ200080B4	115	163	200	231	387	306	365	76	80	81
1 ¹ / ₄ PZ300050B4	173	245	300	346	387	458	548	45	50	52
1 ¹ / ₄ PZ300080B4	173	245	300	346		458	548	77	80	81

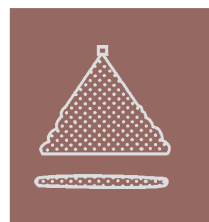


PZ 系列喷嘴

flat nozzle

扁平形喷嘴

产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)		
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.1	0.3	0.5
1 ¹ / ₂ PZ400050B4	231	327	400	462	516	611	730	46	50	52
1 ¹ / ₂ PZ400080B4	231	327	400	462	516	611	730	77	80	81
1/8PZ1595B4	0.9	1.2	1.5	1.7	1.9	2.3	2.7	78	95	101
1/8PZ15110B4	0.9	1.2	1.5	1.7	1.9	2.3	2.7	95	110	115
1/8PZ2095B4	1.2	1.6	2.0	2.3	2.6	3.1	3.7	78	95	101
1/8PZ20110B4	1.2	1.6	2.0	2.3	2.6	3.1	3.7	95	110	115
1/4PZ3095B4	1.7	2.5	3.0	3.5	3.9	4.6	5.5	78	95	101
1/4PZ30110B4	1.7	2.5	3.0	3.5	3.9	4.6	5.5	95	110	118
1/4PZ4095B4	2.3	3.3	4.0	4.6	5.2	6.1	7.3	79	95	101
1/4PZ40110B4	2.3	3.3	4.0	4.6	5.2	6.1	7.3	95	110	115
1/4PZ6095B4	3.5	4.9	6.0	6.9	7.8	9.2	11.0	79	95	101
1/4PZ60110B4	3.5	4.9	6.0	6.9	7.8	9.2	11.0	96	110	115
1/4PZ8095B4	4.6	6.5	8.0	9.2	10.3	12.2	14.6	79	95	101
1/4PZ80110B4	4.6	6.5	8.0	9.2	10.3	12.2	14.6	96	110	115
1/4PZ10095B4	5.8	8.2	10.0	11.5	12.9	15.3	18.3	80	95	101
1/4PZ100110B4	5.8	8.2	10.0	11.5	12.9	15.3	18.3	97	110	114
1/4PZ15095B4	8.7	12.2	15.0	17.3	19.4	22.9	27.4	80	95	100
1/4PZ150110B4	8.7	12.2	15.0	17.3	19.4	22.9	27.4	97	110	114
1/4PZ20095B4	11.5	16.3	20.0	23.1	25.8	30.6	36.5	80	95	100
1/4PZ200110B4	11.5	16.3	20.0	23.1	25.8	30.6	36.5	97	110	114
3/8PZ25095B4	14.4	20.4	25.0	28.9	32.3	38.2	45.6	81	95	99
3/8PZ250110B4	14.4	20.4	25.0	28.9	32.3	38.2	45.6	96	110	113
1/2PZ30095B4	17.3	24.5	30.0	34.6	38.7	45.8	54.8	81	95	99
1/2PZ300110B4	17.3	24.5	30.0	34.6	38.7	45.8	54.8	96	110	113
1/2PZ40095B4	23.1	32.7	40.0	46.2	51.6	61.1	73.0	83	95	98
1/2PZ400110B4	23.1	32.7	40.0	46.2	51.6	61.1	73.0	98	110	113
1/2PZ50095B4	28.9	40.8	50.0	57.7	64.5	76.4	91.3	84	95	98
1/2PZ500110B4	28.9	40.8	50.0	57.7	64.5	76.4	91.3	99	110	113
1/2PZ60095B4	34.6	49.0	60.0	69.3	77.5	91.7	110	86	95	98
1/2PZ600110B4	34.6	49.0	60.0	69.3	77.5	91.7	110	99	110	112
3/4PZ75095B4	43.3	61.2	75.0	86.6	96.8	115	137	86	95	98
3/4PZ750110B4	43.3	61.2	75.0	86.6	96.8	115	137	100	110	112
3/4PZ100095B4	57.7	81.6	100	115	129	153	183	87	95	97
3/4PZ1000110B4	57.7	81.6	100	115	129	153	183	100	110	112
1PZ150095B4	86.6	122	150	173	194	229	274	87	95	97
1PZ1500110B4	86.6	122	150	173	194	229	274	102	110	112
1PZ200095B4	115	163	200	231	258	306	365	87	95	97
1PZ2000110B4	115	163	200	231	258	306	365	103	110	112
1 ¹ / ₄ PZ300095B4	173	245	300	346	387	458	548	90	95	96
1 ¹ / ₄ PZ3000110B4	173	245	300	346	387	458	548	105	110	111
1 ¹ / ₂ PZ400095B4	231	327	400	462	516	611	730	90	95	96
1 ¹ / ₂ PZ4000110B4	231	327	400	462	516	611	730	105	110	111
1/4PZ11740B5	6.8	9.6	11.7	13.5	15.2	17.9	21.4	32	40	42
1/4PZ11750B5	6.8	9.6	11.7	13.5	15.2	17.9	21.4	42	50	52
1/4PZ11765B5	6.8	9.6	11.7	13.5	15.2	17.9	21.4	56	65	68



PZ 系列喷嘴

扁平形喷嘴
flat nozzle

产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)		
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.1	0.3	0.5
1/4PZ23580B4	13.5	19.2	23.5	27.1	30.5	35.9	42.9	73	80	82
1/2PZ35050B5	20.2	28.6	35.0	40.4	45.2	53.5	63.9	42	50	52
3/8PZ39150B5	22.6	31.9	39.1	45.1	50.8	59.7	71.4	42	50	52
3/8PZ39165B4	22.6	31.9	39.1	45.1	50.8	59.7	71.4	57	65	68
3/8PZ39180B4	22.6	31.9	39.1	45.1	50.8	59.7	71.4	75	80	81
3/8PZ40025B5	23.1	32.7	40.0	46.2	51.6	61.6	73	18	25	28
3/8PZ40040B5	23.1	32.7	40.0	46.2	51.6	61.6	73	32	40	42
1/2PZ50025B5	28.9	40.8	50.0	57.7	64.5	76.4	91.3	19	25	27
1/2PZ50040B5	28.9	40.8	50.0	57.7	64.5	76.4	91.3	32	40	42
1/2PZ60025B5	34.6	49.0	60.0	69.3	77.5	91.7	120	19	25	27
1/2PZ60040B5	34.6	49.0	60.0	69.3	77.5	91.7	120	32	40	42
1PZ75025B5	43.3	61.2	75.0	86.6	96.8	115	137	19	25	27
1/2PZ75065B4	43.3	61.2	75.0	86.6	96.8	115	137	57	65	68
1PZ75090B5	43.3	61.2	75.0	86.6	96.8	115	137	84	90	94
1/2PZ80050B5	46.2	65.3	80.0	92.4	103	122	146	42	50	52
1/2PZ82080B5	47.3	67.0	82.0	94.7	106	125	150	75	80	81
3/4PZ110050B5	63.5	89.8	110	127	142	168	201	42	50	52
3/4PZ150050B5	86.6	122	150	173	194	229	274	42	50	52
1/4PZ3080B5	1.7	2.5	3.0	2.3	2.6	3.1	3.7	67	80	84
1/4PZ30110B5	1.7	2.5	3.0	2.3	2.6	3.1	3.7	95	110	118
1/4PZ4080B5	2.3	3.3	4.0	4.6	5.2	6.1	7.3	67	80	84
1/4PZ4590B5	2.6	3.7	4.5	5.2	5.8	6.9	8.2	79	90	95
1/4PZ5095B5	2.9	4.1	5.0	5.8	6.5	7.6	9.1	79	95	101
1/4PZ6065B4	3.5	4.9	6.0	6.9	7.8	9.2	11.0	54	65	70
1/4PZ8040B5	4.6	6.5	8.0	9.2	10.3	12.2	14.6	32	40	43
1/4PZ8080B4	4.6	6.5	8.0	9.2	10.3	12.2	14.6	67	80	84
1/4PZ8680B5	5.0	7.0	8.6	9.9	11.1	13.1	15.7	67	80	84
1/4PZ9472B5	5.4	7.7	9.4	10.9	12.1	14.4	17.2	60	72	76
1/4PZ10080B5	5.8	8.2	10.0	11.5	12.9	15.3	18.3	67	80	84
1/4PZ10095B5	5.8	8.2	10.0	11.5	12.9	15.3	18.3	79	95	101
3/8PZ11167B5	6.4	9.1	11.1	12.8	14.3	16.9	20.3	55	67	71
1/4PZ12568B5	7.2	10.2	12.5	14.4	16.1	19.1	22.8	56	68	72
3/8PZ14790B4	8.5	12.0	14.7	17.0	19.0	22.4	26.8	79	90	95
3/8PZ15061B5	8.7	12.2	15.0	17.3	19.4	22.9	27.4	55	61	65
1/4PZ15080B5	8.7	12.2	15.0	17.3	19.4	22.9	27.4	67	80	84
1/4PZ15040B5	8.7	12.2	15.0	17.3	19.4	22.9	27.4	32	40	43
1/4PZ18065B5	10.4	14.7	18.0	20.8	23.2	27.5	32.9	57	65	68
1/4PZ185110B5	10.7	15.2	18.5	21.4	23.9	28.2	33.8	95	110	115
3/4PZ21550B4	12.4	17.6	21.5	24.8	27.7	32.8	39.2	42	50	52
1/4PZ23065B4	13.3	18.8	23.0	26.6	29.7	35.1	42.0	57	65	68
1/4PZ250110B5	14.4	20.4	25.0	28.9	32.3	38.2	45.6	97	110	113
1/4PZ25025B5	14.4	20.4	25.0	28.9	32.3	38.2	45.6	18	25	28
3/8PZ40065B4	23.1	32.7	40.0	46.2	51.6	61.1	73	57	65	68
3/8PZ43050B4	24.9	35.2	43.0	49.7	55.5	65.6	78.5	42	50	52
1/2PZ75050B5	43.3	61.2	75.0	86.6	96.8	115	137	42	50	52
1/2PZ82080B4	47.4	67.2	82.0	94.7	105.8	125.2	149.6	67	80	84
3/4PZ150030B5	86.6	122	150	173	194	229	274	24	30	32

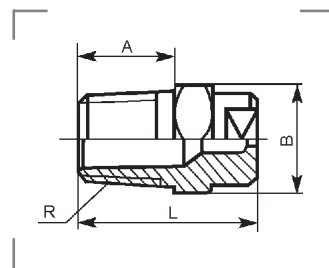
PZ 系列喷嘴

喷雾特性及用途:

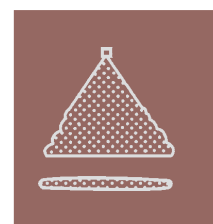
该喷嘴喷淋形式为扁平带状，雾化均匀，性能稳定；主要用于连铸、连轧、高速线材等钢坯的冷却，也可用来喷油润滑以及其它一切需冷却的设备中。

Spray Feature and Application:

The sprav pattern of the nozzle is in falt band shape, and is marked with even atomization and stable performances. It is mainly used for cooling in continuous casting machine, continuous rolling machine, high speed wire of steel loop etc. It can be also used for oil-spray lubrication and all other equipment that needs cooling.

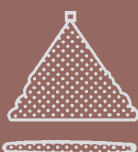


产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)
		A	B	L	R	0.1	0.2	0.3	0.4	0.5	0.7	1.0	
1/4PZ1215B6	HPb59-1 1Cr18Ni9Ti	14	14	25	1/4	0.68	0.96	1.2	1.4	1.5	1.8	2.1	15
1/4PZ1615B6		14	14	25	1/4	0.9	1.3	1.6	1.8	2	2.4	2.9	15
1/4PZ2015B6		14	14	25	1/4	1.1	1.6	2	2.3	2.5	3	3.6	15
1/4PZ2315B6		14	14	25	1/4	1.4	1.9	2.3	2.7	3	3.6	4.3	15
1/4PZ3115B6		14	14	25	1/4	1.8	2.6	3.1	3.6	4	4.8	5.7	15
1/4PZ3915B6		14	14	25	1/4	2.3	3.2	3.9	4.5	5	6	7.1	15
1/4PZ5915B6		14	14	25	1/4	3.4	4.8	5.9	6.8	7.6	9	10.7	15
1/4PZ7815B6		14	14	25	1/4	4.5	6.4	7.8	9	10.1	11.9	14.3	15
1/4PZ11715B6		14	14	25	1/4	6.8	9.6	11.7	13.5	15.1	17.9	21	15
1/4PZ15615B6		14	14	25	1/4	9	12.8	15.6	18.1	20	24	29	15
1/4PZ19515B6		14	14	25	1/4	11.3	16	19.5	23	25	30	36	15
1/4PZ23015B6		14	14	25	1/4	13.5	19.2	23	27	30	36	43	15
1/4PZ27015B6		14	14	25	1/4	15.8	22	27	32	35	42	50	15
1/2PZ59015B6		18	22	38	1/2	34	48	59	68	76	90	107	15
1/2PZ78015B6		18	22	38	1/2	45	64	78	90	101	119	143	15
1/4PZ1220B6		12	14	22	1/4	0.71	1	1.24	1.43	1.6	1.87	2.27	20
1/4PZ1520B6		12	14	22	1/4	0.88	1.25	1.53	1.77	1.98	2.34	2.8	20
1/4PZ1920B6		12	14	22	1/4	1.1	1.6	1.9	2.19	2.5	2.99	3.5	20
1/4PZ2320B6		12	14	22	1/4	1.34	1.9	2.33	2.69	3	3.56	4.25	20
1/4PZ3120B6		12	14	22	1/4	1.8	2.5	3.1	3.6	4	4.68	5.6	20
1/4PZ3920B6		12	14	22	1/4	2.23	3.15	3.85	4.45	4.98	5.89	7.04	20
1/4PZ4920B6		12	14	22	1/4	2.8	4	4.9	5.66	6.3	7.48	8.9	20
1/4PZ5820B6		12	14	22	1/4	3.36	4.75	5.81	6.71	7.51	8.89	10.6	20
1/4PZ7820B6		12	14	22	1/4	4.5	6.3	7.8	9.0	10	11.79	14.1	20
1/4PZ9820B6		12	14	22	1/4	5.7	8	9.8	11.3	12.6	14.97	17.9	20
1/4PZ12420B6		12	14	22	1/4	7.2	10	12.4	14.3	16	18.71	22.4	20
1/4PZ15320B6		12	14	22	1/4	8.8	12.5	15.3	17.7	19.8	23.39	28	20
1/4PZ19520B6		12	14	22	1/4	11.3	16	19.5	22.5	25.3	29.93	35.8	20
1/4PZ24520B6		12	14	22	1/4	14.2	20	24.5	28.3	31.5	37.42	44.8	20
1/4PZ27420B6		12	14	22	1/4	15.8	22.4	27.4	31.6	35.4	41.85	50	20
1/4PZ31020B6		12	14	22	1/4	17.8	25	31	35.8	40	46.77	56.6	20



PZ 系列喷嘴

flat nozzle
扁平形喷嘴

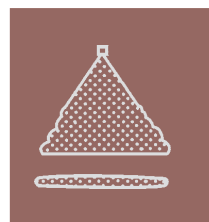


产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)
		A	B	L	R	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.3
1/4PZ1225B6	HPb59-1 1Cr18Ni9Ti	14	14	25	1/4	0.68	0.96	1.2	1.4	1.5	1.8	2.1	25
1/4PZ1625B6		14	14	25	1/4	0.9	1.3	1.6	1.8	2	2.4	2.9	25
1/4PZ2025B6		14	14	25	1/4	1.1	1.6	2	2.3	2.5	3.0	3.6	25
1/4PZ2325B6		14	14	25	1/4	1.4	1.9	2.3	2.7	3	3.6	4.3	25
1/4PZ3125B6		14	14	25	1/4	1.8	2.6	3.1	3.6	4	4.8	5.7	25
1/4PZ3925B6		14	14	25	1/4	2.3	3.2	3.9	4.5	5	6.0	7.1	25
1/4PZ5925B6		14	14	25	1/4	3.4	4.8	5.9	6.8	7.6	9.0	10.7	25
1/4PZ7825B6		14	14	25	1/4	4.5	6.4	7.8	9	10.1	11.9	14.3	25
1/4PZ11725B6		14	14	25	1/4	6.8	9.6	11.7	13.5	15.1	17.9	21	25
1/4PZ15625B6		14	14	25	1/4	9	12.8	15.6	18.1	20	24	29	25
1/4PZ19525B6		14	14	25	1/4	11.3	16	19.5	23	25	30	36	25
1/4PZ23025B6		14	14	25	1/4	13.5	19.2	23	27	30	36	43	25
1/4PZ27025B6		14	14	25	1/4	15.8	22	27	32	35	42	50	25
1/2PZ39025B6		18	22	38	1/2	23	32	39	45	50	60	71	25
1/2PZ59025B6		18	22	38	1/2	34	48	59	68	76	90	107	25
1/2PZ78025B6		18	22	38	1/2	45	64	78	90	101	119	143	25
1/4PZ1230B6		12	14	22	1/4	0.71	1	1.24	1.43	1.6	1.87	2.27	30
1/4PZ1530B6		12	14	22	1/4	0.88	1.25	1.53	1.77	1.98	2.34	2.8	30
1/4PZ1930B6		12	14	22	1/4	1.1	1.6	1.9	2.19	2.5	2.99	3.5	30
1/4PZ2330B6		12	14	22	1/4	1.34	1.9	2.33	2.69	3	3.56	4.25	30
1/4PZ3130B6		12	14	22	1/4	1.8	2.5	3.1	3.6	4	4.68	5.6	30
1/4PZ3930B6		12	14	22	1/4	2.23	3.15	3.85	4.45	4.98	5.89	7.04	30
1/4PZ4930B6		12	14	22	1/4	2.8	4	4.9	5.66	6.3	7.48	8.9	30
1/4PZ5830B6		12	14	22	1/4	3.36	4.75	5.81	6.71	7.51	8.89	10.6	30
1/4PZ7830B6		12	14	22	1/4	4.5	6.3	7.8	9.0	10	11.79	14.1	30
1/4PZ9830B6		12	14	22	1/4	5.7	8	9.8	11.3	12.6	14.97	17.9	30
1/4PZ12430B6		12	14	22	1/4	7.2	10	12.4	14.3	16	18.71	22.4	30
1/4PZ15330B6		12	14	22	1/4	8.8	12.5	15.3	17.7	19.8	23.39	28	30
1/4PZ19530B6		12	14	22	1/4	11.3	16	19.5	22.5	25.3	29.93	35.8	30
1/4PZ24530B6		12	14	22	1/4	14.2	20	24.5	28.3	31.5	37.42	44.8	30
1/4PZ27430B6		12	14	22	1/4	15.8	22.4	27.4	31.6	35.4	41.85	50	30
1/4PZ31030B6		12	14	22	1/4	17.8	25	31	35.8	40	46.77	56.6	30
1/4PZ1240B6		14	14	25	1/4	0.68	0.96	1.2	1.4	1.5	1.8	2.1	40
1/4PZ1640B6		14	14	25	1/4	0.9	1.3	1.6	1.8	2	2.4	2.9	40
1/4PZ2040B6		14	14	25	1/4	1.1	1.6	2	2.3	2.5	3.0	3.6	40
1/4PZ2340B6		14	14	25	1/4	1.4	1.9	2.3	2.7	3	3.6	4.3	40
1/4PZ3140B6		14	14	25	1/4	1.8	2.6	3.1	3.6	4	4.8	5.7	40
1/4PZ3940B6		14	14	25	1/4	2.3	3.2	3.9	4.5	5	6.0	7.1	40
1/4PZ5940B6		14	14	25	1/4	3.4	4.8	5.9	6.8	7.6	9.0	10.7	40
1/4PZ7840B6		14	14	25	1/4	4.5	6.4	7.8	9	10.1	11.9	14.3	40

PZ 系列喷嘴

flat nozzle
扁平形喷嘴

产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)
		A	B	L	R	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.3
1/4PZ11740B6	HPb59-1 1Cr18Ni9Ti	14	14	25	1/4	6.8	9.6	11.7	13.5	15.1	17.9	21	40
1/4PZ15640B6		14	14	25	1/4	9	12.8	15.6	18.1	20	24	29	40
1/4PZ19540B6		14	14	25	1/4	11.3	16	19.5	23	25	30	36	40
1/4PZ23040B6		14	14	25	1/4	13.5	19.2	23	27	30	36	43	40
1/4PZ27040B6		14	14	25	1/4	15.8	22	27	32	35	42	50	40
1/2PZ39040B6		18	22	38	1/2	23	32	39	45	50	60	71	40
1/2PZ59040B6		18	22	38	1/2	34	48	59	68	76	90	107	40
1/2PZ78040B6		18	22	38	1/2	45	64	78	90	101	119	143	40
1/4PZ1250B6		14	14	25	1/4	0.68	0.96	1.2	1.4	1.5	1.8	2.1	50
1/4PZ1650B6		14	14	25	1/4	0.9	1.3	1.6	1.8	2	2.4	2.9	50
1/4PZ2050B6		14	14	25	1/4	1.1	1.6	2	2.3	2.5	3.0	3.6	50
1/4PZ2350B6		14	14	25	1/4	1.4	1.9	2.3	2.7	3	3.6	4.3	50
1/4PZ3150B6		14	14	25	1/4	1.8	2.6	3.1	3.6	4	4.8	5.7	50
1/4PZ3950B6		14	14	25	1/4	2.3	3.2	3.9	4.5	5	6	7.1	50
1/4PZ5950B6		14	14	25	1/4	3.4	4.8	5.9	6.8	7.6	9	10.7	50
1/4PZ7850B6		14	14	25	1/4	4.5	6.4	7.8	9	10.1	11.9	14.3	50
1/4PZ11750B6		14	14	25	1/4	6.8	9.6	11.7	13.5	15.1	17.9	21	50
1/4PZ15650B6		14	14	25	1/4	9	12.8	15.6	18.1	20	24	29	50
1/4PZ19550B6		14	14	25	1/4	11.3	16	19.5	23	25	30	36	50
1/4PZ23050B6		14	14	25	1/4	13.5	19.2	23	27	30	36	43	50
1/4PZ27050B6		14	14	25	1/4	15.8	22	27	32	35	42	50	50
1/2PZ59050B6		18	22	38	1/2	34	48	59	68	76	90	107	50
1/2PZ78050B6		18	22	38	1/2	45	64	78	90	101	119	143	50
3/4PZ156050B6		22	27	51	3/4	90	128	156	180	200	238	285	50
1/4PZ1265B6		14	14	25	1/4	0.68	0.96	1.2	1.4	1.5	1.8	2.1	65
1/4PZ1665B6		14	14	25	1/4	0.9	1.3	1.6	1.8	2	2.4	2.9	65
1/4PZ2065B6		14	14	25	1/4	1.1	1.6	2	2.3	2.5	3.0	3.6	65
1/4PZ2365B6		14	14	25	1/4	1.4	1.9	2.3	2.7	3	3.6	4.3	65
1/4PZ3165B6		14	14	25	1/4	1.8	2.6	3.1	3.6	4	4.8	5.7	65
1/4PZ3965B6		14	14	25	1/4	2.3	3.2	3.9	4.5	5	6	7.1	65
1/4PZ5965B6		14	14	25	1/4	3.4	4.8	5.9	6.8	7.6	9	10.7	65
1/4PZ7865B6		14	14	25	1/4	4.5	6.4	7.8	9	10.1	11.9	14.3	65
1/4PZ11765B6		14	14	25	1/4	6.8	9.6	11.7	13.5	15.1	17.9	21	65
1/4PZ15665B6		14	14	25	1/4	9	12.8	15.6	18.1	20	24	29	65
1/4PZ19565B6		14	14	25	1/4	11.3	16	19.5	23	25	30	36	65
1/4PZ23065B6		14	14	25	1/4	13.5	19.2	23	27	30	36	43	65
1/4PZ27065B6		14	14	25	1/4	15.8	22	27	32	35	42	50	65
1/2PZ59065B6		18	22	38	1/2	34	48	59	68	76	90	107	65
1/2PZ78065B6		18	22	38	1/2	45	64	78	90	101	119	143	65
1/4PZ1280B6		14	14	25	1/4	0.68	0.96	1.2	1.4	1.5	1.8	2.1	80
1/4PZ1680B6		14	14	25	1/4	0.9	1.3	1.6	1.8	2	2.4	2.9	80



PZ 系列喷嘴

flat nozzle
扁平形喷嘴



产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)
		A	B	L	R	0.1	0.2	0.3	0.4	0.5	0.7	1.0	
1/4PZ2080B6	HPb59-1 1Cr18Ni9Ti	14	14	25	1/4	1.1	1.6	2	2.3	2.5	3	3.6	80
1/4PZ2380B6		14	14	25	1/4	1.4	1.9	2.3	2.7	3	3.6	4.3	80
1/4PZ3180B6		14	14	25	1/4	1.8	2.6	3.1	3.6	4	4.8	5.7	80
1/4PZ3980B6		14	14	25	1/4	2.3	3.2	3.9	4.5	5	6	7.1	80
1/4PZ5980B6		14	14	25	1/4	3.4	4.8	5.9	6.8	7.6	9	10.7	80
1/4PZ7880B6		14	14	25	1/4	4.5	6.4	7.8	9	10.1	11.9	14.3	80
1/4PZ11780B6		14	14	25	1/4	6.8	9.6	11.7	13.5	15.1	17.9	21	80
1/4PZ15680B6		14	14	25	1/4	9	12.8	15.6	18.1	20	24	29	80
1/4PZ19580B6		14	14	25	1/4	11.3	16	19.5	23	25	30	36	80
1/4PZ23080B6		14	14	25	1/4	13.5	19.2	23	27	30	36	43	80
1/4PZ27080B6		14	14	25	1/4	15.8	22	27	32	35	42	50	80
1/2PZ39080B6		18	22	38	1/2	23	32	39	45	50	60	71	80
1/2PZ59080B6		18	22	38	1/2	34	48	59	68	76	90	107	80
1/2PZ78080B6		18	22	38	1/2	45	64	78	90	101	119	143	80
1/4PZ1295B6		14	14	25	1/4	0.68	0.96	1.2	1.4	1.5	1.8	2.1	95
1/4PZ1695B6		14	14	25	1/4	0.9	1.3	1.6	1.8	2	2.4	2.9	95
1/4PZ2395B6		14	14	25	1/4	1.4	1.9	2.3	2.7	3	3.6	4.3	95
1/4PZ3195B6		14	14	25	1/4	1.8	2.6	3.1	3.6	4	4.8	5.7	95
1/4PZ3995B6		14	14	25	1/4	2.3	3.2	3.9	4.5	5	6	7.1	95
1/4PZ5995B6		14	14	25	1/4	3.4	4.8	5.9	6.8	7.6	9	10.7	95
1/4PZ7895B6		14	14	25	1/4	4.5	6.4	7.8	9	10.1	11.9	14.3	95
1/4PZ11795B6		14	14	25	1/4	6.8	9.6	11.7	13.5	15.1	17.9	21	95
1/4PZ15695B6		14	14	25	1/4	9	12.8	15.6	18.1	20	24	29	95
1/4PZ19595B6		14	14	25	1/4	11.3	16	19.5	23	25	30	36	95
1/4PZ23095B6		14	14	25	1/4	13.5	19.2	23	27	30	36	43	95
1/4PZ27095B6		14	14	25	1/4	15.8	22	27	32	35	42	50	95
1/2PZ39095B6		18	22	38	1/2	23	32	39	45	50	60	71	95
1/4PZ12110B6		14	14	25	1/4	0.68	0.96	1.2	1.4	1.5	1.8	2.1	110
1/4PZ16110B6		14	14	25	1/4	0.9	1.3	1.6	1.8	2	2.4	2.9	110
1/4PZ23110B6		14	14	25	1/4	1.4	1.9	2.3	2.7	3	3.6	4.3	110
1/4PZ31110B6		14	14	25	1/4	1.8	2.6	3.1	3.6	4	4.8	5.7	110
1/4PZ39110B6		14	14	25	1/4	2.3	3.2	3.9	4.5	5	6	7.1	110
1/4PZ59110B6		14	14	25	1/4	3.4	4.8	5.9	6.8	7.6	9	10.7	110
1/4PZ78110B6		14	14	25	1/4	4.5	6.4	7.8	9	10.1	11.9	14.3	110
1/4PZ117110B6		14	14	25	1/4	6.8	9.6	11.7	13.5	15.1	17.9	21	110
1/4PZ156110B6		14	14	25	1/4	9	12.8	15.6	18.1	20	24	29	110
1/4PZ195110B6		14	14	25	1/4	11.3	16	19.5	23	25	30	36	110
1/4PZ230110B6		14	14	25	1/4	13.5	19.2	23	27	30	36	43	110
1/4PZ270110B6		14	14	25	1/4	15.8	22	27	32	35	42	50	110
1/2PZ390110B6		18	22	38	1/2	23	32	39	45	50	60	71	110
1/2PZ590110B6		18	22	38	1/2	34	48	59	68	76	90	107	110
1/8PZ3870B6		6	12	20	1/8	2.4	3.1	3.8	4.3	4.7	5.8	6.9	70
1/4PZ26380B6		8	14	22	1/4	15	21.7	26.3	30	33.3	40.2	48.0	80
3/8PZ8087B6		10	17	24.5	3/8	4.6	6.5	8.0	9.2	10.3	12.2	14.6	87
3/8PZ6487B6		10	17	24.5	3/8	3.7	5.3	6.4	7.4	8.3	9.8	11.7	87

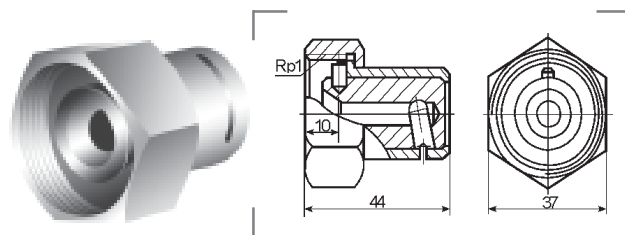
PZ 系列喷嘴

喷雾特性及用途:

该喷嘴结构新颖，雾化均匀，其喷淋形式为扇形面；主要适用于连铸机的二次冷却，也可用于其它工程的冷却。

Spray Feature and Application:

The nozzle is novel in structure, and is marked with even atomization in spraying. Its spray pattern is in flat shape. It is mainly suitable for the secondary cooling in continuous casting machine, and can be also used for the cooling in other engineering.



产品型号 Model	材质 Material	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)		
		0.1	0.2	0.28	0.4	0.5	0.7	1.0	0.15	0.28	0.5
1PZ12090B7	H62 HPb59-1	6.8	10.0	12.0	14.3	15.4	19.0	22.7	85	90	93
1PZ15090B7		9.0	12.8	15.0	18.1	20	23.7	28.3	85	90	93
1PZ20090B7		12.1	17.1	20.0	24	26.7	31.6	37.8	85	90	93
1PZ27590B7		17	23.8	27.5	32.5	36.2	43.5	52.0	85	90	93
1PZ30090B7		17.8	25	30.0	35.1	39.2	47.5	56.7	85	90	93

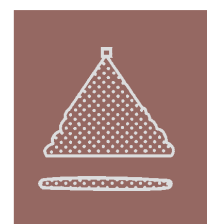
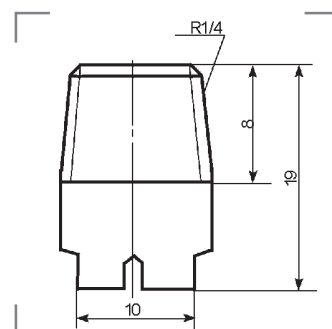
扁平形喷嘴 flat nozzle

喷雾特性及用途:

该喷嘴结构简单，安装方便，喷雾形状为扇形，在集管中装上许多喷嘴组合喷射，从而出现重叠喷雾，使铸坯得到均匀的冷却；此嘴主要用于特殊钢种连铸的二次冷却，也可用于环保除尘，净化空气，喷涂等。

Spray Feature and Application:

The nozzle is simple in structure and can be easily installed. Its spray pattern is in flat shape. Mounting several nozzles on the header to spray together can achieve the overlapped spray, which can make the casting blank get even cooling. The nozzle is mainly suitable for the secondary cooling in continuous casting machine for the special steel and can be also used for environmental protection and dust-removal, air cleaning, spray painting, etc.



产品型号 Model	材质 Material	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)		
		0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.15	0.3	0.5
1/4PZ1525B8	HPb59-1 1Cr18Ni9Ti	0.89	1.2	1.5	1.7	1.9	2.3	2.7	15	25	33
1/4PZ1540B8		0.89	1.2	1.5	1.7	1.9	2.3	2.7	30	40	50
1/4PZ1550B8		0.89	1.2	1.5	1.7	1.9	2.3	2.7	42	50	56
1/4PZ1595B8		0.89	1.2	1.5	1.7	1.9	2.3	2.7	84	95	103
1/4PZ3050B8		1.9	2.7	3.0	3.9	4.3	4.6	5.5	45	50	56
1/4PZ3095B8		1.9	2.7	3.0	3.9	4.3	4.6	5.5	87	95	100
1/4PZ3850B8		2.2	3.1	3.8	4.4	4.9	5.8	6.9	45	50	56
1/4PZ3895B8		2.2	3.1	3.8	4.4	4.9	5.8	6.9	88	95	100
1/4PZ5750B8		3.3	4.7	5.7	6.6	7.4	8.7	10.4	42	50	55
1/4PZ5795B8		3.3	4.7	5.7	6.6	7.4	8.7	10.4	89	95	100

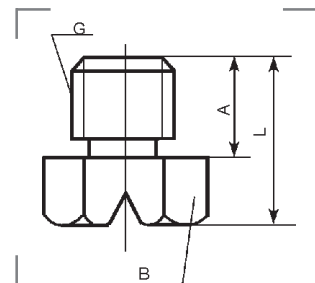
PZ 系列喷嘴

喷雾特性及用途：

该喷嘴结构简单，安装方便，其喷淋形式为扁平带状，水流密度由中心到边缘逐渐减落，当喷嘴均匀排列时，出现喷雾重叠，从而得到雾化均匀的效果；该嘴适用于连铸的二次冷却及高速线材的喷油润滑，也可用于设备冷却等。

Spray Feature and Application:

The nozzle is simple in structure and can be easily installed. Its spray pattern is in flat band shape. The flow density subsides gradually from the center to the edge. When the nozzles are arranged evenly, the overlapped spray will appear to achieve even atomization. The nozzles is fit for secondary cooling in continuous casting machine and the oil-spray lubrication of high speed wire as well as the cooling-off of equipment.



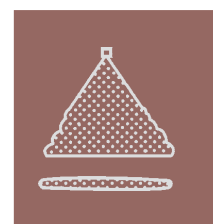
产品型号 Model	材质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)
		A	B	L	G	0.1	0.2	0.3	0.4	0.5	0.7	1.0	
1/4PZ1220B9	HPb59-1 1Cr18Ni9Ti	7	17	13	1/4	0.72	1.01	1.24	1.43	1.6	1.89	2.27	20
1/4PZ1520B9		7	17	13	1/4	0.88	1.25	1.53	1.77	1.98	2.34	2.8	20
1/4PZ1920B9		7	17	13	1/4	1.10	1.60	1.90	2.2	2.5	3.0	3.5	20
1/4PZ2320B9		7	17	13	1/4	1.34	1.90	2.33	2.69	3.0	3.5	4.25	20
1/4PZ3120B9		7	17	13	1/4	1.80	2.50	3.1	3.6	4.0	4.7	5.6	20
1/4PZ3920B9		7	17	13	1/4	2.23	3.15	3.85	4.45	4.98	5.9	7.04	20
1/4PZ4920B9		7	17	13	1/4	2.80	4.0	4.9	5.6	6.3	7.5	8.9	20
1/4PZ5820B9		7	17	13	1/4	3.36	4.75	5.81	6.7	7.51	8.89	10.6	20
1/4PZ7820B9		7	17	13	1/4	4.5	6.3	7.8	9.0	10	11.8	14.1	20
1/4PZ9820B9		7	17	13	1/4	5.7	8.0	9.8	11.3	12.6	15	17.9	20
1/4PZ12420B9		7	17	13	1/4	7.2	10.1	12.4	14.3	16	18.9	22.4	20
1/4PZ15320B9		7	17	13	1/4	8.8	12.5	15.3	17.7	19.8	23.4	28.0	20
1/4PZ19420B9		7	17	13	1/4	11.2	15.8	19.4	22.4	25	29.6	35.4	20
3/4PZ7820B9		8.5	32	16.5	3/4	4.5	6.3	7.8	9.0	10	11.8	14.1	20
3/4PZ9820B9		8.5	32	16.5	3/4	5.7	8.0	9.8	11.3	12.6	15	17.9	20
3/4PZ12420B9		8.5	32	16.5	3/4	7.2	10.1	12.4	14.3	16	18.9	22.4	20
3/4PZ15320B9		8.5	32	16.5	3/4	8.8	12.5	15.3	17.7	19.8	23.4	28.0	20
3/4PZ19420B9		8.5	32	16.5	3/4	11.2	15.8	19.4	22.4	25	29.6	35.4	20
3/4PZ24520B9		8.5	32	16.5	3/4	14.2	20	24.5	28.3	31.5	37.4	44.8	20
3/4PZ31020B9		8.5	32	16.5	3/4	17.8	25	31	35.8	40	47.4	56.6	20
3/4PZ49020B9		8.5	32	16.5	3/4	28	40	49	56	63	75	90	20
3/4PZ61020B9		8.5	32	16.5	3/4	35.3	50	61	70.7	79.1	93.5	112	20
3/4PZ76020B9		8.5	32	16.5	3/4	45	63	76	90	100	118	141	20
3/4PZ122020B9		8.5	32	16.5	3/4	71	100	122	141	158	187	224	20
1/4PZ1230B9		7	17	13	1/4	0.72	1.01	1.24	1.43	1.6	1.89	2.27	30
1/4PZ1530B9		7	17	13	1/4	0.88	1.25	1.53	1.77	1.98	2.34	2.8	30
1/4PZ1930B9		7	17	13	1/4	1.10	1.60	1.90	2.2	2.5	3.0	3.5	30
1/4PZ2330B9		7	17	13	1/4	1.34	1.90	2.33	2.69	3.0	3.5	4.25	30
1/4PZ3130B9		7	17	13	1/4	1.80	2.50	3.1	3.6	4.0	4.7	5.6	30
1/4PZ3930B9		7	17	13	1/4	2.23	3.15	3.85	4.45	4.98	5.9	7.04	30
1/4PZ4930B9		7	17	13	1/4	2.80	4.0	4.9	5.6	6.3	7.5	8.9	30

PZ 系列喷嘴

flat nozzle

扁平形喷嘴

产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)
		A	B	L	G	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.3
1/4PZ5830B9	HPb59-1 1Cr18Ni9Ti	7	17	13	1/4	3.36	4.75	5.81	6.7	7.51	8.89	10.6	30
1/4PZ7830B9		7	17	13	1/4	4.5	6.3	7.8	9.0	10	11.8	14.1	30
1/4PZ9830B9		7	17	13	1/4	5.7	8.0	9.8	11.3	12.6	15	17.9	30
1/4PZ12430B9		7	17	13	1/4	7.2	10.1	12.4	14.3	16	18.9	22.4	30
1/4PZ15330B9		7	17	13	1/4	8.8	12.5	15.3	17.7	19.8	23.4	28.0	30
1/4PZ19430B9		7	17	13	1/4	11.2	15.8	19.4	22.4	25	29.6	35.4	30
1/4PZ1245B9		7	17	13	1/4	0.72	1.01	1.24	1.43	1.6	1.89	2.27	45
1/4PZ1545B9		7	17	13	1/4	0.88	1.25	1.53	1.77	1.98	2.34	2.8	45
1/4PZ1945B9		7	17	13	1/4	1.10	1.60	1.90	2.2	2.5	3.0	3.5	45
1/4PZ2345B9		7	17	13	1/4	1.34	1.90	2.33	2.69	3.0	3.5	4.25	45
1/4PZ3145B9		7	17	13	1/4	1.80	2.50	3.1	3.6	4.0	4.7	5.6	45
1/4PZ3945B9		7	17	13	1/4	2.23	3.15	3.85	4.45	4.98	5.9	7.04	45
1/4PZ4945B9		7	17	13	1/4	2.80	4.0	4.9	5.6	6.3	7.5	8.9	45
1/4PZ5845B9		7	17	13	1/4	3.36	4.75	5.81	6.7	7.51	8.89	10.6	45
1/4PZ7845B9		7	17	13	1/4	4.5	6.3	7.8	9.0	10	11.8	14.1	45
1/4PZ9845B9		7	17	13	1/4	5.7	8.0	9.8	11.3	12.6	15	17.9	45
1/4PZ12445B9		7	17	13	1/4	7.2	10.1	12.4	14.3	16	18.9	22.4	45
1/4PZ15345B9		7	17	13	1/4	8.8	12.5	15.3	17.7	19.8	23.4	28.0	45
1/4PZ19445B9		7	17	13	1/4	11.2	15.8	19.4	22.4	25	29.6	35.4	45
1/4PZ24545B9		7	17	13	1/4	14.2	20	24.5	28.3	31.5	37.4	44.8	45
1/4PZ31045B9		7	17	13	1/4	17.8	25	31	35.8	40	47.4	56.6	45
1/4PZ1260B9		7	17	13	1/4	0.72	1.01	1.24	1.43	1.6	1.89	2.27	60
1/4PZ1560B9		7	17	13	1/4	0.88	1.25	1.53	1.77	1.98	2.34	2.8	60
1/4PZ1960B9		7	17	13	1/4	1.10	1.60	1.90	2.2	2.5	3.0	3.5	60
1/4PZ2360B9		7	17	13	1/4	1.34	1.90	2.33	2.69	3.0	3.5	4.25	60
1/4PZ3160B9		7	17	13	1/4	1.80	2.50	3.1	3.6	4.0	4.7	5.6	60
1/4PZ3960B9		7	17	13	1/4	2.23	3.15	3.85	4.45	4.98	5.9	7.04	60
1/4PZ4960B9		7	17	13	1/4	2.80	4.0	4.9	5.6	6.3	7.5	8.9	60
1/4PZ5860B9		7	17	13	1/4	3.36	4.75	5.81	6.7	7.51	8.89	10.6	60
1/4PZ7860B9		7	17	13	1/4	4.5	6.3	7.8	9.0	10	11.8	14.1	60
1/4PZ9860B9		7	17	13	1/4	5.7	8.0	9.8	11.3	12.6	15	17.9	60
1/4PZ12460B9		7	17	13	1/4	7.2	10.1	12.4	14.3	16	18.9	22.4	60
1/4PZ15360B9		7	17	13	1/4	8.8	12.5	15.3	17.7	19.8	23.4	28.0	60
1/4PZ19460B9		7	17	13	1/4	11.2	15.8	19.4	22.4	25	29.6	35.4	60
1/4PZ24560B9		7	17	13	1/4	14.2	20	24.5	28.3	31.5	37.4	44.8	60
1/4PZ1275B9		7	17	13	1/4	0.72	1.01	1.24	1.43	1.6	1.89	2.27	75
1/4PZ1575B9		7	17	13	1/4	0.88	1.25	1.53	1.77	1.98	2.34	2.8	75
1/4PZ1975B9		7	17	13	1/4	1.10	1.60	1.90	2.2	2.5	3.0	3.5	75
1/4PZ2375B9		7	17	13	1/4	1.34	1.90	2.33	2.69	3.0	3.5	4.25	75
1/4PZ3175B9		7	17	13	1/4	1.80	2.50	3.1	3.6	4.0	4.7	5.6	75



PZ 系列喷嘴

flat nozzle
扁平形喷嘴

产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)
		A	B	L	G	0.1	0.2	0.3	0.4	0.5	0.7	1.0	
1/4PZ3975B9	HPb59-1 1Cr18Ni9Ti	7	17	13	1/4	2.23	3.15	3.85	4.45	4.98	5.9	7.04	75
1/4PZ4975B9		7	17	13	1/4	2.80	4.0	4.9	5.6	6.3	7.5	8.9	75
1/4PZ5875B9		7	17	13	1/4	3.36	4.75	5.81	6.7	7.51	8.89	10.6	75
1/4PZ7875B9		7	17	13	1/4	4.5	6.3	7.8	9.0	10	11.8	14.1	75
1/4PZ9875B9		7	17	13	1/4	5.7	8.0	9.8	11.3	12.6	15	17.9	75
1/4PZ12475B9		7	17	13	1/4	7.2	10.1	12.4	14.3	16	18.9	22.4	75
1/4PZ15375B9		7	17	13	1/4	8.8	12.5	15.3	17.7	19.8	23.4	28.0	75
1/4PZ19475B9		7	17	13	1/4	11.2	15.8	19.4	22.4	25	29.6	35.4	75
1/4PZ24575B9		7	17	13	1/4	14.2	20	24.5	28.3	31.5	37.4	44.8	75
1/4PZ1290B9		7	17	13	1/4	0.72	1.01	1.24	1.43	1.6	1.89	2.27	90
1/4PZ1590B9		7	17	13	1/4	0.88	1.25	1.53	1.77	1.98	2.34	2.8	90
1/4PZ1990B9		7	17	13	1/4	1.10	1.60	1.90	2.2	2.5	3.0	3.5	90
1/4PZ2390B9		7	17	13	1/4	1.34	1.90	2.33	2.69	3.0	3.5	4.25	90
1/4PZ3190B9		7	17	13	1/4	1.80	2.50	3.1	3.6	4.0	4.7	5.6	90
1/4PZ3990B9		7	17	13	1/4	2.23	3.15	3.85	4.45	4.98	5.9	7.04	90
1/4PZ4990B9		7	17	13	1/4	2.80	4.0	4.9	5.6	6.3	7.5	8.9	90
1/4PZ5890B9		7	17	13	1/4	3.36	4.75	5.81	6.7	7.51	8.89	10.6	90
1/4PZ7890B9		7	17	13	1/4	4.5	6.3	7.8	9.0	10	11.8	14.1	90
1/4PZ9890B9		7	17	13	1/4	5.7	8.0	9.8	11.3	12.6	15	17.9	90
1/4PZ12490B9		7	17	13	1/4	7.2	10.1	12.4	14.3	16	18.9	22.4	90
1/4PZ15390B9		7	17	13	1/4	8.8	12.5	15.3	17.7	19.8	23.4	28.0	90
1/4PZ19490B9		7	17	13	1/4	11.2	15.8	19.4	22.4	25	29.6	35.4	90
1/4PZ24590B9		7	17	13	1/4	14.2	20	24.5	28.3	31.5	37.4	44.8	90
1/4PZ12120B9		7	17	13	1/4	0.72	1.01	1.24	1.43	1.6	1.89	2.27	120
1/4PZ15120B9		7	17	13	1/4	0.88	1.25	1.53	1.77	1.98	2.34	2.8	120
1/4PZ19120B9		7	17	13	1/4	1.10	1.60	1.90	2.2	2.5	3.0	3.5	120
1/4PZ23120B9		7	17	13	1/4	1.34	1.90	2.33	2.69	3.0	3.5	4.25	120
1/4PZ31120B9		7	17	13	1/4	1.80	2.50	3.1	3.6	4.0	4.7	5.6	120
1/4PZ39120B9		7	17	13	1/4	2.23	3.15	3.85	4.45	4.98	5.9	7.04	120
1/4PZ49120B9		7	17	13	1/4	2.80	4.0	4.9	5.6	6.3	7.5	8.9	120
1/4PZ58120B9		7	17	13	1/4	3.36	4.75	5.81	6.7	7.51	8.89	10.6	120
1/4PZ78120B9		7	17	13	1/4	4.5	6.3	7.8	9.0	10	11.8	14.1	120
1/4PZ98120B9		7	17	13	1/4	5.7	8.0	9.8	11.3	12.6	15	17.9	120
1/4PZ124120B9		7	17	13	1/4	7.2	10.1	12.4	14.3	16	18.9	22.4	120
1/4PZ153120B9		7	17	13	1/4	8.8	12.5	15.3	17.7	19.8	23.4	28.0	120
1/4PZ194120B9		7	17	13	1/4	11.2	15.8	19.4	22.4	25	29.6	35.4	120
3/4PZ24530B9		8	32	15	3/4	14.1	20	24.5	28.3	31.6	37.4	44.7	30
3/4PZ24545B9		8	32	15	3/4	14.1	20	24.5	28.3	31.6	37.4	44.7	45
3/4PZ25060B9		8	32	15	3/4	14.4	20.4	25	28.9	32.3	38.2	45.6	60
3/4PZ30630B9		12	32	19	3/4	17.7	25	30.6	35.5	39.5	46.7	55.9	30
3/4PZ49030B9		8	32	15	3/4	28.3	40	49	56.6	63.3	74.8	89.5	30
3/4PZ76090B9		8	32	15	3/4	43.9	62.1	76	87.8	98.1	116	139	90

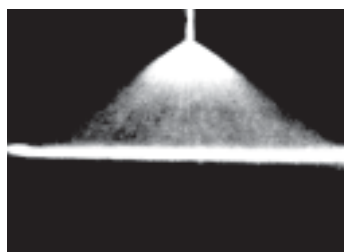
PZ 系列喷嘴

喷雾特性及用途:

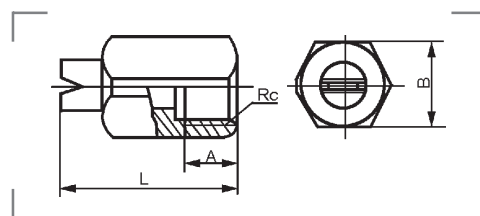
该喷嘴结构紧凑，技术性能良好，雾化均匀；主要用于大板坯连铸机的二次冷却及扇形段上、下足辊的外冷，也可用于机械的清洗。

Spray Feature and Application:

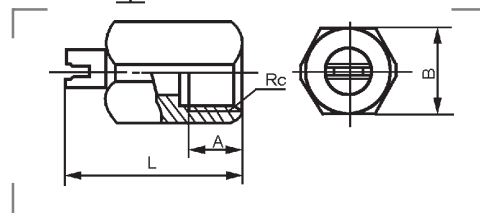
The nozzle is marked with compact structure, excellent technical performance and even atomization in spraying. It is mainly used for secondary cooling in continuous casting machine for large slab and the outside cooling of high and low foot roller at segment, as well as cleaning of machines.



B10 型

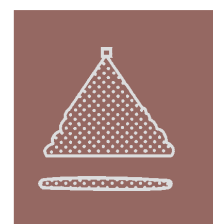


B11 型



flat nozzle
扁平形喷嘴

产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)					喷射角(°) Spray angle (degree)		
		B	A	L	Rc	0.1	0.2	0.3	0.4	0.5	0.15	0.3	0.5
1/8PZ2965B10	HPb59-1 1Cr18Ni9Ti	13	6	18	1/8	1.8	2.5	2.9	3.3	3.7	55	65	68
1/4PZ9270B10		16	8	22	1/4	5.0	7.3	9.2	10.4	11.7	63	70	74
1/4PZ123110B10		17	10	30	1/4	6.0	10	12.3	14.2	16	100	110	115
1/4PZ40140B10		17	9	32	1/4	2.3	3.3	4	4.6	5.2	125	140	148
1/4PZ60110B10		17	9	32	1/4	3.5	4.9	6	6.9	7.7	102	110	115
1/4PZ70140B10		17	9	32	1/4	4.0	5.7	7	8.1	9.0	125	140	148
1/4PZ8090B10		17	9	32	1/4	4.6	6.5	8	9.2	10.3	80	90	95
1/4PZ80110B10		17	9	32	1/4	4.6	6.5	8	9.2	10.3	102	110	115
1/4PZ80140B10		17	9	32	1/4	4.6	6.5	8	9.2	10.3	125	140	148
1/4PZ10090B10		17	9	32	1/4	5.8	8.2	10	11.5	12.9	80	90	95
1/4PZ120110B10		17	9	32	1/4	6.9	9.8	12	13.9	15.5	102	110	115
1/4PZ120140B10		17	9	32	1/4	6.9	9.8	12	13.9	15.5	125	140	148
1/2PZ200130B10		27	13	38	1/2	11.5	16.3	20	23.1	25.8	118	130	138
1/2PZ200110B10		27	13	38	1/2	11.5	16.3	20	23.1	25.8	102	110	115
1/2PZ20090B10		27	13	38	1/2	11.5	16.3	20	23.1	25.8	80	90	95
1/2PZ20075B10		27	13	38	1/2	11.5	16.3	20	23.1	25.8	68	75	78
3/8PZ80142B11		21	11	45	3/8	4.6	6.5	8.0	9.2	10.3	135	142	145
3/8PZ130142B11		21	11	45	3/8	7.5	10.6	13	15	16.8	135	142	145
3/8PZ140142B11		21	11	45	3/8	8.0	9.3	14	16.2	18.1	135	142	145
3/8PZ150142B11		21	11	45	3/8	8.7	12.2	15	17.3	19.4	135	142	145
3/8PZ210142B11		21	11	45	3/8	12.1	17.1	21	24.2	27.1	135	142	145
3/8PZ220105B11		21	11	45	3/8	12.7	17.9	22	25.4	28.4	107	105	110
3/8PZ140110B11		21	11	45	3/8	8.0	9.3	14	16.2	18.1	102	110	115



PZ 系列喷嘴

喷雾特性及用途:

该喷嘴结构简单, 喷雾形状为扁平形, 喷射角较大分布均匀, 水流由中心到边缘逐渐减弱, 将喷嘴装上集管喷射, 形成重叠喷雾; 该喷嘴主要用在板坯连铸机结晶器底足辊处, 冷却钢坯的短边, 也可用于设备的清洗, 冷却等。



Spray Feature and Application:

The nozzle is simple in structure. Its spray pattern is in flat shape in big spray angle and even distribution. The water flow subsides gradually from the center to the edge. Mounting nozzles on the header to spray achieve the overlapped spray. The nozzle is mainly used for bottom foot roller of mold of slab continuous casting machine, for the cooling of narrow side of slab, and can be also used for cleaning and cooling of equipment.



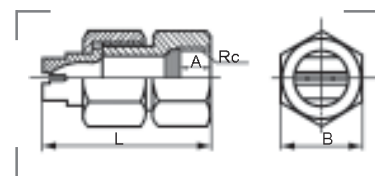
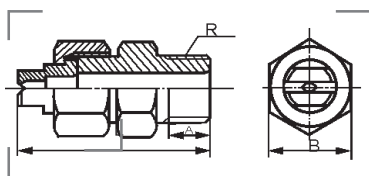
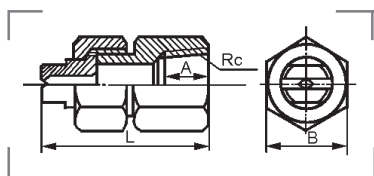
B12 型



B13 型



B14 型

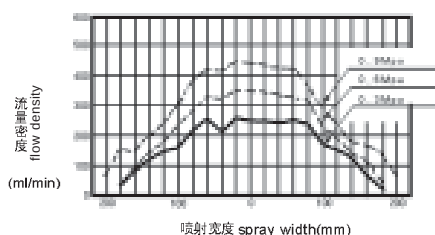
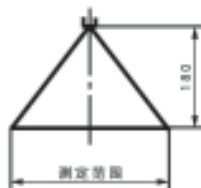


单喷嘴各压力下水量分布测定:

Drop distribution in single nozzle under various pressures:

喷嘴型号: 3/8PZ3080B12

Nozzle model :3/8PZ3080B12

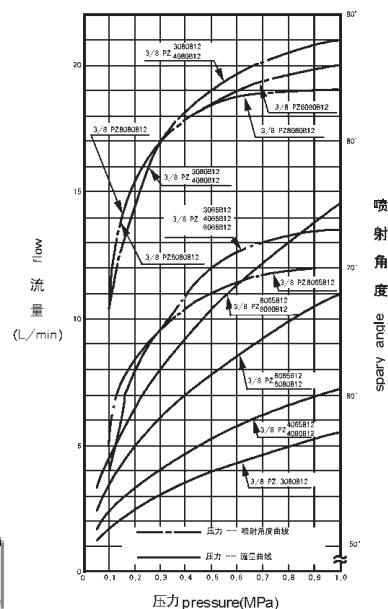
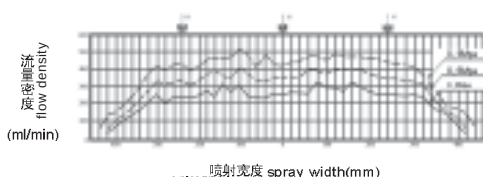
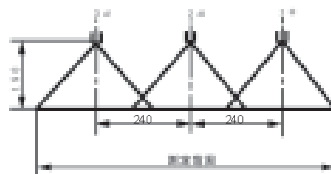


组合喷嘴各压力下水量分布测定:

Drop distribution in combined nozzles under various pressures:

喷嘴型号: 3/8PZ3080B12

Nozzle model :3/8PZ3080B12



流量、喷射角、压力特性曲线
flow, spray angle and pressure characteristic curve

PZ 系列喷嘴

产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)		
		A	B	L	Rc	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.1	0.3	0.5
3/8PZ1515B12	HPb59-1 1Cr18Ni9Ti	10	22	45	3/8	0.8	1.2	1.5	1.7	1.9	2.2	2.7	9	15	18
3/8PZ1540B12		10	22	45	3/8	0.8	1.2	1.5	1.7	1.9	2.2	2.7	31	40	44
3/8PZ1550B12		10	22	45	3/8	0.8	1.2	1.5	1.7	1.9	2.2	2.7	41	50	53
3/8PZ1565B12		10	22	45	3/8	0.8	1.2	1.5	1.7	1.9	2.2	2.7	53	65	71
3/8PZ1580B12		10	22	45	3/8	0.8	1.2	1.5	1.7	1.9	2.2	2.7	67	80	84
3/8PZ2015B12		10	22	45	3/8	1.1	1.6	2.0	2.3	2.6	3.1	3.7	9	15	17
3/8PZ2040B12		10	22	45	3/8	1.1	1.6	2.0	2.3	2.6	3.1	3.7	32	40	43
3/8PZ2050B12		10	22	45	3/8	1.1	1.6	2.0	2.3	2.6	3.1	3.7	42	50	52
3/8PZ2065B12		10	22	45	3/8	1.1	1.6	2.0	2.3	2.6	3.1	3.7	54	65	70
3/8PZ2080B12		10	22	45	3/8	1.1	1.6	2.0	2.3	2.6	3.1	3.7	67	80	84
3/8PZ3015B12		10	22	45	3/8	1.7	2.5	3.0	3.5	3.9	4.6	5.5	10	15	17
3/8PZ3040B12		10	22	45	3/8	1.7	2.5	3.0	3.5	3.9	4.6	5.5	32	40	43
3/8PZ3050B12		10	22	45	3/8	1.7	2.5	3.0	3.5	3.9	4.6	5.5	42	50	52
3/8PZ3065B12		10	22	45	3/8	1.7	2.5	3.0	3.5	3.9	4.6	5.5	54	65	70
3/8PZ3080B12		10	22	45	3/8	1.7	2.5	3.0	3.5	3.9	4.6	5.5	67	80	84
3/8PZ4015B12		10	22	45	3/8	2.3	3.3	4.0	4.6	5.2	6.1	7.3	10	15	17
3/8PZ4040B12		10	22	45	3/8	2.3	3.3	4.0	4.6	5.2	6.1	7.3	32	40	43
3/8PZ4050B12		10	22	45	3/8	2.3	3.3	4.0	4.6	5.2	6.1	7.3	42	50	52
3/8PZ4065B12		10	22	45	3/8	2.3	3.3	4.0	4.6	5.2	6.1	7.3	54	65	70
3/8PZ4080B12		10	22	45	3/8	2.3	3.3	4.0	4.6	5.2	6.1	7.3	67	80	84
3/8PZ5015B12		10	22	45	3/8	2.9	4.1	5.0	5.8	6.5	7.6	9.1	10	15	17
3/8PZ5040B12		10	22	45	3/8	2.9	4.1	5.0	5.8	6.5	7.6	9.1	32	40	43
3/8PZ5050B12		10	22	45	3/8	2.9	4.1	5.0	5.8	6.5	7.6	9.1	42	50	52
3/8PZ5065B12		10	22	45	3/8	2.9	4.1	5.0	5.8	6.5	7.6	9.1	54	65	70
3/8PZ5080B12		10	22	45	3/8	2.9	4.1	5.0	5.8	6.5	7.6	9.1	67	80	83
3/8PZ6015B12		10	22	45	3/8	3.5	4.9	6.0	6.9	7.8	9.2	11.0	10	15	17
3/8PZ6040B12		10	22	45	3/8	3.5	4.9	6.0	6.9	7.8	9.2	11.0	32	40	43
3/8PZ6050B12		10	22	45	3/8	3.5	4.9	6.0	6.9	7.8	9.2	11.0	42	50	52
3/8PZ6065B12		10	22	45	3/8	3.5	4.9	6.0	6.9	7.8	9.2	11.0	54	65	70
3/8PZ6080B12		10	22	45	3/8	3.5	4.9	6.0	6.9	7.8	9.2	11.0	67	80	83
3/8PZ8015B12		10	22	45	3/8	4.6	6.5	8.0	9.2	10.3	12.2	14.6	10	15	17
3/8PZ8040B12		10	22	45	3/8	4.6	6.5	8.0	9.2	10.3	12.2	14.6	32	40	43
3/8PZ8050B12		10	22	45	3/8	4.6	6.5	8.0	9.2	10.3	12.2	14.6	42	50	52
3/8PZ8065B12		10	22	45	3/8	4.6	6.5	8.0	9.2	10.3	12.2	14.6	56	65	68
3/8PZ8080B12		10	22	45	3/8	4.6	6.5	8.0	9.2	10.3	12.2	14.6	69	80	83
3/8PZ10015B12		10	22	45	3/8	5.8	8.2	10.0	11.5	12.9	15.3	18.3	10	15	17
3/8PZ10040B12		10	22	45	3/8	5.8	8.2	10.0	11.5	12.9	15.3	18.3	32	40	42
3/8PZ10050B12		10	22	45	3/8	5.8	8.2	10.0	11.5	12.9	15.3	18.3	42	50	52
3/8PZ10065B12		10	22	45	3/8	5.8	8.2	10.0	11.5	12.9	15.3	18.3	56	65	68
3/8PZ10080B12		10	22	45	3/8	5.8	8.2	10.0	11.5	12.9	15.3	18.3	75	80	83

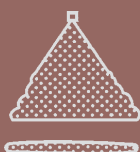
flat nozzle

扁平形喷嘴



PZ 系列喷嘴

flat nozzle
扁平形喷嘴



产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)		
		A	B	L	R/Rc	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.1	0.3	0.5
3/8PZ15015B12	HPb59-1 1Cr18Ni9Ti	10	22	45	3/8	8.7	12.2	15.0	17.3	19.4	22.9	27.4	10	15	17
3/8PZ15040B12		10	22	45	3/8	8.7	12.2	15.0	17.3	19.4	22.9	27.4	32	40	42
3/8PZ15050B12		10	22	45	3/8	8.7	12.2	15.0	17.3	19.4	22.9	27.4	42	50	52
3/8PZ15065B12		10	22	45	3/8	8.7	12.2	15.0	17.3	19.4	22.9	27.4	57	65	68
3/8PZ15080B12		10	22	45	3/8	8.7	12.2	15.0	17.3	19.4	22.9	27.4	71	80	83
3/8PZ20015B12		10	22	45	3/8	11.5	16.3	20.0	23.1	25.8	30.6	36.5	10	15	17
3/8PZ20040B12		10	22	45	3/8	11.5	16.3	20.0	23.1	25.8	30.6	36.5	32	40	42
3/8PZ20050B12		10	22	45	3/8	11.5	16.3	20.0	23.1	25.8	30.6	36.5	42	50	52
3/8PZ20065B12		10	22	45	3/8	11.5	16.3	20.0	23.1	25.8	30.6	36.5	57	65	68
3/8PZ20080B12		10	22	45	3/8	11.5	16.3	20.0	23.1	25.8	30.6	36.5	73	80	82
3/8PZ25015B12		10	22	45	3/8	14.4	20.4	25.0	28.9	32.3	38.2	45.6	10	15	17
3/8PZ25040B12		10	22	45	3/8	14.4	20.4	25.0	28.9	32.3	38.2	45.6	32	40	42
3/8PZ25050B12		10	22	45	3/8	14.4	20.4	25.0	28.9	32.3	38.2	45.6	42	50	52
3/8PZ25065B12		10	22	45	3/8	14.4	20.4	25.0	28.9	32.3	38.2	45.6	57	65	68
3/8PZ25080B12		10	22	45	3/8	14.4	20.4	25.0	28.9	32.3	38.2	45.6	73	80	81
3/8PZ30050B12		10	22	45	3/8	17.3	24.5	30.0	34.6	38.7	45.8	54.8	42	50	52
3/8PZ30065B12		10	22	45	3/8	17.3	24.5	30.0	34.6	38.7	45.8	54.8	57	65	68
1/2PZ30080B12		13	27	50	1/2	17.3	24.5	30.0	34.6	38.7	45.8	54.8	73	80	81
1/2PZ40080B12		13	27	50	1/2	23.1	32.7	40	46.2	51.6	61.1	73	75	80	83
1/2PZ40075B12		13	27	50	1/2	23.1	32.7	40	46.2	51.6	61.1	73	70	75	78
1/2PZ300110B12		13	27	50	1/2	17.3	24.5	30.0	34.6	38.7	45.8	54.8	102	110	115
3/8PZ300110B13		10	22	49	3/8	17.3	24.5	30.0	34.6	38.7	45.8	54.8	102	110	115
3/8PZ30075B13		10	22	49	3/8	17.3	24.5	30.0	34.6	38.7	45.8	54.8	70	75	78
1/4PZ27100B12		10	22	45	1/4	1.6	2.2	2.7	3.2	3.5	4.1	4.9	90	100	105
1/4PZ60110B12		10	22	45	1/4	3.5	4.9	6.0	6.9	7.8	9.2	11.0	90	100	105
3/8PZ30115B14		10	22	45	3/8	1.73	2.5	3.0	3.5	3.9	4.6	5.5	102	115	121
3/8PZ40115B14		10	22	45	3/8	2.3	3.3	4.0	4.6	5.2	6.1	7.3	103	115	120
3/8PZ50115B14		10	22	45	3/8	2.9	4.1	5.0	5.8	6.5	7.6	9.1	103	115	120
3/8PZ60115B14		10	22	45	3/8	3.5	4.9	6.0	6.9	7.8	9.2	11.0	104	115	118
3/8PZ90115B14		10	22	45	3/8	5.2	7.4	9.0	10.4	11.6	13.8	16.4	105	115	118
3/8PZ110115B14		10	22	45	3/8	6.4	9.0	11.0	12.7	14.2	16.8	20.1	105	115	118
3/8PZ120115B14		16	35	70	3/4	6.9	9.8	12.0	13.9	15.5	18.3	21.9	105	115	118
3/8PZ150115B14		16	35	70	3/4	8.7	12.2	15.0	17.3	19.4	22.9	27.4	105	115	118
3/8PZ160115B14		16	35	70	3/4	9.2	13.1	16.0	18.5	20.7	24.4	29.2	105	115	118
3/8PZ180115B14		16	35	70	3/4	10.4	14.7	18.0	21.0	23.0	27.5	32.9	105	115	118
3/8PZ70135B14		10	22	45	3/8	4.0	5.7	7.0	8.1	9.0	10.7	12.8	125	135	138
3/8PZ8090B14		10	22	45	3/8	4.6	6.5	8.0	9.2	10.3	12.2	14.6	80	90	94
3/8PZ14090B14		10	22	45	3/8	8.1	11.4	14.0	16.2	17.8	21.4	25.6	80	90	94
3/8PZ22090B14		10	22	45	3/8	13.1	18.1	22.0	25	28	33.6	40.2	80	90	94
3/8PZ18080B14		10	22	45	3/8	10.4	14.7	18.0	21	32	27.5	32.9	73	80	84

喷雾特性及用途:

该喷嘴结构新颖, 喷嘴头部带有燕尾, 用螺母固定, 便可达到此嘴与管子中心线所构成的角度, 在管路中装上此喷嘴, 即使在不同的安装高度, 也能够达到雾化均匀; 此喷嘴喷雾形状为扇形, 水流分布成长方形抛物线状, 同气-水雾化喷嘴、全锥形喷嘴配合, 主要适用于超低头板坯连铸机的二次冷却, 也可用于需清洗的设备中。

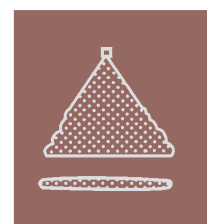
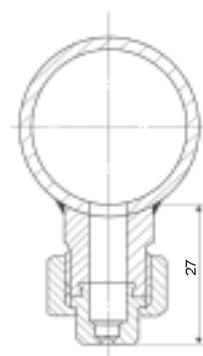
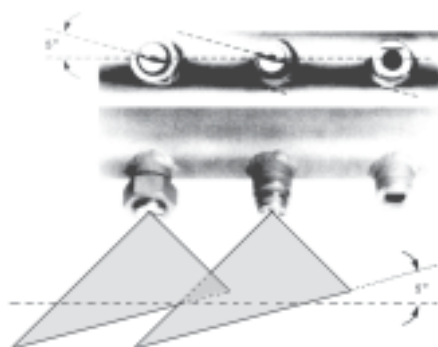
Spray Feature and Application:

The nozzle is novel in structure. There is dovetail at the head of nozzle. Fixed with nut, the nozzle can form an angle with the central line of pipe. Mounting this nozzle in the pipe line can achieve even atomization even at different mounting heights. The spray pattern of the nozzle is in flat shape, and the drop distribution is of rectangle parabola. The nozzle, fitted with air-water atomizing nozzle and full cone nozzle, is mainly suitable for the secondary cooling in slab continuous casting machine for extra-low-head, and can be also used for the cleaning of equipment.

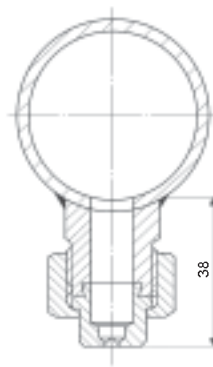
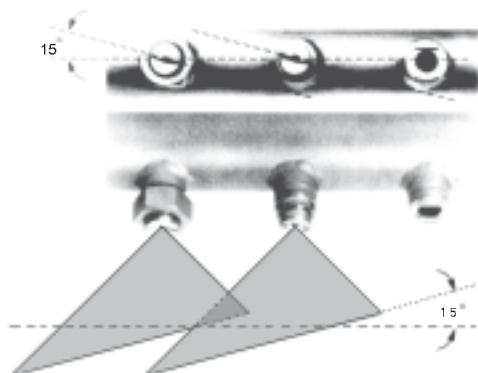
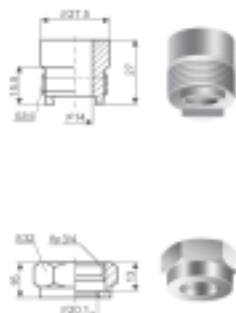


安装示例 Example for installation:

3/8PZ 型

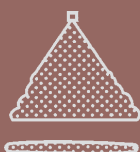


3/4PZ 型



PZ 系列喷嘴

flat nozzle
扁平形喷嘴



产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)
		A	B	L	Rp	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.3
3/8PZ1220B15	HPb59-1 1Cr18Ni9Ti	6.3	22	18.3	3/8	0.70	1.00	1.22	1.41	1.58	1.87	2.23	20
3/8PZ1520B15		6.3	22	18.3	3/8	0.88	1.25	1.53	1.77	1.97	2.33	2.79	20
3/8PZ2020B15		6.3	22	18.3	3/8	1.13	1.60	1.96	2.26	2.53	2.99	3.57	20
3/8PZ2320B15		6.3	22	18.3	3/8	1.34	1.90	2.32	2.68	3.00	3.55	4.24	20
3/8PZ3120B15		6.3	22	18.3	3/8	1.76	2.50	3.06	3.53	3.95	4.67	5.59	20
3/8PZ3920B15		6.3	22	18.3	3/8	2.22	3.15	3.85	4.45	4.98	5.89	7.04	20
3/8PZ4920B15		6.3	22	18.3	3/8	2.82	4.00	4.89	5.65	6.32	7.48	8.94	20
3/8PZ5820B15		6.3	22	18.3	3/8	3.35	4.75	5.81	6.7	7.51	8.88	10.62	20
3/8PZ7720B15		6.3	22	18.3	3/8	4.45	6.30	7.71	8.9	9.96	11.78	14.08	20
3/8PZ9820B15		6.3	22	18.3	3/8	5.65	8.00	9.79	11.3	12.64	14.96	17.88	20
3/8PZ12320B15		6.3	22	18.3	3/8	7.07	10.00	12.24	14.1	15.81	18.70	22.36	20
3/8PZ15320B15		6.3	22	18.3	3/8	8.83	12.50	15.30	17.7	19.76	23.38	27.95	20
3/8PZ19520B15		6.3	22	18.3	3/8	11.31	16.00	19.53	22.6	25.29	29.93	35.77	20
3/8PZ1230B15		6.3	22	18.3	3/8	0.70	1.00	1.22	1.41	1.58	1.87	2.23	30
3/8PZ1530B15		6.3	22	18.3	3/8	0.88	1.25	1.53	1.77	1.97	2.33	2.79	30
3/8PZ2030B15		6.3	22	18.3	3/8	1.13	1.60	1.96	2.26	2.53	2.99	3.57	30
3/8PZ2330B15		6.3	22	18.3	3/8	1.34	1.90	2.32	2.68	3.00	3.55	4.24	30
3/8PZ3130B15		6.3	22	18.3	3/8	1.76	2.50	3.06	3.53	3.95	4.67	5.59	30
3/8PZ3930B15		6.3	22	18.3	3/8	2.22	3.15	3.85	4.45	4.98	5.89	7.04	30
3/8PZ4930B15		6.3	22	18.3	3/8	2.82	4.00	4.89	5.65	6.32	7.48	8.94	30
3/8PZ5830B15		6.3	22	18.3	3/8	3.35	4.75	5.81	6.7	7.51	8.88	10.62	30
3/8PZ7730B15		6.3	22	18.3	3/8	4.45	6.30	7.71	8.9	9.96	11.78	14.08	30
3/8PZ9830B15		6.3	22	18.3	3/8	5.65	8.00	9.79	11.3	12.64	14.96	17.88	30
3/8PZ12330B15		6.3	22	18.3	3/8	7.07	10.00	12.24	14.1	15.81	18.70	22.36	30
3/8PZ15330B15		6.3	22	18.3	3/8	8.83	12.50	15.30	17.7	19.76	23.38	27.95	30
3/8PZ19530B15		6.3	22	18.3	3/8	11.31	16.00	19.53	22.6	25.29	29.93	35.77	30
3/8PZ1245B15		6.3	22	18.3	3/8	0.70	1.00	1.22	1.41	1.58	1.87	2.23	45
3/8PZ1545B15		6.3	22	18.3	3/8	0.88	1.25	1.53	1.77	1.97	2.33	2.79	45
3/8PZ2045B15		6.3	22	18.3	3/8	1.13	1.60	1.96	2.26	2.53	2.99	3.57	45
3/8PZ2345B15		6.3	22	18.3	3/8	1.34	1.90	2.32	2.68	3.00	3.55	4.24	45
3/8PZ3145B15		6.3	22	18.3	3/8	1.76	2.50	3.06	3.53	3.95	4.67	5.59	45
3/8PZ3945B15		6.3	22	18.3	3/8	2.22	3.15	3.85	4.45	4.98	5.89	7.04	45
3/8PZ4945B15		6.3	22	18.3	3/8	2.82	4.00	4.89	5.65	6.32	7.48	8.94	45
3/8PZ5845B15		6.3	22	18.3	3/8	3.35	4.75	5.81	6.7	7.51	8.88	10.62	45
3/8PZ7745B15		6.3	22	18.3	3/8	4.45	6.30	7.71	8.9	9.96	11.78	14.08	45
3/8PZ9845B15		6.3	22	18.3	3/8	5.65	8.00	9.79	11.3	12.64	14.96	17.88	45

PZ 系列喷嘴

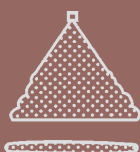
flat nozzle
扁平形喷嘴

产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)
		A	B	L	Rp	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.3
3/8PZ12345B15	HPb59-1 1Cr18Ni9Ti	6.3	22	18.3	3/8	7.07	10.00	12.24	14.1	15.81	18.70	22.36	45
3/8PZ15345B15		6.3	22	18.3	3/8	8.83	12.50	15.30	17.7	19.76	23.38	27.95	45
3/8PZ19545B15		6.3	22	18.3	3/8	11.31	16.00	19.53	22.6	25.29	29.93	35.77	45
3/8PZ1260B15		6.3	22	18.3	3/8	0.70	1.00	1.22	1.41	1.58	1.87	2.23	60
3/8PZ1560B15		6.3	22	18.3	3/8	0.88	1.25	1.53	1.77	1.97	2.33	2.79	60
3/8PZ2060B15		6.3	22	18.3	3/8	1.13	1.60	1.96	2.26	2.53	2.99	3.57	60
3/8PZ2360B15		6.3	22	18.3	3/8	1.34	1.90	2.32	2.68	3.00	3.55	4.24	60
3/8PZ3160B15		6.3	22	18.3	3/8	1.76	2.50	3.06	3.53	3.95	4.68	5.59	60
3/8PZ3960B15		6.3	22	18.3	3/8	2.22	3.15	3.85	4.45	4.98	5.89	7.04	60
3/8PZ4960B15		6.3	22	18.3	3/8	2.82	4.00	4.89	5.65	6.32	7.48	8.94	60
3/8PZ5860B15		6.3	22	18.3	3/8	3.35	4.75	5.81	6.7	7.51	8.88	10.66	60
3/8PZ7760B15		6.3	22	18.3	3/8	4.45	6.30	7.71	8.9	9.96	11.78	14.08	60
3/8PZ9860B15		6.3	22	18.3	3/8	5.65	8.00	9.79	11.3	12.64	14.96	17.88	60
3/8PZ12360B15		6.3	22	18.3	3/8	7.07	10.00	12.24	14.1	15.81	18.70	22.36	60
3/8PZ15360B15		6.3	22	18.3	3/8	8.83	12.50	15.30	17.7	19.76	23.38	27.95	60
3/8PZ19560B15		6.3	22	18.3	3/8	11.31	16.00	19.53	22.6	25.29	29.93	35.77	60
3/8PZ1290B15		6.3	22	18.3	3/8	0.70	1.00	1.22	1.41	1.58	1.87	2.23	90
3/8PZ1590B15		6.3	22	18.3	3/8	0.88	1.25	1.53	1.77	1.97	2.33	2.79	90
3/8PZ2090B15		6.3	22	18.3	3/8	1.13	1.60	1.96	2.26	2.53	2.99	3.57	90
3/8PZ2390B15		6.3	22	18.3	3/8	1.34	1.90	2.32	2.68	3.00	3.55	4.24	90
3/8PZ3190B15		6.3	22	18.3	3/8	1.76	2.50	3.06	3.53	3.95	4.68	5.59	90
3/8PZ3990B15		6.3	22	18.3	3/8	2.22	3.15	3.85	4.45	4.98	5.89	7.04	90
3/8PZ4990B15		6.3	22	18.3	3/8	2.82	4.00	4.89	5.65	6.32	7.48	8.94	90
3/8PZ5890B15		6.3	22	18.3	3/8	3.35	4.75	5.81	6.7	7.51	8.88	10.62	90
3/8PZ7790B15		6.3	22	18.3	3/8	4.45	6.30	7.71	8.9	9.96	11.78	14.08	90
3/8PZ9890B15		6.3	22	18.3	3/8	5.65	8.00	9.79	11.3	12.64	14.96	17.88	90
3/8PZ12390B15		6.3	22	18.3	3/8	7.07	10.00	12.24	14.1	15.81	18.70	22.36	90
3/8PZ15390B15		6.3	22	18.3	3/8	8.83	12.50	15.30	17.7	19.76	23.38	27.95	90
3/8PZ19590B15		6.3	22	18.3	3/8	11.31	16.00	19.53	22.6	25.29	29.93	35.77	90
3/8PZ12120B15		6.3	22	18.3	3/8	0.70	1.00	1.22	1.41	1.58	1.87	2.23	120
3/8PZ15120B15		6.3	22	18.3	3/8	0.88	1.25	1.53	1.77	1.97	2.33	2.79	120
3/8PZ20120B15		6.3	22	18.3	3/8	1.13	1.60	1.96	2.26	2.53	2.99	3.57	120
3/8PZ23120B15		6.3	22	18.3	3/8	1.34	1.90	2.32	2.68	3.00	3.55	4.24	120
3/8PZ31120B15		6.3	22	18.3	3/8	1.76	2.50	3.06	3.53	3.95	4.68	5.59	120
3/8PZ39120B15		6.3	22	18.3	3/8	2.22	3.15	3.85	4.45	4.98	5.89	7.04	120
3/8PZ49120B15		6.3	22	18.3	3/8	2.82	4.00	4.89	5.65	6.32	7.48	8.94	120



PZ 系列喷嘴

flat nozzle
扁平形喷嘴



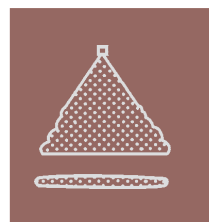
产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)
		A	B	L	Rp	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.3
3/8PZ58120B15	HPb59-1 1Cr18Ni9Ti	6.3	22	18.3	3/8	3.35	4.75	5.81	6.7	7.51	8.88	10.62	120
3/8PZ77120B15		6.3	22	18.3	3/8	4.45	6.30	7.71	8.9	9.96	11.78	14.08	120
3/8PZ98120B15		6.3	22	18.3	3/8	5.65	8.00	9.79	11.3	12.64	14.96	17.88	120
3/8PZ123120B15		6.3	22	18.3	3/8	7.07	10.00	12.24	14.1	15.81	18.70	22.36	120
3/8PZ153120B15		6.3	22	18.3	3/8	8.83	12.50	15.30	17.7	19.76	23.38	27.95	120
3/8PZ195120B15		6.3	22	18.3	3/8	11.31	16.00	19.53	22.6	25.29	29.93	35.77	120
3/4PZ7720B15		6.5	32	21.5	3/4	4.45	6.30	7.72	8.9	9.96	11.79	14.09	20
3/4PZ9820B15		6.5	32	21.5	3/4	5.66	8.00	9.80	11.3	12.65	14.97	17.89	20
3/4PZ12320B15		6.5	32	21.5	3/4	7.07	10.00	12.25	14.1	15.81	18.71	22.36	20
3/4PZ15320B15		6.5	32	21.5	3/4	8.84	12.50	15.31	17.7	19.76	23.39	27.95	20
3/4PZ19620B15		6.5	32	21.5	3/4	11.31	16.00	19.60	22.6	25.30	29.93	35.78	20
3/4PZ24520B15		6.5	32	21.5	3/4	14.14	20.00	24.49	28.3	31.62	37.42	44.72	20
3/4PZ30620B15		6.5	32	21.5	3/4	17.68	25.00	30.62	35.4	39.53	46.77	55.90	20
3/4PZ49020B15		6.5	32	21.5	3/4	28.28	40.00	48.99	56.6	63.25	74.83	89.44	20
3/4PZ77220B15		6.5	32	21.5	3/4	44.55	63.00	77.16	89.1	99.61	117.86	140.87	20
3/4PZ7730B15		6.5	32	21.5	3/4	4.45	6.30	7.72	8.9	9.96	11.79	14.09	30
3/4PZ9830B15		6.5	32	21.5	3/4	5.66	8.00	9.80	11.3	12.65	14.97	17.89	30
3/4PZ12330B15		6.5	32	21.5	3/4	7.07	10.00	12.25	14.1	15.81	18.71	22.36	30
3/4PZ15330B15		6.5	32	21.5	3/4	8.84	12.50	15.31	17.7	19.76	23.39	27.95	30
3/4PZ19630B15		6.5	32	21.5	3/4	11.31	16.00	19.60	22.6	25.30	29.93	35.78	30
3/4PZ24530B15		6.5	32	21.5	3/4	14.14	20.00	24.49	28.3	31.62	37.42	44.72	30
3/4PZ30630B15		6.5	32	21.5	3/4	17.68	25.00	30.62	35.4	39.53	46.77	55.90	30
3/4PZ49030B15		6.5	32	21.5	3/4	28.28	40.00	48.99	56.6	63.25	74.83	89.44	30
3/4PZ77230B15		6.5	32	21.5	3/4	44.55	63.00	77.16	89.1	99.61	117.86	140.87	30
3/4PZ7745B15		6.5	32	21.5	3/4	4.45	6.30	7.72	8.9	9.96	11.79	14.09	45
3/4PZ9845B15		6.5	32	21.5	3/4	5.66	8.00	9.80	11.3	12.65	14.97	17.89	45
3/4PZ12345B15		6.5	32	21.5	3/4	7.07	10.00	12.25	14.1	15.81	18.71	22.36	45
3/4PZ15345B15		6.5	32	21.5	3/4	8.84	12.50	15.31	17.7	19.76	23.39	27.95	45
3/4PZ19645B15		6.5	32	21.5	3/4	11.31	16.00	19.60	22.6	25.30	29.93	35.78	45
3/4PZ24545B15		6.5	32	21.5	3/4	14.14	20.00	24.49	28.3	31.62	37.42	44.72	45
3/4PZ30645B15		6.5	32	21.5	3/4	17.68	25.00	30.62	35.4	39.53	46.77	55.90	45
3/4PZ34345B15		6.5	32	21.5	3/4	19.80	28.00	34.29	39.6	44.27	52.38	62.61	45
3/4PZ41045B15		6.5	32	21.5	3/4	23.69	33.50	41.03	47.4	52.97	62.67	74.91	45
3/4PZ49045B15		6.5	32	21.5	3/4	28.28	40.00	48.99	56.6	63.25	74.83	89.44	45
3/4PZ77245B15		6.5	32	21.5	3/4	44.55	63.00	77.16	89.1	99.61	117.86	140.87	45
3/4PZ7760B15		6.5	32	21.5	3/4	4.45	6.30	7.72	8.9	9.96	11.79	14.09	60

PZ 系列喷嘴

flat nozzle

扁平形喷嘴

产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)
		A	B	L	Rp	0.1	0.2	0.3	0.4	0.5	0.7	1.0	
3/4PZ9860B15	HPb59-1 1Cr18Ni9Ti	6.5	32	21.5	3/4	5.66	8.00	9.80	11.3	12.65	14.97	17.89	60
3/4PZ12360B15		6.5	32	21.5	3/4	7.07	10.00	12.25	14.1	15.81	18.71	22.36	60
3/4PZ15360B15		6.5	32	21.5	3/4	8.84	12.50	15.31	17.7	19.76	23.39	27.95	60
3/4PZ19660B15		6.5	32	21.5	3/4	11.31	16.00	19.60	22.6	25.30	29.93	35.78	60
3/4PZ24560B15		6.5	32	21.5	3/4	14.14	20.00	24.49	28.3	31.62	37.42	44.72	60
3/4PZ30660B15		6.5	32	21.5	3/4	17.68	25.00	30.62	35.4	39.53	46.77	55.90	60
3/4PZ49060B15		6.5	32	21.5	3/4	28.28	40.00	48.99	56.6	63.25	74.83	89.44	60
3/4PZ61260B15		6.5	32	21.5	3/4	35.36	50.00	61.24	70.7	79.06	93.54	111.80	60
3/4PZ77260B15		6.5	32	21.5	3/4	44.55	63.00	77.16	89.1	99.61	117.86	140.87	60
3/4PZ7790B15		6.5	32	21.5	3/4	4.45	6.30	7.72	8.9	9.96	11.79	14.08	90
3/4PZ9890B15		6.5	32	21.5	3/4	5.66	8.00	9.80	11.3	12.65	14.97	17.88	90
3/4PZ12390B15		6.5	32	21.5	3/4	7.07	10.00	12.25	14.1	15.81	18.71	22.36	90
3/4PZ15390B15		6.5	32	21.5	3/4	8.84	12.50	15.31	17.7	19.76	23.39	27.95	90
3/4PZ19690B15		6.5	32	21.5	3/4	11.31	16.00	19.60	22.6	25.30	29.93	35.77	90
3/4PZ24590B15		6.5	32	21.5	3/4	14.14	20.00	24.49	28.3	31.62	37.42	44.7	90
3/4PZ30690B15		6.5	32	21.5	3/4	17.68	25.00	30.62	35.4	39.53	46.77	55.9	90
3/4PZ49090B15		6.5	32	21.5	3/4	28.28	40.00	48.99	56.6	63.25	74.83	89.4	90
3/4PZ77290B15		6.5	32	21.5	3/4	44.55	63.00	77.16	89.1	99.61	117.86	140.87	90
3/4PZ77120B15		6.5	32	21.5	3/4	4.45	6.30	7.72	8.9	9.96	11.79	14.08	120
3/4PZ98120B15		6.5	32	21.5	3/4	5.66	8.00	9.80	11.3	12.65	14.97	17.88	120
3/4PZ123120B15		6.5	32	21.5	3/4	7.07	10.00	12.25	14.1	15.81	18.71	22.36	120
3/4PZ153120B15		6.5	32	21.5	3/4	8.84	12.50	15.31	17.7	19.76	23.39	27.95	120
3/4PZ196120B15		6.5	32	21.5	3/4	11.31	16.00	19.60	22.6	25.30	29.93	35.77	120
3/4PZ245120B15		6.5	32	21.5	3/4	14.14	20.00	24.49	28.3	31.62	37.42	44.7	120
3/4PZ306120B15		6.5	32	21.5	3/4	17.68	25.00	30.62	35.4	39.53	46.77	55.9	120
3/4PZ490120B15		6.5	32	21.5	3/4	28.28	40.00	48.99	56.6	63.25	74.83	89.4	120
3/4PZ772120B15		6.5	32	21.5	3/4	44.55	63.00	77.16	89.1	99.61	117.86	140.87	120
3/4PZ7720B15		6.5	32	21.5	3/4	4.5	6.3	7.7	8.9	10	11.8	14	20
3/4PZ15360B15		6.5	32	21.5	3/4	8.8	12.5	15.3	17.7	19.8	23.4	27.9	60
3/4PZ15390B15		6.5	32	21.5	3/4	8.8	12.5	15.3	17.7	19.8	23.4	27.9	90
3/4PZ123120B15		6.5	32	21.5	3/4	7.1	10	12.3	14.1	15.8	18.8	22.5	120
3/4PZ98120B15		6.5	32	21.5	3/4	5.7	8	9.8	11.3	12.7	15.0	17.9	120
3/4PZ306120B15		6.5	32	21.5	3/4	17.7	25	30.6	35.4	39.5	46.8	55.9	120
3/4PZ245120B15		6.5	32	21.5	3/4	14.2	20	24.5	28.3	31.6	37.4	44.7	120
3/4PZ490120B15		6.5	32	21.5	3/4	28.3	40	49.0	56.6	63.3	74.8	89.5	120
3/4PZ196120B15		6.5	32	21.5	3/4	11.3	16	19.6	22.6	25.3	29.9	35.8	120



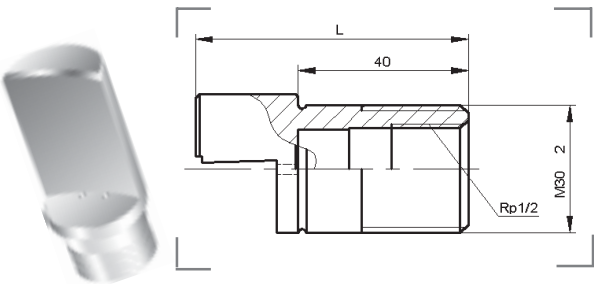
PZ 系列喷嘴

喷雾特性及用途:

该喷嘴结构新颖, 喷雾形状为双孔半圆弧扁平状; 该产品主要适用于板坯连铸机以及特钢连铸机的内侧铸坯导轨的喷淋冷却。

Spray Feature and Application:

The nozzle is novel in structure. The spraying is in the shape of flat half round arc with double-hole. The product is mainly used for the spray cooling in slab continuous casting and spray cooling of inside guide rail in special steel continuous casting machine.



产品型号 Model	材 质 Material	L	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)						
			0.1	0.2	0.3	0.4	0.5	0.7	1.0
PZ9700B16A1	HPb59-1	95	5.6	7.9	9.7	11.2	12.5	14.8	17.7
PZ9700B16A2	1Cr18Ni8Ti	64							

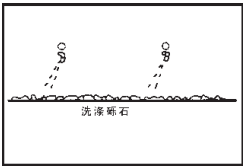
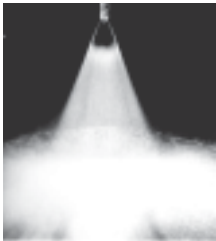
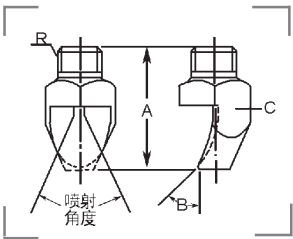
弧 状 扁 平 形 喷 嘴 flat of arc nozzle

喷雾特性及用途:

该喷嘴的喷雾形状为弧状扁平形, 是具有高动力的窄角扇形喷嘴, 整个喷雾区域分布均匀, 且嘴体不易堵塞; 主要应用于清洗、除油污及造纸机构中“稳纸框”的喷雾。

Spray Feature and Application:

The Spraying pattern of the nozzle is in the shape of flat arc. The spray is marked with narrow angle and large impact. The spraying is distributed evenly in the whole spray area, and the nozzle aperture is not easily blocked up. It is mainly used for cleaning grease and the spray of "deckle" in paper-making machinery.



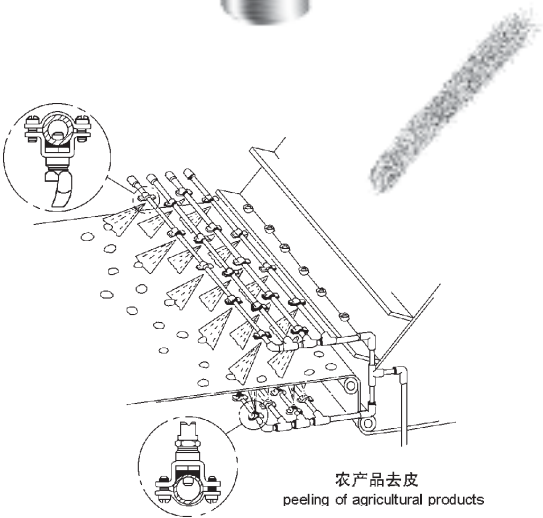
可供附件 Accessories available



拼合孔连接器
Connector for split hole



可调球形接头
Adjustable globular connector



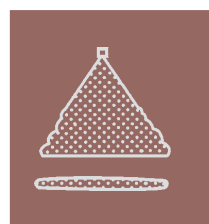
农产品去皮
peeling of agricultural products

PZ 系列喷嘴

flat of arc nozzle

弧状扁平形喷嘴

产 品 型 号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)		
		A	B	L	R	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.1	0.3	0.5
1/4PZ3950B17	H62 HPb59-1 1Cr18Ni9Ti	31	60°	15.9	1/4	2.3	3.2	3.9	4.6	5.1	6.0	7.2	34	50	60
1/4PZ9950B17		41.5	42°	19.1	1/4	5.7	8.1	9.9	11.4	12.7	15.1	18.0	42	50	59
1/4PZ15850B17		47	45°	19.1	1/4	9.1	12.9	15.8	18.2	20	24	29	39	50	60
3/8PZ24050B17		55	37°	25.4	3/8	13.7	19.3	24	27	31	36	43	42	50	53
3/8PZ39050B17		72	40°	31.8	3/8	23	32	39	46	51	60	72	43	50	55
3/8PZ49050B17		72	38°	31.8	3/8	28	40	49	57	64	75	90	38	50	59
3/8PZ63050B17		72	37°	31.8	3/8	36	52	63	73	82	96	115	44	50	55
3/8PZ79050B17		72	32°	31.8	3/8	46	64	79	91	102	121	144	46	50	53
3/8PZ15840B17		60.5	35°	22.2	3/8	9.1	12.9	15.8	18.2	20	24	29	31	40	50
3/8PZ19740B17		63.5	33°	25.4	3/8	11.4	16.1	19.7	23	25	30	36	31	40	49
3/8PZ24040B17		72	33°	25.4	3/8	13.7	19.3	24	27	31	36	43	32	40	49
3/8PZ28040B17		75.5	29°	25.4	3/8	16.0	23	28	32	36	42	50	32	40	49
3/8PZ32040B17		77	26°	25.4	3/8	18.2	26	32	36	41	48	58	32	40	48
3/8PZ36040B17		77	28°	25.4	3/8	21	29	36	41	46	54	65	34	40	44
3/8PZ39040B17		86.5	28°	25.4	3/8	23	32	39	46	51	60	72	35	40	44
1/8PZ1635B17		23	40°	11.1	1/8	0.91	1.3	1.6	1.8	2.0	2.4	2.9	20	35	41
1/4PZ3935B17		36.5	36°	15.9	1/4	2.3	3.2	3.9	4.6	5.1	6.0	7.2	18	35	39
1/4PZ7935B17		42	30°	19.1	1/4	4.6	6.4	7.9	9.1	10.2	12.1	14.4	24	35	40
3/8PZ9935B17		49	28°	19.1	3/8	5.7	8.1	9.9	11.4	12.7	15.1	18.0	24	35	39
3/8PZ11835B17		52.5	28°	19.1	3/8	6.8	9.7	11.8	13.7	15.3	18.1	22	26	35	41
3/8PZ15835B17		58	26°	22.2	3/8	9.1	12.9	15.8	18.2	20	24	29	28	35	38
3/8PZ19735B17		63.5	23°	22.2	3/8	11.4	16.1	19.7	23	25	30	36	31	35	38
1/2PZ24035B17		73	27°	25.4	1/2	13.7	19.3	24	27	31	36	43	29	35	39
1/2PZ32035B17		81	24°	25.4	1/2	18.2	26	32	36	41	48	58	26	35	40
1/2PZ39035B17		89	19°	25.4	1/2	23	32	39	46	51	60	72	26	35	40
3/4PZ63035B17		114	23°	31.8	3/4	36	52	63	73	82	96	115	26	35	40
3/4PZ79035B17		122	22°	31.8	3/4	46	64	79	91	102	121	144	25	35	40
1/4PZ15825B17		65	25°	19.1	1/4	9.1	12.9	15.8	18.2	20	24	29	15	25	34
1/4PZ3915B17		47.5	22°	15.9	1/4	2.3	3.2	3.9	4.6	5.1	6.0	72	6	15	23
1/4PZ7915B17		54	19°	15.9	1/4	4.6	6.4	7.9	9.1	10.2	12.1	14.4	6	15	19
3/8PZ11815B17		72	25°	19.1	3/8	6.8	9.7	11.8	13.7	15.3	18.1	22	6	15	24
3/8PZ15815B17		92	18°	22.2	3/8	9.1	12.9	15.8	18.2	20	24	29	8	15	21
3/8PZ19715B17		90.5	15°	22.2	3/8	11.4	16.1	19.7	23	25	30	36	9	15	20
1/2PZ24015B17		125	14°	25.4	1/2	13.7	19.3	24	27	31	36	43	10	15	19
1/2PZ32015B17		130	14°	25.4	1/2	18.2	26	32	36	41	48	58	11	15	18
1/2PZ39015B17		137	14°	25.4	1/2	23	32	39	46	51	60	72	11	15	18
3/4PZ79015B17		191	14°	31.8	3/4	46	64	79	91	102	121	144	12	15	18

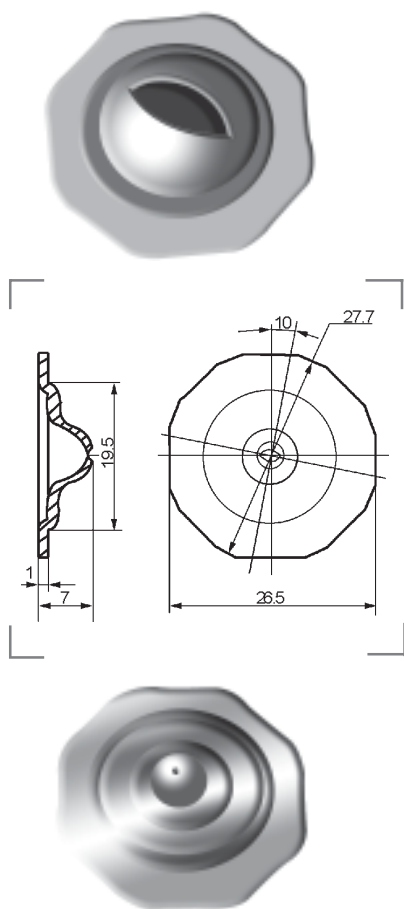


喷雾特性及用途:

该喷嘴利用不锈钢板料,采用冲压成形的先进加工工艺制作而成,结构简单,安装方便且各喷嘴具有良好的重现性,与同类型喷嘴相比,具有更高的冲击力,主要应用于造纸行业中成形网内、外网辊上粘物的清洗,也可用于其它冷却清洗的设备中。

Spray Feature and Application:

This nozzle is made of stainless steel plate. The advanced drawing processing technique is adopted. The structure is simple and installation easy. The nozzles are of good reproduction quality. Compared with the same type nozzles, it is with high impact and mainly used in paper making industry to wash the inner and outer net rollers of the paper-shaping net. It can also be used in other cooling and washing equipment.



产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)					喷射角(°) Spray angle (degree)
	0.15	0.3	0.7	2.0	5.5	0.4
PZ0200B18	0.11	0.16	0.24	0.41	0.68	0
PZ0300B18	0.20	0.28	0.42	0.71	1.2	0
PZ0400B18	0.25	0.36	0.54	0.92	1.5	0
PZ0500B18	0.36	0.51	0.78	1.3	2.2	0
PZ0900B18	0.64	0.91	1.4	2.3	3.9	0
PZ1300B18	0.92	1.3	2.0	3.4	5.6	0
PZ1700B18	1.2	1.7	2.6	4.4	7.3	0
PZ3100B18	2.2	3.1	4.8	8.1	13.4	0
PZ4900B18	3.5	4.9	7.5	12.6	21	0
PZ7800B18	5.5	7.8	11.9	20	33	0
PZ0930B18	0.64	0.91	1.4	2.3	3.9	30
PZ1330B18	0.92	1.3	2.0	3.4	5.6	30
PZ1730B18	1.2	1.7	2.6	4.4	7.3	30
PZ2430B18	1.7	2.4	3.7	6.2	10.3	30
PZ3130B18	2.2	3.1	4.8	8.1	13.4	30
PZ4030B18	2.8	4.0	6.2	10.4	17.2	30
PZ4930B18	3.5	4.9	7.5	12.6	21	30
PZ6330B18	4.5	6.3	9.7	16.4	27	30
PZ7830B18	5.5	7.8	11.9	20	33	30
PZ10130B18	7.2	10.1	15.5	26	43	30
PZ12430B18	8.8	12.4	18.9	32	53	30
PZ15930B18	11.3	15.9	24	41	68	30
PZ19430B18	13.7	19.4	30	50	83	30
PZ31030B18	22	31	48	81	133	30
PZ39030B18	28	39	60	101	167	30
PZ49030B18	35	49	75	126	210	30
PZ0960B18	0.64	0.91	1.4	2.3	3.9	60
PZ1360B18	0.92	1.3	2.0	3.4	5.6	60
PZ1760B18	1.2	1.7	2.6	4.4	7.3	60
PZ2460B18	1.7	2.4	3.7	6.2	10.3	60
PZ3160B18	2.2	3.1	4.8	8.1	13.4	60
PZ4060B18	2.8	4.0	6.2	10.4	17.2	60
PZ4960B18	3.5	4.9	7.5	12.6	21	60
PZ6360B18	4.5	6.3	9.7	16.4	27	60
PZ7860B18	5.5	7.8	11.9	20	33	60
PZ10160B18	7.2	10.1	15.5	26	43	60
PZ12460B18	8.8	12.4	18.9	32	53	60
PZ15960B18	11.3	15.9	24	41	68	60
PZ19460B18	13.7	19.4	30	50	83	60
PZ31060B18	22	31	47	80	133	60
PZ39060B18	28	39	60	101	167	60
PZ49060B18	35	49	75	126	210	60

PZ 系列喷嘴

Self-cleaning nozzle

自清洗喷嘴

喷雾特性及用途:

该形式喷嘴具有结构新颖, 安装方便等特点, 其喷雾形状有扁平状和针状射流两种, 自清洗可以省力又有效地保持喷射性能, 降低管路压力使清洗活塞缩进, 可以达到清洗掉堵塞在喷嘴内部的杂质, 该产品主要应用于纺织、造纸行业中, 也可应用于其它行业喷射管路中含有杂质的设备中。

Spray Feature and Application:

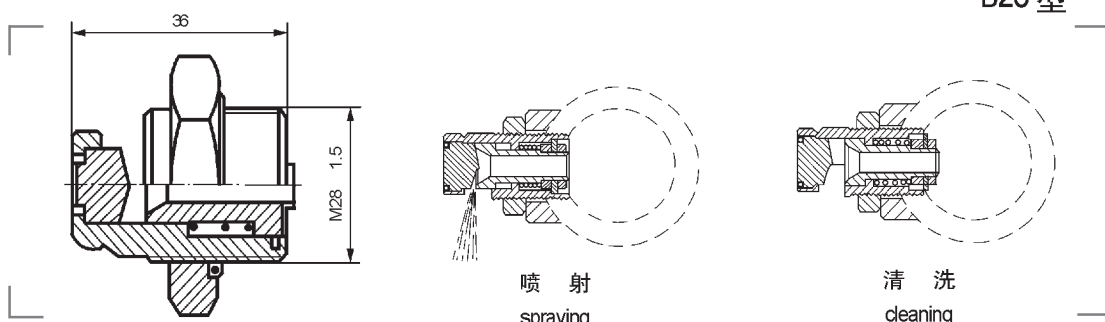
This type of nozzles is new in structure and easy to install. The spray patterns are in flat shape and needle jet streams. The self cleaning function maintains the jet performance effectively. The impurities jammed in the nozzle can be washed away by reducing the pipeline pressure to make the washing piston retract. This product is mainly used in weaving and paper making industries. It can be used in the equipment with impurities in the jet pipeline in other industries as well.



B19 型



B20 型



产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)														喷射角(°) Spray angle (degree)
	0.15	0.2	0.25	0.3	0.35	0.4	0.45	0.5	0.6	0.7	0.8	1.0	1.5	2.0	
PZ2400B19	1.7	1.9	2.2	2.4	2.6	2.7	2.9	3.1	3.3	3.6	3.9	4.3	5.3	6.1	0
PZ3200B19	2.2	2.6	2.9	3.2	3.4	3.6	3.9	4.1	4.5	4.8	5.2	5.8	7.1	8.2	0
PZ3900B19	2.8	3.2	3.6	3.9	4.3	4.6	4.8	5.1	5.6	6.0	6.4	7.2	8.8	10.2	0
PZ2415B19	1.7	1.9	2.2	2.4	2.6	2.7	2.9	3.1	3.3	3.6	3.9	4.3	5.3	6.1	15
PZ2030B19	1.4	1.6	1.8	2.0	2.1	2.3	2.4	2.5	2.8	3.0	3.2	3.6	4.4	5.1	30
PZ5530B19	3.9	4.5	5.0	5.5	6.0	6.4	6.8	7.1	7.8	8.4	9.0	10.1	12.4	14.3	30
PZ4740B19	3.3	3.9	4.3	4.7	5.1	5.5	5.8	6.1	6.7	7.2	7.7	8.6	10.6	12.2	40
PZ5540B19	3.9	4.5	5.0	5.5	6.0	6.4	6.8	7.1	7.8	8.4	9.0	10.1	12.4	14.3	40
PZ12640B19	8.9	10.3	11.5	12.6	13.6	14.6	15.5	16.3	17.9	19.3	21	23	28	33	40
PZ6345B19	4.5	5.2	5.8	6.3	6.8	7.3	7.7	8.2	8.9	9.6	10.3	11.5	14.1	16.3	45
PZ9945B19	7.0	8.1	9.0	9.9	10.7	11.4	12.1	12.7	14.0	15.1	16.1	18.0	22	25	45
PZ12650B19	8.9	10.3	11.5	12.6	13.6	14.5	15.5	16.3	17.9	19.3	21	23	28	33	50
PZ6360B19	4.5	5.2	5.8	6.3	6.8	7.3	7.7	8.2	8.9	9.6	10.3	11.5	14.1	16.3	60
PZ15060B19	10.6	12.2	13.7	15.0	16.2	17.3	18.4	19.4	21	23	24	27	34	39	60
PZ4380B19	3.1	3.5	4.0	4.3	4.7	5.0	5.3	5.6	6.1	6.6	7.1	7.9	9.7	11.2	80
PZ11880B19	8.4	9.7	10.8	11.8	12.8	13.7	14.5	15.3	16.7	18.1	19.3	22	26	31	80
PZ18280B19	12.8	14.8	16.6	18.2	19.6	21	22	23	26	28	30	33	41	47	80
PZ43100B19	3.1	3.5	4.0	4.3	4.7	5.0	5.3	5.6	6.1	6.6	7.1	7.9	9.7	11.2	100
PZ32120B19	2.2	2.6	2.9	3.2	3.4	3.6	3.9	4.1	4.5	4.8	5.2	5.8	7.1	8.2	120
PZ63130B19	4.5	5.2	5.8	6.3	6.8	7.3	7.7	8.2	8.9	9.6	10.3	11.5	14.1	16.3	130

注: 喷嘴的连接螺纹、材质、性能参数可根据用户要求给定。

Note: The connecting thread, material and performance parameters of the nozzles can be determined subject to the users' requirements.

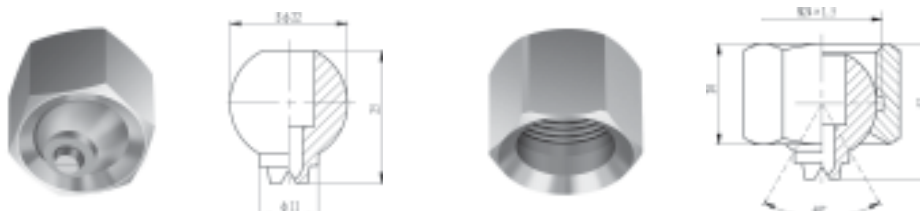
PZ 系列喷嘴

喷雾特性及用途:

该喷嘴设计独特, 喷射方向可根据需要调整, 安装更换方便, 主要用于冷却、清洗、润滑。

Spray Feature and Application:

The nozzle is unique in design. The spaying direction can be adjusted subject to requirements. The nozzle can be conveniently installed and replaced, and is mainly used in cooling, cleaning and lubrication.



产品型号 Model	材质 Material	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)
		0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.3
PZ2030B21	HPb59-1 1Cr18Ni9Ti	1.13	1.6	1.96	2.26	2.53	2.96	3.58	30
PZ3130B21		1.77	2.5	3.06	3.53	3.95	4.63	5.59	
PZ4930B21		2.83	4.0	4.9	5.65	6.33	7.41	8.94	
PZ7730B21		4.46	6.3	7.72	8.91	9.96	11.6	14.09	
PZ12330B21		7.07	10.0	12.25	14.1	15.81	18.5	22.36	
PZ2045B21		1.13	1.6	1.96	2.26	2.53	2.96	3.58	45
PZ3145B21		1.77	2.5	3.06	3.53	3.95	4.63	5.59	
PZ4945B21		2.83	4.0	4.9	5.65	6.33	7.41	8.94	
PZ7745B21		4.46	6.3	7.72	8.91	9.96	11.6	14.09	
PZ12345B21		7.07	10.0	12.25	14.1	15.81	18.5	22.36	
PZ0460B21		0.23	0.32	0.39	0.45	0.51	0.59	0.72	60
PZ0660B21		0.32	0.45	0.55	0.63	0.71	0.83	1.01	
PZ0860B21		0.44	0.63	0.77	0.89	1.0	1.16	1.4	
PZ1260B21		0.71	1.0	1.23	1.42	1.58	1.86	2.24	
PZ2060B21		1.13	1.6	1.96	2.26	2.53	2.96	3.58	
PZ3160B21		1.77	2.5	3.06	3.53	3.95	4.63	5.59	90
PZ4960B21		2.83	4.0	4.9	5.65	6.33	7.41	8.94	
PZ7760B21		4.46	6.3	7.72	8.91	9.96	11.6	14.09	
PZ0490B21		0.23	0.32	0.39	0.45	0.51	0.59	0.72	
PZ0690B21		0.32	0.45	0.55	0.63	0.71	0.83	1.01	
PZ0890B21		0.44	0.63	0.77	0.89	1.0	1.16	1.4	
PZ1290B21		0.71	1.0	1.23	1.42	1.58	1.86	2.24	120
PZ2090B21		1.13	1.6	1.96	2.26	2.53	2.96	3.58	
PZ3190B21		1.77	2.5	3.06	3.53	3.95	4.63	5.59	
PZ4990B21		2.83	4.0	4.9	5.65	6.33	7.41	8.94	
PZ7790B21		4.46	6.3	7.72	8.91	9.96	11.6	14.09	
PZ04120B21		0.23	0.32	0.39	0.45	0.51	0.59	0.72	120
PZ06120B21		0.32	0.45	0.55	0.63	0.71	0.83	1.01	
PZ08120B21		0.44	0.63	0.77	0.89	1.0	1.16	1.4	
PZ12120B21		0.71	1.0	1.23	1.42	1.58	1.86	2.24	
PZ20120B21		1.13	1.6	1.96	2.26	2.53	2.96	3.58	
PZ31120B21		1.77	2.5	3.06	3.53	3.95	4.63	5.59	120
PZ49120B21		2.83	4.0	4.9	5.65	6.33	7.41	8.94	
PZ77120B21		4.46	6.3	7.72	8.91	9.96	11.6	14.09	

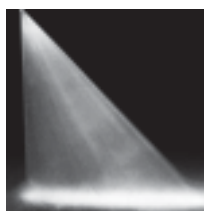
PZ 系列喷嘴

喷雾特性及用途:

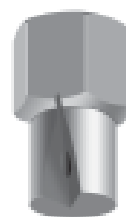
该喷嘴设计新颖，喷射角自中心向一边偏斜呈扇形，喷雾分布均匀，适用于有特殊要求的场合。

Spray Feature and Application:

The nozzle is novel in design. The spraying angle is in a fan shape from the center to one side with the sprayed substance in even distribution. It is fit for use in circumstances where there are special requirements.



B22 型

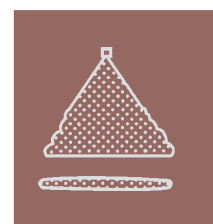


B23 型



连接螺纹 Connecting thread		外形尺寸 Outline size			材 质 Material
类型 Type	尺寸 Size	L	S	S1	
R	1/4	25	14	17	HPb59-1 1Cr18Ni9Ti
	3/8	32	17	21	
Rc	1/2	38	22	25	
	3/4	50	27	31	

产 品 型 号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle(degree)
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	
1/4PZ4040B22	2.3	3.3	4.0	4.6	5.2	6.1	7.3	40
1/4PZ4065B22	2.3	3.3	4.0	4.6	5.2	6.1	7.3	65
1/4PZ6040B22	3.5	4.9	6.0	6.9	7.8	9.2	11.0	40
1/4PZ6065B22	3.5	4.9	6.0	6.9	7.8	9.2	11.0	65
1/4PZ8040B22	4.6	6.5	8.0	9.2	10.3	12.2	14.6	40
1/4PZ8065B22	4.6	6.5	8.0	9.2	10.3	12.2	14.6	65
3/8PZ10040B22	5.8	8.2	10.0	11.5	12.9	15.3	18.3	40
3/8PZ10065B22	5.8	8.2	10.0	11.5	12.9	15.3	18.3	65
3/8PZ15040B22	8.7	12.2	15.0	17.3	19.4	22.9	27.4	40
3/8PZ15065B22	8.7	12.2	15.0	17.3	19.4	22.9	27.4	65
3/8PZ20040B22	11.5	16.3	20.0	23.1	25.8	30.6	36.5	40
3/8PZ20065B22	11.5	16.3	20.0	23.1	25.8	30.6	36.5	65
3/8PZ25040B22	14.4	20.4	25.0	28.9	32.3	38.2	45.6	40
3/8PZ25065B22	14.4	20.4	25.0	28.9	32.3	38.2	45.6	65
1/2PZ30040B22	17.3	24.5	30.0	34.6	38.7	45.8	54.8	40
1/2PZ30065B22	17.3	24.5	30.0	34.6	38.7	45.8	54.8	65
1/2PZ40040B22	23.1	32.7	40.0	46.2	51.6	61.6	73.0	40
1/2PZ40065B22	23.1	32.7	40.0	46.2	51.6	61.6	73.0	65
3/4PZ50040B22	28.9	40.8	50.0	57.7	64.5	76.4	91.3	40
3/4PZ50065B22	28.9	40.8	50.0	57.7	64.5	76.4	91.3	65
3/4PZ60040B22	34.6	49.0	60.0	69.3	77.5	91.7	110	40
3/4PZ60065B22	34.6	49.0	60.0	69.3	77.5	91.7	110	65
3/4PZ75040B22	43.3	61.2	75.0	86.6	96.8	115	137	40
3/4PZ75065B22	43.3	61.2	75.0	86.6	96.8	115	137	65



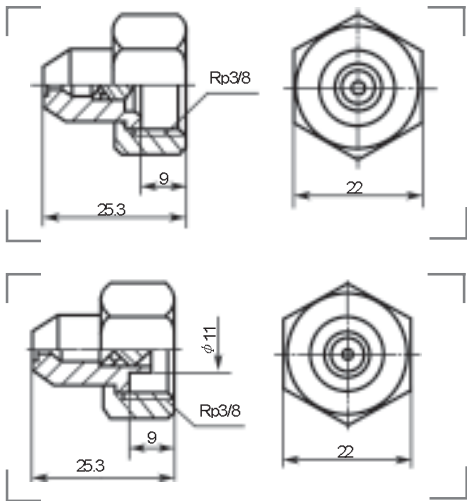
PZ series nozzle

喷雾特性及用途:

该喷嘴结构新颖，雾化均匀，其结构形式为固定旋流芯式，性能稳定；主要适用于小方坯、圆坯连铸机的二次冷却，也可用于烧结、化工及一切需降温的设备中。

Spray Feature and Application:

The nozzle is marked with novel structure and even atomization. With structure of the stationary spinning core, the performance is stable. It is mainly suitable for the secondary cooling in continuous casting machine for square/round billet, and can be also used for agglomeration, chemical industry and the equipment where the temperature needs lowering.



产品型号 Model	材质 Material	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)		
		0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.1	0.3	0.7
3/8PZ0459QZ1	HPb59-1 1Cr18Ni9Ti	0.28	0.38	0.45	0.57	0.62	0.72	0.87	54	59	61
3/8PZ0560QZ1		0.33	0.45	0.53	0.64	0.73	0.83	1.02	54	60	62
3/8PZ0759QZ1		0.45	0.64	0.74	0.87	0.93	1.1	1.4	58	59	53
3/8PZ1450QZ1		0.91	1.29	1.4	1.74	1.83	2.1	2.6	50	50	46
3/8PZ2265QZ1		1.36	1.89	2.2	2.61	2.80	3.4	4.0	65	65	59
3/8PZ2550QZ1		1.59	2.10	2.5	3.07	3.28	3.8	4.6	50	50	46
3/8PZ3665QZ1		2.27	3.10	3.6	4.50	4.70	5.5	6.6	65	65	59
3/8PZ4950QZ1		2.95	4.20	4.90	5.70	6.05	7.5	8.9	50	50	46
3/8PZ7267QZ1		4.9	6.40	7.20	9.10	9.65	11.0	13.1	67	67	61
3/8PZ4065QZ1		2.3	3.2	4.0	4.6	5.2	6.1	7.3	65	65	59
3/8PZ7665QZ1		4.3	6.2	7.6	8.7	9.8	11.6	13.9	65	65	59
3/8PZ1550QZ1		0.91	1.26	1.49	1.7	1.9	2.3	2.7	50	50	46
3/8PZ2265QZ1		1.36	1.85	2.23	2.57	2.8	3.4	4.07	65	65	49
3/8PZ2650QZ1		1.59	2.14	2.62	3.03	3.3	4.0	4.8	50	50	46
3/8PZ3765QZ1		2.27	3.03	3.72	4.3	4.7	5.7	6.8	65	65	59
3/8PZ5150QZ1		2.95	4.07	5.08	5.87	6.4	7.8	9.27	50	50	46
3/8PZ6360QZ1		3.61	5.1	6.26	7.23	7.9	9.6	11.4	60	60	55
3/8PZ7467QZ1		4.91	6.29	7.43	8.58	9.4	11.3	13.6	70	67	61

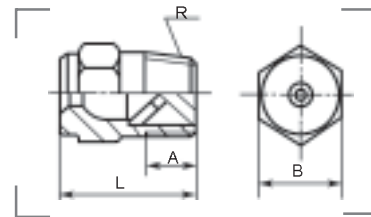
PZ series nozzle

喷雾特性及用途:

该喷嘴为固定旋流芯式，喷射形式为全锥形，分布非常均匀；可用于连铸的二次冷却以及一切需清洗的机械设备。

Spray Feature and Application:

The nozzle is in the type of stationary spinning core. Its spray pattern is in the shape of full cone; and the spray is distributed well. It can be used for the secondary cooling in continuous casting machine, solid cooling and all machinery equipment that needs cleaning.



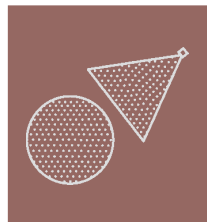
产品型号 Model	材质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)							喷射角(°) Spray angle (degree)
		A	B	L	R	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.3
1/8PZ1245QZ2	HPb59-1 1Cr18Ni9Ti	6.5	12	19.5	1/8	0.76	1	1.18	1.35	1.44	1.66	1.9	45
1/8PZ1545QZ2		6.5	12	19.5	1/8	0.95	1.25	1.47	1.65	1.8	2.06	2.38	45
1/8PZ1945QZ2		6.5	12	19.5	1/8	1.2	1.6	1.88	2.1	2.31	2.64	3.05	45
1/8PZ2145QZ2		6.5	12	19.5	1/8	1.36	1.8	2.12	2.38	2.6	2.98	3.43	45
1/8PZ2445QZ2		6.5	12	19.5	1/8	1.52	2	2.35	2.64	2.89	3.3	3.8	45
1/8PZ2945QZ2		6.5	12	19.5	1/8	1.89	2.5	2.94	3.3	3.6	4.13	4.76	45
1/4PZ3745QZ2		10	14	22	1/4	2.39	3.15	3.7	4.15	4.54	5.19	6	45
1/4PZ4745QZ2		10	14	22	1/4	3.03	4	4.7	5.27	5.77	6.6	7.6	45
1/4PZ5945QZ2		10	14	22	1/4	3.79	5	5.88	6.6	7.2	8.25	9.52	45
1/2PZ6645QZ2		13	22	32	1/2	4.24	5.6	6.59	7.39	8.08	9.25	10.66	45
1/2PZ7445QZ2		13	22	32	1/2	4.77	6.3	7.4	8.3	9.09	10.4	11.99	45
1/2PZ8445QZ2		13	22	32	1/2	5.38	7.1	8.35	9.37	10.24	11.7	13.52	45
1/2PZ9445QZ2		13	22	32	1/2	6.06	8	9.4	10.5	11.54	13.2	15.22	45
1/2PZ10645QZ2		13	22	32	1/2	6.82	9	10.58	11.9	12.98	14.8	17.12	45
1/2PZ11845QZ2		13	22	32	1/2	7.58	10	11.76	13.5	14.43	16.5	19.04	45
1/2PZ14745QZ2		13	22	32	1/2	9.47	12.5	14.7	16.5	18.03	20.6	23.8	45
1/2PZ18845QZ2		13	22	32	1/2	12.13	16	18.82	21.1	23.08	26.4	30.46	45
1/2PZ23545QZ2		13	22	32	1/2	15.16	20	23.52	26.4	28.85	33	38.07	45
1/8PZ1260QZ2		6.5	12	19.5	1/8	0.76	1	1.18	1.32	1.44	1.66	1.9	60
1/8PZ1560QZ2		6.5	12	19.5	1/8	0.95	1.25	1.47	1.65	1.8	2.06	2.38	60
1/8PZ1960QZ2		6.5	12	19.5	1/8	1.2	1.6	1.88	2.1	2.3	2.64	3.05	60
1/8PZ2160QZ2		6.5	12	19.5	1/8	1.36	1.8	2.12	2.38	2.6	2.98	3.43	60
1/8PZ2460QZ2		6.5	12	19.5	1/8	1.52	2	2.35	2.64	2.89	3.3	3.8	60
1/4PZ2960QZ2		10	14	22	1/4	1.89	2.5	2.94	3.3	3.6	4.13	4.76	60
1/4PZ3760QZ2		10	14	22	1/4	2.39	3.15	3.7	4.15	4.54	5.19	6	60
1/4PZ4760QZ2		10	14	22	1/4	3.03	4	4.7	5.27	5.77	6.6	7.6	60
1/4PZ5960QZ2		10	14	22	1/4	3.79	5	5.88	6.6	7.2	8.25	9.52	60
1/4PZ6660QZ2		10	14	22	1/4	4.24	5.6	6.59	7.39	8.08	9.25	10.66	60
1/4PZ7460QZ2		10	14	22	1/4	4.77	6.3	7.4	8.3	9.09	10.4	11.99	60

PZ series nozzle

产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)							喷射角(°) Spray angle (degree)
		A	B	L	R	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.3
3/8PZ9460QZ2	HPb59-1 1Cr18Ni9Ti	10	17	25	3/8	6.06	8	9.4	10.5	11.54	13.2	15.22	60
3/8PZ10660QZ2		10	17	25	3/8	6.82	9	10.58	11.9	12.98	14.8	17.12	60
3/8PZ11860QZ2		10	17	25	3/8	7.58	10	11.76	13.2	14.43	16.5	19.04	60
1/2PZ14760QZ2		10	22	32	1/2	9.47	12.5	14.7	16.5	18.03	20.6	23.8	60
1/2PZ18860QZ2		10	22	32	1/2	12.13	16	18.82	21.1	23.08	26.4	30.46	60
1/2PZ23560QZ2		13	22	32	1/2	15.16	20	23.52	26.4	28.85	33	38.07	60
1/8PZ1290QZ2		6.5	12	19.5	1/8	0.76	1	1.18	1.32	1.44	1.66	1.9	90
1/8PZ1590QZ2		6.5	12	19.5	1/8	0.95	1.25	1.47	1.65	1.8	2.06	2.38	90
1/8PZ1990QZ2		6.5	12	19.5	1/8	1.2	1.6	1.88	2.1	2.3	2.64	3.05	90
1/8PZ2190QZ2		6.5	12	19.5	1/8	1.36	1.8	2.12	2.38	2.6	2.98	3.43	90
1/8PZ2490QZ2		6.5	12	19.5	1/8	1.52	2	2.35	2.64	2.89	3.3	3.8	90
1/8PZ2990QZ2		6.5	12	19.5	1/8	1.89	2.5	2.94	3.3	3.6	4.13	4.76	90
1/8PZ3790QZ2		6.5	12	19.5	1/8	2.39	3.15	3.7	4.15	4.54	5.19	6	90
1/4PZ4790QZ2		10	14	35	1/4	3.03	4	4.7	5.27	5.77	6.6	7.6	90
1/4PZ5990QZ2		10	14	22	1/4	3.79	5	5.88	6.6	7.2	8.25	9.52	90
1/4PZ6690QZ2		10	14	22	1/4	4.24	5.6	6.59	7.39	8.08	9.25	10.66	90
1/4PZ7490QZ2		10	14	22	1/4	4.77	6.3	7.4	8.3	9.09	10.74	11.99	90
1/4PZ8490QZ2		10	14	22	1/4	5.38	7.1	8.35	9.37	10.24	11.7	13.52	90
3/8PZ9490QZ2		10	17	25	3/8	6.06	8	9.4	10.5	11.54	13.2	15.22	90
3/8PZ10690QZ2		10	17	25	3/8	6.82	9	10.58	11.9	12.98	14.8	17.12	90
3/8PZ11890QZ2		10	17	25	3/8	7.58	10	11.76	13.2	14.43	16.5	19.04	90
3/8PZ14790QZ2		10	17	25	3/8	9.47	12.5	14.7	16.5	18.03	20.6	23.8	90
3/8PZ16590QZ2		10	17	25	3/8	10.6	14	16.47	18.85	20.2	23.1	26.65	90
1/2PZ18890QZ2		13	22	32	1/2	12.13	16	18.82	21.1	23.08	26.4	30.46	90
1/2PZ23590QZ2		13	22	32	1/2	15.16	20	23.52	26.4	28.85	33	38.07	90
1/2PZ29490QZ2		13	22	32	1/2	18.95	25	29.4	33	36.07	41.3	47.59	90
1/2PZ37190QZ2		13	22	32	1/2	23.87	31.50	37.05	41.6	45.54	52	59.97	90
1/8PZ12120QZ2		6.5	12	19.5	1/8	0.76	1	1.18	1.32	1.44	1.66	1.9	120
1/8PZ15120QZ2		6.5	12	19.5	1/8	0.95	1.25	1.47	1.65	1.8	2.06	2.38	120
1/8PZ19120QZ2		6.5	12	19.5	1/8	1.2	1.6	1.88	2.1	2.3	2.64	3.05	120
1/8PZ21120QZ2		6.5	12	19.5	1/8	1.36	1.8	2.12	2.38	2.6	2.98	3.43	120
1/8PZ24120QZ2		6.5	12	19.5	1/8	1.52	2	2.35	2.64	2.89	3.3	3.8	120
1/8PZ29120QZ2		6.5	12	19.5	1/8	1.89	2.5	2.94	3.3	3.6	4.13	4.76	120
1/8PZ37120QZ2		6.5	12	19.5	1/8	2.39	3.15	3.7	4.15	4.54	5.19	6	120
1/4PZ47120QZ2		10	14	22	1/4	3.03	4	4.7	5.27	5.77	6.6	7.6	120
1/4PZ59120QZ2		10	14	22	1/4	3.79	5	5.88	6.6	7.2	8.25	9.52	120

PZ series nozzle

产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)							喷射角(°) Spray angle (degree)
		A	B	L	R	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.3
1/4PZ66120QZ2	HPb59-1 1Cr18Ni9Ti	10	14	22	1/4	4.24	5.6	6.59	7.39	8.08	9.25	10.66	120
1/4PZ74120QZ2		10	14	22	1/4	4.77	6.3	7.4	8.3	9.09	10.4	11.99	120
1/4PZ84120QZ2		10	14	22	1/4	5.38	7.1	8.35	9.37	10.24	11.7	13.52	120
1/4PZ94120QZ2		10	14	22	1/4	6.06	8	9.4	10.5	11.54	13.2	15.22	120
1/4PZ100120QZ2		10	14	22	1/4	6.44	8.5	10	11.2	12.26	14	16.18	120
3/8PZ106120QZ2		10	17	25	3/8	6.82	9	10.58	11.9	12.98	14.8	17.12	120
3/8PZ118120QZ2		10	17	25	3/8	7.58	10	11.76	13.2	14.43	16.5	19.04	120
3/8PZ147120QZ2		10	17	25	3/8	9.47	12.5	14.7	16.5	18.03	20.6	23.8	120
3/8PZ165120QZ2		10	17	25	3/8	10.6	14	16.47	18.5	20.2	23.1	26.65	120
1/2PZ188120QZ2		13	22	32	1/2	12.13	16	18.82	21.1	23.08	26.4	30.46	120
1/2PZ235120QZ2		13	22	32	1/2	15.16	20	23.52	26.4	28.85	33	38.07	120
1/2PZ294120QZ2		13	22	32	1/2	18.95	25	29.4	33	36.07	41.3	47.59	120
1/2PZ371120QZ2		13	22	32	1/2	23.87	31.5	37.05	41.6	45.45	52	59.97	120
3/8PZ1260QZ2		10	17	24.5	3/8	0.76	1	1.18	1.32	1.44	1.66	1.9	60
3/8PZ1560QZ2		10	17	24.5	3/8	0.95	1.25	1.47	1.65	1.80	2.06	2.38	60
3/8PZ1960QZ2		10	17	24.5	3/8	1.21	1.60	1.88	2.1	2.31	2.64	3.05	60
3/8PZ2160QZ2		10	17	24.5	3/8	1.36	1.80	2.12	2.38	2.60	2.98	3.43	60
3/8PZ2460QZ2		10	17	24.5	3/8	1.52	2.00	2.35	2.64	2.89	3.3	3.8	60
3/8PZ2960QZ2		10	17	24.5	3/8	1.89	2.50	2.94	3.3	3.61	4.13	4.76	60
3/8PZ3760QZ2		10	17	24.5	3/8	2.39	3.15	3.70	4.15	4.54	5.19	6	60
3/8PZ4760QZ2		10	17	24.5	3/8	3.03	4.00	4.70	5.27	5.77	6.6	7.6	60
3/8PZ5960QZ2		10	17	24.5	3/8	3.79	5.00	5.88	6.6	7.21	8.25	9.52	60
3/8PZ6660QZ2		10	17	24.5	3/8	4.24	5.60	6.59	7.39	8.08	9.25	10.66	60
3/8PZ7460QZ2		10	17	24.5	3/8	4.77	6.30	7.41	8.3	9.09	10.4	11.99	60
3/8PZ9460QZ2		10	17	24.5	3/8	6.06	8.00	9.41	10.5	11.54	13.2	15.22	60
3/8PZ10660QZ2		10	17	24.5	3/8	6.82	9.00	10.58	11.9	12.98	14.8	17.12	60
3/8PZ11860QZ2		10	17	24.5	3/8	7.58	10.00	11.76	13.2	14.43	16.5	19.04	60
3/8PZ1290QZ2		10	17	24.5	3/8	0.76	1	1.18	1.32	1.44	1.66	1.9	90
3/8PZ1590QZ2		10	17	24.5	3/8	0.95	1.25	1.47	1.65	1.8	2.06	2.38	90
3/8PZ1990QZ2		10	17	24.5	3/8	1.2	1.6	1.88	2.1	2.3	2.64	3.05	90
3/8PZ2190QZ2		10	17	24.5	3/8	1.36	1.8	2.12	2.38	2.6	2.98	3.43	90
3/8PZ2490QZ2		10	17	24.5	3/8	1.52	2	2.35	2.64	2.89	3.3	3.8	90
3/8PZ2990QZ2		10	17	24.5	3/8	1.89	2.5	2.94	3.3	3.6	4.13	4.76	90
3/8PZ3790QZ2		10	17	24.5	3/8	2.39	3.15	3.7	4.15	4.54	5.19	6	90
3/8PZ4790QZ2		10	17	24.5	3/8	3.03	4	4.7	5.27	5.77	6.6	7.6	90
3/8PZ5990QZ2		10	17	24.5	3/8	3.79	5	5.88	6.6	7.21	8.25	9.52	90



PZ series nozzle

产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)							喷射角 (°) Spray angle (degree)
		A	B	L	R	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.3
3/8PZ6690QZ2	HPb59-1 1Cr18Ni9Ti	10	17	24.5	3/8	4.24	5.6	6.59	7.39	8.08	9.25	10.66	90
3/8PZ7490QZ2		10	17	24.5	3/8	4.77	6.3	7.41	8.3	9.09	10.4	11.99	90
3/8PZ8490QZ2		10	17	24.5	3/8	5.38	7.1	8.35	9.3.7	10.24	11.7	13.52	90
3/8PZ9490QZ2		10	17	24.5	3/8	6.06	8	9.41	10.5	11.54	13.2	15.22	90
3/8PZ10690QZ2		10	17	24.5	3/8	6.82	9	10.58	11.9	12.98	14.8	17.12	90
3/8PZ11890QZ2		10	17	24.5	3/8	7.58	10	11.76	13.2	14.43	16.5	19.04	90
3/8PZ12120QZ2		10	17	24.5	3/8	0.76	1	1.18	1.32	1.44	1.66	1.9	120
3/8PZ15120QZ2		10	17	24.5	3/8	0.95	1.25	1.47	1.65	1.8	2.06	2.38	120
3/8PZ19120QZ2		10	17	24.5	3/8	1.21	1.6	1.88	2.1	2.3	2.64	3.05	120
3/8PZ21120QZ2		10	17	24.5	3/8	1.36	1.8	2.12	2.38	2.6	2.98	3.43	120
3/8PZ24120QZ2		10	17	24.5	3/8	1.52	2	2.35	2.64	2.89	3.3	3.8	120
3/8PZ29120QZ2		10	17	24.5	3/8	1.89	2.5	2.94	3.3	3.6	4.13	4.76	120
3/8PZ37120QZ2		10	17	24.5	3/8	2.39	3.15	3.7	4.15	4.54	5.19	6	120
3/8PZ47120QZ2		10	17	24.5	3/8	3.03	4	4.7	5.27	5.77	6.6	7.6	120
3/8PZ59120QZ2		10	17	24.5	3/8	3.79	5	5.88	6.6	7.21	8.25	9.52	120
3/8PZ661200QZ2		10	17	24.5	3/8	4.24	5.6	6.59	7.39	8.08	9.25	10.66	120
3/8PZ74120QZ2		10	17	24.5	3/8	4.77	6.3	7.41	8.3	9.09	10.4	11.99	120
3/8PZ84120QZ2		10	17	24.5	3/8	5.38	7.1	8.35	9.37	10.24	11.7	13.52	120
3/8PZ94120QZ2		10	17	24.5	3/8	6.06	8	9.41	10.5	11.54	13.2	15.22	120
3/8PZ100120QZ2		10	17	24.5	3/8	6.44	8.5	10	11.2	12.26	14	16.2	120
3/8PZ106120QZ2		10	17	24.5	3/8	6.82	9	10.58	11.9	12.98	14.8	17.12	120
3/8PZ118120QZ2		10	17	24.5	3/8	7.58	10	11.76	13.2	14.43	16.5	19.04	120
3/8PZ37108QZ2		10	17	24	3/8	2.1	3.1	3.7	4.3	4.9	5.7	6.8	108
3/8PZ67103QZ2		10	17	24	3/8	3.9	5.5	6.7	7.7	8.6	10.2	12.2	103
3/8PZ76108QZ2		10	17	24	3/8	4.2	6.1	7.6	8.8	9.8	11.6	13.9	108
1/2PZ15776QZ2		15	22	32	1/2	9.1	12.8	15.7	18.1	20.3	24	28.7	76
1/2PZ5265QZ2		15	22	32	1/2	3	4.2	5.2	6	6.7	7.9	9.5	65
1/2PZ11760QZ2		15	22	32	1/2	6.8	9.6	11.7	13.5	15.1	17.9	21.4	60
1/2PZ6380QZ2		15	22	32	1/2	3.6	5.1	6.3	7.3	8.1	9.6	11.5	80
3/8PZ2650QZ2		10	17	25	3/8	1.6	2.2	2.6	3.0	3.4	4.0	4.7	50
3/8PZ3760QZ2		10	17	25	3/8	2.1	3.1	3.7	4.3	4.9	5.7	6.8	60
3/8PZ1960QZ2		10	17	24.5	3/8	1.2	1.6	1.9	2.1	2.3	2.64	3.05	60
3/8PZ3545QZ2		10	17	24.5	3/8	2.0	2.9	3.5	4.0	4.5	5.3	6.4	45
3/8PZ4545QZ2		10	17	24.5	3/8	2.6	3.7	4.5	5.1	5.6	6.4	7.4	45
3/8PZ4745QZ2		10	17	24.5	3/8	3.03	4	4.7	5.27	5.77	6.6	7.6	45
3/8PZ6065QZ2		10	17	24.5	3/8	3.5	4.9	6.0	6.9	7.7	9.2	11	65

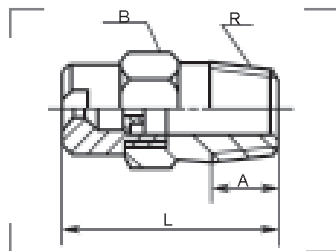
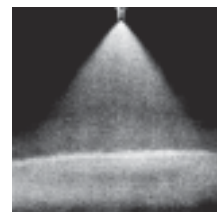
PZ series nozzle

喷雾特性及用途:

该喷嘴为活动旋流芯式，结构紧凑，喷水形状为全锥形，分布均匀，性能稳定且不易堵塞；主要用于浇铸特殊钢种连铸的二次冷却，也可用于电除尘、喷涂，以及其它工序的冷却。

Spray Feature and Application:

The nozzle is the type of movable spinning core in compact structure. The spray pattern is in the shape of a full cone, with even distribution and stable performances. It is mainly used for the secondary cooling in continuous casting machine for the special steel and can be also used for the cooling-off of electrical dust removal spray and other procedures.



产品型号 Model	材质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)							喷射角(°) Spray angle (degree)
		A	B	L	R	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.3
1/4PZ1755QZ3	HPb59-1 1Cr18Ni9Ti	10	17	35	1/4	1	1.4	1.7	2	2.2	2.6	3.1	55
1/4PZ2455QZ3		10	17	35	1/4	1.4	2	2.4	2.8	3.2	3.7	4.4	55
1/4PZ3260QZ3		10	17	35	1/4	1.8	2.6	3.2	3.8	4.1	4.9	5.8	60
1/4PZ3965QZ3		10	17	35	1/4	2.3	3.2	3.9	4.5	5.1	6.0	7.1	65
1/4PZ5470QZ3		10	17	35	1/4	3.1	4.4	5.4	6.2	7	8.2	9.9	70
1/4PZ7880QZ3		10	17	35	1/4	4.5	6.4	7.8	9.1	10.1	11.9	14.2	80
1/8PZ2650QZ3		8	14	32.5	1/8	1.6	2.1	2.6	3.0	3.5	4.0	4.7	50
3/8PZ10080QZ3		8	22	22.5	3/8	5.8	8.2	10	11.5	12.9	15.3	18.3	80
1/8PZ1565QZ3		8	14	27	1/8	0.87	1.22	1.5	1.73	1.94	2.3	2.7	65
1/8PZ1590QZ3		8	14	27	1/8	0.87	1.22	1.5	1.73	1.94	2.3	2.7	90
1/8PZ2065QZ3		8	14	27	1/8	1.15	1.63	2.0	2.3	2.6	3.1	3.65	65
1/8PZ2090QZ3		8	14	27	1/8	1.15	1.63	2.0	2.3	2.6	3.1	3.65	90
1/8PZ3065QZ3		8	14	27	1/8	1.73	2.4	3.0	3.5	3.9	4.6	5.5	65
1/8PZ3090QZ3		8	14	27	1/8	1.73	2.4	3.0	3.5	3.9	4.6	5.5	90
1/4PZ4065QZ3		10	19	35	1/4	2.3	3.3	4.0	4.6	5.2	6.1	7.3	65
1/4PZ5565QZ3		10	19	35	1/4	3.2	4.5	5.5	6.3	7.1	8.4	10	65
1/4PZ4090QZ3		10	19	35	1/4	2.3	3.3	4.0	4.6	5.2	6.1	7.3	90
1/4PZ40110QZ3		10	19	35	1/4	2.3	3.3	4.0	4.6	5.2	6.1	7.3	110
1/4PZ6065QZ3		10	19	35	1/4	3.5	4.9	6.0	6.9	7.7	9.2	11	65
1/4PZ7065QZ3		10	19	35	1/4	4.0	5.7	7.0	8.1	9	10.7	12.8	65
1/4PZ6090QZ3		10	19	35	1/4	3.5	4.9	6.0	6.9	7.7	9.2	11	90
1/4PZ60110QZ3		10	19	35	1/4	3.5	4.9	6.0	6.9	7.7	9.2	11	110
1/4PZ8065QZ3		10	19	35	1/4	4.6	6.5	8.0	9.2	10.3	12.2	14.6	65
1/4PZ8090QZ3		10	19	35	1/4	4.6	6.5	8.0	9.2	10.3	12.2	14.6	90
1/4PZ80110QZ3		10	19	35	1/4	4.6	6.5	8.0	9.2	10.3	12.2	14.6	110

PZ series nozzle

产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)							喷射角(°) Spray angle (degree)
		A	B	L	R	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.3
3/8PZ10065QZ3	HPb59-1 1Cr18Ni9Ti	10	23	42	3/8	5.8	8.2	10.0	11.5	12.9	15.3	18.3	65
3/8PZ10090QZ3		10	23	42	3/8	5.8	8.2	10.0	11.5	12.9	15.3	18.3	90
3/8PZ100110QZ3		10	23	42	3/8	5.8	8.2	10.0	11.5	12.9	15.3	18.3	110
3/8PZ15065QZ3		10	23	42	3/8	8.7	12.2	15.0	17.3	19.4	22.9	27.4	65
3/8PZ15090QZ3		10	23	42	3/8	8.7	12.2	15.0	17.3	19.4	22.9	27.4	90
3/8PZ150110QZ3		10	23	42	3/8	8.7	12.2	15.0	17.3	19.4	22.9	27.4	110
1/2PZ20065QZ3		13	29	56	1/2	11.5	16.3	20.0	23.1	25.8	30.6	36.5	65
1/2PZ20090QZ3		13	29	56	1/2	11.5	16.3	20.0	23.1	25.8	30.6	36.5	90
1/2PZ200110QZ3		13	29	56	1/2	11.5	16.3	20.0	23.1	25.8	30.6	36.5	110
1/2PZ25065QZ3		13	29	56	1/2	14.4	20.4	25.0	28.9	32.3	38.2	45.6	65
1/2PZ25090QZ3		13	29	56	1/2	14.4	20.4	25.0	28.9	32.3	38.2	45.6	90
1/2PZ250110QZ3		13	29	56	1/2	14.4	20.4	25.0	28.9	32.3	38.2	45.6	110
3/4PZ30065QZ3		15	32	64	3/4	17.3	24.5	30.0	34.6	38.7	45.8	54.8	65
3/4PZ30090QZ3		15	32	64	3/4	17.3	24.5	30.0	34.6	38.7	45.8	54.8	90
3/4PZ300110QZ3		15	32	64	3/4	17.3	24.5	30.0	34.6	38.7	45.8	54.8	110
3/4PZ35065QZ3		15	32	64	3/4	20.2	28.6	35.0	40.4	45.2	53.5	63.9	65
3/4PZ35090QZ3		15	32	64	3/4	20.2	28.6	35.0	40.4	45.2	53.5	63.9	90
3/4PZ350110QZ3		15	32	64	3/4	20.2	28.6	35.0	40.4	45.2	53.5	63.9	110
3/4PZ40070QZ3		15	32	64	3/4	23.1	32.7	40.0	46.2	51.6	61.1	73	70
3/4PZ40090QZ3		15	32	64	3/4	23.1	32.7	40.0	46.2	51.6	61.1	73	90
3/4PZ400110QZ3		15	32	64	3/4	23.1	32.7	40.0	46.2	51.6	61.1	73	110
3/4PZ45070QZ3		15	32	64	3/4	26.0	36.7	45.0	52.0	58.1	68.7	82.2	70
3/4PZ45090QZ3		15	32	64	3/4	26.0	36.7	45.0	52.0	58.1	68.7	82.2	90
3/4PZ450110QZ3		15	32	64	3/4	26.0	36.7	45.0	52.0	58.1	68.7	82.2	110
3/4PZ50070QZ3		15	32	64	3/4	28.9	40.8	50.0	57.7	64.5	76.4	91.3	70
3/4PZ50090QZ3		15	32	64	3/4	28.9	40.8	50.0	57.7	64.5	76.4	91.3	90
3/4PZ500110QZ3		15	32	64	3/4	28.9	40.8	50.0	57.7	64.5	76.4	91.3	110
3/4PZ60070QZ3		15	32	64	3/4	34.6	49.0	60.0	69.3	77.5	91.7	110	70
3/4PZ60090QZ3		15	32	64	3/4	34.6	49.0	60.0	69.3	77.5	91.7	110	90
3/4PZ600110QZ3		15	32	64	3/4	34.6	49.0	60.0	69.3	77.5	91.7	110	110
1PZ70070QZ3		17	41	74	1	40.4	57.2	70.0	80.8	90.4	107	128	70
1PZ70090QZ3		17	41	74	1	40.4	57.2	70.0	80.8	90.4	107	128	90
1PZ700110QZ3		17	41	74	1	40.4	57.2	70.0	80.8	90.4	107	128	110
1PZ80070QZ3		17	41	74	1	46.2	65.3	80.0	92.4	103	122	146	70
1PZ80090QZ3		17	41	74	1	46.2	65.3	80.0	92.4	103	122	146	90
1PZ800110QZ3		17	41	74	1	46.2	65.3	80.0	92.4	103	122	146	110
1/8PZ2815QZ3		8.5	14	30.5	1/8	1.6	2.3	2.8	3.2	3.6	4.2	5.0	15
1/8PZ5515QZ3		8.5	14	30.5	1/8	3.2	4.5	5.5	6.4	7.1	8.4	10.1	15
1/4PZ11815QZ3		10	17	43.4	1/4	6.8	9.7	11.8	13.7	15.3	18.1	22	15

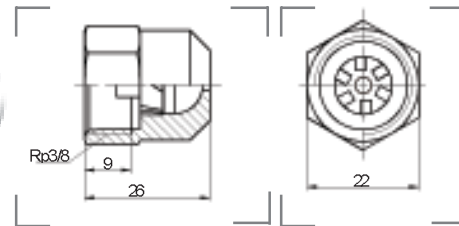
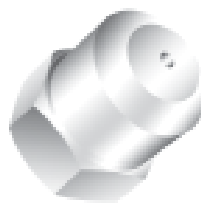
PZ series nozzle

喷雾特性及用途:

该喷嘴结构形式为固定旋流芯式，射流形式为实心锥形；适用于方、板坯及特钢连铸机的二次冷却，也可用于涂料的喷涂、电除尘以及其它工序的冷却和清洗。

Spray Feature and Application:

The nozzle is in the structure of stationary cyclonic core. The spray pattern is the shape of solid cone. It is suitable for the secondary cooling in bloom/billet and slab continuous casting machines for special steel, and can be also used for spray painting, electrical dust removal and cooling and cleaning in other processes.



产品型号 Model	材质 Material	MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)							喷射角(°) Spray angle (degree)		
		0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.15	0.3	0.5
3/8PZ1645QZ4	HPb59-1 1Cr18Ni9Ti	0.9	1.25	1.6	1.8	2	2.35	2.9	40	45	48
3/8PZ1945QZ4		1.1	1.55	1.9	2.2	2.45	2.9	3.5	40	45	48
3/8PZ2145QZ4		1.2	1.7	2.1	2.4	2.7	3.15	3.8	40	45	48
3/8PZ3145QZ4		1.8	2.5	3.1	3.6	4	4.75	5.66	40	45	48
3/8PZ3645QZ4		2.1	2.95	3.6	4.2	4.7	5.55	6.6	40	45	48
3/8PZ4145QZ4		2.4	3.4	4.1	4.8	5.3	6.3	7.5	40	45	48
3/8PZ4745QZ4		2.7	3.8	4.7	5.4	6	7.1	8.58	40	45	48
3/8PZ5245QZ4		3	4.2	5.2	6	6.7	7.9	9.45	40	45	48
3/8PZ6245QZ4		3.6	5.1	6.2	7.2	8	9.5	11.35	40	45	48
3/8PZ7345QZ4		4.2	5.9	7.25	8.35	9.35	11.05	13.25	40	45	48
3/8PZ8345QZ4		4.8	6.8	8.3	9.6	10.7	12.65	15.1	40	45	48
3/8PZ10445QZ4		6	8.45	10.35	11.95	13.4	15.8	18.9	40	45	48
3/8PZ12445QZ4		7.2	10.1	12.4	14.3	16	18.95	22.6	40	45	48
3/8PZ3150QZ4		1.8	2.5	3.1	3.6	4	4.75	5.66	45	50	53
3/8PZ4150QZ4		2.4	3.4	4.1	4.8	5.3	6.3	7.5	45	50	53
3/8PZ6250QZ4		3.6	5.1	6.2	7.2	8	9.5	11.35	45	50	53
3/8PZ2660QZ4		1.49	2.11	2.58	2.98	3.34	3.95	4.71	55	60	63
3/8PZ2860QZ4		1.61	2.2	2.8	3.22	3.6	4.25	5.1	55	60	63
3/8PZ3660QZ4		2.1	2.95	3.6	4.2	4.7	5.55	6.6	55	60	63
3/8PZ17160QZ4		9.85	13.95	17.1	19.7	22.05	26.1	31.2	55	60	63
3/8PZ1665QZ4		0.9	1.25	1.6	1.8	2	2.35	2.9	60	65	68
3/8PZ2165QZ4		1.2	1.7	2.1	2.4	2.7	3.15	3.8	60	65	68
3/8PZ2665QZ4		1.49	2.11	2.58	2.98	3.34	3.95	4.71	60	65	68
3/8PZ3165QZ4		1.8	2.5	3.1	3.6	4	4.75	5.66	60	65	68
3/8PZ3665QZ4		2.1	2.95	3.6	4.2	4.7	5.55	6.6	60	65	68
3/8PZ4165QZ4		2.4	3.4	4.1	4.8	5.3	6.3	7.5	60	65	68
3/8PZ5265QZ4		3	4.2	5.2	6	6.7	7.9	9.45	60	65	68
3/8PZ5765QZ4		3.3	4.6	5.7	6.6	7.3	8.7	10.4	60	65	68
3/8PZ5965QZ4		3.4	4.8	5.9	6.8	7.6	9	10.8	60	65	68
3/8PZ6265QZ4		3.6	5.1	6.2	7.2	8	9.5	11.35	60	65	68
3/8PZ6765QZ4		3.9	5.5	6.7	7.8	8.7	10.25	12.2	60	65	68
3/8PZ7365QZ4		4.2	5.9	7.25	8.35	9.35	11.05	13.25	60	65	68
3/8PZ7765QZ4		4.4	6.25	7.66	8.85	9.9	11.7	14	60	65	68
3/8PZ8365QZ4		4.8	6.8	8.3	9.6	10.7	12.65	15.1	60	65	68
3/8PZ9365QZ4		5.37	7.6	9.3	10.7	12	14.2	16.98	60	65	68
3/8PZ9965QZ4		5.65	8	9.85	11.35	12.7	15	17.95	60	65	68
3/8PZ10165QZ4		5.8	8.25	10.1	11.7	13.1	15.5	18.5	60	65	68
3/8PZ10465QZ4		6	8.45	10.35	11.95	13.4	15.8	18.9	60	65	68
3/8PZ12465QZ4		7.2	10.1	12.4	14.3	16	18.95	22.65	60	65	68
3/8PZ15565QZ4		9	12.7	15.5	17.9	20	23.7	28.35	60	65	68

PZ series nozzle

产品型号 Model	材 质 Material	MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)							喷射角(°) Spray angle (degree)		
		0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.15	0.3	0.5
3/8PZ1665QZ4	HPb59-1 1Cr18Ni9Ti	9.55	13.5	16.55	19.1	21.4	25.3	30.25	60	65	68
3/8PZ1680QZ4		0.9	1.25	1.6	1.8	2	2.35	2.9	75	80	83
3/8PZ2180QZ4		1.2	1.7	2.1	2.4	2.7	3.15	3.8	75	80	83
3/8PZ2680QZ4		1.49	2.11	2.6	2.98	3.34	3.95	4.71	75	80	83
3/8PZ3180QZ4		1.8	2.5	3.1	3.6	4	4.75	5.66	75	80	83
3/8PZ3680QZ4		2.1	2.95	3.6	4.2	4.7	5.55	6.6	75	80	83
3/8PZ4180QZ4		2.4	3.4	4.1	4.8	5.3	6.3	7.5	75	80	83
3/8PZ4780QZ4		2.7	3.8	4.65	5.4	6	7.1	8.58	75	80	83
3/8PZ5280QZ4		3	4.2	5.2	6	6.7	7.9	9.45	75	80	83
3/8PZ5680QZ4		3.2	4.6	5.6	6.5	7.2	8.6	10.2	75	80	83
3/8PZ6280QZ4		3.6	5.1	6.2	7.2	8	9.5	11.35	75	80	83
3/8PZ7780QZ4		4.4	6.25	7.66	8.85	9.9	11.7	14	75	80	83
3/8PZ8380QZ4		4.8	6.8	8.3	9.6	10.7	12.65	15.1	75	80	83
3/8PZ8880QZ4		5.1	7.2	8.8	10.15	11.35	13.45	16.05	75	80	83
3/8PZ10180QZ4		5.85	8.3	10.1	11.7	13.1	15.5	18.5	75	80	83
3/8PZ10680QZ4		6.1	8.6	10.6	12.2	13.6	16.1	19.25	75	80	83
3/8PZ11080QZ4		6.3	8.95	11.0	12.7	14.2	16.75	20.05	75	80	83
3/8PZ11480QZ4		6.55	9.3	11.4	13.15	14.7	17.4	20.8	75	80	83
3/8PZ12180QZ4		7.05	10	12.1	14.1	15.8	18.65	22.3	75	80	83
3/8PZ13480QZ4		7.7	10.9	13.35	15.4	17.25	20.4	24.4	75	80	83
3/8PZ15580QZ4		9	12.7	15.5	17.9	20	23.7	28.35	75	80	83
3/8PZ16680QZ4		9.55	13.5	16.55	19.1	21.4	25.3	30.25	75	80	83
3/8PZ2190QZ4		1.2	1.7	2.1	2.4	2.7	3.15	3.8	85	90	93
3/8PZ3190QZ4		1.8	2.5	3.1	3.6	4	4.75	5.66	85	90	93
3/8PZ3990QZ4		2.3	3.2	3.9	4.5	5.1	6	7.2	85	90	93
3/8PZ4890QZ4		2.75	3.9	4.75	5.5	6.15	7.25	8.7	85	90	93
3/8PZ5290QZ4		3	4.2	5.2	6	6.7	7.9	9.45	85	90	93
3/8PZ6290QZ4		3.6	5.1	6.2	7.2	8	9.5	11.35	85	90	93
3/8PZ7390QZ4		4.2	5.9	7.25	8.35	9.35	11.05	13.25	85	90	93
3/8PZ8390QZ4		4.8	6.8	8.3	9.6	10.7	12.65	15.1	85	90	93
3/8PZ10490QZ4		6	8.45	10.35	11.95	13.4	15.8	18.9	85	90	93
3/8PZ12490QZ4		7.2	10.1	12.4	14.3	16	18.95	22.65	85	90	93
3/8PZ15590QZ4		9	12.7	15.5	17.9	20	23.7	28.35	85	90	93
3/8PZ16690QZ4		9.55	13.5	16.55	19.1	21.4	25.3	30.25	85	90	93

PZ series nozzle

喷雾特性及用途:

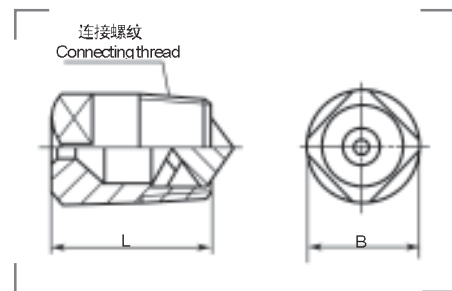
该喷嘴结构紧凑，喷雾形状为圆锥形，雾化效果良好，安装方便；主要用于方坯连铸机的二次冷却，也可用于产品去污、净化空气等。

Spray Feature and Application:

The Nozzle has a compact structure. The spray pattern is in the shape of solid cone, the nozzle can be easily installed. It is mainly used for the secondary cooling in bloom/billet continuous casting machine, and can be also used for product deoiling, air-cleaning, etc.



连接螺纹 connecting thread		R1/4	R3/8	R1/2	R3/4	R1	R1 ¹ / ₄	R1 ¹ / ₂	R2	R2 ¹ / ₂	R3	R4
喷嘴型号 Nozzle mode		1/4PZ	3/8PZ	1/2PZ	3/4PZ	1PZ	1 ¹ / ₄ PZ	1 ¹ / ₂ PZ	2PZ	2 ¹ / ₂ PZ	3PZ	4PZ
L	HH	22	24	29.5	39	52						
	HH-W	23	30.5	35	40.5	53.5	67.5	103	138	175	196	251
B		13.4	16.7	20.9	27	33.3	53	59	76	87	105	138
材质 material		Hpb59-1 1Cr18Ni9Ti										



产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)							喷射角(°) Spray angle (degree)		
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.15	0.3	0.5
1/4PZ1165QZ5	0.67	0.92	1.1	1.3	1.4	1.6	1.9	65	65	59
1/4PZ1550QZ5	0.89	1.2	1.5	1.7	1.9	2.2	2.6	50	50	46
1/4PZ2265QZ5	1.3	1.8	2.2	2.5	2.8	3.3	3.9	65	65	59
1/4PZ2650QZ5	1.6	2.1	2.6	3.0	3.3	3.8	4.5	50	50	46
1/4PZ3765QZ5	2.2	3.1	3.7	4.2	4.7	5.5	6.4	65	65	59
1/4PZ4850QZ5	2.9	4.0	4.8	5.5	6.1	7.1	8.4	50	50	46
1/4PZ7467QZ5	4.5	6.0	7.4	8.4	9.3	10.9	12.9	67	67	61
3/8PZ7050QZ5	4.2	5.8	7.0	8.0	8.9	10.4	12.2	50	50	46
3/8PZ11167QZ5	6.7	9.2	11.1	12.7	14.0	16.4	19.3	67	67	61
3/8PZ14477QZ5	8.8	12.0	14.4	16.3	18.0	21.3	25	79	77	75
3/8PZ16390QZ5	9.8	13.5	16.3	18.6	21	24	28	90	90	82
1/2PZ18567QZ5	11.1	15.3	18.5	21	23	27	32	67	67	61
1/2PZ30091QZ5	17.8	24	30	34	37	44	51	91	91	83
3/4PZ22050QZ5	13.1	18.1	22	25	28	32	38	50	50	46
3/4PZ35070QZ5	21	29	35	40	44	51	61	70	70	63
3/4PZ61092QZ5	37	51	61	70	77	90	106	92	92	84
1PZ37050QZ5	22	30	37	42	46	54	64	50	50	46
1PZ61068QZ5	37	51	61	70	77	90	106	68	68	62
1PZ87078QZ5	52	72	87	90	110	129	151	78	78	71
1PZ104092QZ5	63	87	104	119	132	154	182	92	92	84
1/4PZ2367QZ5	1.3	1.9	2.3	2.7	3.0	3.5	4.2	67	67	61
1/4PZ3160QZ5	1.8	2.5	3.1	3.6	4.0	4.7	5.5	63	60	57
1/4PZ3180QZ5	1.8	2.5	3.1	3.6	4.0	4.7	5.5	83	80	78
1/4PZ3762QZ5	2.2	3.1	3.7	4.2	4.7	5.6	6.6	65	62	59
1/4PZ4077QZ5	2.5	3.4	4.0	4.6	5.0	6.0	7.1	79	77	75
1/4PZ4777QZ5	2.8	3.9	4.7	5.4	6	7.0	8.3	79	77	75

PZ series nozzle

产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)							喷射角(°) Spray angle (degree)		
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.15	0.3	0.5
1/4PZ4870QZ5	2.9	4.0	4.8	5.5	6.1	7.1	8.4	70	70	65
3/8PZ4845QZ5	2.9	4.0	4.8	5.5	6.1	7.1	8.4	45	45	42
1/4PZ5148QZ5	3.0	4.2	5.1	5.9	6.6	7.7	9.1	50	48	45
1/4PZ5465QZ5	3.1	4.4	5.4	6.2	7.0	8.1	9.6	68	65	62
1/4PZ6090QZ5	3.5	4.9	6.0	6.9	7.7	9.0	10.7	90	90	67
1/4PZ6277QZ5	3.6	5.0	6.2	7.1	8.0	9.3	11.1	79	77	75
1/4PZ6265QZ5	3.6	5.0	6.2	7.1	8.0	9.3	11.1	65	65	62
1/4PZ7065QZ5	4.2	5.8	7.0	8.0	8.9	10.5	12.5	67	65	62
3/8PZ7048QZ5	4.2	5.8	7.0	8.0	8.9	10.5	12.5	50	48	46
3/8PZ7080QZ5	4.2	5.8	7.0	8.0	8.9	10.5	12.5	83	80	78
1/4PZ8065QZ5	4.7	6.6	8.0	9.2	10.2	12.0	14.3	65	65	62
1/4PZ8565QZ5	5.0	7.0	8.5	9.8	10.9	12.8	15.1	65	65	62
3/8PZ9080QZ5	5.2	7.4	9.0	10.3	11.5	13.5	16.0	83	80	78
3/8PZ9377QZ5	5.3	7.6	9.3	10.8	12.0	14.0	16.6	79	77	75
1/4PZ9472QZ5	5.4	7.7	9.4	10.9	12.1	14.1	16.8	74	72	69
3/8PZ11080QZ5	6.5	9.1	11.0	12.6	14.1	16.5	19.6	83	80	78
3/8PZ11877QZ5	7.1	9.8	11.8	13.5	15.0	17.7	21.0	79	77	75
3/8PZ12080QZ5	7.2	9.9	12.0	13.8	15.3	18.0	21.4	83	80	78
3/8PZ14070QZ5	8.3	11.5	14.0	16.1	17.9	21.0	25.0	70	70	65
3/8PZ15590QZ5	9.1	12.8	15.5	17.8	19.8	23.3	27.6	90	90	87
1/4PZ2341QZ5	1.3	1.9	2.3	2.7	3.0	3.5	4.2	39	41	42
1/4PZ4341QZ5	2.5	3.5	4.3	5.0	5.6	6.6	7.9	39	41	42
3/8PZ9841QZ5	5.7	8	9.8	11.3	12.7	15.0	17.9	39	41	42
3/8PZ4641QZ5	2.7	3.8	4.6	5.3	5.9	7.0	8.4	39	41	42
1/4PZ72120QZ5	4.4	6.0	7.2	8.1	9.0	10.5	12.2	120	120	103
1/4PZ86120QZ5	5.3	7.2	8.6	9.8	10.8	12.5	20.7	120	120	103
1/4PZ100120QZ5	6.2	8.4	10.0	11.4	12.6	14.5	17.0	120	120	103
3/8PZ122120QZ5	7.5	10.2	12.2	13.8	15.3	17.7	20.7	120	120	103
3/8PZ144121QZ5	8.8	12.0	14.4	16.3	18.0	21.3	25	120	121	104
3/8PZ172121QZ5	10.6	14.4	17.2	19.5	22.0	25.0	29.0	120	121	104
3/8PZ194121QZ5	11.9	16.2	19.4	22.0	24.0	28.0	33.0	120	121	106
1/2PZ220121QZ5	13.3	18.0	22.0	24.0	27.0	32.0	37.0	120	121	108
1/2PZ250121QZ5	15.5	21.0	25.0	29.0	31.0	36.0	43.0	120	121	108
1/2PZ290121QZ5	17.7	24.0	29.0	33.0	36.0	42.0	49.0	120	121	108
1/2PZ320121QZ5	19.9	27.0	32.0	37.0	40.0	46.0	54.0	120	121	110
1/2PZ360121QZ5	22.0	30.0	36.0	41.0	45.0	52.0	61.0	120	121	112
3/4PZ500121QZ5	31.0	42.0	50.0	57.0	63.0	73.0	85.0	120	121	112
1PZ920124QZ5	57.0	77.0	92.0	105.0	116.0	134.0	156.0	120	124	117
1 1/4PZ1340124QZ5	83.0	112.0	134.0	152.0	168.0	194.0	227.0	120	124	117
1 1/2PZ2000124QZ5	124.0	169.0	200.0	230.0	250.0	290.0	339.0	120	124	117
2PZ3950124QZ5	245.0	330.0	395.0	445.0	490.0	572.0	669.0	120	124	117
2 1/2PZ5900124QZ5	360.0	490.0	590.0	670.0	740.0	855.0	1000.0	120	124	117
3PZ8000124QZ5	490.0	670.0	800.0	910.0	1000.0	1159.0	1356.0	120	124	117
4PZ15800124QZ5	970.0	1320.0	1580.0	1790.0	1980.0	2290.0	2678.0	120	124	117

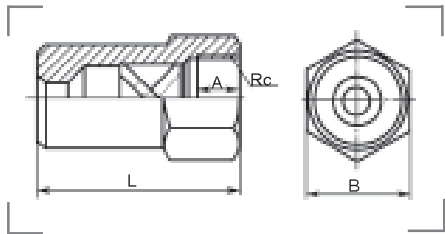
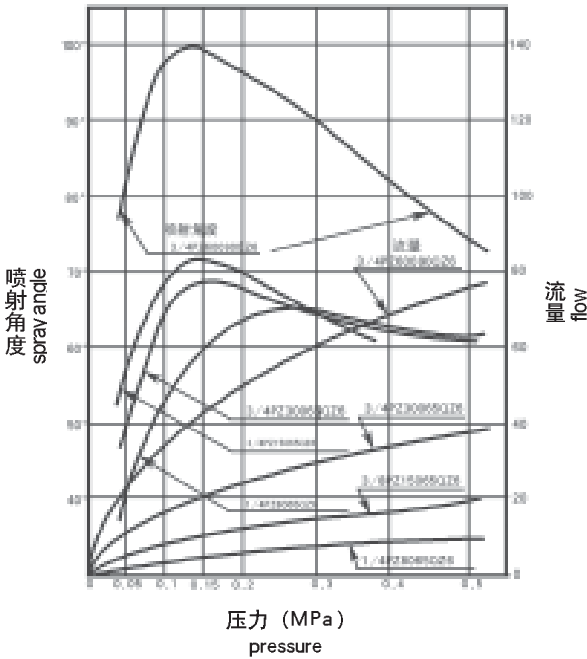
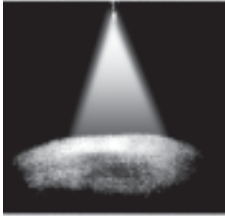
PZ series nozzle

喷雾特性及用途:

该喷嘴结构紧凑，喷雾形状为圆锥形，雾化均匀，安装方便；主要适用于小方坯连铸的二次冷却，也可以用于环保，净化空气以及机械设备的冷却。

Spray Feature and Application:

The nozzle is marked with compact structure, even atomization and easy installation. Its spray pattern is the cone shape. It is mainly suitable for the secondary cooling in billet continuous casting machine, and can be also used in environmental protection, air-cleaning and cooling-off of mechanical equipment.



Rc	1/8	1/4	3/8	1/2	3/4
产品型号 Model	1/8PZ	1/4PZ	3/8PZ	1/2PZ	3/4PZ
L	22	32	38	50	64
B	14	19	22	27	32
A	6.5	9.7	10.1	13.2	14.5
材质 Material	HPb59-1 1Cr18Ni9Ti				

产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)		
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.1	0.3	0.5
1/4PZ3765QZ6	2.1	3.0	3.7	4.3	4.8	5.7	6.8	65	65	59
1/4PZ9685QZ6	5.5	7.8	9.6	11.1	12.4	14.7	17.5	85	85	83
3/8PZ10385QZ6	5.9	8.4	10.3	11.9	13.3	15.7	18.8	85	85	83
1/8PZ1065QZ6	0.58	0.82	1.0	1.15	1.29	1.53	1.83	48	65	66
1/8PZ1090QZ6	0.58	0.82	1.0	1.15	1.29	1.53	1.83	73	90	92
1/8PZ1565QZ6	0.87	1.22	1.5	1.73	1.94	2.3	2.7	50	65	60
1/8PZ1590QZ6	0.87	1.22	1.5	1.73	1.94	2.3	2.7	80	90	80
1/8PZ2065QZ6	1.15	1.63	2.0	2.3	2.6	3.1	3.65	50	65	60
1/8PZ2090QZ6	1.15	1.63	2.0	2.3	2.6	3.1	3.65	79	90	80

PZ series nozzle

产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)							喷射角(°) Spray angle (degree)		
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.1	0.3	0.5
1/8PZ3065QZ6	1.73	2.4	3.0	3.5	3.9	4.6	5.5	50	65	60
1/8PZ3090QZ6	1.73	2.4	3.0	3.5	3.9	4.6	5.5	81	90	80
1/4PZ4065QZ6	2.3	3.3	4.0	4.6	5.2	6.1	7.3	53	65	61
1/4PZ4090QZ6	2.3	3.3	4.0	4.6	5.2	6.1	7.3	84	90	82
1/4PZ40120QZ6	2.3	3.3	4.0	4.6	5.2	6.1	7.3	114	120	112
1/4PZ6065QZ6	3.5	4.9	6.0	6.9	7.7	9.2	11.0	53	65	61
1/4PZ6090QZ6	3.5	4.9	6.0	6.9	7.7	9.2	11.0	84	90	82
1/4PZ60120QZ6	3.5	4.9	6.0	6.9	7.7	9.2	11.0	114	120	112
1/4PZ8065QZ6	4.6	6.5	8.0	9.2	10.3	12.2	14.6	53	65	62
1/4PZ8090QZ6	4.6	6.5	8.0	9.2	10.3	12.2	14.6	85	90	83
1/4PZ80120QZ6	4.6	6.5	8.0	9.2	10.3	12.2	14.6	115	120	113
3/8PZ10065QZ6	5.8	8.2	10.0	11.5	12.9	15.3	18.3	55	65	61
3/8PZ10090QZ6	5.8	8.2	10.0	11.5	12.9	15.3	18.3	85	90	83
3/8PZ100120QZ6	5.8	8.2	10.0	11.5	12.9	15.3	18.3	115	120	113
3/8PZ15065QZ6	8.7	12.2	15.0	17.3	19.4	22.9	27.4	69	65	52
3/8PZ15090QZ6	8.7	12.2	15.0	17.3	19.4	22.9	27.4	87	90	81
3/8PZ150120QZ6	8.7	12.2	15.0	17.3	19.4	22.9	27.4	117	120	111
1/2PZ20065QZ6	11.5	16.3	20.0	23.1	25.8	30.6	36.5	69	65	52
1/2PZ20090QZ6	11.5	16.3	20.0	23.1	25.8	30.6	36.5	87	90	81
1/2PZ200120QZ6	11.5	16.3	20.0	23.1	25.8	30.6	36.5	117	120	111
1/2PZ25065QZ6	14.4	20.4	25.0	28.9	32.3	38.2	45.6	65	65	61
1/2PZ25090QZ6	14.4	20.4	25.0	28.9	32.3	38.2	45.6	89	90	78
1/2PZ250120QZ6	14.4	20.4	25.0	28.9	32.3	38.2	45.6	119	120	108
3/4PZ30065QZ6	17.3	24.5	30.0	34.6	38.7	45.8	54.8	65	65	61
3/4PZ30090QZ6	17.3	24.5	30.0	34.6	38.7	45.8	54.8	84	90	77
3/4PZ300120QZ6	17.3	24.5	30.0	34.6	38.7	45.8	54.8	119	120	108
3/4PZ35065QZ6	20.2	28.6	35.0	40.4	45.2	53.5	63.9	65	65	61
3/4PZ35090QZ6	20.2	28.6	35.0	40.4	45.2	53.5	63.9	89	90	78
3/4PZ350120QZ6	20.2	28.6	35.0	40.4	45.2	53.5	63.9	119	120	108
3/4PZ40070QZ6	23.1	32.7	40.0	46.2	51.6	61.1	73	70	70	66
3/4PZ40090QZ6	23.1	32.7	40.0	46.2	51.6	61.1	73	92	90	76
3/4PZ400120QZ6	23.1	32.7	40.0	46.2	51.6	61.1	73	122	120	106
3/4PZ45070QZ6	26.0	36.7	45.0	52.0	58.1	68.7	82.2	70	70	66
3/4PZ45090QZ6	26.0	36.7	45.0	52.0	58.1	68.7	82.2	89	90	88
3/4PZ450120QZ6	26.0	36.7	45.0	52.0	58.1	68.7	82.2	122	120	106
3/4PZ50070QZ6	28.9	40.8	50.0	57.7	64.5	76.4	91.3	66	70	63
3/4PZ50090QZ6	28.9	40.8	50.0	57.7	64.5	76.4	91.3	98	90	75
3/4PZ500120QZ6	28.9	40.8	50.0	57.7	64.5	76.4	91.3	128	120	105
3/4PZ60070QZ6	34.6	49.0	60.0	69.3	77.5	91.7	110	72	70	65
3/4PZ60090QZ6	34.6	49.0	60.0	69.3	77.5	91.7	110	98	90	75
3/4PZ600120QZ6	34.6	49.0	60.0	69.3	77.5	91.7	110	128	120	105

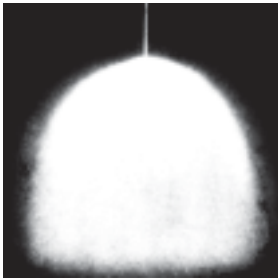
PZ series nozzle

喷雾特性及用途:

该喷嘴具有多种实心锥体的射流，此射流构成一个实心的近似有规律的全覆盖喷洒形式，并且可在水滴相对变小时加大功率，嘴体上装有 7 个喷头，因此，安装和使用十分方便；主要用于清洗、环保以及特殊钢板坯连铸的二次冷却。

Spray Feature and Application:

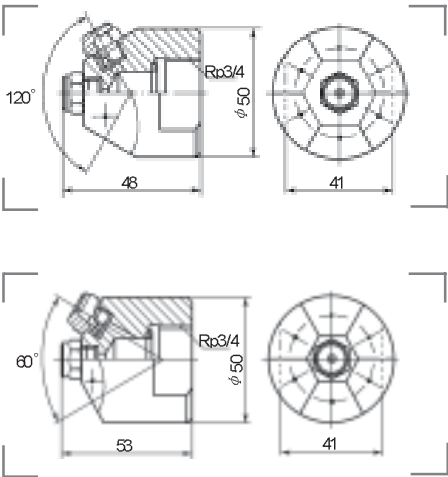
The nozzle has several solid cones. The injection makes up a solid full-covering spray pattern and you can increase the power against the smaller drop. There are seven nozzles on the header, therefore the installation and application are very convenient. The nozzle is mainly used for cleaning, environmental protection and the secondary cooling in slab continuous casting machine for special steel.



QZ7 型



QZ8 型



产品型号 Model	材 质 Material	MPa 压力下的流量 (L/min) Flow at MPa pressure(L/min)					喷射角 (°) Spray angle (degree)
		0.3	0.5	0.7	1.0	1.5	0.3
3/4PZ105180QZ7	H62 1Cr18Ni9Ti	10.5	13.4	1.1	18.9	23.1	180
3/4PZ126180QZ7		12.6	16.1	19.6	23.1	28.0	
3/4PZ140180QZ7		14.0	18.2	21.7	25.9	31.5	
3/4PZ175180QZ7		17.5	23.1	27.3	32.2	39.2	
3/4PZ210180QZ7		21.0	27.3	32.2	38.5	46.9	
3/4PZ245180QZ7		24.5	31.5	37.8	44.8	54.6	
3/4PZ280180QZ7		28.0	36.4	42.7	51.1	62.3	
3/4PZ315180QZ7		31.5	40.6	48.3	57.4	70.0	
3/4PZ350180QZ7		35.0	44.8	53.2	63.7	78.4	
3/4PZ105120QZ8		10.5	13.4	16.1	18.9	23.1	120
3/4PZ126120QZ8		12.6	16.1	19.6	23.1	28.0	
3/4PZ140120QZ8		14.0	18.2	21.7	25.9	31.5	
3/4PZ175120QZ8		17.5	23.1	27.3	32.2	39.2	
3/4PZ210120QZ8		21.0	27.3	32.2	38.5	46.9	
3/4PZ245120QZ8		24.5	31.5	37.8	44.8	54.6	
3/4PZ280120QZ8		28.0	36.4	42.7	51.1	62.3	
3/4PZ315120QZ8		31.5	40.6	48.3	57.4	70.0	
3/4PZ350120QZ8		35.0	44.8	53.2	63.7	78.4	

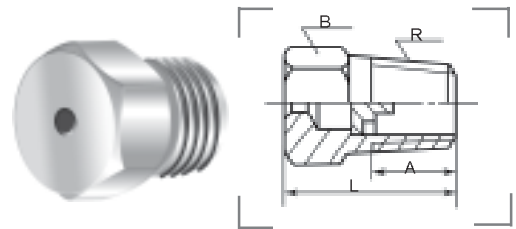
PZ series nozzle

喷雾特性及用途:

该喷嘴具有结构紧凑，安装方便，喷雾均匀等特点，其喷淋形式为固定旋流芯式；主要用于小方坯连铸的二次冷却，也可用于其它工序的冷却。

Spray Feature and Application:

The nozzle is marked with compact structure, easy installation, even spray, etc. Its spray pattern is in the shape of stationary spinning core. It is mainly used for the secondary cooling in billet continuous casting machine, and can be also used for the cooling-off of other procedures:



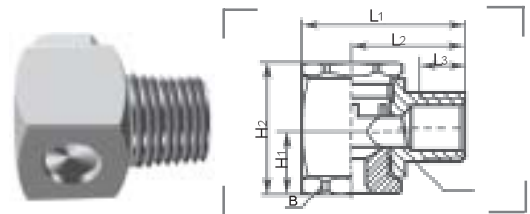
产 品 型 号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)		
		A	B	L	R	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.15	0.3	0.5
3/8PZ4777QZ9	HPb59-1 1Cr18Ni9Ti	9	19	21	3/8	2.8	3.9	4.7	5.4	6	7	8.3	72	77	80
3/8PZ7177QZ9		11	19	26	3/8	4.2	5.8	7.1	8.1	9	10.6	12.5	72	77	80
3/8PZ6065QZ9		11	19	26	3/8	3.5	4.9	6.0	6.9	7.8	9.2	11	60	65	68
3/8PZ6090QZ9		11	19	26	3/8	3.5	4.9	6.0	6.9	7.8	9.2	11	85	90	93
3/8PZ9380QZ9		11	19	26	3/8	5.4	7.6	9.3	10.7	12	14.2	17	75	80	83
1/4PZ4050QZ9		9	14	25	1/4	2.4	3.3	4.0	4.6	5.1	6	7	45	50	53
1/4PZ6050QZ9		9	14	25	1/4	3.5	4.9	6.0	6.9	7.8	9.2	11	45	50	53
1/4PZ6060QZ9		9	14	25	1/4	3.5	4.9	6.0	6.9	7.8	9.2	11	55	60	63
1/4PZ8050QZ9		9	14	25	1/4	4.6	6.5	8.0	9.2	10.3	12.2	14.6	45	50	53
1/4PZ8060QZ9		9	14	25	1/4	4.6	6.5	8.0	9.2	10.3	12.2	14.6	55	60	63
3/8PZ13060QZ9		12	17	32	3/8	7.7	10.7	13.0	14.9	16.5	19.4	22.9	55	60	63

喷雾特性及用途:

该喷嘴结构新颖，其喷淋形式为实心锥形，雾化均匀；主要适用于方、板坯连铸机的二次冷却，也可用于电除尘、喷涂以及一切需冷却的机械设备。

Spray Feature and Application:

The nozzle has a new structure. Its spray pattern is the shape of semi-hollow cone, with even atomization. It is mainly suitable for the secondary cooling in continuous casting machine for bloom/billet and slab. It can be also used for the electrical dust removal, spray and all mechanical equipment that needs cooling.



R	L1	L2	L3	H1	H2	B
1/4	28.0	20.0	10.0	8.0	20.5	12.0
3/8	36.0	25.0	10.0	11.0	26.5	19.0
1/2	48.5	33.5	13.0	20.0	38.5	27.0
材质 Material	HPb59-1 1Cr18Ni9Ti					

产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	
3/8PZ3990QZ10	2.23	3.15	3.86	4.45	4.98	5.9	7.04	90
3/8PZ7790QZ10	4.45	6.3	7.72	8.91	9.96	11.8	14.09	90
3/8PZ12390QZ10	7.07	10.0	12.25	14.1	15.81	18.7	22.36	90
3/8PZ19690QZ10	11.31	16.0	19.6	22.6	25.3	29.9	35.78	90
1/4PZ20120QZ10	1.13	1.6	1.96	2.26	2.53	2.99	3.58	120
3/8PZ39120QZ10	2.23	3.15	3.86	4.45	4.98	5.9	7.04	120
3/8PZ77120QZ10	4.45	6.3	7.72	8.91	9.96	11.8	14.09	120
3/8PZ153120QZ10	8.84	12.5	15.31	17.68	19.76	23.4	27.95	120
1/2PZ306120QZ10	17.68	25	30.62	35.36	39.53	46.8	55.9	120

PZ series nozzle

喷雾特性及用途:

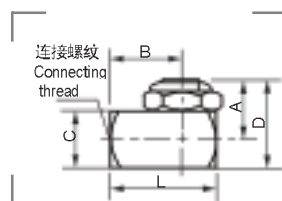
该喷嘴的喷淋形式为实心锥形，喷出液体的轴线与喷嘴进口的轴线成 90° 角，喷射区域呈均匀的圆锥状，并具有并帽可拆卸方便等特点；主要应用于除尘、向蒸汽和气体管道加湿，也可用于方、圆坯连铸的二次冷却。

Spray Feature and Application:

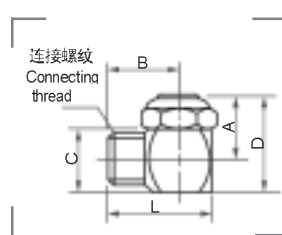
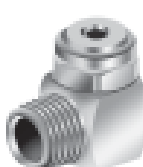
The spraying pattern of the nozzle is the shape of solid cone. The steam line makes an angle of 90° to the shaft of nozzle inlet. The spray area presents an even round shape and has the feature of easy to remove cover etc. It is mainly used for dedusting and humidification of steam and air pipe and for the secondary cooling of bloom/billet and round continuous casting machine.

形式 Form	连接螺纹 Connecting thread	A	B	C	D	L
QZ11	Rc1/8	17.5	16.0	14.3	24.5	23.0
	Rc1/4	22.0	20.0	17.5	31.0	29.5
	Rc3/8	25.5	22.0	20.6	36.5	32.5
	Rc1/2	39.0	27.0	25.4	51.5	40.0
QZ12	R1/8	17.5	16.5	14.3	24.5	24.0
	R1/4	22.0	20.5	17.5	32.0	29.5
	R3/8	25.5	23.0	20.6	36.5	33.5
	R1/2	39.0	28.5	25.4	51.5	41.5

QZ11型



QZ12型



产品型号 Model	MPa 压力下的流量 (L/min) Flow at MPa pressure (L/min)							喷射角 (°) Spray angle (degree)		
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.15	0.3	0.5
1/8PZ1550QZ11	0.9	1.2	1.5	1.7	1.9	2.2	2.6	50	50	47
1/8PZ2265QZ11	1.3	1.9	2.2	2.5	2.8	3.3	3.9	65	65	60
1/8PZ2650QZ11	1.6	2.2	2.6	3.0	3.3	3.9	4.5	50	50	47
1/8PZ2984Z11	1.7	2.4	2.9	3.3	3.7	4.3	5.1	84	84	80
1/8PZ3765QZ11	2.2	3.1	3.7	4.2	4.7	5.5	6.5	65	65	60
1/8PZ4574QZ11	2.7	3.8	4.5	5.2	5.7	6.7	7.9	74	74	69
1/4PZ4850QZ11	2.9	4.0	4.8	5.5	6.1	7.1	8.4	50	50	47
1/4PZ7467QZ11	4.4	6.2	7.4	8.5	9.4	11.0	13.0	67	67	62
1/4PZ9374QZ11	5.5	7.7	9.3	10.6	11.8	13.7	16.2	74	74	69
3/8PZ7150QZ11	4.2	5.9	7.1	8.1	8.9	10.4	12.3	50	50	47
3/8PZ11267QZ11	6.7	9.3	11.2	12.7	14.1	16.5	19.4	67	67	62
3/8PZ14980QZ11	8.9	12.4	14.9	17.0	18.8	22	26	80	80	74
3/8PZ16490QZ11	9.8	13.6	16.4	18.7	21	24	28	90	90	83
1/2PZ11950QZ11	7.1	9.9	11.9	13.6	15.1	17.6	21	50	50	47
1/2PZ18667QZ11	11.1	15.4	18.6	21	24	27	32	67	67	62
1/2PZ24075QZ11	14.3	19.8	24	27	30	35	41	75	75	69
1/2PZ30091QZ11	17.9	25	30	34	38	44	52	91	91	84
1/2PZ37094QZ11	22	31	37	42	47	55	65	94	94	87
3/8PZ18280QZ11	10.5	14.9	18.2	21	23.5	27.8	33.2	80	80	74
3/8PZ198105QZ12	11.4	16.2	19.8	22.9	25.6	30.2	36.1	105	105	98
3/8PZ4685QZ12	2.7	3.8	4.6	5.4	6	7	8.4	85	85	80

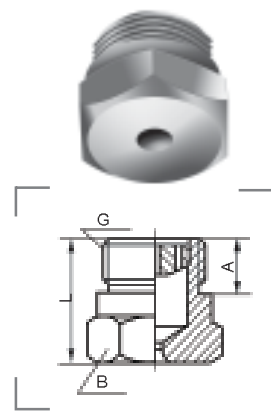
PZ series nozzle

喷雾特性及用途:

该系列喷嘴结构紧凑，雾化均匀，技术性能良好，其喷淋形式为实心锥形；主要用于连铸及钢坯轧制中对铸坯的强制冷却，同时也适用于冲洗及清洗，对气体和固体物质进行表面喷洒，喷洗气体洗涤器中的滤垫，以利于改进行化学反应。

Spray Feature and Application:

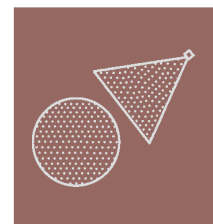
The series nozzle is marked with compact structure, even spray and good technical property. - It is mainly used for continuous casting and forced cooling slab in the rolling of steel slab. It is also suitable for washing and cleaning, carrying out the surface spray to air and solid substance, and spraying and rinsing the filter bed in the air washer in favor of the improvement of chemical reaction.



产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)								喷射角(°) Spray angle (degree)
		A	B	L	R	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.3	
3/8PZ123120QZ13	HPb59-1 1Cr18Ni9Ti	9	19	20	3/8	7.1	10.0	12.3	14.2	15.9	18.8	22.5	120	
1/2PZ192120QZ13		10	27	26	1/2	11.1	15.7	19.2	22.2	24.8	29.3	35	120	
1/8PZ1645QZ13		9	14	15	1/8	0.9	1.3	1.6	1.8	2.0	2.4	2.8	45	
1/8PZ1660QZ13		9	14	15	1/8	0.9	1.3	1.6	1.8	2.0	2.4	2.8	60	
1/8PZ1690QZ13		9	14	15	1/8	0.9	1.3	1.6	1.8	2.0	2.4	2.8	90	
1/8PZ16120QZ13		9	14	15	1/8	0.9	1.3	1.6	1.8	2.0	2.4	2.8	120	
1/8PZ1945QZ13		9	14	15	1/8	1.1	1.6	1.9	2.2	2.5	2.9	3.5	45	
1/8PZ1960QZ13		9	14	15	1/8	1.1	1.6	1.9	2.2	2.5	2.9	3.5	60	
1/8PZ1990QZ13		9	14	15	1/8	1.1	1.6	1.9	2.2	2.5	2.9	3.5	90	
1/8PZ19120QZ13		9	14	15	1/8	1.1	1.6	1.9	2.2	2.5	2.9	3.5	120	
1/8PZ2345QZ13		9	14	15	1/8	1.3	1.9	2.3	2.7	3.0	3.5	4.2	45	
1/8PZ2360QZ13		9	14	15	1/8	1.3	1.9	2.3	2.7	3.0	3.5	4.2	60	
1/8PZ2390QZ13		9	14	15	1/8	1.3	1.9	2.3	2.7	3.0	3.5	4.2	90	
1/8PZ23120QZ13		9	14	15	1/8	1.3	1.9	2.3	2.7	3.0	3.5	4.2	120	
1/8PZ3145QZ13		9	14	15	1/8	1.8	2.5	3.1	3.6	4.0	4.7	5.6	45	
1/8PZ3160QZ13		9	14	15	1/8	1.8	2.5	3.1	3.6	4.0	4.7	5.6	60	
1/8PZ3190QZ13		9	14	15	1/8	1.8	2.5	3.1	3.6	4.0	4.7	5.6	90	
1/8PZ31120QZ13		9	14	15	1/8	1.8	2.5	3.1	3.6	4.0	4.7	5.6	120	
1/8PZ3945QZ13		9	14	15	1/8	2.2	3.2	3.9	4.5	5.0	5.9	7.1	45	
1/8PZ3960QZ13		9	14	15	1/8	2.2	3.2	3.9	4.5	5.0	5.9	7.1	60	
1/8PZ3990QZ13		9	14	15	1/8	2.2	3.2	3.9	4.5	5.0	5.9	7.1	90	
1/8PZ39120QZ13		9	14	15	1/8	2.2	3.2	3.9	4.5	5.0	5.9	7.1	120	
1/8PZ4645QZ13		9	14	15	1/8	2.7	3.8	4.6	5.4	6.0	7.1	8.5	45	
1/8PZ4660QZ13		9	14	15	1/8	2.7	3.8	4.6	5.4	6.0	7.1	8.5	60	
1/8PZ4690QZ13		9	14	15	1/8	2.7	3.8	4.6	5.4	6.0	7.1	8.5	90	
1/8PZ46120QZ13		9	14	15	1/8	2.7	3.8	4.6	5.4	6.0	7.1	8.5	120	
1/4PZ1645QZ13		10	17	15	1/4	0.9	1.3	1.6	1.8	2.0	2.4	2.8	45	
1/4PZ1660QZ13		10	17	15	1/4	0.9	1.3	1.6	1.8	2.0	2.4	2.8	60	
1/4PZ1690QZ13		10	17	15	1/4	0.9	1.3	1.6	1.8	2.0	2.4	2.8	90	
1/4PZ16120QZ13		10	17	15	1/4	0.9	1.3	1.6	1.8	2.0	2.4	2.8	120	
1/4PZ1945QZ13		10	17	15	1/4	1.1	1.6	1.9	2.2	2.5	2.9	3.5	45	
1/4PZ1960QZ13		10	17	15	1/4	1.1	1.6	1.9	2.2	2.5	2.9	3.5	60	
1/4PZ1990QZ13		10	17	15	1/4	1.1	1.6	1.9	2.2	2.5	2.9	3.5	90	
1/4PZ19120QZ13		10	17	15	1/4	1.1	1.6	1.9	2.2	2.5	2.9	3.5	120	

PZ series nozzle

产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)
		A	B	L	R	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.3
1/4PZ2345QZ13	HPb59-1 1Cr18Ni9Ti	10	17	15	1/4	1.3	1.9	2.3	2.7	3.0	3.5	4.2	45
1/4PZ2360QZ13		10	17	15	1/4	1.3	1.9	2.3	2.7	3.0	3.5	4.2	60
1/4PZ2390QZ13		10	17	15	1/4	1.3	1.9	2.3	2.7	3.0	3.5	4.2	90
1/4PZ23120QZ13		10	17	15	1/4	1.3	1.9	2.3	2.7	3.0	3.5	4.2	120
1/4PZ3145QZ13		10	17	15	1/4	1.8	2.5	3.1	3.6	4.0	4.7	5.6	45
1/4PZ3160QZ13		10	17	15	1/4	1.8	2.5	3.1	3.6	4.0	4.7	5.6	60
1/4PZ3190QZ13		10	17	15	1/4	1.8	2.5	3.1	3.6	4.0	4.7	5.6	90
1/4PZ31120QZ13		10	17	15	1/4	1.8	2.5	3.1	3.6	4.0	4.7	5.6	120
1/4PZ3945QZ13		10	17	15	1/4	2.2	3.2	3.9	4.5	5.0	5.9	7.1	45
1/4PZ3960QZ13		10	17	15	1/4	2.2	3.2	3.9	4.5	5.0	5.9	7.1	60
1/4PZ3990QZ13		10	17	15	1/4	2.2	3.2	3.9	4.5	5.0	5.9	7.1	90
1/4PZ39120QZ13		10	17	15	1/4	2.2	3.2	3.9	4.5	5.0	5.9	7.1	120
1/4PZ4645QZ13		10	17	15	1/4	2.7	3.8	4.6	5.4	6.0	7.1	8.5	45
1/4PZ4660QZ13		10	17	15	1/4	2.7	3.8	4.6	5.4	6.0	7.1	8.5	60
1/4PZ4690QZ13		10	17	15	1/4	2.7	3.8	4.6	5.4	6.0	7.1	8.5	90
1/4PZ46120QZ13		10	17	15	1/4	2.7	3.8	4.6	5.4	6.0	7.1	8.5	120
1/4PZ5445QZ13		10	17	15	1/4	3.1	4.4	5.4	6.3	7.0	8.3	9.9	45
1/4PZ5460QZ13		10	17	15	1/4	3.1	4.4	5.4	6.3	7.0	8.3	9.9	60
1/4PZ5490QZ13		10	17	15	1/4	3.1	4.4	5.4	6.3	7.0	8.3	9.9	90
1/4PZ54120QZ13		10	17	15	1/4	3.1	4.4	5.4	6.3	7.0	8.3	9.9	120
1/4PZ6245QZ13		10	17	15	1/4	3.6	5.1	6.2	7.2	8.0	9.5	11.3	45
1/4PZ6260QZ13		10	17	15	1/4	3.6	5.1	6.2	7.2	8.0	9.5	11.3	60
1/4PZ6290QZ13		10	17	15	1/4	3.6	5.1	6.2	7.2	8.0	9.5	11.3	90
1/4PZ62120QZ13		10	17	15	1/4	3.6	5.1	6.2	7.2	8.0	9.5	11.3	120
3/8PZ3945QZ13		9	17	15	1/4	2.2	3.2	3.9	4.5	5.0	5.9	7.1	45
3/8PZ3960QZ13		9	19	20	1/4	2.2	3.2	3.9	4.5	5.0	5.9	7.1	60
3/8PZ3990QZ13		9	19	20	3/8	2.2	3.2	3.9	4.5	5.0	5.9	7.1	90
3/8PZ39120QZ13		9	19	20	3/8	2.2	3.2	3.9	4.5	5.0	5.9	7.1	120
3/8PZ4645QZ13		9	19	20	3/8	2.7	3.8	4.6	5.4	6.0	7.1	8.5	45
3/8PZ4660QZ13		9	19	20	3/8	2.7	3.8	4.6	5.4	6.0	7.1	8.5	60
3/8PZ4690QZ13		9	19	20	3/8	2.7	3.8	4.6	5.4	6.0	7.1	8.5	90
3/8PZ46120QZ13		9	19	20	3/8	2.7	3.8	4.6	5.4	6.0	7.1	8.5	120
3/8PZ6245QZ13		9	19	20	3/8	3.6	5.1	6.2	7.2	8.0	9.5	11.3	45
3/8PZ6260QZ13		9	19	20	3/8	3.6	5.1	6.2	7.2	8.0	9.5	11.3	60
3/8PZ6290QZ13		9	19	20	3/8	3.6	5.1	6.2	7.2	8.0	9.5	11.3	90
3/8PZ62120QZ13		9	19	20	3/8	3.6	5.1	6.2	7.2	8.0	9.5	11.3	120
3/8PZ7845QZ13		9	19	20	3/8	4.5	6.3	7.8	8.9	10.0	11.8	14.1	45
3/8PZ7860QZ13		9	19	20	3/8	4.5	6.3	7.8	8.9	10.0	11.8	14.1	60
3/8PZ7890QZ13		9	19	20	3/8	4.5	6.3	7.8	8.9	10.0	11.8	14.1	90
3/8PZ78120QZ13		9	19	20	3/8	4.5	6.3	7.8	8.9	10.0	11.8	14.1	120

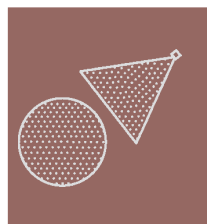


PZ series nozzle

产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)
		A	B	L	R	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.3
3/8PZ10145QZ13	HPb59-1 1Cr18Ni9Ti	9	19	20	3/8	5.8	8.2	10.1	11.6	13.0	15.4	18.4	45
3/8PZ10160QZ13		9	19	20	3/8	5.8	8.2	10.1	11.6	13.0	15.4	18.4	60
3/8PZ10190QZ13		9	19	20	3/8	5.8	8.2	10.1	11.6	13.0	15.4	18.4	90
3/8PZ101120QZ13		9	19	20	3/8	5.8	8.2	10.1	11.6	13.0	15.4	18.4	120
3/8PZ12445QZ13		9	19	20	3/8	7.2	10.1	12.4	14.3	16.0	18.9	22.6	45
3/8PZ12460QZ13		9	19	20	3/8	7.2	10.1	12.4	14.3	16.0	18.9	22.6	60
3/8PZ12490QZ13		9	19	20	3/8	7.2	10.1	12.4	14.3	16.0	18.9	22.6	90
3/8PZ124120QZ13		9	19	20	3/8	7.2	10.1	12.4	14.3	16.0	18.9	22.6	120
3/8PZ15545QZ13		9	19	20	3/8	8.9	12.7	15.5	17.9	20.0	23.7	28.3	45
3/8PZ15560QZ13		9	19	20	3/8	8.9	12.7	15.5	17.9	20.0	23.7	28.3	60
3/8PZ15590QZ13		9	19	20	3/8	8.9	12.7	15.5	17.9	20.0	23.7	28.3	90
3/8PZ155120QZ13		9	19	20	3/8	8.9	12.7	15.5	17.9	20.0	23.7	28.3	120
1/2PZ15545QZ13		10	27	26	1/2	8.9	12.6	15.5	17.9	20.0	23.7	28.3	45
1/2PZ15560QZ13		10	27	26	1/2	8.9	12.6	15.5	17.9	20.0	23.7	28.3	60
1/2PZ15590QZ13		10	27	26	1/2	8.9	12.6	15.5	17.9	20.0	23.7	28.3	90
1/2PZ155120QZ13		10	27	26	1/2	8.9	12.6	15.5	17.9	20.0	23.7	28.3	120
1/2PZ19445QZ13		10	27	26	1/2	11.2	15.8	19.4	22.4	25.0	29.6	35.4	45
1/2PZ19460QZ13		10	27	26	1/2	11.2	15.8	19.4	22.4	25.0	29.6	35.4	60
1/2PZ19490QZ13		10	27	26	1/2	11.2	15.8	19.4	22.4	25.0	29.6	35.4	90
1/2PZ194120QZ13		10	27	26	1/2	11.2	15.8	19.4	22.4	25.0	29.6	35.4	120
1/2PZ24845QZ13		10	27	26	1/2	14.3	20.2	24.8	28.6	32.0	37.9	45.3	45
1/2PZ24860QZ13		10	27	26	1/2	14.3	20.2	24.8	28.6	32.0	37.9	45.3	60
1/2PZ24890QZ13		10	27	26	1/2	14.3	20.2	24.8	28.6	32.0	37.9	45.3	90
1/2PZ248120QZ13		10	27	26	1/2	14.3	20.2	24.8	28.6	32.0	37.9	45.3	120
1/2PZ30945QZ13		10	27	26	1/2	17.9	25.3	30.9	35.8	40.0	47.3	56.6	45
1/2PZ30960QZ13		10	27	26	1/2	17.9	25.3	30.9	35.8	40.0	47.3	56.6	60
1/2PZ30990QZ13		10	27	26	1/2	17.9	25.3	30.9	35.8	40.0	47.3	56.6	90
1/2PZ309120QZ13		10	27	26	1/2	17.9	25.3	30.9	35.8	40.0	47.3	56.6	120
3/4PZ30945QZ13		12	32	28	3/4	17.9	25.3	30.9	35.8	40.0	47.3	56.6	45
3/4PZ30960QZ13		12	32	28	3/4	17.9	25.3	30.9	35.8	40.0	47.3	56.6	60
3/4PZ30990QZ13		12	32	28	3/4	17.9	25.3	30.9	35.8	40.0	47.3	56.6	90
3/4PZ309120QZ13		12	32	28	3/4	17.9	25.3	30.9	35.8	40.0	47.3	56.6	120
3/4PZ38745QZ13		12	32	28	3/4	22.4	31.6	38.7	44.7	50.0	59.2	70.7	45
3/4PZ38760QZ13		12	32	28	3/4	22.4	31.6	38.7	44.7	50.0	59.2	70.7	60
3/4PZ38790QZ13		12	32	28	3/4	22.4	31.6	38.7	44.7	50.0	59.2	70.7	90
3/4PZ387120QZ13		12	32	28	3/4	22.4	31.6	38.7	44.7	50.0	59.2	70.7	120
3/4PZ48845QZ13		12	32	28	3/4	28.2	39.8	48.8	56.3	63.0	74.5	89.1	45
3/4PZ48860QZ13		12	32	28	3/4	28.2	39.8	48.8	56.3	63.0	74.5	89.1	60
3/4PZ48890QZ13		12	32	28	3/4	28.2	39.8	48.8	56.3	63.0	74.5	89.1	90
3/4PZ488120QZ13		12	32	28	3/4	28.2	39.8	48.8	56.3	63.0	74.5	89.1	120

PZ series nozzle

产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)
		A	B	L	R	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.3
3/4PZ30545QZ13	HPb59-1 1Cr18Ni9Ti P.V.C	10	32	22	3/4	18	25	5	35.6	40	48	58	45
3/4PZ38545QZ13		10	32	22	3/4	22.5	31.5	38.5	44.7	50	60	72	45
3/4PZ49045QZ13		10	32	22	3/4	28	40	49	56.7	63	75	90	45
3/4PZ30560QZ13		10	32	22	3/4	18	25	30.5	35.6	40	48	58	60
3/4PZ38560QZ13		10	32	22	3/4	22.5	31.5	38.5	44.7	50	60	72	60
3/4PZ40060QZ13		10	32	22	3/4	28	40	49	56.7	63	75	90	60
3/4PZ30590QZ13		10	32	22	3/4	18	25	30.5	35.6	40	48	58	90
3/4PZ38590QZ13		10	32	22	3/4	22.5	31.5	38.5	44.7	50	60	72	90
3/4PZ49090QZ13		10	32	22	3/4	28	40	49	56.7	63	75	90	90
3/4PZ490120QZ13		11	32	38	3/4	28	40	49	56.7	63	75	90	120
1PZ61045QZ13		12	40	27	1	35	50	61	71	80	95	114	45
1PZ78045QZ13		12	40	27	1	45	63	78	90	100	120	145	45
1PZ61060QZ13		12	40	27	1	35	50	61	71	80	95	114	60
1PZ78060QZ13		12	40	27	1	45	63	78	90	100	120	145	60
1PZ61090QZ13		12	40	27	1	35	50	61	71	80	95	114	90
1PZ78090QZ13		12	40	27	1	45	63	78	90	100	120	145	90
1PZ780120QZ13		16	40	50	1	45	63	78	90	100	120	145	120
1 ¹ / ₄ PZ123045QZ13		14	50	30	1 ¹ / ₄	70	100	123	143	160	191	230	45
1 ¹ / ₄ PZ123060QZ13		14	50	30	1 ¹ / ₄	70	100	123	143	160	191	230	60
1 ¹ / ₄ PZ123090QZ13		14	50	30	1 ¹ / ₄	70	100	123	143	160	191	230	90
1 ¹ / ₄ PZ1230120QZ13		19	50	62	1 ¹ / ₄	70	100	123	143	160	191	230	120
1 ¹ / ₂ PZ194045QZ13		14	60	35	1 ¹ / ₂	112	160	194	224	250	299	360	45
1 ¹ / ₂ PZ194060QZ13		14	60	35	1 ¹ / ₂	112	160	194	224	250	299	360	60
1 ¹ / ₂ PZ194090QZ13		14	60	35	1 ¹ / ₂	112	160	194	224	250	299	360	90
1 ¹ / ₂ PZ1940120QZ13		21	50	76	1 ¹ / ₂	112	160	194	224	250	299	360	120



PZ series nozzle

产品型号 Model	材 质 Material	外形尺寸 Outline size				MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)
		A	B	L	R	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.3
2PZ310045QZ13	HPb59-1 1Cr18Ni9Ti P.V.C	18	75	44	2	180	250	310	358	400	475	570	45
2PZ386045QZ13		18	75	44	2	223	315	386	446	498	589	704	45
2PZ310060QZ13		18	75	44	2	180	250	310	358	400	475	570	60
2PZ386060QZ13		18	75	44	2	223	315	386	446	498	489	704	60
2PZ310090QZ13		18	75	44	2	180	250	310	358	400	475	570	90
2PZ386090QZ13		18	75	44	2	223	315	386	446	498	489	704	90
2PZ3100120QZ13		24	60	98	2	180	250	310	358	400	475	570	120
2PZ3860120QZ13		24	60	98	2	223	315	386	446	498	489	704	120
2 ¹ / ₂ PZ490045QZ13		22	90	52	2 ¹ / ₂	280	400	490	566	630	751	900	45
2 ¹ / ₂ PZ610045QZ13		22	90	52	2 ¹ / ₂	350	500	610	705	790	935	1120	45
2 ¹ / ₂ PZ490060QZ13		22	90	52	2 ¹ / ₂	280	400	490	566	630	751	900	60
2 ¹ / ₂ PZ610060QZ13		22	90	52	2 ¹ / ₂	350	500	610	705	790	935	1120	60
2 ¹ / ₂ PZ490090QZ13		22	90	52	2 ¹ / ₂	280	400	490	566	630	751	900	90
2 ¹ / ₂ PZ610090QZ13		22	90	52	2 ¹ / ₂	350	500	610	705	790	935	1120	90
2 ¹ / ₂ PZ4900120QZ13		27	75	123	2 ¹ / ₂	280	400	490	566	630	751	900	120
2 ¹ / ₂ PZ6100120QZ13		27	75	123	2 ¹ / ₂	350	500	610	705	790	935	1120	120
3PZ775045QZ13		24	105	60	3	446	630	775	897	1000	1194	1430	45
3PZ775060QZ13		24	105	60	3	446	630	775	897	1000	1194	1430	60
3PZ775090QZ13		24	105	60	3	446	630	775	897	1000	1194	1430	90
3PZ7750120QZ13		30	85	150	3	446	630	775	897	1000	1194	1430	120
3 ¹ / ₂ PZ940045QZ13		26	120	65	3 ¹ / ₂	610	800	940	1055	1150	1318	1520	45
3 ¹ / ₂ PZ1180045QZ13		26	120	65	3 ¹ / ₂	760	1000	1180	1320	1440	1641	1900	45
3 ¹ / ₂ PZ940060QZ13		26	120	65	3 ¹ / ₂	610	800	940	1055	1150	1318	1520	60
3 ¹ / ₂ PZ1180060QZ13		26	120	65	3 ¹ / ₂	760	1000	1180	1320	1440	1641	1900	60
3 ¹ / ₂ PZ940090QZ13		26	120	65	3 ¹ / ₂	610	800	940	1055	1150	1318	1520	90
3 ¹ / ₂ PZ1180090QZ13		26	120	65	3 ¹ / ₂	760	1000	1180	1320	1440	1641	1900	90
3 ¹ / ₂ PZ9400120QZ13		32	100	156	3 ¹ / ₂	610	800	940	1055	1150	1381	1520	120
3 ¹ / ₂ PZ11800120QZ13		32	100	156	3 ¹ / ₂	760	1000	1180	1320	1440	1641	1900	120
4PZ1470045QZ13		40	135	90	4	940	1250	1470	1650	1800	2062	2380	45
4PZ1470060QZ13		40	135	90	4	940	1250	1470	1650	1800	2062	2380	60
4PZ1470090QZ13		40	135	90	4	940	1250	1470	1650	1800	2062	2380	90
4PZ14700120QZ13		36	110	165	4	940	1250	1470	1650	1800	2062	2380	120

Chinese nozzle manufacture base

PZ series nozzle

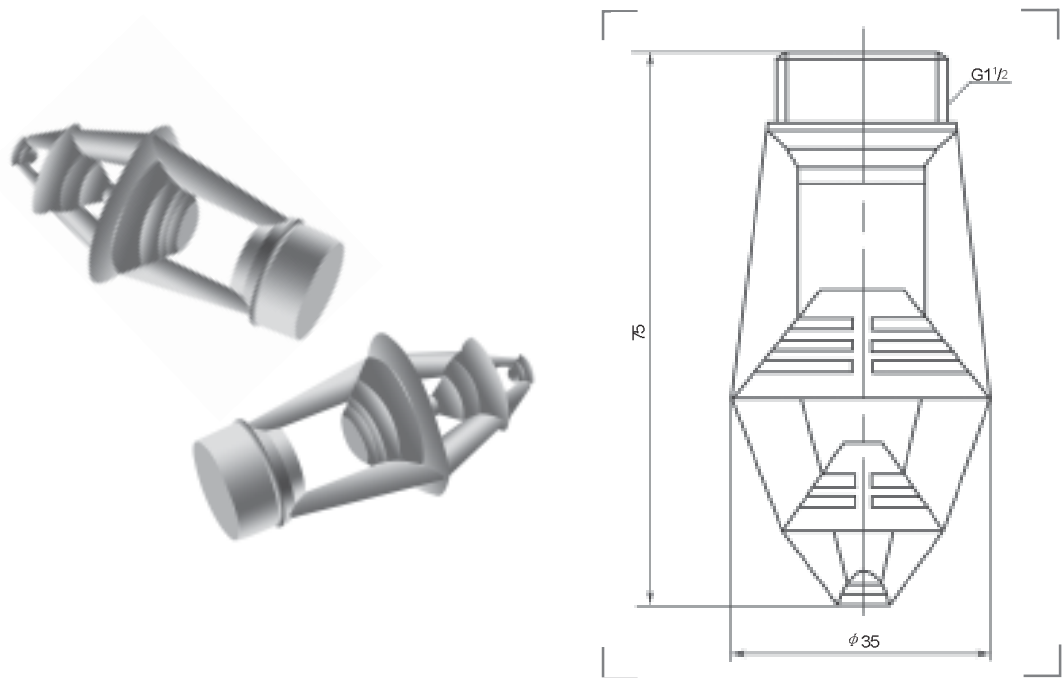
喷雾特性及用途:

该喷嘴垂直安装于冷却塔或洗涤塔的管道架上，用于冷却除尘。在既定的工作压力下，喷嘴流量及喷射角稳定，具有良好的防堵、防蚀功能，可减、免检修，使用寿命长。

该喷嘴用更换内部调节环的方式来满足用户在使用压力下的流量要求。

Spray Feature and Application:

The nozzle is installed on the pipe-rack of cooling tower or wash-over string vertically for cooling dedusting. Under the rated working pressure, the flow of nozzle and the spray angle are stable, which has the good functions of preventing blocking up and anticorrosion and can reduce or avoid repair, so the service life is long. The nozzle meets users' requirements for flow under the service pressure in the manner of replacing inner regulating ring.



性能参数 (Performance parameters):

工作压力 (Mpa) Work press(Mpa)	0.15	0.1	0.2	0.3
流量范围 (L/min) Flow range(L/min)	70~360	110~500	145~700	180~860
喷射角 (°) Spray angle (degree)	95° ~ 110°	100 ~ 115°	110° ~ 120°	110° ~ 120°

注：如用户对性能参数和结构尺寸有特殊要求时，请与我公司联系，以便按特殊要求内容设计、制造。

Note: If users have special requirements for the performance parameters, structure and size, please contact us. With this we would be able to design and manufacture according to the special demand.

PZ series nozzle

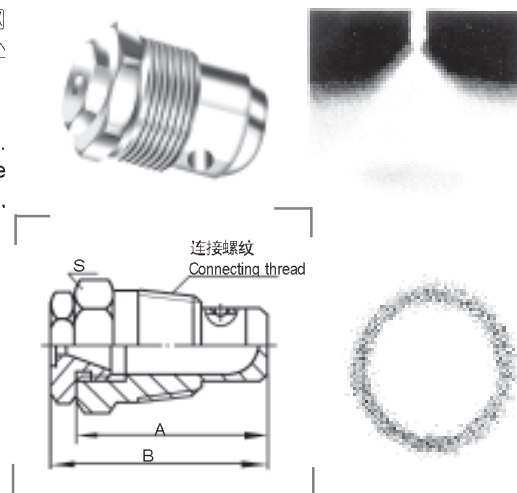
喷雾特性及用途:

该喷嘴结构简单，喷雾均匀，使用方便；主要适用于炼钢厂小方坯连铸机的二次冷却，也可用于气体的清洗，冷却水处理，产品去污、喷湿、海水喷洒等。

Spray Feature and Application:

The nozzle is marked with simple structure, even spray and easy operation. It is mainly suitable for secondary cooling in billet continuous casting machine in steel works, and can be also used for air cleaning, cooling water treatment, product-deoiling, wet spray, sea water spray, etc.

连接螺纹 Connecting thread	A	B	S
R3/8	28	31	17
R1/2	33	37	22
R3/4	38	44	27
R1 1/2	60	67	50
材质 Material	HPb59-1 1Cr18Ni9Ti		



产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)		
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.15	0.3	0.6
3/8PZ3280KZ1	2.0	2.7	3.2	3.6	4	4.7	5.5	74	80	84
3/8PZ3680KZ1	2.2	3	3.6	4.1	4.5	5.3	6.2	74	80	84
3/8PZ2340KZ1	1.4	1.9	2.3	2.7	3.0	3.6	4.2	35	40	43
3/8PZ1667KZ1	0.91	1.3	1.6	1.8	2.0	2.4	2.9	60	67	70
3/8PZ2371KZ1	1.4	1.9	2.3	2.7	3.0	3.6	4.2	64	71	77
3/8PZ3970KZ1	2.3	3.2	3.9	4.5	5.1	6.0	7.1	67	70	76
3/8PZ6368KZ1	3.6	5.1	6.3	7.2	8.1	9.6	11.5	65	68	70
3/8PZ6375KZ1	3.6	5.1	6.3	7.2	8.1	9.6	11.5	68	75	79
3/8PZ6388KZ1	3.6	5.1	6.3	7.2	8.1	9.6	11.5	80	88	92
3/8PZ6395KZ1	3.6	5.1	6.3	7.2	8.1	9.6	11.5	88	95	99
3/8PZ7868KZ1	4.5	6.4	7.8	9.0	10.1	12.0	14.2	65	68	72
1/2PZ3976KZ1	2.3	3.2	3.9	4.5	5.1	6.0	7.1	73	76	79
1/2PZ6371KZ1	3.6	5.1	6.3	7.2	8.1	9.6	11.5	69	71	73
1/2PZ7872KZ1	4.5	6.4	7.8	9.0	10.1	12.0	14.2	70	72	74
1/2PZ11768KZ1	6.8	9.6	11.7	13.6	15.2	17.9	21.4	67	68	70
1/2PZ15767KZ1	9.0	12.8	15.7	18.1	20	24	28.7	65	67	69
1/2PZ19666KZ1	11.3	16.0	19.6	23	25	30	35.8	63	66	68
3/4PZ3976KZ1	2.3	3.2	3.9	4.5	5.1	6.0	7.1	73	76	79
3/4PZ6372KZ1	3.6	5.1	6.3	7.2	8.1	9.6	11.5	70	72	74
3/4PZ7874KZ1	4.5	6.4	7.8	9.0	10.1	12.0	14.2	72	74	75
3/4PZ11773KZ1	6.8	9.6	11.7	13.6	15.2	17.9	21.4	72	73	74
3/4PZ15772KZ1	9.0	12.8	15.7	18.1	20	24	28.7	70	72	74
3/4PZ19672KZ1	11.3	16.0	19.6	23	25	30	35.8	70	72	74
1 1/2PZ31074KZ1	18.1	26	31	36	40	48	56.6	73	74	74
1 1/2PZ39076KZ1	23	32	39	45	51	60	71	75	76	77
1 1/2PZ47078KZ1	27	38	47	54	61	72	86	76	78	79
1 1/2PZ55081KZ1	32	45	55	63	71	84	100	79	81	83
1 1/2PZ63083KZ1	36	51	63	72	81	96	115	82	83	84
1 1/2PZ70084KZ1	41	57	70	81	91	108	128	84	84	84
1 1/2PZ78086KZ1	45	64	78	90	101	120	142	86	86	86
1 1/2PZ86088KZ1	50	70	86	99	111	132	157	88	88	88
1 1/2PZ94090KZ1	54	77	94	109	121	144	172	90	90	90

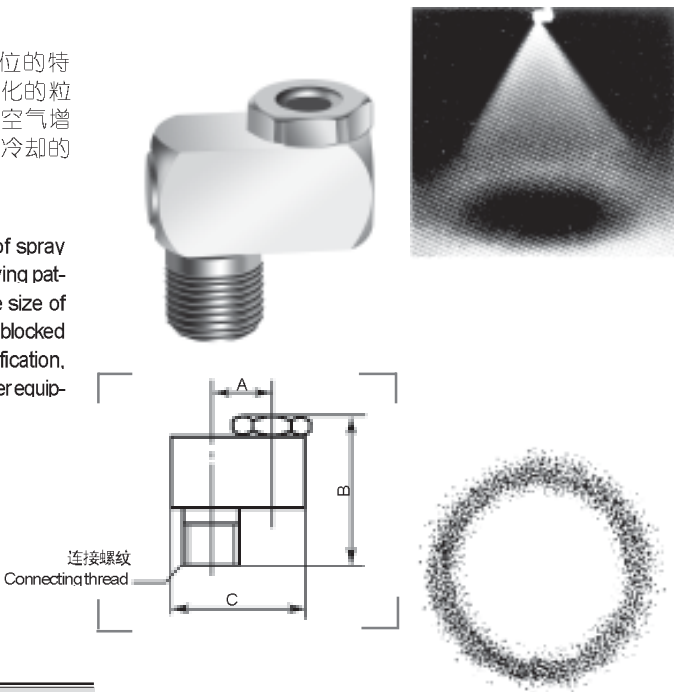
PZ series nozzle

喷雾特性及用途:

该喷嘴具有喷射中心与进口轴线错位的特点，其喷淋形式为锥形空心圆环状，雾化的粒度较小，不易堵塞，主要应用于除尘、空气增湿，产品去污，硫的燃烧，以及其它需冷却的设备中。

Spray Feature and Application:

The nozzle has the feature of the center of spray being of transposition with inlet shaft line. Its spraying pattern is the shape of cone hollow round ring. The size of atomized drops are smaller, which isn't easy to be blocked up. It is mainly used for dust-removing, air humidification, product decontamination, burning of sulphur and other equipment needing cooling.



连接螺纹 Connecting thread	A	B	C
R3/8	16.5	40	38
R1/2	25.5	51	58
材质 Material	HPb59-1 1Cr18Ni9Ti		

产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)		
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.15	0.3	0.6
3/8PZ2371KZ2	1.4	1.9	2.3	2.7	3.0	3.6	4.2	64	71	77
3/8PZ3977KZ2	2.3	3.2	3.9	4.5	5.1	6.0	7.1	73	77	79
3/8PZ6372KZ2	3.6	5.1	6.3	7.2	8.1	9.6	11.5	70	72	74
3/8PZ7874KZ2	4.5	6.4	7.8	9.0	10.1	12.0	14.2	72	74	75
3/8PZ11773KZ2	6.8	9.6	11.7	13.6	15.2	17.9	21.4	72	73	74
3/8PZ15772KZ2	9.0	12.8	15.7	18.1	20	24	29	70	72	74
3/8PZ19672KZ2	11.3	16.0	19.6	23	25	30	36	70	72	74
1/2PZ19669KZ2	11.3	16.0	19.6	23	25	30	36	66	69	71
1/2PZ23073KZ2	13.5	19.2	23	27	30	36	42	71	73	75
1/2PZ31077KZ2	18.1	26	31	36	40	48	57	76	77	78
1/2PZ39081KZ2	23	32	39	45	51	60	71	79	81	82
1/2PZ47084KZ2	27	38	47	54	61	72	86	82	84	86

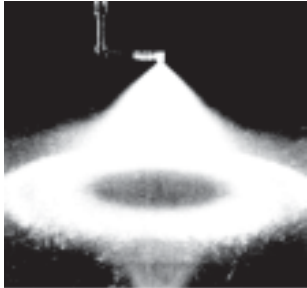
PZ series nozzle

喷雾特性及用途:

该系列喷嘴结构新颖，喷雾形状为空心锥形圆环状，喷射角度为 $40^{\circ} \sim 90^{\circ}$ ，它具有在不等的压力下均能达到同等大小液滴的喷雾，因为该喷嘴为无芯结构，内腔通畅，所以喷嘴不易堵塞；该产品主要应用于气体及空气除尘和其它燃烧产物；产品的去污以及需冷却的设备中。

Spray Feature and Application:

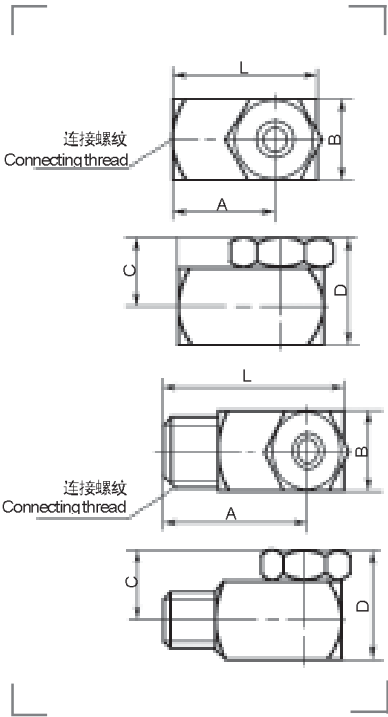
Nozzles of this series are novel in structure. The spraying pattern is the shape of hollow cone round ring. The spray angle is $40^{\circ} \sim 90^{\circ}$. Its spray can get the same drop under different pressures. As the nozzle has the structure without core and the internal cavity is unobstructed, the nozzle isn't easy to be blocked up. The product is mainly used for removing flying dust and other burning material in gas and air, for product decontamination and some equipment needing cooling.



KZ3 型



KZ4 型



连接螺纹 Connecting thread	A	B	C	D	L	材质 Material
RC1/8	17.5	16.0	12.0	20.0	25.5	HPb59-1 1Cr18Ni9Ti
RC1/4	22.5	19.0	13.5	23.0	32.0	
RC3/8	26.5	22.5	17.5	28.5	37.5	
RC1/2	35.0	28.5	21.5	36.0	49.5	
RC3/4	40.0	32.0	24.0	40.0	55.5	
R1/8	22.5	16.0	12.0	20.0	30.5	
R1/4	25.5	19.0	13.5	23.0	35.0	
R3/8	28.5	22.5	17.5	28.5	40.0	
R1/2	35.0	28.5	21.5	36.0	49.5	
R3/4	41.5	32.0	24.0	40.0	57.5	

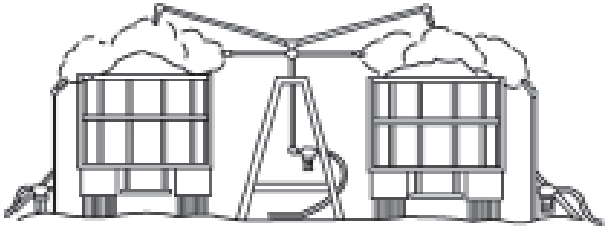
可供附件 Accessories available



拼合孔连接器
Connector for split hole



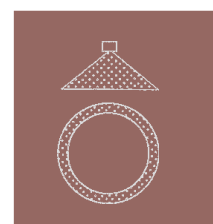
可调球形接头
Adjustable globular connector



除尘控制
Dedusting control

PZ series nozzle

产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							喷射角(°) Spray angle (degree)		
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.15	0.3	0.6
1/4PZ3280KZ3	1.8	2.6	3.2	3.7	4.1	4.9	5.8	74	80	84
1/8PZ1667KZ3	0.91	1.3	1.6	1.8	2.0	2.4	2.9	61	67	69
1/8PZ2471KZ3	1.4	1.9	2.4	2.7	3.1	3.6	4.4	64	71	77
1/8PZ3970KZ3	2.3	3.2	3.9	4.6	5.1	6.0	7.1	67	70	76
1/8PZ6368KZ3	3.6	5.2	6.3	7.3	8.2	9.6	11.5	65	68	70
1/8PZ7969KZ3	4.6	6.4	7.9	9.1	10.2	12.1	14.4	65	69	72
1/4PZ1668KZ3	0.91	1.3	1.6	1.8	2.0	2.4	2.9	62	68	71
1/4PZ2475KZ3	1.4	1.9	2.4	2.7	3.1	3.6	4.4	65	75	78
1/4PZ3976KZ3	2.3	3.2	3.9	4.6	5.1	6.0	7.1	73	76	79
1/4PZ6371KZ3	3.6	5.2	6.3	7.3	8.2	9.6	11.5	69	71	73
1/4PZ7972KZ3	4.6	6.4	7.9	9.1	10.2	12.1	14.4	70	72	74
1/4PZ11872KZ3	6.8	9.7	11.8	13.7	15.3	18.1	21.5	71	72	72
3/8PZ3976KZ3	2.3	3.2	3.9	4.6	5.1	6.0	7.1	73	76	79
3/8PZ6372KZ3	3.6	5.2	6.3	7.3	8.2	9.6	11.5	70	72	74
3/8PZ7973KZ3	4.6	6.4	7.9	9.1	10.2	12.1	14.4	72	73	75
3/8PZ11873KZ3	6.8	9.7	11.8	13.7	15.3	18.1	21.5	72	73	74
3/8PZ15872KZ3	9.1	12.9	15.8	18.2	20	24	28.8	70	72	74
3/8PZ19772KZ3	11.4	16.1	19.7	23	25	30	36	70	72	74
3/8PZ24072KZ3	13.7	19.3	24	27	31	36	43.8	70	72	74
1/2PZ19769KZ3	11.4	16.1	19.7	23	25	30	36	66	69	71
1/2PZ24073KZ3	13.7	19.3	24	27	31	36	43.8	71	73	75
1/2PZ32077KZ3	18.2	26	32	36	41	48	58	76	77	78
1/2PZ39081KZ3	23	32	39	46	51	60	71	79	81	82
1/2PZ47084KZ3	27	39	47	55	61	72	86	82	84	86
3/4PZ32074KZ3	18.2	26	32	36	41	48	58	73	74	74
3/4PZ39076KZ3	23	32	39	46	51	60	71	75	76	77
3/4PZ47078KZ3	27	39	47	55	61	72	86	76	78	79
3/4PZ55081KZ3	32	45	55	64	71	84	100	79	81	83
3/4PZ63083KZ3	36	52	63	73	82	96	115	82	83	84
3/4PZ71084KZ3	41	58	71	82	92	109	130	84	84	84
3/4PZ79086KZ3	46	64	79	91	102	121	144	86	86	86
3/4PZ87088KZ3	50	71	87	100	112	133	159	88	88	88
3/4PZ95090KZ3	55	77	95	109	122	145	173	90	90	90



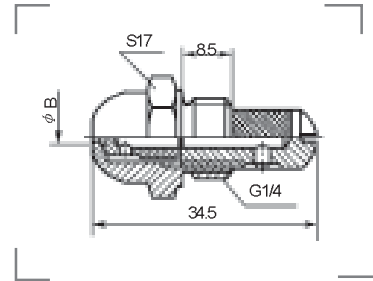
PZ series nozzle

喷雾特性及用途:

此类型喷嘴为微量喷雾喷嘴，它具有独特的喷雾结构，当喷射流量较小时，也能够保持极细的雾滴均匀喷洒，主要应用于空气加湿，产品消毒、清洗、冷却。也可应用于喷油润滑设备中。

Spray Feature and Application:

The nozzle has a special structure. It has the hollow cone spray pattern with fine drop. Fine drops can still be ensured even when the flux is lower. It is mainly used for disinfection, humidification of air, washing and cooling, and can also be used in oil-sprayed lubrication.



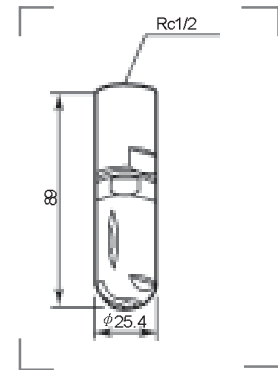
产品型号 Model	材质 Material	B (mm)	MPa 压力下的流量(L/h) Flow at MPa pressure(L/h)						喷射角(°) Spray angle (degree)	
			0.2	0.3	0.5	0.7	1.0	2.0	0.3	0.7
1/4PZ03180KZ5	HPb59-1 1Cr18Ni9Ti	0.25	1.53	1.87	2.4	2.82	3.42	4.8	80	65
1/4PZ04880KZ5		0.35	2.35	2.88	3.72	4.2	5.28	7.44	80	65
1/4PZ06380KZ5		0.4	3.09	3.78	4.92	5.82	6.96	9.84	80	65
1/4PZ08080KZ5		0.45	3.92	4.8	6.18	7.32	8.76	12.36	80	65
1/4PZ10180KZ5		0.5	4.95	6.06	7.8	9.24	11.04	15.6	80	65
1/4PZ13180KZ5		0.6	6.42	7.86	10.08	11.94	14.28	20.16	80	65
1/4PZ20280KZ5		0.7	9.97	12.12	15.66	18.6	22.2	31.32	80	65
1/4PZ32080KZ5		0.9	15.72	19.2	23.4	27.6	33	46.2	80	65

喷雾特性及用途:

该喷嘴结构紧凑，具有2-3个喷口处于喷头的特殊位置，工作时喷头可自动旋转；喷嘴主体采用耐腐蚀不锈钢，轴承采用硬化不锈钢，以达到最大耐磨效果，主要用于小桶及罐子的清洗。

Spray Feature and Application:

The nozzle has a compact structure. There are 2 or 3 apertures in the nozzle body. The nozzle can rotate automatically when working. The body of the nozzle is made of stainless steel and the bearing is made of rigid stainless steel for the purpose of extending service life. It is mainly used for washing tanks and barrels.



产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)							
	0.15	0.3	0.4	0.5	0.6	0.8	1.0	1.2
1/2PZ197-2XZ	14.0	19.7	23	25	28	32	36	39
1/2PZ320-2XZ	22	32	36	41	45	52	58	63
1/2PZ220-3XZ	15.9	22	26	29	32	37	41	45
1/2PZ280-3XZ	19.5	28	32	36	39	45	50	55
1/2PZ390-3XZ	28	39	46	51	56	64	72	79

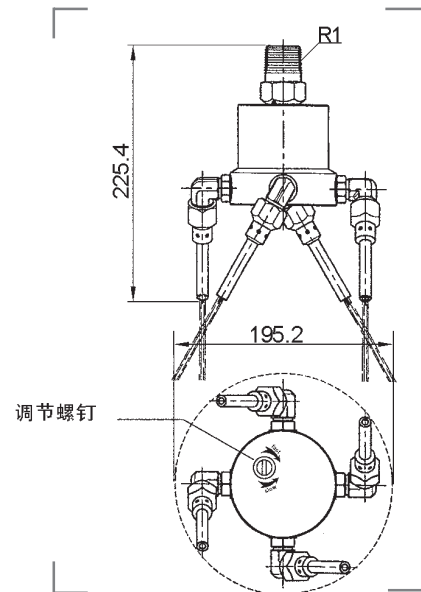
PZ series nozzle

喷雾特性及用途:

该喷嘴为最新专利产品,专利号:ZL02 2 93075.2,结构独特,由数只(一般为4只)空化线型喷头与旋转座连接组成,改变喷头定位角度(一般为60°-180°)实现相应的雾场角度。在喷射过程中,旋转座与喷头喷出的水雾的反作用力下产生自转。喷嘴内部具备液压阻尼调节系统,在一定范围内对自转进行无级调速,改变清洗力度。因此,该喷嘴喷射角度范围大、冲击大、喷射距离远、水量环形分布均匀,是其他结构喷嘴无法相比的。其用途主要用于清洗业。

Spray Feature and Application:

The nozzle is the latest patented product (patent No. ZL02 2 93075.2). It has a unique structure. It consists of several linear shower nozzles (usually 4) and a base. By changing the angle of the shower nozzles (usually between 60° and 180°), the spraying angle may be changed. During the spraying process, the turning base will rotate under the counterforce of the water spray from the shower nozzle. Inside the nozzle, there is hydraulic damp adjustment system, which may make stepless adjustment to the rotating speed within a certain range so as to change the intensity of washing. Therefore, this nozzle is characterized with wide spray range, strong impact and long spraying distance and averaged distribution of water in ring shape. It is an incomparable nozzle if given the nozzles of some other structures. This nozzle is mainly used for the purpose of washing.

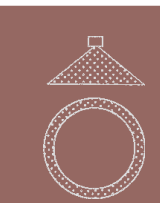


FOUR SOLID STREAM NOZZLES
ADJUSTABLE VARIABLE SPEED ROTATION
CLOCKWISE ROTATION
ALUMINUM AND STAINLESS STEEL CONSTRUCTION
LARGE FLOW
HIGH IMPACT

VEHICLE WASHING:
-PRE-WASH /WETTING ARCHES
-ARCHES RINSING
-TRACTOR TRAILER WASHING
-TRAIN AND BUS WASHING
EXTERIOR CLEANING
-LARGE SURFACE CLEANING
-HIGH VOLUME RINSING

CAPACITY - 11.8 GPM 350 PSI [44.7 l/min 23.8 bar]
RECOMMENDED SPRAYING PRESSURE - 250-350 PSI [17.2-24.1 bar]
RECOMMENDED SPRAY HEIGHT - 12-30 IN. [305-762 mm]
RECOMMENDED PUMP SIZE: CENTRIFUGAL PUMP; 10-14 GPM AT 250-330 PSI [37.9-53.0 l/min AT 17.2-22.8 bar]
SPRAY ANGLE - 60°
SPRAY PATTERN - HOLLOW CONE
WEIGHT - 6.25 LBS. [2.8 kg]
INLET SIZE - 1" N.P.T.(M) THREAD
ROTATION SPEED - MAXIMUM 300 R.P.M.
MINIMUM 100 R.P.M.

VARIABLE SPEED DEPENDING ON NOZZLE POSITION
AND ADJUSTMENT OF SPEED CONTROL SCREW.



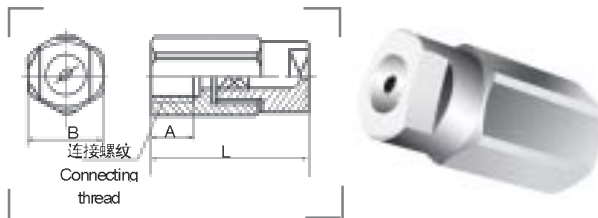
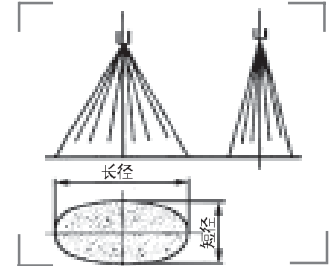
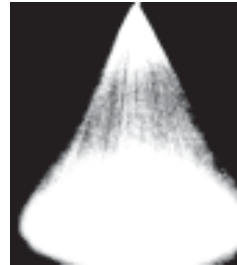
PZ series nozzle

喷雾特性及用途:

该喷嘴结构新颖，体内装有活动轴流式喷嘴芯，它的喷雾形状为椭圆状，其长径与短径之比为1.7:1，雾化均匀，性能可靠；主要用于大板坯连铸机二次冷却，结晶器底足辊处，支承导向段板坯的宽面，也可用于设备的清洗及冷却。

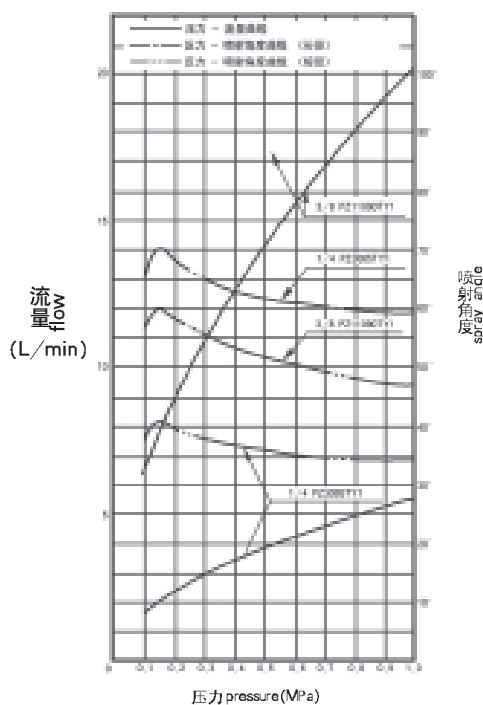
Spray Feature and Application:

The nozzle is of a new structure. There is a movable spinning core in the body. Its spray pattern is of ellipse. Its ratio of major axis and minor axis is 1.7:1 with even atomization and reliable performance. It is mainly used for the secondary cooling of continuous casting machine for large slab, i.e. at bottom foot roller of mold and wide face of mold of supporting guide section. It can be also used for cleaning and cooling of equipment.



连接螺纹 Connecting thread	A	B	L
Rc1/4	10	19	38
Rc3/8	11	22	45
Rc1/2	13	28	60
Rc3/4	15	32	68
材质 Material	HPb59-1 1Cr18Ni9Ti		

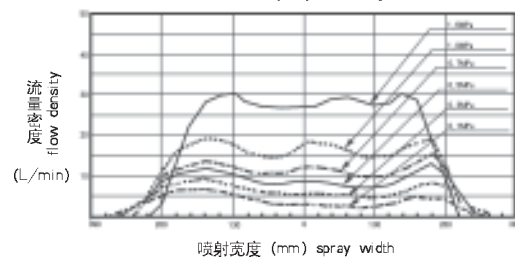
喷嘴型号 nozzle model: 1/4PZ3065TY1 3/8PZ11090TY1



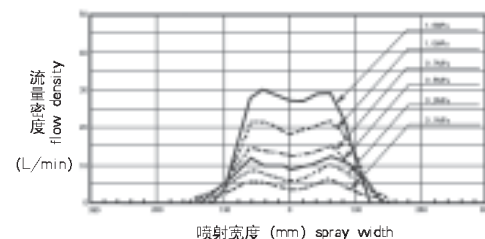
流量、喷射角、压力特性曲线
Flow, spray angle and pressure characteristic curve

喷嘴型号 nozzle model: 3/8PZ11090TY1
喷射距离 spray distance: 300mm

喷射长径方向
Direction of spray in major axis



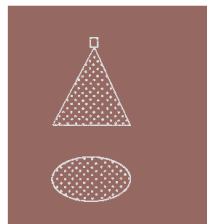
喷射短径方向
Direction of spray in major axis



各压力下水量分面测定
Water distribution under various pressures

PZ series nozzle

产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)							0.3MPa 时 (长径) 喷射角 (°) spray angle at 0.3MPa (major axis)
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	
1/4PZ3065TY1	1.73	2.4	3.0	3.4	3.9	4.6	5.5	65
1/4PZ2075TY1	1.15	1.63	2.0	2.3	2.6	3.1	3.7	75
1/4PZ3075TY1	1.73	2.4	3.0	3.4	3.9	4.6	5.5	75
1/4PZ4375TY1	2.5	3.5	4.3	5.0	5.6	6.6	7.9	75
3/8PZ3575TY1	2.0	2.9	3.5	4.0	4.5	5.3	6.4	75
3/8PZ3875TY1	2.2	3.1	3.8	4.4	4.9	5.8	6.9	75
3/8PZ4075TY1	2.3	3.2	4.0	4.6	5.2	6.1	7.3	75
3/8PZ4375TY1	2.5	3.5	4.3	5.0	5.6	6.6	7.9	75
3/8PZ5075TY1	2.9	4.1	5.0	5.8	6.5	7.6	9.1	75
3/8PZ6075TY1	3.5	4.9	6.0	6.9	7.7	9.2	11	75
3/8PZ7075TY1	4.0	5.7	7.0	8.1	9.0	10.7	12.8	75
3/8PZ7975TY1	4.5	6.4	7.9	9.1	10.2	12.1	14.4	75
3/8PZ8075TY1	4.6	6.5	8.0	9.2	10.3	12.2	14.6	75
3/8PZ9075TY1	5.2	7.3	9.0	10.4	11.6	13.7	16.4	75
3/8PZ9575TY1	5.5	7.8	9.5	11.0	12.3	14.5	17.3	75
3/8PZ10075TY1	5.8	8.2	10.0	11.5	12.9	15.3	18.3	75
3/8PZ11075TY1	6.4	9.0	11.0	12.7	14.2	16.8	20	75
3/8PZ12075TY1	6.9	9.8	12.0	13.9	15.5	18.3	21.9	75
3/8PZ15075TY1	8.7	12.2	15.0	17.3	19.4	22.9	27.4	75
3/8PZ3090TY1	1.73	2.4	3.0	3.4	3.9	4.6	5.5	90
3/8PZ4090TY1	2.3	3.2	4.0	4.6	5.2	6.1	7.3	90
3/8PZ5090TY1	2.9	4.1	5.0	5.8	6.5	7.6	9.1	90
3/8PZ6090TY1	3.5	4.9	6.0	6.9	7.7	9.2	11	90
3/8PZ7090TY1	4.0	5.7	7.0	8.1	9.0	10.7	12.8	90
3/8PZ8090TY1	4.6	6.5	8.0	9.2	10.3	12.2	14.6	90
3/8PZ11090TY1	6.4	9.0	11.0	12.7	14.2	16.8	20	90
1/2PZ18090TY1	10.4	14.7	18.0	20.8	23.2	27.5	32.9	90
1/2PZ20090TY1	11.5	16.3	20.0	23.1	25.8	30.6	36.5	90
1/2PZ22090TY1	12.7	17.9	22.0	25.4	28.4	33.6	40.2	90
1/2PZ26090TY1	15.0	21.2	26.0	30.0	33.6	39.7	47.5	90
1/2PZ28090TY1	16.2	22.9	28.0	32.3	36.1	42.8	51.1	90
3/8PZ3395TY1	1.9	2.7	3.3	3.8	4.3	5.0	6.0	95
3/8PZ3595TY1	2.0	2.9	3.5	4.0	4.5	5.3	6.4	95
3/8PZ4095TY1	2.3	3.2	4.0	4.6	5.2	6.1	7.3	95
3/8PZ4395TY1	2.5	3.5	4.3	5.0	5.6	6.6	7.9	95
3/8PZ160105TY1	9.2	13.1	16.0	18.5	20.7	24.4	29.2	105
1/2PZ180105TY1	10.4	14.7	18.0	20.8	23.2	27.5	32.9	105
1/2PZ200105TY1	11.5	16.3	20.0	23.1	25.8	30.6	36.5	105
1/2PZ220105TY1	12.7	17.9	22.0	25.4	28.4	33.6	40.2	105
1/2PZ240105TY1	13.8	19.6	24.0	27.7	31.0	36.7	43.8	105



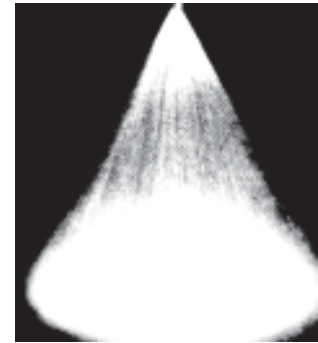
PZ series nozzle

喷雾特性及用途:

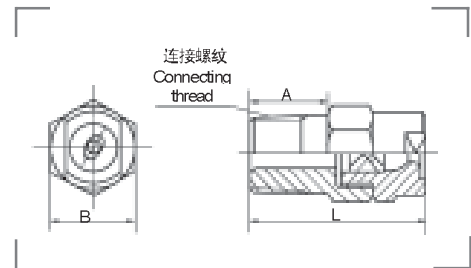
该喷嘴结构紧凑，喷雾形状为椭圆形状，其长径与短径之比为1.7:1，分布均匀，性能良好；主要用于小方坯连铸、浇铸特殊钢种，也可用于矿山消烟、空气加湿，以及其它方面喷淋冷却。

Spray Feature and Application:

The nozzle is compact in structure. The spray pattern is in the shape of ellipse. Its ratio of major axis and minor axis is 1.7:1. It is well-distributed and has a good performance. It is mainly used for billet continuous casting machine, special steel casting as well as dispersing smog in mine, increasing the air humidity and spray cooling-off in other respects.



连接螺纹 Connecting thread	A	B	L
R1/4	10	19	38
R3/8	11	22	45
R1/2	13	28	60
R3/4	15	32	68
材质 Material	HPb59-1 1Cr18Ni9Ti		



产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)							0.3 MPa时(长径) 喷射角(°) Spray angle at 0.3MPa (major axis)
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	
1/4PZ2065TY2	1.15	1.63	2.0	2.3	2.6	3.1	3.7	65
1/4PZ2075TY2	1.15	1.63	2.0	2.3	2.6	3.1	3.7	75
1/4PZ2090TY2	1.15	1.63	2.0	2.3	2.6	3.1	3.7	90
1/4PZ2565TY2	1.44	2.0	2.5	2.9	3.2	3.8	4.6	65
1/4PZ2575TY2	1.44	2.0	2.5	2.9	3.2	3.8	4.6	75
1/4PZ2590TY2	1.44	2.0	2.5	2.9	3.2	3.8	4.6	90
1/4PZ3065TY2	1.73	2.4	3.0	3.4	3.9	4.6	5.5	65
1/4PZ3075TY2	1.73	2.4	3.0	3.4	3.9	4.6	5.5	75
1/4PZ3090TY2	1.73	2.4	3.0	3.4	3.9	4.6	5.5	90
1/4PZ3565TY2	2.0	2.9	3.5	4.0	4.5	5.3	6.4	65
1/4PZ3575TY2	2.0	2.9	3.5	4.0	4.5	5.3	6.4	75
1/4PZ3590TY2	2.0	2.9	3.5	4.0	4.5	5.3	6.4	90
1/4PZ4065TY2	2.3	3.2	4.0	4.6	5.2	6.1	7.3	65
1/4PZ4075TY2	2.3	3.2	4.0	4.6	5.2	6.1	7.3	75
1/4PZ4090TY2	2.3	3.2	4.0	4.6	5.2	6.1	7.3	90
1/4PZ5065TY2	2.9	4.1	5.0	5.8	6.5	7.6	9.1	65
1/4PZ5075TY2	2.9	4.1	5.0	5.8	6.5	7.6	9.1	75
1/4PZ5090TY2	2.9	4.1	5.0	5.8	6.5	7.6	9.1	90
1/4PZ6065TY2	3.5	4.9	6.0	6.9	7.7	9.2	10.9	65
1/4PZ6075TY2	3.5	4.9	6.0	6.9	7.7	9.2	10.9	75
1/4PZ6090TY2	3.5	4.9	6.0	6.9	7.7	9.2	10.9	90

PZ series nozzle

产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)							0.3MP 时(长径) 喷射角(°) Spray angle at 0.3MPa(major axis)
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	
3/8PZ7065TY2	4.0	5.7	7.0	8.1	9.0	10.7	12.8	65
3/8PZ7075TY2	4.0	5.7	7.0	8.1	9.0	10.7	12.8	75
3/8PZ7090TY2	4.0	5.7	7.0	8.1	9.0	10.7	12.8	90
3/8PZ8065TY2	4.6	6.5	8.0	9.2	10.3	12.2	14.6	65
3/8PZ8075TY2	4.6	6.5	8.0	9.2	10.3	12.2	14.6	75
3/8PZ8090TY2	4.6	6.5	8.0	9.2	10.3	12.2	14.6	90
3/8PZ9065TY2	5.2	7.3	9.0	10.4	11.6	13.7	16.4	65
3/8PZ9075TY2	5.2	7.3	9.0	10.4	11.6	13.7	16.4	75
3/8PZ9090TY2	5.2	7.3	9.0	10.4	11.6	13.7	16.4	90
3/8PZ10065TY2	5.8	8.2	10.0	11.5	12.9	15.3	18.3	65
3/8PZ10075TY2	5.8	8.2	10.0	11.5	12.9	15.3	18.3	75
3/8PZ10090TY2	5.8	8.2	10.0	11.5	12.9	15.3	18.3	90
3/8PZ11065TY2	6.4	9.0	11.0	12.7	14.2	16.8	20.1	65
3/8PZ11075TY2	6.4	9.0	11.0	12.7	14.2	16.8	20.1	75
3/8PZ11090TY2	6.4	9.0	11.0	12.7	14.2	16.8	20.1	90
3/8PZ12065TY2	6.9	9.8	12.0	13.9	15.5	18.3	21.9	65
3/8PZ12075TY2	6.9	9.8	12.0	13.9	15.5	18.3	21.9	75
3/8PZ12090TY2	6.9	9.8	12.0	13.9	15.5	18.3	21.9	90
3/8PZ15065TY2	8.7	12.2	15.0	17.3	19.4	22.9	27.4	65
3/8PZ15075TY2	8.7	12.2	15.0	17.3	19.4	22.9	27.4	75
3/8PZ15090TY2	8.7	12.2	15.0	17.3	19.4	22.9	27.4	90
1/2PZ19065TY2	11.0	15.5	19.0	21.9	24.5	29.0	34.7	65
1/2PZ19075TY2	11.0	15.5	19.0	21.9	24.5	29.0	34.7	75
1/2PZ19090TY2	11.0	15.5	19.0	21.9	24.5	29.0	34.7	90
1/2PZ23065TY2	13.3	18.8	23.0	26.6	29.7	35.1	42.0	65
1/2PZ23075TY2	13.3	18.8	23.0	26.6	29.7	35.1	42.0	75
1/2PZ23090TY2	13.3	18.8	23.0	26.6	29.7	35.1	42.0	90
3/4PZ25070TY2	14.4	20.4	25.0	28.9	32.3	38.2	45.6	70
3/4PZ25090TY2	14.4	20.4	25.0	28.9	32.3	38.2	45.6	90
3/4PZ30070TY2	17.3	24.5	30.0	34.6	38.7	45.8	54.8	70
3/4PZ30090TY2	17.3	24.5	30.0	34.6	38.7	45.8	54.8	90
3/4PZ35070TY2	20.2	24.7	35.0	40.4	45.2	53.5	63.9	70
3/4PZ35090TY2	20.2	24.7	35.0	40.4	45.2	53.5	63.9	90
1/4PZ2495TY2	1.4	2.0	2.4	2.8	3.1	3.7	4.4	95
1/4PZ3095TY2	1.7	2.4	3.0	3.4	3.9	4.6	5.5	95
1/4PZ4095TY2	2.3	3.2	4.0	4.6	5.2	6.1	7.3	95
1/4PZ5495TY2	3.1	4.4	5.4	6.2	7.0	8.2	9.9	95
1/4PZ6095TY2	3.5	4.9	6.0	6.9	7.7	9.2	10.9	95
1/4PZ7595TY2	4.2	6.1	7.5	8.6	9.7	11.5	13.7	95



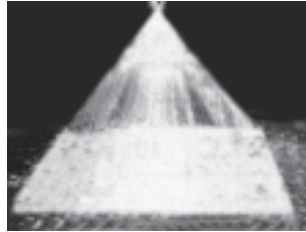
PZ series nozzle

喷雾特性及用途:

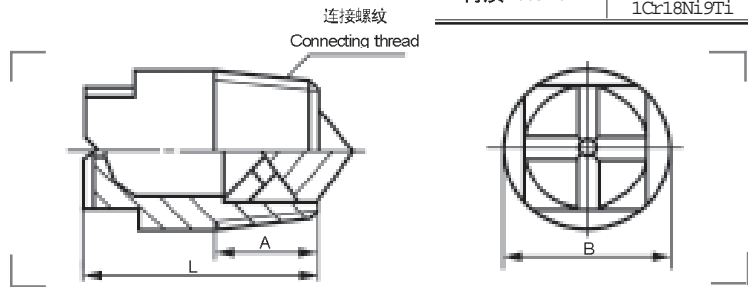
该喷嘴的结构形式为固定旋流芯式，其喷雾形式为正方形，适用于方板坯连铸机的二次冷却，也可用于涂料的喷洒，及其它工序的冷却和清洗。

Spray Feature and Application:

The nozzle is the structure of stationary spinning core. The spray is in the shape of square. It is suitable for the secondary cooling of bloom and slab continuous casting machines, and can be also used in spray painting, cooling and cleaning of other procedures.



连接螺纹 Connecting thread	A	B	L
R1/8	7	12.7	23
R1/4	10	13.5	23
R3/8	11	16.7	24
R1/2	13	20.6	30
R3/4	15	27	39
R1	17	33.3	69
R1 ¹ / ₄	19	42	85
R1 ¹ / ₂	19	48	103
R2	24	60	136
R2 ¹ / ₂	27	76	171
R5	40	139	311
R6	40	164	366
材质 Material	HPb59-1 1Cr18Ni9Ti		



产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)							喷射角(°) Spray angle (degree)		
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.15	0.3	0.5
1/8PZ2750F	1.6	2.2	2.7	3.0	3.4	3.9	4.6	52	50	47
1/8PZ3560F	2.1	2.9	3.5	4.0	4.5	5.2	6.2	63	60	57
1/8PZ4468F	2.7	3.7	4.4	5.1	5.6	6.5	7.7	71	68	65
1/4PZ7465F	4.5	6.1	7.4	8.4	9.3	10.9	12.9	67	65	61
1/4PZ8972F	5.3	7.3	8.9	10.1	11.2	13.1	15.4	75	72	68
1/4PZ10778F	6.5	8.9	10.7	12.2	13.6	15.8	18.6	82	78	75
3/8PZ13372F	8.0	11.0	13.3	15.2	16.8	19.6	23	75	72	68
1/2PZ21072F	12.9	17.8	21	24	27	32	37	75	72	68
1/2PZ27078F	16.0	22	27	30	34	39	46	82	78	75
3/4PZ37072F	22	31	37	42	47	55	64	75	72	68
1PZ78076F	47	65	78	89	99	116	136	80	76	73
1 ¹ / ₄ PZ131076F	79	108	131	149	165	193	225	80	76	73
1 ¹ / ₂ PZ170073F	102	141	170	194	215	250	295	77	73	70
2PZ215067F	129	178	215	245	270	315	370	70	67	64
2PZ265070F	160	220	265	305	335	390	460	74	70	67
2PZ355078F	215	295	355	405	450	520	620	82	78	74
2 ¹ / ₂ PZ360065F	220	300	360	415	455	530	630	67	65	61
2 ¹ / ₂ PZ435075F	260	360	435	495	550	640	760	78	75	71
2 ¹ / ₂ PZ700080F	420	580	700	800	890	1040	1220	84	80	76
5PZ2200088F	1330	1820	2200	2510	2790	3250	3830	91	88	83
6PZ42000100F	2530	3480	4200	4800	5300	6200	7300	105	100	95

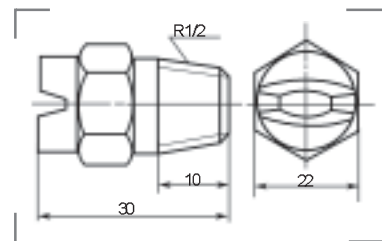
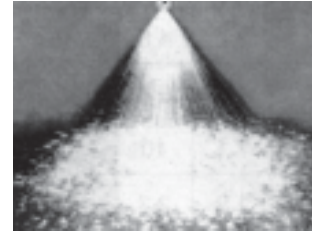
PZ series nozzle

喷雾特性及用途：

该喷嘴的结构新颖，雾化均匀，其喷淋形式为矩形，具有流量大、喷射角大、不易堵塞的特点；主要使用于新型的喷淋结晶器，对钢坯进行强冷，也可用于清洗，植物喷灌等。

Spray Feature and Application:

The nozzle is marked with novel structure and even atomization. Its spray pattern is rectangle shape. It has the features of large flow, big spray angle and not easy to be blocked up. It is mainly used for new spray mold and carrying out strongly cooling-off to billet, and can be also used for cleaning and spray irrigation of plant etc.



产品型号 Model	材 质 Material	MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)							喷射角(°) Spray angle (degree)
		0.1	0.2	0.3	0.4	0.5	0.7	1.0	
1/2PZ5095 X 45J1	HPb59-1 1Cr18Ni9Ti	2.9	4.1	5.0	5.8	6.5	7.6	9.1	95 × 45
1/2PZ10095 X 45J1		5.8	8.2	10.0	11.5	12.9	15.3	18.3	95 × 45
1/2PZ15095 X 45J1		8.7	12.2	15.0	17.3	19.4	22.9	27.4	95 × 45
1/2PZ20095 X 45J1		11.5	16.3	20.0	23.1	25.8	30.6	36.5	95 × 45
1/2PZ25095 X 45J1		14.4	20.4	25.0	28.9	32.3	38.2	45.6	95 × 45
1/2PZ30095 X 45J1		17.3	24.5	30.0	34.6	38.7	45.8	54.8	95 × 45
1/2PZ10095 X 50J1		5.8	8.2	10.0	11.5	12.9	15.3	18.3	95 × 50
1/2PZ15095 X 50J1		8.7	12.2	15.0	17.3	19.4	22.9	27.4	95 × 50
1/2PZ20095 X 50J1		11.5	16.3	20.0	23.1	25.8	30.6	36.5	95 × 50
1/2PZ25095 X 50J1		14.4	20.4	25.0	28.9	32.3	38.2	45.6	95 × 50
1/2PZ30095 X 50J1		17.3	24.5	30.0	34.6	38.7	45.8	54.8	95 × 50
1/2PZ35095 X 50J1		20.2	28.6	35.0	40.4	45.2	53.5	63.9	95 × 50
1/2PZ40095 X 50J1		23.1	32.7	40.0	46.2	51.6	61.1	73	95 × 50
1/2PZ100105 X 60J1		5.8	8.2	10.0	11.5	12.9	15.3	18.3	105 × 60
1/2PZ150105 X 60J1		8.7	12.2	15.0	17.3	19.4	22.9	27.4	105 × 60
1/2PZ200105 X 60J1		11.5	16.3	20.0	23.1	25.8	30.6	36.5	105 × 60
1/2PZ250105 X 60J1		14.4	20.4	25.0	28.9	32.3	38.2	45.6	105 × 60
1/2PZ300105 X 60J1		17.3	24.5	30.0	34.6	38.7	45.8	54.8	105 × 60
1/2PZ350105 X 60J1		20.2	28.6	35.0	40.4	45.2	53.5	63.9	105 × 60
1/2PZ400105 X 60J1		23.1	32.7	40.0	46.2	51.6	61.1	73	105 × 60
1/2PZ100110 X 50J1		5.8	8.2	10.0	11.5	12.9	15.3	18.3	110 × 50
1/2PZ150110 X 50J1		8.7	12.2	15.0	17.3	19.4	22.9	27.4	110 × 50
1/2PZ200110 X 50J1		11.5	16.3	20.0	23.1	25.8	30.6	36.5	110 × 50
1/2PZ250110 X 50J1		14.4	20.4	25.0	28.9	32.3	38.2	45.6	110 × 50
1/2PZ300110 X 50J1		17.3	24.5	30.0	34.6	38.7	45.8	54.8	110 × 50
1/2PZ350110 X 50J1		20.2	28.6	35.0	40.4	45.2	53.5	63.9	110 × 50
1/2PZ400110 X 50J1		23.1	32.7	40.0	46.2	51.6	61.1	73	110 × 50



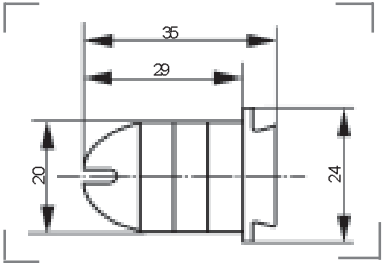
PZ series nozzle

喷雾特性及用途:

该喷嘴头部带有燕尾，用螺母固定，便可使此嘴与管子中心线构成一定的角度，它的喷雾形状为矩形，喷雾区域中心与边缘密度较为接近，随着压力的增加，喷洒能力加大，水量分布仍可均匀，主要适用于薄板坯高拉速连铸的二次冷却，也可用于其它连铸的二次冷却。

Spray Feature and Application:

There is a swallowtail on the head of this nozzle. Fixed by nut, the nozzle can form certain angles with the pipe's central line. Its spray pattern is rectangular. The spray densities at the center and on the edge of the area are close. The spray ability will increase with the increase of the pressure and the water distributing can still keep even. It is mainly used as aftercooling in the high pulling speed continuous casting of thin steel billet and other continuous casting.



产品型号 Model	MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)							喷射角(°) Spray angle (degree)
	0.3	0.5	0.7	1.0	1.2	1.5	2.0	0.5
3/4PZ22105 × 20J2	2.2	2.78	3.3	3.9	4.3	4.8	5.6	105 × 20
3/4PZ29105 × 25J2	2.9	3.7	4.4	5.2	5.7	6.4	7.4	105 × 25
3/4PZ46105 × 20J2	4.6	5.85	7.0	8.3	9.1	10.2	11.8	105 × 20
3/4PZ46105 × 30J2	4.6	5.85	7.0	8.3	9.1	10.2	11.8	105 × 30
3/4PZ5470 × 30J2	5.4	7.0	8.3	9.9	10.8	12.1	14	70 × 30
3/4PZ54105 × 35J2	5.4	7.0	8.3	9.9	10.8	12.1	14	105 × 35
3/4PZ8170 × 30J2	8.1	10.4	12.3	14.7	16.1	18.0	20.8	70 × 30
3/4PZ81105 × 20J2	8.1	10.4	12.3	14.7	16.1	18.0	20.8	105 × 20
3/4PZ81105 × 35J2	8.1	10.4	12.3	14.7	16.1	18.0	20.8	105 × 35
3/4PZ105105 × 35J2	10.5	13.5	16.0	19.1	20.9	23.4	27.0	105 × 35
3/4PZ10570 × 30J2	10.5	13.5	16.0	19.1	20.9	23.4	27.0	70 × 30
3/4PZ105105 × 20J2	10.5	13.5	16.0	19.1	20.9	23.4	27.0	105 × 20
3/4PZ134105 × 20J2	13.4	17.3	20.5	24.5	26.8	30.0	34.6	105 × 20
3/4PZ134105 × 35J2	13.4	17.3	20.5	24.5	26.8	30.0	34.6	105 × 35
3/4PZ174105 × 35J2	17.4	22.4	26.5	31.7	34.7	38.8	44.8	105 × 35
3/4PZ174105 × 20J2	17.4	22.4	26.5	31.7	34.7	38.8	44.8	105 × 20
3/4PZ230105 × 35J2	23.0	29.7	35.1	42.0	46.0	51.4	59.4	105 × 35
3/4PZ380105 × 20J2	38.0	49	58.0	69.3	75.9	84.9	98.0	105 × 20
3/4PZ380105 × 35J2	38.0	49	58.0	69.3	75.9	84.9	98.0	105 × 35

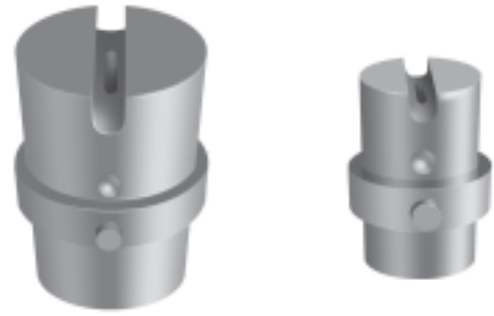
PZ series nozzle

喷雾特性及用途:

该喷嘴设计新颖，外形独特，喷雾形式为矩形，雾化性能稳定。主要用于连铸机的二次冷却，也可用于其它需冷却的场合。

Spray Feature and Application:

The nozzle is novel in design and unique in shape. The spray is in square shape and the spravability is stable. It is mainly used in secondary cooling of continuous casting machine, and may also be used in other cooling applications.



产品型号 Model	D1	D2	A	L1	L2	材质 Material
PZ6280 × 30J3	20	20	27	11	34	HPb59-1 1Cr18Ni9Ti
PZ8380 × 30J3	20	20	27	11	34	
PZ12480 × 30J3	34	32	40	21	52	
PZ15580 × 30J3	34	32	40	21	52	



产品型号 Model	MPa 压力下的流量 (L/min) Flow at MPa pressure (L/min)							喷射角 (°) Spray angle (degree)
	0.1	0.2	0.3	0.4	0.5	0.7	1.0	0.3
PZ6280 × 30J3	3.6	5.1	6.2	7.2	8.0	9.5	11.3	80 × 30
PZ8380 × 30J3	4.67	6.7	8.25	9.5	10.7	12.7	15.1	80 × 30
PZ12480 × 30J3	7.2	10.1	12.4	14.3	16.0	18.9	22.6	80 × 30
PZ15580 × 30J3	8.9	12.7	15.5	17.9	20.0	23.7	28.3	80 × 30

螺旋喷嘴

螺旋喷嘴为我公司根据实际运用的生产工艺需要而开发的一种系列防堵塞的喷嘴，该喷嘴的喷雾区域是由一系列一个或几个连续的同心圆空心锥环组合而成的，其喷射形状为空心锥形和实心锥形两类。该喷嘴独特的设计结构可使较小流量的喷嘴出口尺寸达到较一般喷嘴数倍大液体流通截面，由于没有内芯结构，因此使喷嘴的通道更加畅通，最大程度地减少阻塞现象；而且该喷嘴的液体喷射效率高，在同等喷射条件下，水泵的压力可以更低，起到节能增效的效果，该喷嘴主要应用于废气洗涤、气体冷却、清洗、冷却塔和消防设备中，同时也是炼钢转炉烟道除尘降温的最佳选择。

Spiral nozzle is a series of block-proof nozzle developed by our company according to the need of the practical usage of the production process. The spray area of this kind of nozzle is formed by a series of one or several continuous hollow cone-shaped rings of concentric circles. The spray patterns are both of hollow and solid cone. The unique design structure makes it possible that the nozzle's exit size of smaller flux reaches several times as large as the liquid flow section of ordinary nozzle. Since there is no inner core, the nozzle's passage is more smooth and reduces blocks as most as possible. This nozzle is of high liquid spray efficiency. In the same spray condition, the pump's pressure can be lower therefore energy is saved. This nozzle is mainly used for exhaust gas washing, gas cooling, cleaning and in cooling tower and fire apparatus. It is also the best choice of flue dust elimination and cooling of steel-making convertor.



喷雾特性及用途：

该四种型号的喷嘴均为外螺纹连接方式；LZ1型和LZ1-B型，喷射雾场为空心锥形，LZ2型和LZ2-B型为实心锥形，主要适用于除尘、清洗、冷却和消防等场合。

Spray Feature and Application:

These four types of nozzles are all with male thread. The spray pattern of model LZ1 and LZ1-B are hollow cone, while model LZ2 and LZ2-B are solid cone. They are mainly used in places of dust elimination, cleaning, cooling and fire fighting.



LZ1 型

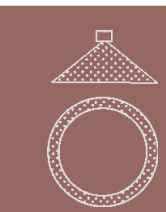


注：用户对性能参数及结构尺寸有特殊要求，订货时请注明。

Note: If users have special requirements for performance parameters, structure and size, please specify in ordering.

PZ series nozzle

产品型号 Model	材 质 Material	连接螺纹 (R) connecting thread	喷嘴长度 (mm) nozzle length	MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)					喷射角(°) Spray angle (degree)
				0.07	0.15	0.3	0.7	2.5	
1/4PZ5550LZ1	1Cr18Ni9Ti H62 HPb59-1	1/4	47.6	2.6	3.9	5.5	8.4	16	50
1/4PZ10350LZ1		1/4	47.6	4.9	7.3	10.3	15.7	30	50
1/4PZ15850LZ1		1/4	47.6	7.6	11.2	15.8	24	46	50
1/4PZ5560LZ1		1/4	47.6	2.6	3.9	5.5	8.4	16	60
1/4PZ10360LZ1		1/4	47.6	4.9	7.3	10.3	15.7	30	60
1/4PZ15860LZ1		1/4	47.6	7.6	11.2	15.8	24	46	60
1/4PZ5590LZ1		1/4	47.6	2.6	3.9	5.5	8.4	16	90
1/4PZ10390LZ1		1/4	47.6	4.9	7.3	10.3	15.7	30	90
1/4PZ15890LZ1		1/4	47.6	7.6	11.2	15.8	24	46	90
1/4PZ55120LZ1		1/4	47.6	2.6	3.9	5.5	8.4	16	120
1/4PZ103120LZ1		1/4	47.6	4.9	7.3	10.3	15.7	30	120
1/4PZ158120LZ1		1/4	47.6	7.6	11.2	15.8	24	46	120
1/4PZ103180LZ1		1/4	47.6	4.9	7.3	10.3	15.7	30	180
1/4PZ158180LZ1		1/4	47.6	7.6	11.2	15.8	24	46	180
3/8PZ24050LZ1		3/8	47.6	11.4	16.7	24	36	68	50
3/8PZ32050LZ1		3/8	47.6	15.1	22	32	48	91	50
3/8PZ42050LZ1		3/8	47.6	20	30	42	64	121	50
3/8PZ65050LZ1		3/8	47.6	31	46	65	99	187	50
3/8PZ24060LZ1		3/8	47.6	11.4	16.7	24	36	68	60
3/8PZ32060LZ1		3/8	47.6	15.1	22	32	48	91	60
3/8PZ42060LZ1		3/8	47.6	20	30	42	64	121	60
3/8PZ65060LZ1		3/8	47.6	31	46	65	99	187	60
3/8PZ24090LZ1		3/8	47.6	11.4	16.7	24	36	68	90
3/8PZ32090LZ1		3/8	47.6	15.1	22	32	48	91	90
3/8PZ42090LZ1		3/8	47.6	20	30	42	64	121	90
3/8PZ65090LZ1		3/8	47.6	31	46	65	99	187	90
3/8PZ240120LZ1		3/8	47.6	11.4	16.7	24	36	68	120
3/8PZ320120LZ1		3/8	47.6	15.1	22	32	48	91	120
3/8PZ420120LZ1		3/8	47.6	20	30	42	64	121	120
3/8PZ650120LZ1		3/8	47.6	31	46	65	99	187	120
3/8PZ240180LZ1		3/8	47.6	11.4	16.7	24	36	68	180
3/8PZ320180LZ1		3/8	47.6	15.1	22	32	48	91	180
3/8PZ420180LZ1		3/8	47.6	20	30	42	64	121	180
3/8PZ650180LZ1		3/8	47.6	31	46	65	99	187	180
1/2PZ95050LZ1		1/2	63.5	45	67	95	145	270	50
1/2PZ129050LZ1		1/2	63.5	62	92	129	198	370	50
1/2PZ95060LZ1		1/2	63.5	45	67	95	145	270	60
1/2PZ129060LZ1		1/2	63.5	62	92	129	198	370	60



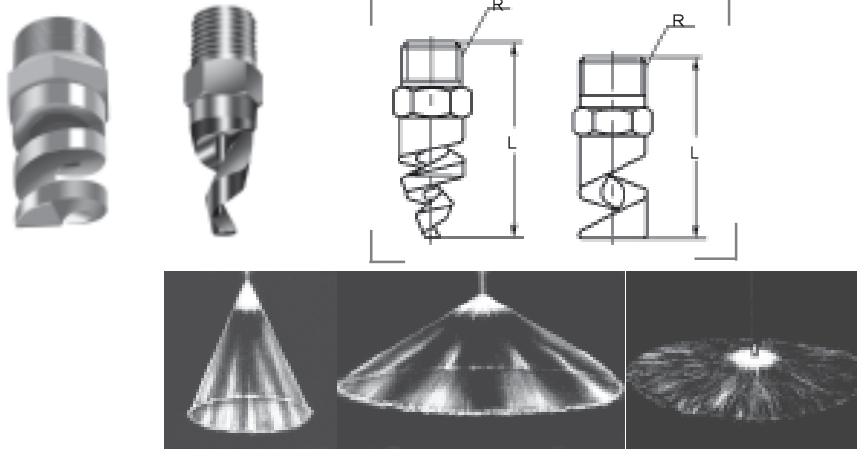
PZ series nozzle

产品型号 Model	材 质 Material	连接螺纹 (R) connecting thread	喷嘴长度 (mm) nozzle length	MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)					喷射角(°) Spray angle (degree)
				0.07	0.15	0.3	0.7	2.5	
1/2PZ95090LZ1	1Cr18Ni9Ti H62 HPb59-1	1/2	63.5	45	67	95	145	270	90
1/2PZ129090LZ1		1/2	63.5	62	92	129	198	370	90
1/2PZ950120LZ1		1/2	63.5	45	67	95	145	270	120
1/2PZ1290120LZ1		1/2	63.5	62	92	129	198	370	120
1/2PZ950180LZ1		1/2	63.5	45	67	95	145	270	180
1/2PZ1290180LZ1		1/2	63.5	62	92	129	198	370	180
3/4PZ166050LZ1		3/4	69.9	80	117	166	255	480	50
3/4PZ166060LZ1		3/4	69.9	80	117	166	255	480	60
3/4PZ166090LZ1		3/4	69.9	80	117	166	255	480	90
3/4PZ1660120LZ1		3/4	69.9	80	117	166	255	480	120
3/4PZ1660180LZ1		3/4	69.9	80	117	166	255	480	180
1PZ270060LZ1		1	92.1	130	190	270	410	775	60
1PZ370060LZ1		1	92.1	179	260	370	565	1070	60
1PZ270090LZ1		1	92.1	130	190	270	410	775	90
1PZ370090LZ1		1	92.1	179	260	370	565	1070	90
1PZ2700120LZ1		1	92.1	130	190	270	410	775	120
1PZ3700120LZ1		1	92.1	179	260	370	565	1070	120
1PZ2700180LZ1		1	92.1	130	190	270	410	775	180
1PZ3700180LZ1		1	92.1	179	260	370	565	1070	180
1 ¹ /2PZ505060LZ1		1 ¹ /2	111	245	355	505	770	1460	60
1 ¹ /2PZ645060LZ1		1 ¹ /2	111	310	455	645	990	1870	60
1 ¹ /2PZ755060LZ1		1 ¹ /2	111	365	535	755	1160	2190	60
1 ¹ /2PZ505090LZ1		1 ¹ /2	111	245	355	505	770	1460	90
1 ¹ /2PZ645090LZ1		1 ¹ /2	111	310	455	645	990	1870	90
1 ¹ /2PZ755090LZ1		1 ¹ /2	111	365	535	755	1160	2190	90
1 ¹ /2PZ5050120LZ1		1 ¹ /2	111	245	355	505	770	1460	120
1 ¹ /2PZ6450120LZ1		1 ¹ /2	111	310	455	645	990	1870	120
1 ¹ /2PZ7550120LZ1		1 ¹ /2	111	365	535	755	1160	2190	120
1 ¹ /2PZ5050180LZ1		1 ¹ /2	111	245	355	505	770	1460	180
1 ¹ /2PZ6450180LZ1		1 ¹ /2	111	310	455	645	990	1870	180
1 ¹ /2PZ7550180LZ1		1 ¹ /2	111	365	535	755	1160	2190	180
2PZ1105060LZ1		2	175	535	780	1105	1690	3190	60
2PZ1405060LZ1		2	175	680	995	1405	2150	4060	60
2PZ1105090LZ1		2	175	535	780	1105	1690	3190	90
2PZ1405090LZ1		2	175	680	995	1405	2150	4060	90
2PZ11050120LZ1		2	175	535	780	1105	1690	3190	120
2PZ14050120LZ1		2	175	680	995	1405	2150	4060	120
2PZ11050180LZ1		2	175	535	780	1105	1690	3190	180
2PZ14050180LZ1		2	175	680	995	1405	2150	4060	180
3PZ2020060LZ1		3	203	980	1430	2020	3090	5830	60
3PZ2650060LZ1		3	203	1280	1880	2650	4050	7660	60
3PZ2020090LZ1		3	203	980	1430	2020	3090	5830	90
3PZ2650090LZ1		3	203	1280	1880	2650	4050	7660	90
3PZ20200120LZ1		3	203	980	1430	2020	3090	5830	120
3PZ26500120LZ1		3	203	1280	1880	2650	4050	7660	120
4PZ4140060LZ1		4	229	2000	2930	4140	6330	11960	60
4PZ4140090LZ1		4	229	2000	2930	4140	6330	11960	90
4PZ41400120LZ1		4	229	2000	2930	4140	6330	11960	120

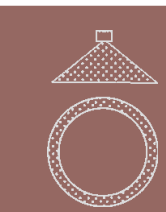


PZ series nozzle

LZ1-B 型



产品型号 Model	材质 Material	连接螺纹 (R) connecting thread	喷嘴长度 (mm) nozzle length	MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)					喷射角(°) Spray angle (degree)
				0.07	0.15	0.3	0.7	2.5	
1/4PZ5550LZ1-B	1Cr18Ni9Ti H62 HPb59-1	1/4	47.6	2.6	3.9	5.5	8.4	16	50
1/4PZ10350LZ1-B		1/4	47.6	4.9	7.3	10.3	15.7	30	50
1/4PZ15850LZ1-B		1/4	47.6	7.6	11.2	15.8	24	46	50
1/4PZ5560LZ1-B		1/4	47.6	2.6	3.9	5.5	8.4	16	60
1/4PZ10360LZ1-B		1/4	47.6	4.9	7.3	10.3	15.7	30	60
1/4PZ15860LZ1-B		1/4	47.6	7.6	11.2	15.8	24	46	60
1/4PZ5590LZ1-B		1/4	47.6	2.6	3.9	5.5	8.4	16	90
1/4PZ10390LZ1-B		1/4	47.6	4.9	7.3	10.3	15.7	30	90
1/4PZ15890LZ1-B		1/4	47.6	7.6	11.2	15.8	24	46	90
1/4PZ55120LZ1-B		1/4	47.6	2.6	3.9	5.5	8.4	16	120
1/4PZ103120LZ1-B		1/4	47.6	4.9	7.3	10.3	15.7	30	120
1/4PZ158120LZ1-B		1/4	47.6	7.6	11.2	15.8	24	46	120
1/4PZ103180LZ1-B		1/4	47.6	4.9	7.3	10.3	15.7	30	180
1/4PZ158180LZ1-B		1/4	47.6	7.6	11.2	15.8	24	46	180
3/8PZ24050LZ1-B		3/8	47.6	11.4	16.7	24	36	68	50
3/8PZ32050LZ1-B		3/8	47.6	15.1	22	32	48	91	50
3/8PZ42050LZ1-B		3/8	47.6	20	30	42	64	121	50
3/8PZ65050LZ1-B		3/8	47.6	31	46	65	99	187	50
3/8PZ24060LZ1-B		3/8	47.6	11.4	16.7	24	36	68	60
3/8PZ32060LZ1-B		3/8	47.6	15.1	22	32	48	91	60
3/8PZ42060LZ1-B		3/8	47.6	20	30	42	64	121	60
3/8PZ65060LZ1-B		3/8	47.6	31	46	65	99	187	60
3/8PZ24090LZ1-B		3/8	47.6	11.4	16.7	24	36	68	90
3/8PZ32090LZ1-B		3/8	47.6	15.1	22	32	48	91	90
3/8PZ42090LZ1-B		3/8	47.6	20	30	42	64	121	90
3/8PZ65090LZ1-B		3/8	47.6	31	46	65	99	187	90
3/8PZ240120LZ1-B		3/8	47.6	11.4	16.7	24	36	68	120
3/8PZ320120LZ1-B		3/8	47.6	15.1	22	32	48	91	120
3/8PZ420120LZ1-B		3/8	47.6	20	30	42	64	121	120
3/8PZ650120LZ1-B		3/8	47.6	31	46	65	99	187	120
3/8PZ240180LZ1-B		3/8	47.6	11.4	16.7	24	36	68	180
3/8PZ320180LZ1-B		3/8	47.6	15.1	22	32	48	91	180
3/8PZ420180LZ1-B		3/8	47.6	20	30	42	64	121	180
3/8PZ650180LZ1-B		3/8	47.6	31	46	65	99	187	180
1/2PZ95050LZ1-B		1/2	63.5	45	67	95	145	270	50
1/2PZ129050LZ1-B		1/2	63.5	62	92	129	198	370	50
1/2PZ95060LZ1-B		1/2	63.5	45	67	95	145	270	60
1/2PZ129060LZ1-B		1/2	63.5	62	92	129	198	370	60



PZ series nozzle

产品型号 Model	材质 Material	连接螺纹 (R) connecting thread	喷嘴长度 (mm) nozzle length	MPa 压力下的流量(L./min) Flow at MPa pressure(L/min)					喷射角(°) Spray angle (degree)
				0.07	0.15	0.3	0.7	2.5	
1/2PZ95090LZ1-B	1Cr18Ni9Ti H62 HPb59-1	1/2	63.5	45	67	95	145	270	90
1/2PZ129090LZ1-B		1/2	63.5	62	92	129	198	370	90
1/2PZ950120LZ1-B		1/2	63.5	45	67	95	145	270	120
1/2PZ1290120LZ1-B		1/2	63.5	62	92	129	198	370	120
1/2PZ950180LZ1-B		1/2	60.5	45	67	95	145	270	180
1/2PZ1290180LZ1-B		1/2	60.5	62	92	129	198	370	180
3/4PZ166050LZ1-B		3/4	69.9	80	117	166	255	480	50
3/4PZ166060LZ1-B		3/4	69.9	80	117	166	255	480	60
3/4PZ166090LZ1-B		3/4	69.9	80	117	166	255	480	90
3/4PZ1660120LZ1-B		3/4	69.9	80	117	166	255	480	120
3/4PZ1660180LZ1-B		3/4	76.2	80	117	166	255	480	180
1PZ270060LZ1-B		1	92.1	130	190	270	410	775	60
1PZ370060LZ1-B		1	92.1	179	260	370	565	1070	60
1PZ270090LZ1-B		1	92.1	130	190	270	410	775	90
1PZ370090LZ1-B		1	92.1	179	260	370	565	1070	90
1PZ2700120LZ1-B		1	92.1	130	190	270	410	775	120
1PZ3700120LZ1-B		1	92.1	179	260	370	565	1070	120
1PZ2700180LZ1-B		1	92.1	130	190	270	410	775	180
1PZ3700180LZ1-B		1	92.1	179	260	370	565	1070	180
1 ¹ /2PZ505060LZ1-B		1 ¹ /2	111	245	355	505	770	1460	60
1 ¹ /2PZ665060LZ1-B		1 ¹ /2	111	322	472	665	1020	1930	60
1 ¹ /2PZ755060LZ1-B		1 ¹ /2	111	365	535	755	1160	2190	60
1 ¹ /2PZ505090LZ1-B		1 ¹ /2	111	245	355	505	770	1460	90
1 ¹ /2PZ665090LZ1-B		1 ¹ /2	111	322	472	665	1020	1930	90
1 ¹ /2PZ755090LZ1-B		1 ¹ /2	111	365	535	755	1160	2190	90
1 ¹ /2PZ5050120LZ1-B		1 ¹ /2	111	245	355	505	770	1460	120
1 ¹ /2PZ6650120LZ1-B		1 ¹ /2	111	322	472	665	1020	1930	120
1 ¹ /2PZ7550120LZ1-B		1 ¹ /2	111	365	535	755	1160	2190	120
1 ¹ /2PZ5050180LZ1-B		1 ¹ /2	111	245	355	505	770	1460	180
1 ¹ /2PZ6650180LZ1-B		1 ¹ /2	111	322	472	665	1020	1930	180
1 ¹ /2PZ7550180LZ1-B		1 ¹ /2	111	365	535	755	1160	2190	180
2PZ1105060LZ1-B		2	143	535	780	1105	1690	3190	60
2PZ1405060LZ1-B		2	176	680	995	1405	2150	4060	60
2PZ1105090LZ1-B		2	143	535	780	1105	1690	3190	90
2PZ1405090LZ1-B		2	176	680	995	1405	2150	4060	90
2PZ11050120LZ1-B		2	143	535	780	1105	1690	3190	120
2PZ14050120LZ1-B		2	176	680	995	1405	2150	4060	120
2PZ11050180LZ1-B		2	175	535	780	1105	1690	3190	180
2PZ14050180LZ1-B		2	178	680	995	1405	2150	4060	180
3PZ2020060LZ1-B		3	219	980	1430	2020	3090	5830	60
3PZ2650060LZ1-B		3	219	1280	1880	2650	4050	7660	60
3PZ2020090LZ1-B		3	219	980	1430	2020	3090	5830	90
3PZ2650090LZ1-B		3	219	1280	1880	2650	4050	7660	90
3PZ20200120LZ1-B		3	219	980	1430	2020	3090	5830	120
3PZ26500120LZ1-B		3	219	1280	1880	2650	4050	7660	120
4PZ4140060LZ1-B		4	257	2000	2930	4140	6330	11960	60
4PZ4140090LZ1-B		4	257	2000	2930	4140	6330	11960	90
4PZ41400120LZ1-B		4	257	2000	2930	4140	6330	11960	120



PZ series nozzle



LZ2 型



产品型号 Model	材质 Material	连接螺纹 (R) connecting thread	喷嘴长度 (mm) nozzle length	MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)					喷射角(°) Spray angle (degree)
				0.07	0.15	0.3	0.7	2.5	
1/4PZ5560LZ2	1Cr18Ni9Ti H62 HPb59-1	1/4	53.9	2.6	3.9	5.5	8.4	16	60
1/4PZ10360LZ2		1/4	53.9	4.9	7.3	10.3	15.7	30	60
1/4PZ15860LZ2		1/4	53.9	7.6	11.2	15.8	24	46	60
1/4PZ5590LZ2		1/4	47.6	2.6	3.9	5.5	8.4	16	90
1/4PZ10390LZ2		1/4	47.6	4.9	7.3	10.3	15.7	30	90
1/4PZ15890LZ2		1/4	47.6	7.6	11.2	15.8	24	46	90
1/4PZ55120LZ2		1/4	47.6	2.6	3.9	5.5	8.4	16	120
1/4PZ103120LZ2		1/4	47.6	4.9	7.3	10.3	15.7	30	120
1/4PZ158120LZ2		1/4	47.6	7.6	11.2	15.8	24	46	120
1/4PZ103150LZ2		1/4	53.9	4.9	7.3	10.3	15.7	30	150
1/4PZ158150LZ2		1/4	53.9	7.6	11.2	15.8	24	46	150
1/4PZ103170LZ2		1/4	53.9	4.9	7.3	10.3	15.7	30	170
1/4PZ158170LZ2		1/4	53.9	7.6	11.2	15.8	24	46	170
3/8PZ5560LZ2		3/8	60.3	2.6	3.9	5.5	8.4	16	60
3/8PZ10360LZ2		3/8	60.3	4.9	7.3	10.3	15.7	30	60
3/8PZ15860LZ2		3/8	60.3	7.6	11.2	15.8	24	46	60
3/8PZ24060LZ2		3/8	60.3	11.4	16.7	24	36	68	60
3/8PZ32060LZ2		3/8	60.3	15.1	22	32	48	91	60
3/8PZ42060LZ2		3/8	60.3	20	30	42	64	121	60
3/8PZ65060LZ2		3/8	60.3	31	46	65	99	187	60
3/8PZ24090LZ2		3/8	47.6	11.4	16.7	24	36	68	90
3/8PZ32090LZ2		3/8	47.6	15.1	22	32	48	91	90
3/8PZ42090LZ2		3/8	47.6	20	30	42	64	121	90
3/8PZ65090LZ2		3/8	47.6	31	46	65	99	187	90
3/8PZ240120LZ2		3/8	47.6	11.4	16.7	24	36	68	120
3/8PZ320120LZ2		3/8	47.6	15.1	22	32	48	91	120
3/8PZ420120LZ2		3/8	47.6	20	30	42	64	121	120
3/8PZ650120LZ2		3/8	47.6	31	46	65	99	187	120
3/8PZ240150LZ2		3/8	60.3	11.4	16.7	24	36	68	150
3/8PZ320150LZ2		3/8	60.3	15.1	22	32	48	91	150
3/8PZ420150LZ2		3/8	60.3	20	30	42	64	121	150
3/8PZ650150LZ2		3/8	60.3	31	46	65	99	187	150
3/8PZ240170LZ2		3/8	60.3	11.4	16.7	24	36	68	170
3/8PZ320170LZ2		3/8	60.3	15.1	22	32	48	91	170
3/8PZ420170LZ2		3/8	60.3	20	30	42	64	121	170
3/8PZ650170LZ2		3/8	60.3	31	46	65	99	187	170
1/2PZ95060LZ2		1/2	79.4	45	67	95	145	270	60
1/2PZ129060LZ2		1/2	79.4	62	92	129	198	370	60



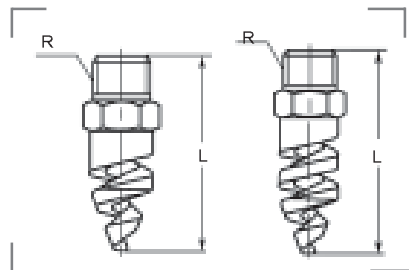
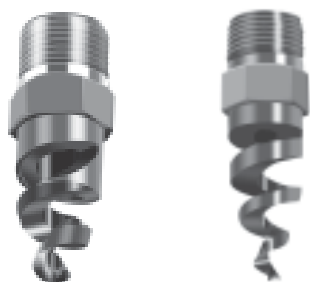
PZ series nozzle

产品型号 Model	材 质 Material	连接螺纹 (R) connecting thread	喷嘴长度 (mm) nozzle length	MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)					喷射角(°) Spray angle (degree)
				0.07	0.15	0.3	0.7	2.5	
1/2PZ95090LZ2	HPb59-1 1Cr18Ni9Ti	1/2	63.5	45	67	95	145	270	90
1/2PZ129090LZ2		1/2	63.5	62	92	129	198	370	90
1/2PZ950120LZ2		1/2	63.5	45	67	95	145	270	120
1/2PZ1290120LZ2		1/2	63.5	62	92	129	198	370	120
1/2PZ950150LZ2		1/2	79.4	45	67	95	145	270	150
1/2PZ1290150LZ2		1/2	79.4	62	92	129	198	370	150
1/2PZ950170LZ2		1/2	79.4	45	67	95	145	270	170
1/2PZ1290170LZ2		1/2	79.4	62	92	129	198	370	170
3/4PZ166060LZ2		3/4	87.3	80	117	166	255	480	60
3/4PZ166090LZ2		3/4	69.9	80	117	166	255	480	90
3/4PZ1660120LZ2		3/4	69.9	80	117	166	255	480	120
3/4PZ1660150LZ2		3/4	87.3	80	117	166	255	480	150
3/4PZ1660170LZ2		3/4	87.3	80	117	166	255	480	170
1PZ270060LZ2		1	116	130	190	270	410	775	60
1PZ370060LZ2		1	116	179	260	370	565	1070	60
1PZ270090LZ2		1	92.1	130	190	270	410	775	90
1PZ370090LZ2		1	92.1	179	260	370	565	1070	90
1PZ2700120LZ2		1	92.1	130	190	270	410	775	120
1PZ3700120LZ2		1	92.1	179	260	370	565	1070	120
1PZ2700150LZ2		1	116	130	190	270	410	775	150
1PZ3700150LZ2		1	116	179	260	370	565	1070	150
1PZ2700170LZ2		1	116	130	190	270	410	775	170
1PZ3700170LZ2		1	116	179	260	370	565	1070	170
1 ¹ / ₂ PZ505060LZ2		1 ¹ / ₂	171	245	355	505	770	1460	60
1 ¹ / ₂ PZ645060LZ2		1 ¹ / ₂	171	310	455	645	990	1870	60
1 ¹ / ₂ PZ755060LZ2		1 ¹ / ₂	171	365	535	755	1160	2190	60
1 ¹ / ₂ PZ505090LZ2		1 ¹ / ₂	111	245	355	505	770	1460	90
1 ¹ / ₂ PZ645090LZ2		1 ¹ / ₂	111	310	455	645	990	1870	90
1 ¹ / ₂ PZ755090LZ2		1 ¹ / ₂	111	365	535	755	1160	2190	90
1 ¹ / ₂ PZ5050120LZ2		1 ¹ / ₂	111	245	355	505	770	1460	120
1 ¹ / ₂ PZ6450120LZ2		1 ¹ / ₂	111	310	455	645	990	1870	120
1 ¹ / ₂ PZ7550120LZ2		1 ¹ / ₂	111	365	535	755	1160	2190	120
1 ¹ / ₂ PZ5050150LZ2		1 ¹ / ₂	171	245	355	505	770	1460	150
1 ¹ / ₂ PZ6450150LZ2		1 ¹ / ₂	171	310	455	645	990	1870	150
1 ¹ / ₂ PZ7550150LZ2		1 ¹ / ₂	171	365	535	755	1160	2190	150
1 ¹ / ₂ PZ5050170LZ2		1 ¹ / ₂	171	245	355	505	770	1460	170
1 ¹ / ₂ PZ6450170LZ2		1 ¹ / ₂	171	310	455	645	990	1870	170
1 ¹ / ₂ PZ7550170LZ2		1 ¹ / ₂	171	365	535	755	1160	2190	170

PZ series nozzle

产品型号 Model	材质 Material	连接螺纹 (R) connecting thread	喷嘴长度 (mm) nozzle length	MPa 压力下的流量(L/min) Flow at MPa pressure (L/min)					喷射角(°) Spray angle (degree)
				0.07	0.15	0.3	0.7	2.5	
2PZ1105060LZ2	H62 HPb59-1 1Cr18Ni9Ti	2	175	535	780	1105	1690	3190	60
2PZ1405060LZ2		2	175	680	995	1405	2150	4060	60
2PZ1105090LZ2		2	175	535	780	1105	1690	3190	90
2PZ1405090LZ2		2	175	680	995	1405	2150	4060	90
2PZ11050120LZ2		2	175	535	780	1105	1690	3190	120
2PZ14050120LZ2		2	175	680	995	1405	2150	4060	120
2PZ11050150LZ2		2	175	535	780	1105	1690	3190	150
2PZ14050150LZ2		2	175	680	995	1405	2150	4060	150
2PZ11050170LZ2		2	175	535	780	1105	1690	3190	170
2PZ14050170LZ2		2	175	680	995	1405	2150	4060	170
3PZ2020060LZ2		3	302	980	1430	2020	3090	5830	60
3PZ2650060LZ2		3	302	1280	1880	2650	4050	7660	60
3PZ2020090LZ2		3	203	980	1430	2020	3090	5830	90
3PZ2650090LZ2		3	203	1280	1880	2650	4050	7660	90
3PZ20200120LZ2		3	203	980	1430	2020	3090	5830	120
3PZ26500120LZ2		3	203	1280	1880	2650	4050	7660	120
4PZ4140060LZ2		4	229	2000	2930	4140	6330	11960	60
4PZ4140090LZ2		4	229	2000	2930	4140	6330	11960	90
4PZ41400120LZ2		4	229	2000	2930	4140	6330	11960	120

LZ2-B 型



PZ series nozzle

PZ 系列喷嘴

spiral nozzle

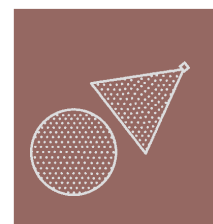
螺旋喷嘴



产品型号 Model	材 质 Material	连接螺纹 (R) connecting thread	喷嘴长度 (mm) nozzle length	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)					喷射角(°) Spray angle (degree)
				0.07	0.15	0.3	0.7	2.5	
1/8PZ5560LZ2-B	H62 HPb59-1 1Cr18Ni9Ti	1/8	42.9	2.6	3.9	5.5	8.4	16	60
1/8PZ10360LZ2-B		1/8	42.9	4.9	7.3	10.3	15.7	30	60
1/8PZ5590LZ2-B		1/8	42.9	2.6	3.9	5.5	8.4	16	90
1/8PZ10390LZ2-B		1/8	42.9	4.9	7.3	10.3	15.7	30	90
1/8PZ55120LZ2-B		1/8	42.9	2.6	3.9	5.5	8.4	16	120
1/8PZ103120LZ2-B		1/8	42.9	4.9	7.3	10.3	15.7	30	120
1/4PZ5560LZ2-B		1/4	53.9	2.6	3.9	5.5	8.4	16	60
1/4PZ10360LZ2-B		1/4	53.9	4.9	7.3	10.3	15.7	30	60
1/4PZ15860LZ2-B		1/4	53.9	7.6	11.2	15.8	24	46	60
1/4PZ5590LZ2-B		1/4	47.6	2.6	3.9	5.5	8.4	16	90
1/4PZ10390LZ2-B		1/4	47.6	4.9	7.3	10.3	15.7	30	90
1/4PZ15890LZ2-B		1/4	47.6	7.6	11.2	15.8	24	46	90
1/4PZ55120LZ2-B		1/4	47.6	2.6	3.9	5.5	8.4	16	120
1/4PZ103120LZ2-B		1/4	47.6	4.9	7.3	10.3	15.7	30	120
1/4PZ158120LZ2-B		1/4	47.6	7.6	11.2	15.8	24	46	120
3/8PZ5560LZ2-B		3/8	47.6	2.6	3.9	5.5	8.4	16	60
3/8PZ10360LZ2-B		3/8	47.6	4.9	7.3	10.3	15.7	30	60
3/8PZ15860LZ2-B		3/8	47.6	7.6	11.2	15.8	24	46	60
3/8PZ24060LZ2-B		3/8	47.6	11.4	16.7	24	36	68	60
3/8PZ32060LZ2-B		3/8	47.6	15.1	22	32	48	91	60
3/8PZ42060LZ2-B		3/8	47.6	20	30	42	64	121	60
3/8PZ65060LZ2-B		3/8	47.6	31	46	65	99	187	60
3/8PZ24090LZ2-B		3/8	47.6	11.4	16.7	24	36	68	90
3/8PZ32090LZ2-B		3/8	47.6	15.1	22	32	48	91	90
3/8PZ42090LZ2-B		3/8	47.6	20	30	42	64	121	90
3/8PZ65090LZ2-B		3/8	47.6	31	46	65	99	187	90
3/8PZ240120LZ2-B		3/8	47.6	11.4	16.7	24	36	68	120
3/8PZ320120LZ2-B		3/8	47.6	15.1	22	32	48	91	120
3/8PZ420120LZ2-B		3/8	47.6	20	30	42	64	121	120
3/8PZ650120LZ2-B		3/8	47.6	31	46	65	99	187	120
3/8PZ240150LZ2-B		3/8	60.5	11.4	16.7	24	36	68	150
3/8PZ320150LZ2-B		3/8	60.5	15.1	22	32	48	91	150
3/8PZ420150LZ2-B		3/8	60.5	20	30	42	64	121	150
3/8PZ650150LZ2-B		3/8	60.5	31	46	65	99	187	150
3/8PZ240170LZ2-B		3/8	60.5	11.4	16.7	24	36	68	170
3/8PZ320170LZ2-B		3/8	60.5	15.1	22	32	48	91	170
3/8PZ420170LZ2-B		3/8	60.5	20	30	42	64	121	170
3/8PZ650170LZ2-B		3/8	60.5	31	46	65	99	187	170
1/2PZ95060LZ2-B		1/2	63.5	45	67	95	145	270	60
1/2PZ129060LZ2-B		1/2	63.5	62	92	129	198	370	60

PZ series nozzle PZ 系列喷嘴

产品型号 Model	材 质 Material	连接螺纹 (R) connecting thread	喷嘴长度 (mm) nozzle length	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)					喷射角(°) Spray angle (degree)
				0.07	0.15	0.3	0.7	2.5	
1/2PZ95090LZ2-B	1Cr18Ni9Ti H62 HPb59-1	1/2	63.5	45	67	95	145	270	90
1/2PZ129090LZ2-B		1/2	63.5	62	92	129	198	370	90
1/2PZ950120LZ2-B		1/2	63.5	45	67	95	145	270	120
1/2PZ1290120LZ2-B		1/2	63.5	62	92	129	198	370	120
1/2PZ950150LZ2-B		1/2	77.7	45	67	95	145	270	150
1/2PZ1290150LZ2-B		1/2	77.7	62	92	129	198	370	150
1/2PZ950170LZ2-B		1/2	77.7	45	67	95	145	270	170
1/2PZ1290170LZ2-B		1/2	77.7	62	92	129	198	370	170
3/4PZ166060LZ2-B		3/4	69.9	80	117	166	255	480	60
3/4PZ166090LZ2-B		3/4	69.9	80	117	166	255	480	90
3/4PZ1660120LZ2-B		3/4	69.9	80	117	166	255	480	120
3/4PZ1660150LZ2-B		3/4	88.9	80	117	166	255	480	150
3/4PZ1660170LZ2-B		3/4	88.9	80	117	166	255	480	170
1PZ270060LZ2-B		1	92.1	130	190	270	410	775	60
1PZ370060LZ2-B		1	92.1	179	260	370	565	1070	60
1PZ270090LZ2-B		1	92.1	130	190	270	410	775	90
1PZ370090LZ2-B		1	92.1	179	260	370	565	1070	90
1PZ2700120LZ2-B		1	92.1	130	190	270	410	775	120
1PZ3700120LZ2-B		1	92.1	179	260	370	565	1070	120
1PZ2700150LZ2-B		1	111	130	190	270	410	775	150
1PZ3700150LZ2-B		1	111	179	260	370	565	1070	150
1PZ2700170LZ2-B		1	111	130	190	270	410	775	170
1PZ3700170LZ2-B		1	111	179	260	370	565	1070	170
1 ¹ /2PZ505060LZ2-B		1 ¹ /2	111	245	355	505	770	1460	60
1 ¹ /2PZ665060LZ2-B		1 ¹ /2	111	322	472	665	1020	1930	60
1 ¹ /2PZ755060LZ2-B		1 ¹ /2	111	365	535	755	1160	2190	60
1 ¹ /2PZ505090LZ2-B		1 ¹ /2	111	245	355	505	770	1460	90
1 ¹ /2PZ665090LZ2-B		1 ¹ /2	111	322	472	665	1020	1930	90
1 ¹ /2PZ755090LZ2-B		1 ¹ /2	111	365	535	755	1160	2190	90
1 ¹ /2PZ5050120LZ2-B		1 ¹ /2	111	245	355	505	770	1460	120
1 ¹ /2PZ6650120LZ2-B		1 ¹ /2	111	322	472	665	1020	1930	120
1 ¹ /2PZ7550120LZ2-B		1 ¹ /2	111	365	535	755	1160	2190	120
1 ¹ /2PZ5050150LZ2-B		1 ¹ /2	137	245	355	505	770	1460	150
1 ¹ /2PZ6650150LZ2-B		1 ¹ /2	137	322	472	665	1020	1930	150
1 ¹ /2PZ7550150LZ2-B		1 ¹ /2	143	365	535	755	1160	2190	150
1 ¹ /2PZ5050170LZ2-B		1 ¹ /2	137	245	355	505	770	1460	170
1 ¹ /2PZ6650170LZ2-B		1 ¹ /2	137	322	472	665	1020	1930	170
1 ¹ /2PZ7550170LZ2-B		1 ¹ /2	143	365	535	755	1160	2190	170
2PZ1105090LZ2-B		2	143	535	780	1105	1690	3190	90
2PZ1405090LZ2-B		2	176	680	995	1405	2150	4060	90
2PZ11050120LZ2-B		2	143	535	780	1105	1690	3190	120
2PZ14050120LZ2-B		2	176	680	995	1405	2150	4060	120
2PZ11050150LZ2-B		2	175	535	780	1105	1690	3190	150
2PZ14050150LZ2-B		2	178	680	995	1405	2150	4060	150
2PZ11050170LZ2-B		2	175	535	780	1105	1690	3190	170
2PZ14050170LZ2-B		2	178	680	995	1405	2150	4060	170
3PZ2020090LZ2-B		3	219	980	1430	2020	3090	5830	90
3PZ2650090LZ2-B		3	219	1280	1880	2650	4050	7660	90
3PZ20200120LZ2-B		3	219	980	1430	2020	3090	5830	120
3PZ26500120LZ2-B		3	219	1280	1880	2650	4050	7660	120
4PZ4140090LZ2-B		4	257	2000	2930	4140	6330	11960	90
4PZ41400120LZ2-B		4	257	2000	2930	4140	6330	11960	120



PZ series nozzle PZ 系列喷嘴

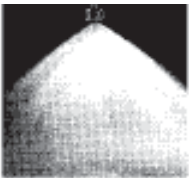
spiral nozzle
螺旋喷嘴

喷雾特性及用途:

该两种型号喷嘴为法兰连接式螺旋喷嘴，LZ3 型喷射雾场为空心锥形，LZ4 型喷射雾场为实心锥形，主要适用于废气脱硫、除尘、气体冷却等多种领域。

These two types of nozzles are flange conncted spiral nozzles. The spray pattern of model LZ3 is hollow cone, while model LZ4 is solid cone. They are mainly used in the fields of exhaust gas desulfurizing, dust elimination and gas cooling.

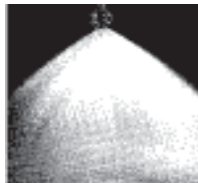
LZ3 型



产品型号 Model	材 质 Material	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)					喷射角(°) Spray angle (degree)
		0.07	0.15	0.3	0.7	2.5	
2PZ1105060LZ3	1Cr18Ni9Ti H62 HPb59-1	535	780	1105	1690	3190	60
2PZ1405060LZ3		680	995	1405	2150	4060	60
2PZ1105090LZ3		535	780	1105	1690	3190	90
2PZ1405090LZ3		680	995	1405	2150	4060	90
2PZ11050120LZ3		535	780	1105	1690	3190	120
2PZ14050120LZ3		680	995	1405	2150	4060	120
2PZ11050180LZ3		535	780	1105	1690	3190	180
2PZ14050180LZ3		680	995	1405	2150	4060	180
3PZ2020060LZ3		980	1430	2020	3090	5830	60
3PZ2650060LZ3		1280	1880	2650	4050	7660	60
3PZ2020090LZ3		980	1430	2020	3090	5830	90
3PZ2650090LZ3		1280	1880	2650	4050	7660	90
3PZ20200120LZ3		980	1430	2020	3090	5830	120
3PZ26500120LZ3		1280	1880	2650	4050	7660	120
4PZ4140060LZ3		2000	2930	4140	6330	11960	60
4PZ4140090LZ3		2000	2930	4140	6330	11960	90
4PZ41400120LZ3		2000	2930	4140	6330	11960	120

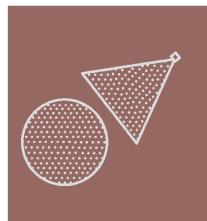
PZ series nozzle PZ 系列喷嘴

LZ4 型



螺旋喷嘴
spiral nozzle

产品型号 Model	材质 Material	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)					喷射角(°) Spray angle (degree)
		0.07	0.15	0.3	0.7	2.5	
2PZ1105060LZ4	1Cr18Ni9Ti H62 HPb59-1	535	780	1105	1690	3190	60
2PZ1405060LZ4		680	995	1405	2150	4060	60
2PZ1105090LZ4		535	780	1105	1690	3190	90
2PZ1405090LZ4		680	995	1405	2150	4060	90
2PZ11050120LZ4		535	780	1105	1690	3190	120
2PZ14050120LZ4		680	995	1405	2150	4060	120
2PZ11050150LZ4		535	780	1105	1690	3190	150
2PZ14050150LZ4		680	995	1405	2150	4060	150
2PZ11050170LZ4		535	780	1105	1690	5830	170
2PZ14050170LZ4		680	995	1405	2150	4060	170
3PZ2020060LZ4		980	1430	2020	3090	5830	60
3PZ2650060LZ4		1280	1880	2650	4050	7660	60
3PZ2020090LZ4		980	1430	2020	3090	5830	90
3PZ2650090LZ4		1280	1880	2650	4050	7660	90
3PZ20200120LZ4		980	1430	2020	3090	5830	120
3PZ26500120LZ4		1280	1880	2650	4050	7660	120
4PZ4140060LZ4		2000	2930	4140	6330	11960	6-0
4PZ4140060LZ4		2000	2930	4140	6330	11960	90
4PZ41400120LZ4		2000	2930	4140	6330	11960	120



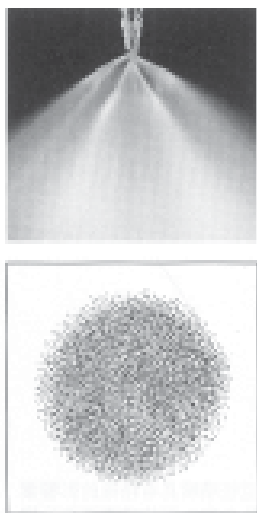
PZ series nozzle PZ 系列喷嘴

喷雾特性及用途:

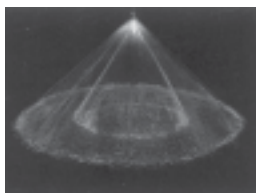
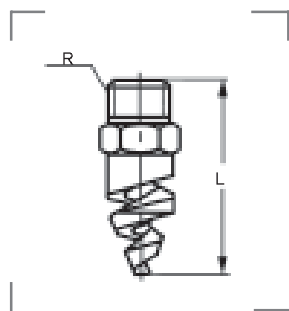
该型号喷嘴具有最大的畅通通道, 可允许大颗粒的杂质通过, 有效消除了堵塞现象, 喷射雾场为实心锥形, 主要适用于污水处理系统, 烟道气体冷却、除尘、防火保护等场合。

This type of nozzle boasts the largest smooth passage and large grains of impurity can pass through smoothly, with minimum plug-back. The spray field is solid cone. It is mainly used in sewage treatment system, flue gas cooling, dust elimination and fireproofing.

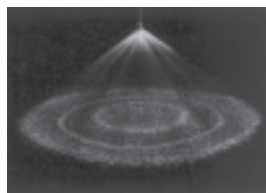
LZ5 型



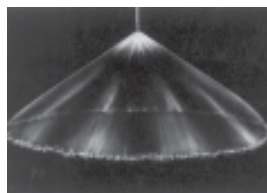
LZ5-B 型



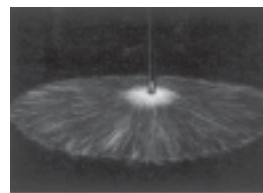
90°



120°



150°



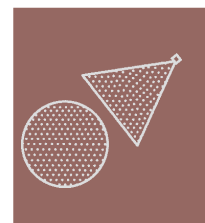
180°

PZ series nozzle

PZ 系列喷嘴

螺旋喷嘴
spiral nozzle

产品型号 Model	材 质 Material	连接螺纹 (R) connecting thread	喷嘴长度 (mm) nozzle length	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)					喷射角(°) Spray angle (degree)
				0.07	0.15	0.3	0.7	2.5	
3/8PZ24090LZ5	1Cr18Ni9Ti H62 HPb59-1	3/8	69	11.4	16.7	24	36	68	90
3/8PZ32090LZ5		3/8	69	15.1	22	32	48	91	90
3/8PZ42090LZ5		3/8	69	20	30	42	64	121	90
3/8PZ65090LZ5		3/8	69	31	46	65	99	187	90
3/8PZ240120LZ5		3/8	69	11.4	16.7	24	36	68	120
3/8PZ320120LZ5		3/8	69	15.1	22	32	48	91	120
3/8PZ420120LZ5		3/8	69	20	30	42	64	121	120
3/8PZ650120LZ5		3/8	69	31	46	65	99	187	120
1/2PZ95090LZ5		1/2	85	45	67	95	145	270	90
1/2PZ129090LZ5		1/2	85	62	92	129	198	370	90
1/2PZ950120LZ5		1/2	85	45	67	95	145	270	120
1/2PZ1290120LZ5		1/2	85	62	92	129	198	370	120
3/4PZ166090LZ5		3/4	117	80	117	166	255	480	90
3/4PZ1660120LZ5		3/4	117	80	117	166	255	480	120
1PZ270090LZ5		1	130	130	190	270	410	775	90
1PZ370090LZ5		1	130	179	260	370	565	1070	90
1PZ2700120LZ5		1	130	130	190	270	410	775	120
1PZ3700120LZ5		1	130	179	260	370	565	1070	120
1 1/2PZ505090LZ5		1 1/2	171	245	355	505	770	1460	90
1 1/2PZ645090LZ5		1 1/2	171	310	455	645	990	1870	90
1 1/2PZ755090LZ5		1 1/2	171	365	535	755	1160	2190	90
1 1/2PZ5050120LZ5		1 1/2	171	245	355	505	770	1460	120
1 1/2PZ6450120LZ5		1 1/2	171	310	455	645	990	1870	120
1 1/2PZ7550120LZ5		1 1/2	171	365	535	755	1160	2190	120
2PZ1105090LZ5		2	279	535	780	1105	1690	3190	90
2PZ1405090LZ5		2	279	680	995	1405	2150	4060	90
2PZ11050120LZ5		2	279	535	780	1105	1690	3190	120
2PZ14050120LZ5		2	279	680	995	1405	2150	4060	120



PZ series nozzle PZ 系列喷嘴



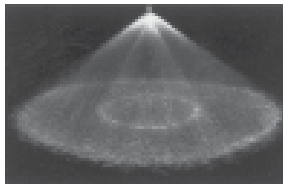
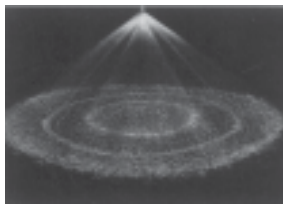
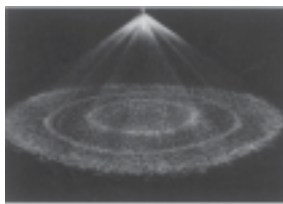
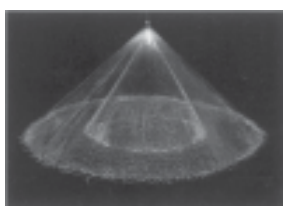
产品型号 Model	材 质 Material	连接螺纹 (R) connecting thread	喷嘴长度 (mm) nozzle length	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)					喷射角(°) Spray angle (degree)
				0.07	0.15	0.3	0.7	2.5	
3/8PZ24090LZ5-B	1Cr18Ni9Ti H62 HPb59-1	3/8	69.9	11.4	16.7	24	36	68	90
3/8PZ32090LZ5-B		3/8	69.9	15.1	22	32	48	91	90
3/8PZ42090LZ5-B		3/8	69.9	20	30	42	64	121	90
3/8PZ65090LZ5-B		3/8	69.9	31	46	65	99	187	90
3/8PZ240120LZ5-B		3/8	69.9	11.4	16.7	24	36	68	120
3/8PZ320120LZ5-B		3/8	69.9	15.1	22	32	48	91	120
3/8FZ420120LZ5-B		3/8	69.9	20	30	42	64	121	120
3/8PZ650120LZ5-B		3/8	69.9	31	46	65	99	187	120
1/2PZ95090LZ5-B		1/2	85.7	45	67	95	145	270	90
1/2PZ129090LZ5-B		1/2	85.7	62	92	129	198	370	90
1/2PZ950120LZ5-B		1/2	85.7	45	67	95	145	270	120
1/2PZ1290120LZ5-B		1/2	85.7	62	92	129	198	370	120
1/2PZ300180LZ5-B		1/2	63.5	14.5	21	30	45.8	86.5	180
1/2PZ470180LZ5-B		1/2	63.5	22.9	35.6	47	72.5	137	180
1/2PZ570180LZ5-B		1/2	63.5	27.7	40.5	57	87.6	166	180
1/2PZ750180LZ5-B		1/2	63.5	36.3	53	75	115	217	180
1/2PZ980180LZ5-B		1/2	63.5	47.1	69	98	149	282	180
1/2PZ1370180LZ5-B		1/2	63.5	66.4	97	137	210	397	180
3/4PZ166090LZ5-B		3/4	130	80	117	166	255	480	90
3/4PZ1660120LZ5-B		3/4	130	80	117	166	255	480	120
1PZ270090LZ5-B		1	130	130	190	270	410	775	90
1PZ370090LZ5-B		1	165	179	260	370	565	1070	90
1PZ2700120LZ5-B		1	130	130	190	270	410	775	120
1PZ3700120LZ5-B		1	165	179	260	370	565	1070	120
1PZ3700150LZ5-B		1	165	179	260	370	565	1070	150
1 ¹ / ₂ PZ505090LZ5-B		1 ¹ / ₂	171	245	355	505	770	1460	90
1 ¹ / ₂ PZ665090LZ5-B		1 ¹ / ₂	171	322	472	665	1020	1930	90
1 ¹ / ₂ PZ755090LZ5-B		1 ¹ / ₂	184	365	535	755	1160	2190	90
1 ¹ / ₂ PZ5050120LZ5-B		1 ¹ / ₂	171	245	355	505	770	1460	120
1 ¹ / ₂ PZ6650120LZ5-B		1 ¹ / ₂	171	322	472	665	1020	1930	120
1 ¹ / ₂ PZ7550120LZ5-B		1 ¹ / ₂	184	365	535	755	1160	2190	120
1 ¹ / ₂ PZ6650150LZ5-B		1 ¹ / ₂	171	322	472	665	1020	1930	150
2PZ1105090LZ5-B		2	267	535	780	1105	1690	3190	90
2PZ1405090LZ5-B		2	267	680	995	1405	2150	4060	90
2PZ11050120LZ5-B		2	267	535	780	1105	1690	3190	120
2PZ14050120LZ5-B		2	267	680	995	1405	2150	4060	120
3PZ2020090LZ5-B		3	267	980	1430	2020	3090	5830	90
3PZ2650090LZ5-B		3	267	1280	1880	2650	4050	7660	90
3PZ20200120LZ5-B		3	267	980	1430	2020	3090	5830	120
3PZ26500120LZ5-B		3	267	1280	1880	2650	4050	7660	120
4PZ4140090LZ5-B		4	279	2000	2930	4140	6330	11960	90
4PZ41400120LZ5-B		4	279	2000	2930	4140	6330	11960	120

PZ series nozzle PZ 系列喷嘴

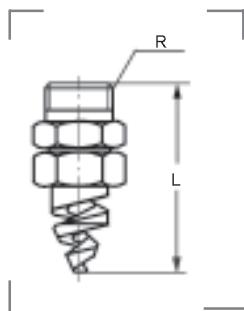
喷雾特性及用途:

该两种型号喷嘴为外螺纹和内螺纹连接、喷射雾场为实心锥形（根据用户需求也可提供空心锥形），L Z 7 型比 L Z 6 型具有更大的畅通通道。主要适用于烟气脱硫，喷射石灰浆等场合。

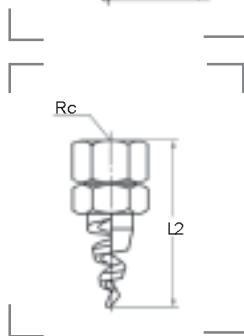
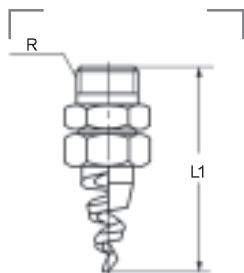
These two types of nozzles are connected with pipe through male thread and female thread. The spray pattern is solid cone. (Hollow cone can be supplied according to customer's requirement.) Model LZ7 has larger smooth passage than model LZ6. They are mainly used in the places of smock desulfurizing and lime slurry spray.



LZ6 型



LZ7 型



PZ series nozzle *PZ 系列喷嘴*



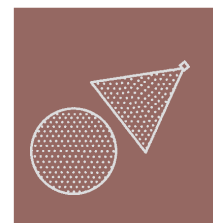
产品型号 Model	材 质 Material	连接螺纹 (R) connecting thread	喷嘴长度 (mm) nozzle length	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)					喷射角(°) Spray angle (degree)
				0.07	0.15	0.3	0.7	2.5	
1/4PZ5590LZ6	1Cr18Ni9Ti H62 HPb59-1	1/4	65	2.6	3.9	5.5	8.4	16	90
1/4PZ10390LZ6		1/4	65	4.9	7.3	10.3	15.7	30	90
1/4PZ15890LZ6		1/4	65	7.6	11.2	15.8	24	46	90
1/4PZ55120LZ6		1/4	65	2.6	3.9	5.5	8.4	16	120
1/4PZ103120LZ6		1/4	65	4.9	7.3	10.3	15.7	30	120
1/4PZ158120LZ6		1/4	65	7.6	11.2	15.8	24	46	120
3/8PZ24090LZ6		3/8	74.7	11.4	16.7	24	36	68	90
3/8PZ32090LZ6		3/8	74.7	15.1	22	32	48	91	90
3/8PZ42090LZ6		3/8	74.7	20	30	42	64	121	90
3/8PZ65090LZ6		3/8	74.7	31	46	65	99	187	90
3/8PZ240120LZ6		3/8	74.7	11.4	16.7	24	36	68	120
3/8PZ320120LZ6		3/8	74.7	15.1	22	32	48	91	120
3/8PZ420120LZ6		3/8	74.7	20	30	42	64	121	120
3/8PZ650120LZ6		3/8	74.7	31	46	65	99	187	120
3/4PZ95090LZ6		3/4	95.3	45	67	95	145	270	90
3/4PZ129090LZ6		3/4	95.3	62	92	129	198	370	90
3/4PZ166090LZ6		3/4	95.3	80	117	166	255	480	90
3/4PZ950120LZ6		3/4	95.3	45	67	95	145	270	120
3/4PZ1290120LZ6		3/4	95.3	62	92	129	198	370	120
3/4PZ1660120LZ6		3/4	95.3	80	117	166	255	480	120
1PZ270090LZ6		1	116	130	190	270	410	775	90
1PZ370090LZ6		1	116	179	260	370	565	1070	90
1PZ2700120LZ6		1	116	130	190	270	410	775	120
1PZ3700120LZ6		1	116	179	260	370	565	1070	120
1 ¹ / ₂ PZ505090LZ6		1 ¹ / ₂	145	245	355	505	770	1460	90
1 ¹ / ₂ PZ665090LZ6		1 ¹ / ₂	145	322	472	665	1020	1930	90
1 ¹ / ₂ PZ755090LZ6		1 ¹ / ₂	145	365	535	755	1160	2190	90
1 ¹ / ₂ PZ5050120LZ6		1 ¹ / ₂	145	245	355	505	770	1460	120
1 ¹ / ₂ PZ6650120LZ6		1 ¹ / ₂	145	322	472	665	1020	1930	120
1 ¹ / ₂ PZ7550120LZ6		1 ¹ / ₂	145	365	535	755	1160	2190	120
2PZ1105090LZ6		2	194 162	535	780	1105	1690	3190	90
2PZ1405090LZ6		2	229 210	680	995	1405	2150	4060	90
2PZ11050120LZ6		2	194 162	535	780	1105	1690	3190	120
2PZ14050120LZ6		2	229 210	680	995	1405	2150	4060	120
3PZ2020090LZ6		3	251	980	1430	2020	3090	5830	90
3PZ2650090LZ6		3	270	1280	1880	2650	4050	7660	90
3PZ20200120LZ6		3	251	980	1430	2020	3090	5830	120
3PZ26500120LZ6		3	270	1280	1880	2650	4050	7660	120
4PZ4140090LZ6		4	295	2000	2930	4140	6330	11960	90
4PZ41400120LZ6		4	295	2000	2930	4140	6330	11960	120

PZ series nozzle

PZ 系列喷嘴

产品型号 Model	材 质 Material	连接螺纹 (R) connecting thread	喷嘴长度 (mm) nozzle length		MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)					喷射角 (°) Spray angle (degree)
					0.07	0.15	0.3	0.7	2.5	
3/8PZ24090LZ7	1Cr18Ni9Ti H62 HPb59-1	3/8	102	85.9	11.4	16.7	24	36	68	90
3/8PZ32090LZ7		3/8	102	85.9	15.1	22	32	48	91	90
3/8PZ42090LZ7		3/8	102	85.9	20	30	42	64	121	90
3/8PZ65090LZ7		3/8	102	85.9	31	46	65	99	187	90
3/8PZ240120LZ7		3/8	102	85.9	11.4	16.7	24	36	68	120
3/8PZ320120LZ7		3/8	102	85.9	15.1	22	32	48	91	120
3/8PZ420120LZ7		3/8	102	85.9	20	30	42	64	121	120
3/8PZ650120LZ7		3/8	102	85.9	31	46	65	99	187	120
3/4PZ95090LZ7		3/4	114	96.8	45	67	95	145	270	90
3/4PZ129090LZ7		3/4	114	96.8	62	92	129	198	370	90
3/4PZ166090LZ7		3/4	152	130	80	117	166	255	480	90
3/4PZ950120LZ7		3/4	114	96.8	45	67	95	145	270	120
3/4PZ1290120LZ7		3/4	114	96.8	62	92	129	198	370	120
3/4PZ1660120LZ7		3/4	152	130	80	117	166	255	480	120
1PZ270090LZ7		1	160	133	130	190	270	410	775	90
1PZ370090LZ7		1	189	164	179	260	370	565	1070	90
1PZ2700120LZ7		1	160	133	130	190	270	410	775	120
1PZ3700120LZ7		1	189	164	179	260	370	565	1070	120
1 ¹ / ₂ PZ505090LZ7		1 ¹ / ₂	214	184	245	355	505	770	1460	90
1 ¹ / ₂ PZ665090LZ7		1 ¹ / ₂	214	184	322	472	665	1020	1930	90
1 ¹ / ₂ PZ755090LZ7		1 ¹ / ₂	224	194	365	535	755	1160	2190	90
1 ¹ / ₂ PZ5050120LZ7		1 ¹ / ₂	214	184	245	355	505	770	1460	120
1 ¹ / ₂ PZ6650120LZ7		1 ¹ / ₂	214	184	322	472	665	1020	1930	120
1 ¹ / ₂ PZ7550120LZ7		1 ¹ / ₂	224	194	365	535	755	1160	2190	120
2PZ1105090LZ7		2	235	203	535	780	1105	1690	3190	90
2PZ1405090LZ7		2	290	259	680	995	1405	2150	4060	90
2PZ11050120LZ7		2	235	203	535	780	1105	1690	3190	120
2PZ14050120LZ7		2	290	259	680	995	1405	2150	4060	120
3PZ2020090LZ7		3	300	300	980	1430	2020	3090	5830	90
3PZ2650090LZ7		3	300	300	1280	1880	2650	4050	7660	90
3PZ20200120LZ7		3	300	300	980	1430	2020	3090	5830	120
3PZ26500120LZ7		3	300	300	1280	1880	2650	4050	7660	120
4PZ4140090LZ7		4	330	330	2000	2930	4140	6330	11960	90
4PZ41400120LZ7		4	330	330	2000	2930	4140	6330	11960	120

螺旋喷嘴



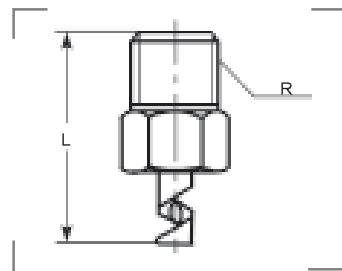
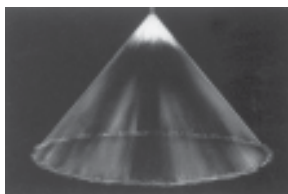
PZ series nozzle

PZ 系列喷嘴

喷雾特性及用途:

该喷嘴为一种小流量的螺旋喷嘴, 它的喷射雾场为空心锥形, 细密雾化, 主要适用于蒸发式冷却, 空气加湿, 控制灰尘等场合。

This is a kind of spiral nozzle of small flux. Its spray pattern is hollow cone with fine fog drops. It is mainly used in evaporative cooling, air wetting and dust control.



产品型号 Model	材 质 Material	连接螺纹 (R) connecting thread	(mm) nozzle length	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)					喷射角(°) Spray angle (degree)
				0.07	0.15	0.3	0.7	2.5	
1/8PZ1190LZ8	1Cr18Ni9Ti H62 HPb59-1	1/8	28.4	0.53	0.78	1.1	1.7	3.2	90
1/8PZ1690LZ8		1/8	28.4	0.76	1.1	1.6	2.4	4.6	90
1/8PZ2190LZ8		1/8	28.4	1.01	1.48	2.1	3.2	6.1	90
1/8PZ3090LZ8		1/8	28.4	1.43	2.1	3.0	4.5	8.6	90
1/8PZ4390LZ8		1/8	28.4	2.06	3.0	4.3	6.5	12.3	90
1/8PZ10090LZ8		1/8	28.4	4.63	6.8	10.0	14.7	27.7	90
1/8PZ11120LZ8		1/8	28.4	0.53	0.78	1.1	1.7	3.2	120
1/8PZ16120LZ8		1/8	28.4	0.76	1.1	1.6	2.4	4.6	120
1/8PZ21120LZ8		1/8	28.4	1.01	1.48	2.1	3.2	6.1	120
1/8PZ30120LZ8		1/8	28.4	1.43	2.1	3.0	4.5	8.6	120
1/8PZ43120LZ8		1/8	28.4	2.06	3.0	4.3	6.5	12.3	120
1/8PZ100120LZ8		1/8	28.4	4.63	6.8	10.0	14.7	27.7	120
1/4PZ1190LZ8		1/4	33.3	0.53	0.78	1.1	1.7	3.2	90
1/4PZ1690LZ8		1/4	33.3	0.76	1.1	1.6	2.4	4.6	90
1/4PZ2190LZ8		1/4	33.3	1.01	1.48	2.1	3.2	6.1	90
1/4PZ3090LZ8		1/4	33.3	1.43	2.1	3.0	4.5	8.6	90
1/4PZ4390LZ8		1/4	33.3	2.06	3.0	4.3	6.5	12.3	90
1/4PZ10090LZ8		1/4	33.3	4.63	6.8	10.0	14.7	27.7	90
1/4PZ11120LZ8		1/4	33.3	0.53	0.78	1.1	1.7	3.2	120
1/4PZ16120LZ8		1/4	33.3	0.76	1.1	1.6	2.4	4.6	120
1/4PZ21120LZ8		1/4	33.3	1.01	1.48	2.1	3.2	6.1	120
1/4PZ30120LZ8		1/4	33.3	1.43	2.1	3.0	4.5	8.6	120
1/4PZ43120LZ8		1/4	33.3	2.06	3.0	4.3	6.5	12.3	120
1/4PZ100120LZ8		1/4	33.3	4.63	6.8	10.0	14.7	27.7	120

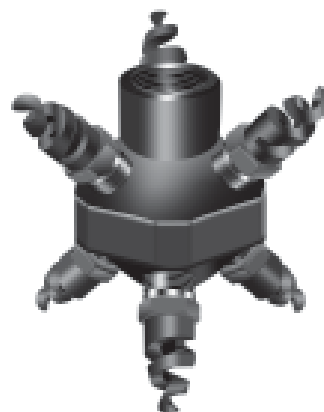
PZ series nozzle

PZ 系列喷嘴

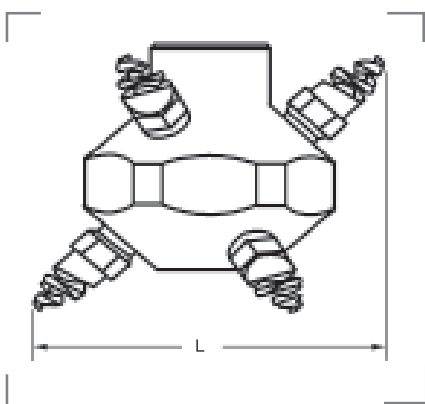
喷雾特性及用途：

该喷嘴由 6 只普通螺旋喷嘴和 1 只安装球体组成，能向所有的方向都喷射均匀的雾场，全方位的覆盖为用户清洗容器内腔提供了选择，且可根据不同的要求，任意更换 6 只小喷嘴。

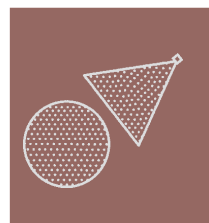
This nozzle consists of 6 ordinary spiral nozzles and an assembling ball. It can produce even spray in all the directions. It offers complete coverage of inside cleaning of container inside to clear. The 6 small nozzles can be replaced according to different requirements.



产品型号 Model	材 质 Material	connecting thread	(mm) nozzle length	MPa 压力下的流量 (L/min) Flow at MPa pressure (L/min)					喷射角 (°) Spray angle (degree)
				0.07	0.15	0.3	0.7	2.5	
3/4PZ330 360LZ9	1Cr18Ni9Ti H62 HPb59-1	3/4	114	16	23	33	50.6	95.5	360
3/4PZ630 360LZ9		3/4	114	30.5	44.7	63	96.5	182.5	360
3/4PZ990 360LZ9		3/4	114	47.7	70	99	151	285	360
1PZ1420 360LZ9		1	133	68.6	100	142	217	410	360
1PZ1920 360LZ9		1	133	92.7	136	192	293	555	360
1PZ2490 360LZ9		1	133	120	176	249	380	720	360
1PZ3910 360LZ9		1	133	189	277	391	597	1130	360



螺旋喷嘴
spiral nozzle



PZ series nozzle

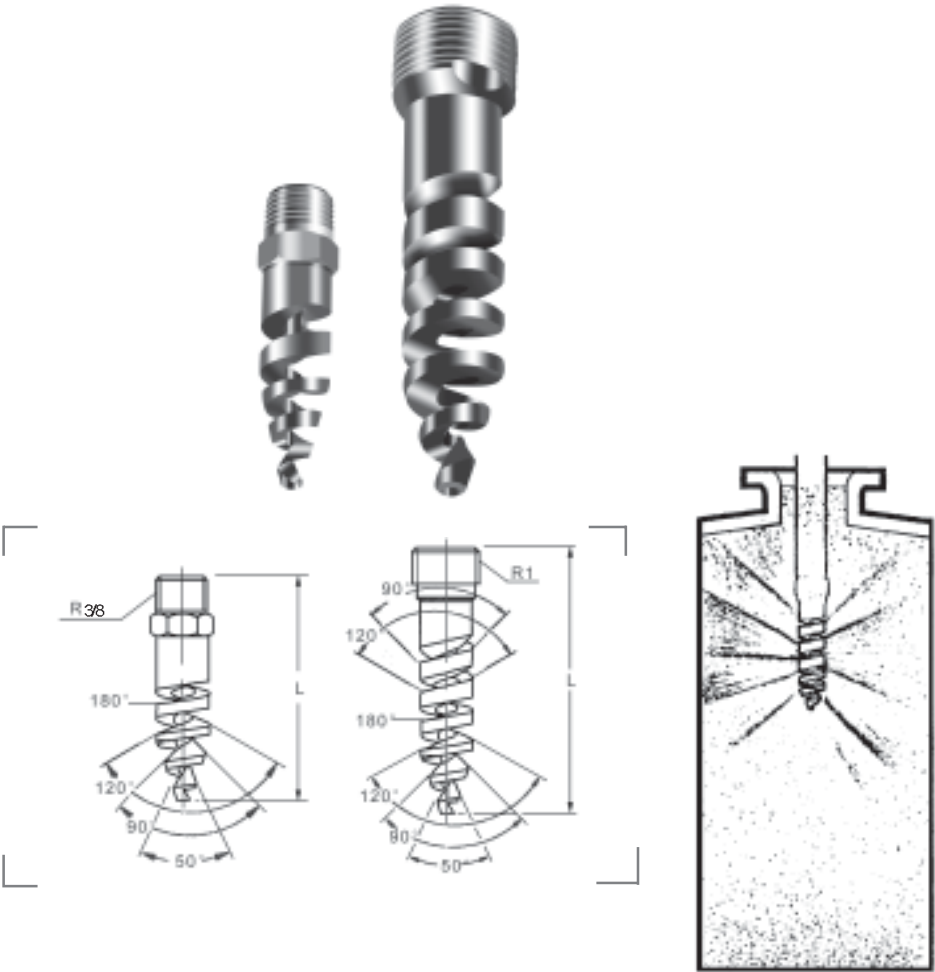
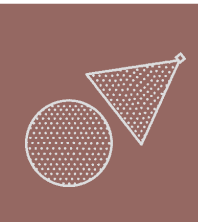
PZ 系列喷嘴

喷雾特性及用途:

该喷嘴结构独特，能够反向喷射，比其他螺旋喷嘴节约水能，主要适用于罐子的清洗和其他需广角喷洒的场合。

This nozzle is with unique structure, which can provide reverse spray. It saves water more effectively than the other spiral nozzles. It is mainly suitable for jar cleaning and other places where wide-angle spray is needed.

产品型号 Model	材 质 Material	connecting thread	(mm) nozzle length	MPa 压力下的流量(L/min) Flow at MPa pressure(L/min)					喷射角(°) Spray angle (degree)
				0.07	0.15	0.3	0.7	2.5	
3/8PZ240180LZ10	1Cr18Ni9Ti H62 HPb59-1	3/8	73	11.4	16.7	24	36	68	180
3/8PZ320180LZ10		3/8	73	15.1	22	32	48	91	180
3/8PZ420180LZ10		3/8	73	20	30	42	64	121	180
3/8PZ650180LZ10		3/8	73	31	46	65	99	187	180
1PZ2010270LZ10		1	130	97.2	142	201	307	580	270



气—水雾化喷嘴的特点:

(1) 冷却更加均匀、水不会在小区内局部集中,而是在整个喷射面内均匀分布。

(2) 水量的调节范围大,最小水量与最大水量之比一般喷嘴可达 1:10,特殊喷嘴可达 1:25,而水喷嘴只能达到 1:3。

(3) 喷雾水滴的直径小,在 $Rwa=35$ 以下时,平均体面积直径均在 $100\text{ }\mu\text{m}$ 以下,大大地提高了冷却效率,故在相同的冷却条件下可节水 30%—50%。

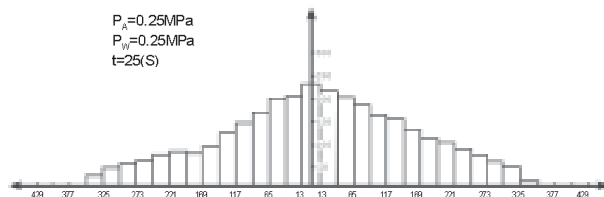
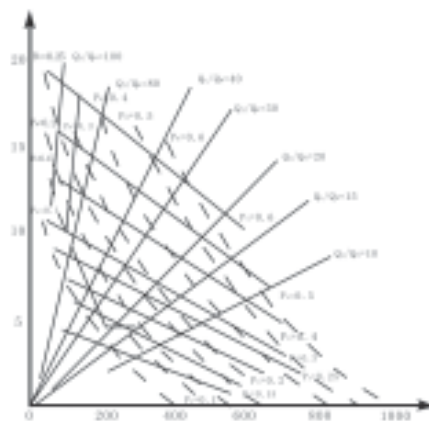
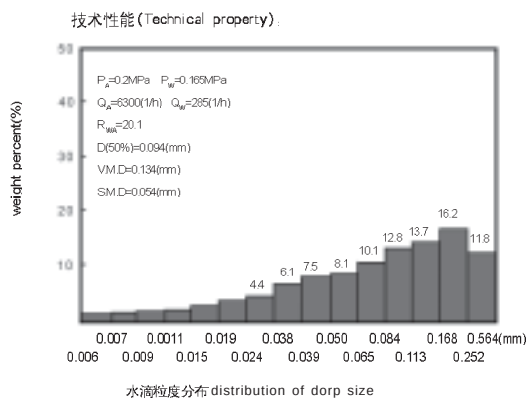
(4) 喷嘴不易堵塞,使用寿命长,在相同的条件下,可减少喷嘴的数量和现场维修量。



(1)The cooling is more even,the water can be well- distributed in the whole spray area instead of concentrated in the small area.
(2)With large flow range the ratio of min & Max flow will be 1:10, and 1:25 in special circumstances.But, for the water spray nozzle the ratio is 1:3 only.

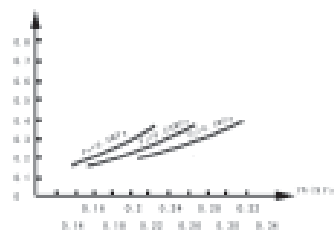
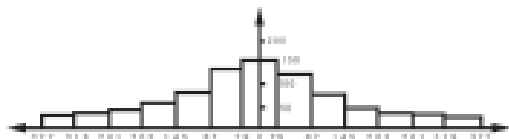
(3)The diameter of spray drop is small. The average area diameter is all below $100\text{ }\mu\text{m}$ under $Rwa=35$, so as to raise the cooling efficiency greatly. It can save water by 30%-50% under the same cooling condition.

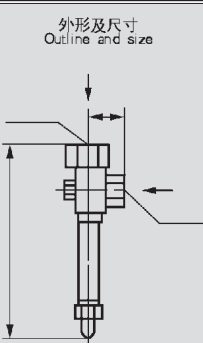
(4)The nozzle is not easy to be blocked up and has a long service life. It can reduce the quantity of nozzle and maintenance on site under the same condition.



	0	13	38	65	91	117	143	169	195	221	247	273	299	325	351	377	403	429
左		229	205	198	165	142	121	88	75	78	69	56	49	42	22	2	0	0
右		229	220	205	186	163	154	129	113	101	85	75	60	47	17	3	0	0

HPZ series nozzle HPZ 系列喷嘴



型 号 Model	气压 (MPa) Atmospheric pressure(MPa)									喷 射 角 (°) Spray angle (degree)	雾滴尺寸 (μ m) Droplet size (μ m)	外形及尺寸 Outline and size 
	0.2			0.25			0.3					
	水 压 Water pressure (MPa)	水 量 Water flow (L/h)	气 量 Air flow (m³/h)	水 压 Water pressure (MPa)	水 量 Water flow (L/h)	气 量 Air flow (m³/h)	水 压 Water pressure (MPa)	水 量 Water flow (L/h)	气 量 Air flow (m³/h)			
HPZ6-150B1	0.14	230	8.7	0.16	230	9.8	0.20	240	10.3	150	73.86	
	0.16	260	8.2	0.18	250	9.2	0.22	270	10.0			
	0.18	310	7.7	0.20	290	8.8	0.24	310	9.7			
	0.20	360	7.0	0.22	330	8.3	0.28	380	9.0			
				0.25	390	8.0	0.30	420	8.2			

说明: Explanation:

1、表中的雾滴尺寸为 $Rwa=20$ 时的平均体面积直径 ($S \cdot M \cdot D$)。以下各表均相同。

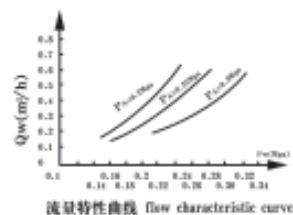
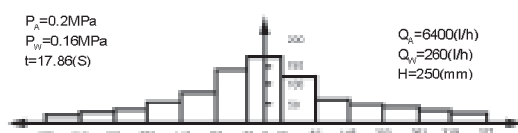
2、气——水雾化喷嘴的材质: HPb59-1; 1Cr18Ni9Ti; H62。

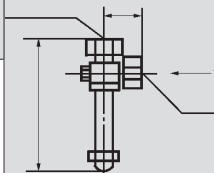
3、喷嘴总长可根据用户需求给定, 以下各规格喷嘴均有此意, 不再一一说明。

1 The size of droplet in the table is the diameter ($S \cdot M \cdot D$) of average area as $Rwa=20$, and same in the following tables.

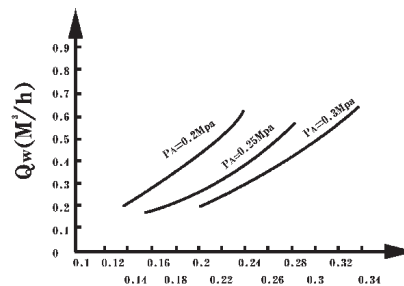
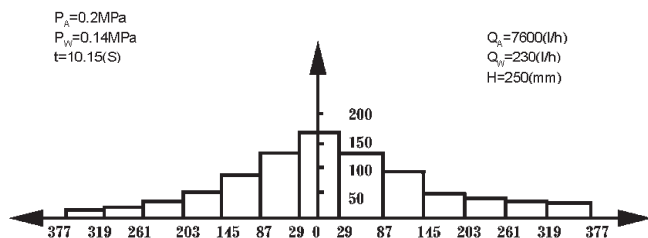
2 The material of air-water atomizing nozzle: HPb59-1; 1Cr18Ni9Ti; H62;

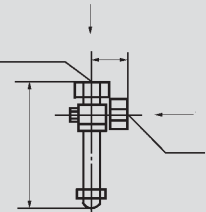
3 The total length of nozzle can be designed according to the demand of users. The following nozzles with various specifications will be the same situation.

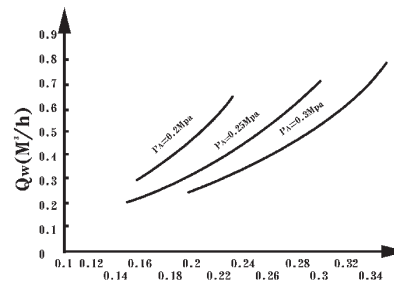
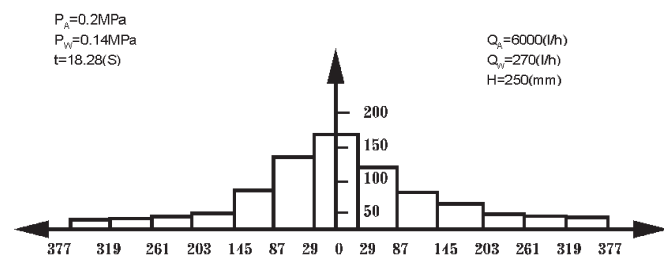


型 号 Model	气压 (MPa) Atmospheric pressure(MPa)									喷射角 (°) Spray angle (degree)	雾滴尺寸 (μm) Droplet size (μ m)	外形及尺寸 Outline and size 
	0.2			0.25			0.3					
	水压 Water pressure (MPa)	水量 Water flow (L/h)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/h)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/h)	气量 Air flow (m³/h)			
HPZ7-140B1	0.14	210	7.8	0.16	190	9.2	0.22	240	9.4	140	73.86	
	0.16	260	6.4	0.18	250	8.3	0.24	290	8.9			
	0.18	330	5.4	0.20	310	6.6	0.28	400	6.6			
	0.20	420	4.4	0.22	360	5.8	0.30	480	5.8			
	0.23	570	3.7	0.25	500	4.5	0.33	620	4.4			
			0.28	620	3.7							

HPZ series nozzle HPZ 系列喷嘴

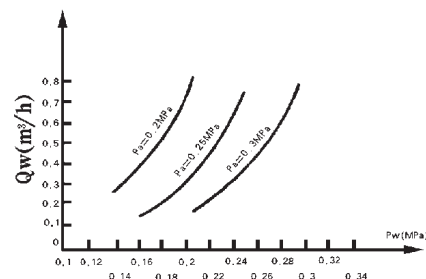
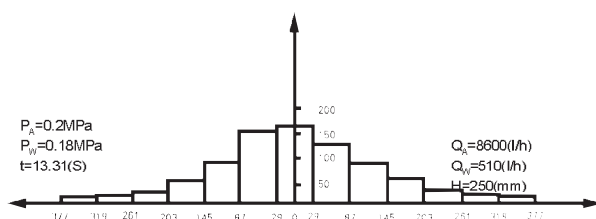


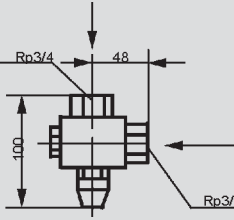
型 号 Model	气压 (MPa) Atmospheric pressure(MPa)									喷 射 角 (°) Spray angle (degree)	雾滴尺寸 (μ m) Droplet size (μ m)	外形及尺寸 Outline and size 
	0.2			0.25			0.3					
	水压 Water pressure (MPa)	水量 Water flow (L/h)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/h)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/h)	气量 Air flow (m³/h)			
HPZ7.8-105B1	0.14	230	7.6	0.16	180	9.8	0.22	270	9.2	105	87.72	
	0.16	260	6.4	0.18	240	9.1	0.24	320	8.1			
	0.18	360	5.4	0.20	280	8.3	0.28	450	6.3			
	0.20	470	4.3	0.22	330	7.4	0.30	530	5.4			
	0.23	600	2.7	0.25	430	5.6	0.33	640	4.2			
				0.28	570	4.0						

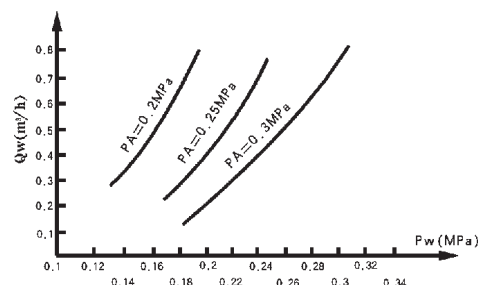
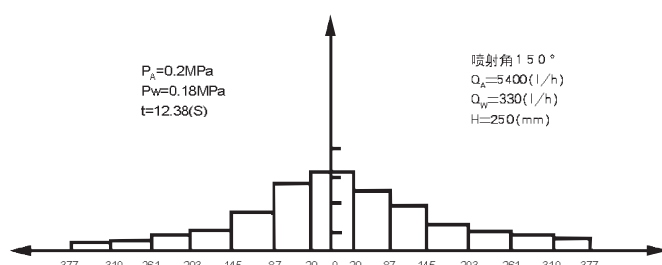


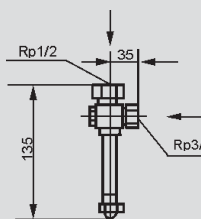
型 号 Model	气压 (MPa) Atmospheric pressure(MPa)									喷射角 (°) Spray angle (degree)	雾滴尺寸 (μm) Droplet size (μm)	外形及尺寸 Outline and size
	0.2			0.25			0.3					
	水压 Water pressure (MPa)	水量 Water flow (L/h)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/h)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/h)	气量 Air flow (m³/h)			
HPZ8.2-150B1	0.14	270	6.0	0.16	250	7.4	0.20	270	7.8	150	61.11	
	0.16	330	5.3	0.18	300	6.8	0.22	330	7.5			
	0.18	400	4.6	0.20	360	6.2	0.24	370	7.0			
	0.20	490	4.0	0.22	400	5.4	0.28	480	5.5			
	0.23	630	2.7	0.25	520	4.5	0.30	530	4.5			
			0.30	710	2.7	0.33	780	3.0				

HPZ series nozzle HPZ 系列喷嘴

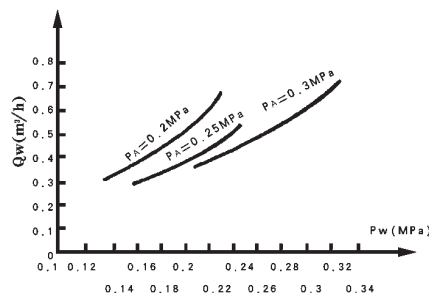
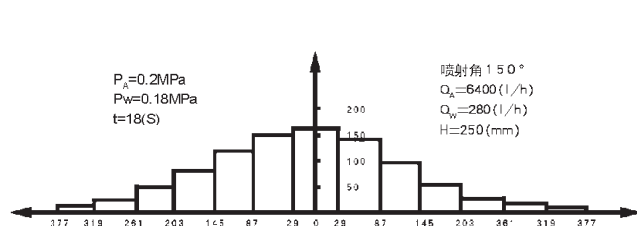


型 号 Model	气压 (MPa) Atmospheric pressure(MPa)									喷 射 角 (°) Spray angle (degree)	雾滴尺寸 (μ m) Droplet size (μ m)	外形及尺寸 Outline and size 
	0.2			0.25			0.3					
	水 压 Water pressure (MPa)	水 量 Water flow (L/h)	气 量 Air flow (m³/h)	水 压 Water pressure (MPa)	水 量 Water flow (L/h)	气 量 Air flow (m³/h)	水 压 Water pressure (MPa)	水 量 Water flow (L/h)	气 量 Air flow (m³/h)			
HPZ125-140B1	0.14	260	13.7	0.16	140	18.9	0.22	230	18.2	140	76.95	
	0.16	370	11.0	0.18	200	17.6	0.24	330	15.7			
	0.18	510	8.6	0.20	290	15.0	0.25	380	14.4			
	0.20	750	5.7	0.22	390	12.0	0.28	610	10.4			
	0.23	1000	2.0	0.25	740	7.0	0.30	910	6.1			

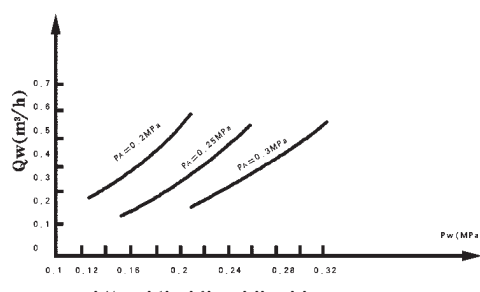
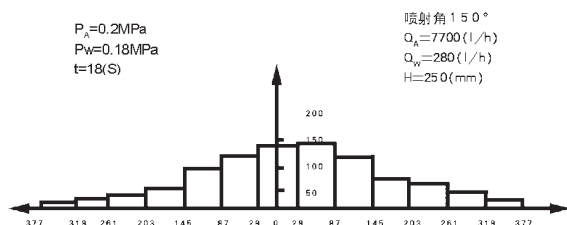


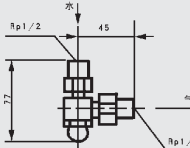
型 号 Model	气压 (MPa) Atmospheric pressure(MPa)									喷 射 角 (°) Spray angle (degree)	雾 滴 尺 寸 (μ m) Droplet size (μ m)	外形及尺寸 Outline and size
	0.2			0.25			0.3					
	水 压 Water pressure (MPa)	水 量 Water flow (L/h)	气 量 Air flow (m³/h)	水 压 Water pressure (MPa)	水 量 Water flow (L/h)	气 量 Air flow (m³/h)	水 压 Water pressure (MPa)	水 量 Water flow (L/h)	气 量 Air flow (m³/h)			
HPZ7-150B1	0.14	210	7.8	0.16	190	9.2	0.22	240	9.4	150	62.76	
	0.16	260	6.4	0.18	250	8.3	0.24	290	8.9			
	0.18	330	5.4	0.20	310	6.6	0.28	400	6.6			
	0.20	420	4.4	0.22	360	5.8	0.30	480	5.8			
	0.23	570	3.7	0.25	500	4.5	0.33	620	4.4			
			0.28	620	3.7							

HPZ series nozzle HPZ 系列喷嘴

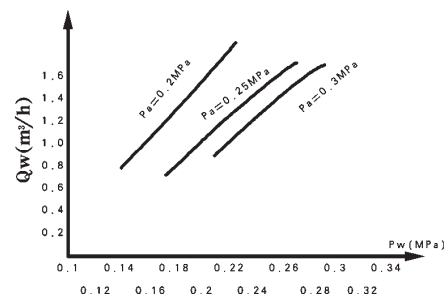
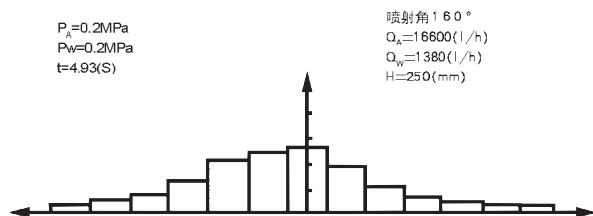


型 号 Model	气压 (MPa) Atmospheric pressure(MPa)									喷 射 角 (°) Spray angle (degree)	雾滴尺寸 (μ m) Droplet size (μ m)	外形及尺寸 Outline and size
	0.2			0.25			0.3					
	水 压 Water pressure (MPa)	水 量 Water flow (L/h)	气 量 Air flow (m³/h)	水 压 Water pressure (MPa)	水 量 Water flow (L/h)	气 量 Air flow (m³/h)	水 压 Water pressure (MPa)	水 量 Water flow (L/h)	气 量 Air flow (m³/h)			
HPZ7.8-150B1	0.14	230	7.6	0.16	180	9.8	0.22	270	9.2	150	74.79	
	0.16	280	6.4	0.18	240	9.1	0.24	320	8.1			
	0.18	360	5.4	0.20	280	8.3	0.28	450	6.3			
	0.20	470	4.3	0.22	330	7.4	0.30	530	5.4			
	0.23	600	2.7	0.25	430	5.6	0.33	640	4.2			
				0.28	570	4.0						

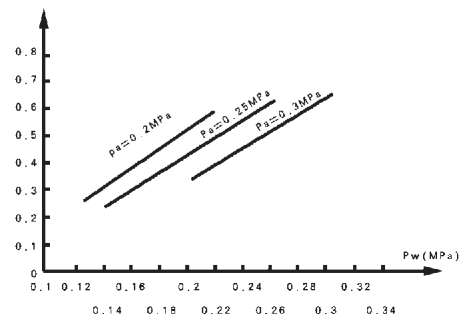
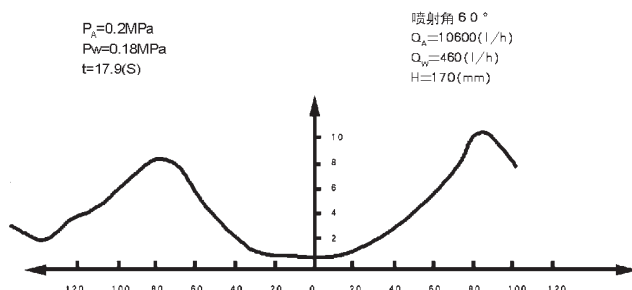


型 号 Model	气压 (MPa) Atmospheric pressure(MPa)									喷 射 角 (°) Spray angle (degree)	雾 滴 尺 寸 (μ m) Droplet size (μ m)	外形及尺寸 Outline and size
	0.2			0.25			0.3					
	水 压 Water pressure (MPa)	水 量 Water flow (L/h)	气 量 Air flow (m³/h)	水 压 Water pressure (MPa)	水 量 Water flow (L/h)	气 量 Air flow (m³/h)	水 压 Water pressure (MPa)	水 量 Water flow (L/h)	气 量 Air flow (m³/h)			
HPZ5.8-150B1	0.14	230	8.7	0.16	230	9.8	0.2	240	10.3	150	76.95	
	0.16	260	8.2	0.18	250	9.2	0.22	270	10			
	0.18	300	7.7	0.20	290	8.8	0.24	310	9.7			
	0.20	350	7.0	0.22	330	8.3	0.28	380	9.0			
				0.25	390	8.0	0.30	420	8.2			

HPZ series nozzle HPZ 系列喷嘴



型 号 Model	气压 (MPa) Atmospheric pressure(MPa)									喷 射 角 (°) Spray angle (degree)	雾滴尺寸 (μ m) Droplet size (μ m)	外形及尺寸 Outline and size 
	0.2			0.25			0.3					
	水压 Water pressure (MPa)	水量 Water flow (L/h)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/h)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/h)	气量 Air flow (m³/h)			
HPZ23-160B1	0.14	720	26.6	0.18	710	31.5	0.22	830	32.4	160	81.95	
	0.16	900	23.3	0.20	880	28.4	0.24	1100	30.2			
	0.18	1110	19.9	0.22	1080	24.5	0.25	1140	26.8			
	0.20	1380	16.6	0.25	1340	21.3	0.28	1380	23.7			
	0.23	1690	12.8	0.28	1530	19.8	0.30	1510	21.2			



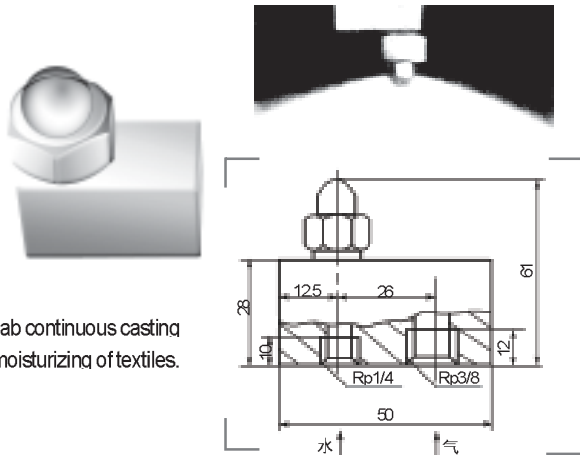
型 号 Model	气压 (MPa) Atmospheric pressure(MPa)									喷射角 Spray angle (degree)	雾滴尺寸 (μ m) Dropletsize (μ m)	外形及尺寸 Outline and size
	0.2			0.25			0.3					
	水 压 Water pressure (MPa)	水 量 Water flow (L/h)	气 量 Air flow (m³/h)	水 压 Water pressure (MPa)	水 量 Water flow (L/h)	气 量 Air flow (m³/h)	水 压 Water pressure (MPa)	水 量 Water flow (L/h)	气 量 Air flow (m³/h)			
HPZ9-60QZ1	0.14	320	12.7	0.16	310	14.2	0.20	340	15.0	60	50.24	
	0.16	390	11.7	0.18	370	13.9	0.22	400	14.6			
	0.18	460	10.6	0.20	430	12.7	0.24	450	13.8			
	0.20	540	9.3	0.22	490	11.8	0.28	570	11.8			
				0.25	590	10.0	0.30	640	11.0			

HPZ series nozzle HPZ 系列喷嘴

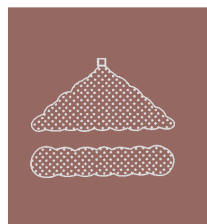
喷雾特性及用途:

该喷嘴属气、水混合型喷嘴，其喷淋形式为扁平状，雾化均匀，粒子较小，扩散角较大；因而，特别适用于板坯连铸二次冷却和超低头连铸机的二次冷却，以及纺织品的湿润。

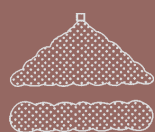
The nozzle is of water and air mixed nozzle. Its spray pattern is in flat shape. It has the even atomization, small particle and large spreading angle. therefore it is especially suitable for the secondary cooling of slab continuous casting machine and of continuous casting machine for extra-low-head and for moisturizing of textiles.



产 品 型 号 Model	气压 (MPa) Atmospheric pressure(MPa)												喷射角 (°) Spray angle (degree)
	0.15			0.2			0.25			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	
HPZ16-30B2	0.1	0.6	15.0	0.1	0.5	19.0	0.1	0.4	23.0	0.16	0.6	27.0	30
	0.2	1.8	14.0	0.2	1.6	18.0	0.2	1.4	22.0	0.2	1.1	26.0	
	0.3	2.5	13.8	0.3	2.3	17.5	0.3	2.2	21.8	0.3	1.95	25.0	
	0.4	3.1	13.1	0.4	2.9	17.0	0.4	2.8	21.6	0.4	2.6	24.8	
	0.5	3.5	13.0	0.5	3.3	16.8	0.5	3.25	21.5	0.5	3.1	24.3	
	0.6	3.9	12.8	0.6	3.7	16.5	0.6	3.6	21.0	0.6	3.5	24.0	
	0.7	4.2	12.6	0.7	4.1	16.3	0.7	4.0	20.2	0.7	3.8	23.5	
HPZ23-30B2	0.12	1.1	9.5	0.14	0.6	13.5	0.17	0.4	16.0				30
	0.2	2.8	6.8	0.2	2.3	10.0	0.2	1.2	14.5	0.2	0.4	18.0	
	0.3	4.2	4.8	0.3	3.7	7.3	0.3	3.1	10.7	0.3	2.4	14.0	
	0.4	5.4	3.8	0.4	4.9	5.8	0.4	4.3	8.4	0.4	3.8	11.0	
	0.5	6.3	3.0	0.5	5.9	4.8	0.5	5.4	6.7	0.5	5.0	9.2	
	0.6	7.2	2.6	0.6	6.6	4.2	0.6	6.3	5.7	0.6	6.0	7.7	
	0.7	7.8	2.3	0.7	7.5	3.6	0.7	7.3	5.0	0.7	7.0	6.6	
HPZ23-60B2	0.12	1.4	10.0	0.13	0.8	14.0	0.16	0.6	16.6	0.19	0.5	18.5	60
	0.2	3.0	8.0	0.2	2.3	11.0	0.2	1.6	14.9	0.2	0.8	18.0	
	0.3	4.4	6.1	0.3	3.9	9.0	0.3	3.4	12.0	0.3	2.7	15.2	
	0.4	5.5	4.8	0.4	5.2	7.3	0.4	4.6	10.0	0.4	4.0	13.0	
	0.5	6.5	3.9	0.5	6.0	6.0	0.5	5.6	8.3	0.5	5.2	11.0	
	0.6	7.4	3.4	0.6	7.0	5.1	0.6	6.5	7.0	0.6	6.2	9.5	
	0.7	8.0	2.9	0.7	7.7	4.7	0.7	7.4	6.3	0.7	7.2	8.3	
HPZ2-90B2	0.12	1.1	9.0	0.17	1.3	11.0							90
	0.2	2.8	5.7	0.2	2.0	9.5	0.2	1.1	13.8	0.25	1.4	15.0	
	0.3	4.2	4.1	0.3	3.6	6.8	0.3	3.0	9.5	0.3	2.3	13.0	
	0.4	5.4	3.2	0.4	4.9	5.2	0.4	4.5	7.3	0.4	3.9	10.0	
	0.5	6.5	2.6	0.5	5.9	4.3	0.5	5.6	6.0	0.5	5.2	8.1	
	0.6	7.3	2.3	0.6	6.7	3.7	0.6	6.5	5.2	0.6	6.2	6.8	
	0.7	8.0	2.0	0.7	7.7	3.1	0.7	7.4	4.4	0.7	7.0	6.1	



HPZ series nozzle HPZ 系列喷嘴



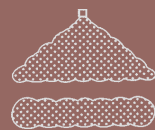
产品型号 Model	气压 (MPa) Atmospheric pressure (MPa)												喷射角 (°) Spray angle (degree)
	0.15			0.2			0.25			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	
HPZ0.11-120B2	0.20	0.14	5.0	0.20	0.11	6.2	0.2	0.08	7.4				120
	0.25	0.17	4.9	0.25	0.15	6.1	0.25	0.12	7.3	0.25	0.09	8.7	
				0.30	0.18	6.0	0.30	0.15	7.2	0.30	0.13	8.4	
				0.35	0.20	5.9	0.35	0.18	7.1	0.35	0.16	8.3	
							0.40	0.20	6.9	0.40	0.19	8.0	
HPZ0.18-120B2	0.20	0.31	3.9	0.2	0.18	5.4	0.25	0.22	6.3	0.3	0.23	7.2	120
				0.25	0.31	4.9	0.3	0.32	5.8	0.35	0.33	6.8	
				0.30	0.39	4.6	0.35	0.40	5.7	0.40	0.40	6.4	
HPZ1.7-140B2	0.08	0.55	15.0	0.1	0.5	19.5	0.12	0.4	24.0	0.14	0.34	26.4	140
	0.2	1.9	14.0	0.2	1.7	18.0	0.2	1.3	22.0	0.2	1.15	25.0	
	0.3	2.6	13.5	0.3	2.3	17.0	0.3	2.1	21.5	0.3	1.9	24.2	
	0.4	3.1	13.3	0.4	2.9	16.8	0.4	2.7	20.5	0.4	2.5	24.0	
	0.5	3.6	13.1	0.5	3.3	16.5	0.5	3.2	20.0	0.5	3.0	23.8	
	0.6	3.9	13.0	0.6	3.6	16.3	0.6	3.6	19.5	0.6	3.4	23.5	
	0.7	4.3	12.9	0.7	4.1	16.0	0.7	3.9	19.2	0.7	3.8	23.0	
HPZ2-140B2	0.12	0.9	9.5	0.15	0.8	12.5	0.18	0.7	15.0				140
	0.2	2.8	6.8	0.2	2.0	11.0	0.2	1.1	13.5	0.21	0.6	17.3	
	0.3	4.2	4.9	0.3	3.5	7.6	0.3	3.0	10.2	0.3	2.4	13.5	
	0.4	5.3	3.7	0.4	4.9	5.8	0.4	4.4	8.2	0.4	3.8	10.8	
	0.5	6.2	2.8	0.5	5.8	4.6	0.5	5.5	6.6	0.5	5.0	9.0	
	0.6	7.0	2.3	0.6	6.7	3.8	0.6	6.4	5.4	0.6	6.0	7.5	
	0.7	7.8	1.75	0.7	7.4	3.3	0.7	6.9	4.8	0.7	6.6	6.3	
HPZ3.8-140B2	0.1	0.75	18.5	0.14	1.2	20.9	0.18	1.2	26.0				140
	0.2	6.2	9.5	0.2	3.8	15.0	0.2	2.1	21.5	0.2	0.9	31.0	
	0.3	10.0	6.0	0.3	8.5	10.0	0.3	6.8	15.0	0.3	4.8	22.0	
	0.4	12.9	4.0	0.4	11.1	7.3	0.4	10.0	11.0	0.4	8.3	18.0	
	0.5	15.0	2.9	0.5	14.0	5.5	0.5	13.0	8.5	0.5	11.5	12.0	
	0.6	17.0	2.2	0.6	16.0	4.4	0.6	15.0	6.5	0.6	14.0	9.7	
	0.7	19.0	1.6	0.7	18.0	3.5	0.7	17.6	5.3	0.7	16.0	7.5	
HPZ6.3-140B2	0.1	2.0	25.0	0.12	1.9	32.0	0.15	1.8	35.0				140
	0.2	9.3	18.0	0.2	6.3	23.0	0.2	4.9	32.0	0.2	2.9	39.0	
	0.3	13.5	15.5	0.3	12.0	19.0	0.3	10.0	26.0	0.3	7.8	34.0	
	0.4	17.0	14.0	0.4	15.8	18.5	0.4	14.0	22.0	0.4	12.8	28.0	
	0.5	20.0	13.0	0.5	18.5	16.5	0.5	18.5	21.8	0.5	16.5	26.3	
	0.6	22.0	12.5	0.6	21.0	16.3	0.6	19.0	21.6	0.6	19.0	25.0	
	0.7	24.2	12.0	0.7	23.2	16.0	0.7	20.0	21.5	0.7	20.0	24.0	
HPZ7-140B2				0.13	0.55	52.0	0.17	0.75	62.0				140
				0.2	7.0	33.0	0.2	3.6	51.0	0.2	0.45	73.0	
				0.3	14.0	28.0	0.3	11.0	37.0	0.3	7.5	50.0	
				0.4	19.0	21.0	0.4	16.0	30.0	0.4	14.0	39.0	
				0.5	23.0	18.0	0.5	20.0	25.0	0.5	19.0	33.0	
				0.6	25.0	17.0	0.6	24.0	23.0	0.6	22.0	29.0	
				0.7	27.0	15.0	0.7	27.0	21.0	0.7	25.0	26.0	
HPZ8.5-140B2				0.11	0.6	75.0	0.15	0.9	80.0	0.18	1.2	95.0	140
				0.2	8.5	54.0	0.2	5.4	70.0	0.2	2.9	86.0	
				0.3	15.0	47.0	0.3	12.5	60.0	0.3	9.7	73.0	
				0.4	19.5	44.0	0.4	17.1	54.0	0.4	15.5	65.0	
				0.5	21.0	42.0	0.5	20.5	51.0	0.5	20.0	62.0	
				0.6	25.0	40.0	0.6	24.0	49.0	0.6	21.2	59.0	
				0.7	28.0	39.0	0.7	27.0	48.0	0.7	25.7	57.0	

HPZseriesnozzle HPZ 系列喷嘴

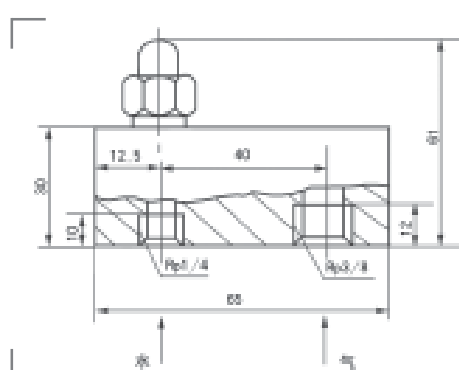
产品型号 Model	气压 (MPa) Atmospheric pressure(MPa)												喷射角 (°) Spray angle (degree)
	0.15			0.2			0.25			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	
HPZ1.1-75B2	0.1	0.9	4.5	0.15	0.9	5.3	0.2	1.0	6.2	0.25	1.2	6.8	75
	0.2	1.4	4.3	0.2	1.1	5.0	0.3	1.4	6.1	0.3	1.4	6.6	
	0.3	1.7	4.0	0.3	1.5	4.8	0.4	1.8	5.8	0.4	1.7	6.4	
	0.4	2.1	3.8	0.4	1.9	4.7	0.5	2.2	5.4	0.5	2.0	6.2	
HPZ1.7-100B2	0.15	1.6	3.9	0.2	1.7	4.8	0.2	1.0	7.0	0.3	2.0	6.2	100
	0.2	2.4	3.6	0.3	3.1	3.9	0.3	2.5	4.9	0.4	3.2	5.2	
	0.3	3.6	3.0	0.4	4.2	3.4	0.4	3.7	4.2	0.5	4.3	4.9	
	0.4	4.6	2.5	0.5	5.0	3.2	0.5	4.7	3.8	0.6	5.1	4.5	
HPZ3.8-90B2	0.1	0.75	18.5	0.15	1.3	20.9	0.2	2.1	21.5	0.25	3.1	24.0	90
	0.2	6.2	9.5	0.2	3.8	15.0	0.3	6.8	15.0	0.3	4.8	22.0	
	0.3	10.0	6.0	0.3	8.5	10.0	0.4	10.0	11.0	0.4	8.3	18.0	
	0.4	12.9	4.0	0.4	11.1	7.3	0.5	13.0	8.5	0.5	11.5	12.0	
HPZ3.8-100B2	0.1	0.75	18.5	0.15	1.3	20.9	0.2	2.1	21.5	0.25	3.1	24.0	100
	0.2	6.2	9.5	0.2	3.8	15.0	0.3	6.8	15.0	0.3	4.8	22.0	
	0.3	10.0	6.0	0.3	8.5	10.0	0.4	10.0	11.0	0.4	8.3	18.0	
	0.4	12.9	4.0	0.4	11.1	7.3	0.5	13.0	8.5	0.5	11.5	12.0	
HPZ6.3-120B2	0.1	1.9	12.8	0.15	3.1	14.4	0.2	3.9	15.8	0.3	7.2	14.7	120
	0.2	8.7	7.6	0.2	6.3	11.1	0.3	9.3	11.1	0.4	12.1	11.4	
	0.3	13.7	4.7	0.3	11.7	7.2	0.4	14.0	7.7	0.5	16.0	9.5	
	0.4	17.3	3.7	0.4	15.6	5.6	0.5	17.6	6.2	0.6	19.5	8.2	
HPZ5.0-120B2	0.15	4.4	9.2	0.2	5.0	11.6	0.2	1.8	20.9	0.25	2.6	22.2	120
	0.2	7.9	5.5	0.3	11.2	5.2	0.25	5.5	14.0	0.3	5.7	16.2	
	0.25	11.1	3.3	0.4	15.6	2.9	0.3	8.4	9.3	0.4	11.3	10.8	
							0.4	13.4	6.4	0.5	15.3	7.3	

注：用户对性能参数及结构尺寸有特殊要求，订货时请注明。

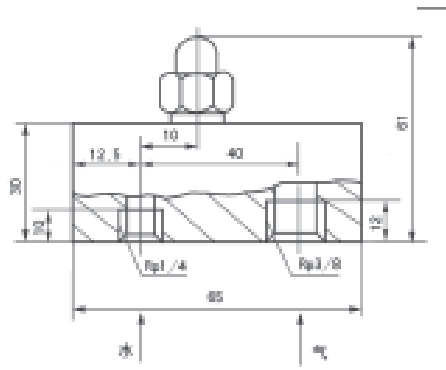
Note: If users have special requirements for the performance parameters, structure and size, please specify in ordering.



HPZ series nozzle HPZ 系列喷嘴



图一



图二

产品型号 Model	气压 (MPa) Atmospheric pressure(MPa)												喷射角 (°) Spray angle (degree)	备注 Remark
	0.15			0.2			0.25			0.3				
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)		
HPZ2.1-120B2	0.15	1.7	3.5	0.2	2.1	4.5	0.25	2.1	5.5	0.3	2.3	6.4	120	图一
	0.2	2.9	3.0	0.3	3.9	3.6	0.3	3.1	4.9	0.4	4	5.3		
	0.3	4.5	2.2	0.4	5.2	2.8	0.4	4.6	4.2	0.5	5.2	4.8		
	0.4	5.7	1.6	0.5	6.2	2.2	0.5	5.8	3.5	0.6	6.3	4.2		
HPZ2.1-102B2-B	0.15	1.7	3.5	0.2	2.1	4.5	0.25	2.1	5.5	0.3	2.3	6.4	102	图二
	0.2	2.9	3.0	0.3	3.9	3.6	0.3	3.1	4.9	0.4	4	5.3		
	0.3	4.5	2.2	0.4	5.2	2.8	0.4	4.6	4.2	0.5	5.2	4.8		
	0.4	5.7	1.6	0.5	6.2	2.2	0.5	5.8	3.5	0.6	6.3	4.2		
HPZ2.1-120B2-B	0.15	1.7	3.5	0.2	2.1	4.5	0.25	2.1	5.5	0.3	2.3	6.4	120	图二
	0.2	2.9	3.0	0.3	3.9	3.6	0.3	3.1	4.9	0.4	4	5.3		
	0.3	4.5	2.2	0.4	5.2	2.8	0.4	4.6	4.2	0.5	5.2	4.8		
	0.4	5.7	1.6	0.5	6.2	2.2	0.5	5.8	3.5	0.6	6.3	4.2		
HPZ7.3-120B2	0.1	2.7	9.1	0.15	3.8	11.0	0.2	4.8	12.5	0.25	5.5	14.0	120	图一
	0.15	6.6	6.3	0.2	7.3	8.1	0.25	8.0	9.4	0.3	8.7	11.2		
	0.2	10.3	4.9	0.3	13.4	5.3	0.3	11.3	7.6	0.4	14.3	8.2		
	0.3	15.6	3.1	0.4	18.1	3.8	0.4	16.0	5.9	0.5	18.4	6.4		
HPZ7.3-102B2-B	0.1	2.7	9.1	0.15	3.8	11.0	0.2	4.8	12.5	0.25	5.5	14.0	102	图二
	0.15	6.6	6.3	0.2	7.3	8.1	0.25	8.0	9.4	0.3	8.7	11.2		
	0.2	10.3	4.9	0.3	13.4	5.3	0.3	11.3	7.6	0.4	14.3	8.2		
	0.3	15.6	3.1	0.4	18.1	3.8	0.4	16.0	5.9	0.5	18.4	6.4		
HPZ7.3-120B2-B	0.1	2.7	9.1	0.15	3.8	11.0	0.2	4.8	12.5	0.25	5.5	14.0	120	图二
	0.15	6.6	6.3	0.2	7.3	8.1	0.25	8.0	9.4	0.3	8.7	11.2		
	0.2	10.3	4.9	0.3	13.4	5.3	0.3	11.3	7.6	0.4	14.3	8.2		
	0.3	15.6	3.1	0.4	18.1	3.8	0.4	16.0	5.9	0.5	18.4	6.4		

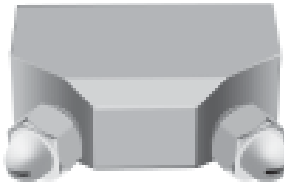
注：用户对性能参数及结构尺寸有特殊要求，订货时请注明。

Note: If users have special requirements for the performance parameters, structure and size, please specify in ordering.

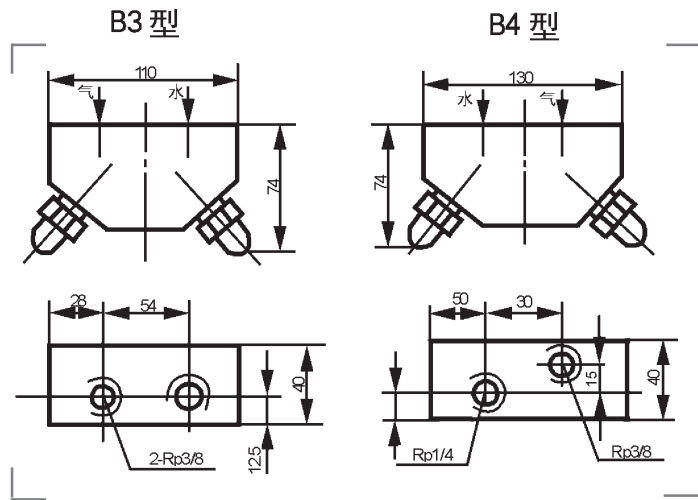
HPZ series nozzle HPZ 系列喷嘴

喷雾特性及用途:

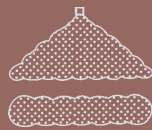
这种喷嘴主体采用轧制铜材，因而具有良好的密封、耐磨性，在使用中喷头磨损，可以更换，它的喷淋形状为扁平形，喷射角度大，雾化均匀，因而用较少喷嘴即可满足冷却要求；该喷嘴尤其适用于超低头及合金钢板坯连铸的二次冷却。



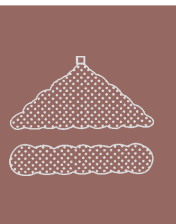
The body of the nozzle is made of rolled steel, so it has a good sealing and antiwear property. It can be used to replace the nozzle head when it is worn during operation. Its spray pattern is flat with large spray angle and even atomization. Therefore, the cooling requirements can be achieved with a small number of nozzles. The nozzle is especially suitable for the secondary cooling of slab continuous casting machine for extra-low-head and alloy steel.



产品型号 Model	气压 (MPa) Atmospheric pressure(MPa)												喷射角 (°) Spray angle (degree)
	0.15			0.2			0.25			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	
HPZ8-160B3	0.1	2.7	31.0	0.12	4.7	36.1	0.15	1.3	46.0	0.18	1.6	51.0	160
	0.2	11.0	21.0	0.2	8.0	28.0	0.2	5.5	39.0	0.2	2.8	48.0	
	0.3	17.0	16.0	0.3	15.0	21.0	0.3	12.5	30.0	0.3	9.8	36.0	
	0.4	22.1	12.5	0.4	20.1	17.0	0.4	18.0	24.0	0.4	15.8	30.0	
	0.5	26.0	10.0	0.5	25.0	14.0	0.5	23.2	20.0	0.5	21.0	25.0	
	0.6	30.0	8.0	0.6	29.0	12.0	0.6	28.0	17.0	0.6	26.0	21.0	
	0.7	33.0	6.0	0.7	33.0	10.3	0.7	32.0	15.0	0.7	31.0	18.0	
HPZ13.5-160B3	0.2	17.0	31.0	0.2	13.5	40.0	0.2	10.0	54.0	0.2	7.5	68.0	160
	0.3	24.1	28.0	0.3	22.0	35.0	0.3	19.0	44.0	0.3	16.0	53.0	
	0.4	30.0	26.0	0.4	28.0	32.0	0.4	26.0	40.0	0.4	24.0	46.0	
	0.5	36.0	24.0	0.5	33.0	30.0	0.5	32.0	38.0	0.5	30.0	43.0	
	0.6	40.0	23.0	0.6	38.0	29.0	0.6	36.0	36.0	0.6	35.0	40.0	
	0.7	44.0	22.1	0.7	42.0	28.0	0.7	40.0	35.0	0.7	39.0	39.0	
HPZ11.3-160B4	0.1	3.0	18.3	0.1	2.6	23.5	0.15	2.6	23.9	0.2	4.1	24.2	160
	0.15	10.8	10.0	0.15	5.0	18.0	0.2	5.9	20.2	0.25	7.5	20	
	0.2	18.8	4.0	0.2	11.3	12.5	0.25	12.7	13.0	0.3	15	13.5	
				0.25	21.7	4.5	0.3	21.4	7.0	0.35	23	8	



HPZ series nozzle HPZ 系列喷嘴



喷雾特性及用途:

这种喷嘴属气、水直交流内混式结构雾化喷嘴，喷雾分布呈山峰状，雾化良好，不易堵塞，与设备安装采用接板式连接，因而零件的安装及更换十分方便；该喷嘴主要适用于大方坯和大圆坯连铸的二次冷却，也可用于其它一切需冷却的设备中。

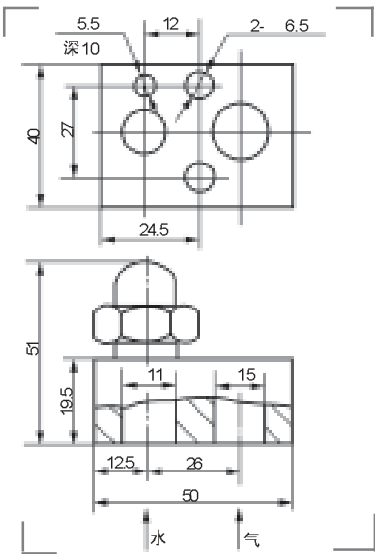
This type of nozzle is marked with the interior direct mixing of air and water, spreading in the shape of a peak and offering excellent atomization. It cannot be easily blocked up. The plate-type connection is adopted when the nozzle is fitted on equipment, providing convenient installation and replacement. The nozzle is mainly fit for secondary cooling of square/round bloom continuous casting machines, and can also be used for equipment that needs cooling.



A 型



B 型



产品型号 Model	气压 (MPa) Atmospheric pressure(MPa)												喷射角 (°) Spray angle (degree)
	0.15			0.2			0.25			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	
HPZ2.8-120B5	0.15	2.4	5.3	0.2	2.8	6.0	0.25	2.9	6.6	0.3	3.3	7	120
	0.2	3.2	4.7	0.25	3.3	5.4	0.3	3.6	6.1	0.35	3.8	6.5	
	0.25	3.9	4.3	0.3	4.1	5.1	0.35	4.3	5.8	0.4	4.3	6.3	
	0.3	4.5	3.8	0.35	4.6	4.8	0.4	4.8	5.4	0.45	4.9	6.0	
	0.35	5	3.5	0.4	5.2	4.2	0.45	5.4	5	0.5	5.4	5.6	
	0.4	5.6	2.8	0.45	5.8	3.8	0.5	5.8	4.6	0.55	5.9	5.1	
HPZ2.5-70B5	0.15	2.2	5.1	0.2	2.5	5.7	0.25	2.7	6.2	0.3	2.8	6.8	70
	0.2	3.1	4.2	0.25	3.3	4.9	0.3	3.3	5.6	0.35	3.5	6.1	
	0.25	3.9	3.4	0.3	4.2	4.1	0.35	4.1	5	0.4	4.3	5.4	
	0.3	4.7	2.6	0.35	4.7	3.6	0.4	4.8	4.3	0.45	4.9	4.8	
	0.35	5.3	2.1	0.4	5.4	2.9	0.45	5.5	3.5	0.5	5.5	4.3	
	0.4	5.9	1.5	0.45	6.0	2.4	0.5	6.0	3.2	0.55	6.0	3.7	
HPZ6.2-70B5	0.1	3.5	8	0.15	4.3	9.0	0.15	3.3	10.6	0.2	4.2	11.2	70
	0.15	5.3	6.9	0.2	6.2	7.8	0.2	5.2	9.6	0.25	5.7	10.3	
	0.2	7.5	5.6	0.25	8.1	6.6	0.25	6.5	8.7	0.3	7.3	9.5	
	0.25	9.3	4.4	0.3	9.8	5.5	0.3	8.3	7.5	0.35	8.8	8.2	
	0.3	10.4	3.5	0.35	10.8	4.6	0.35	9.8	6.3	0.4	9.7	7.2	
	0.35	12	2.7	0.4	12.3	3.8	0.4	11.3	5.7	0.45	11.1	6.4	

HPZ series nozzle HPZ 系列喷嘴

产品型号 Model	气压 (MPa) Atmospheric pressure(MPa)												喷射角 (°) Spray angle (degree)
	0.15			0.2			0.25			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	
HPZ1.8-90B5	0.1	1.2	8.0	0.1	1.0	10.3	0.2	1.7	11.9	0.2	1.6	13.5	90
	0.2	2.0	7.7	0.2	1.8	10.0	0.3	2.3	11.6	0.3	2.2	13.2	
	0.3	2.6	7.5	0.3	2.4	9.5	0.4	2.8	11.2	0.4	2.7	12.9	
	0.4	3.1	7.3	0.4	3.0	9.0	0.5	3.3	10.7	0.5	3.1	12.6	
	0.5	3.4	6.6	0.5	3.3	8.6	0.6	3.6	10.4	0.6	3.5	12.3	
HPZ2.5-120B5	0.1	1.6	11.4	0.15	2.0	12.8	0.2	2.3	14.8	0.2	2.1	16.9	120
	0.2	2.6	10.4	0.2	2.5	12.5	0.3	3.1	14.0	0.3	2.9	16.7	
	0.3	3.4	9.7	0.3	3.2	12.1	0.4	3.7	13.6	0.4	3.6	16.3	
	0.4	4.0	9.3	0.4	3.9	11.6	0.5	4.3	13.2	0.5	4.2	16.0	
				0.5	4.4	11.3	0.6	4.8	12.8	0.6	4.7	15.6	
HPZ2.7-120B5	0.1	1.7	11.2	0.1	1.4	13.4	0.2	2.5	15.3	0.2	2.3	17.8	120
	0.2	3.1	9.8	0.2	2.7	12.9	0.3	3.6	14.2	0.3	3.3	17.1	
	0.3	4.2	9.3	0.3	3.9	11.4	0.4	4.6	13.1	0.4	4.3	15.7	
	0.4	5.2	8.2	0.4	4.9	10.1	0.5	5.4	12.4	0.5	5.1	14.9	
	0.5	6.0	6.5	0.5	5.7	8.8	0.6	6.2	11.3	0.6	5.9	14.0	

产 品 型 号 Model	气压 (MPa) Atmospheric pressure(MPa)												喷 射 角 (°) Spray angle (degree)
	0.1			0.2			0.3			0.4			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	
HPZ0.8-90B5				0.2	0.8	9.5	0.2	0.4	14.2	0.3	0.7	18.8	90
				0.3	1.4	8.8	0.3	1.0	13.0	0.4	1.2	17.3	
				0.4	1.7	8.1	0.4	1.5	12.2	0.5	1.5	16.2	
				0.5	2.1	7.4	0.5	1.8	11.5	0.6	1.9	14.8	
				0.6	2.4	7.0	0.6	2.1	10.8				
HPZ1.5-70B5	0.1	1.1	7.8	0.1	1.0	11.0	0.2	1.4	14.6	0.2	1.3	18.6	70
	10.2	1.7	7.0	0.2	1.5	10.9	0.3	1.9	14.5	0.3	1.7	18.5	
	0.3	2.1	6.7	0.3	2.0	10.6	0.4	2.2	14.5	0.4	2.1	18.5	
	0.4	2.5	6.6	0.4	2.4	10.6	0.5	2.6	14.4	0.5	2.4	18.4	
				0.5	2.7	10.3	0.6	2.9	14.3	0.6	2.7	18.2	
HPZ1.5-120B5	0.1	1.2	7.5	0.1	1.0	11.5	0.2	1.4	15.4	0.2	1.3	18.8	120
	0.2	1.7	6.8	0.2	1.5	11.4	0.3	1.9	15.2	0.3	1.7	18.7	
	0.3	2.2	5.7	0.3	2.0	10.6	0.4	2.2	14.9	0.4	2.1	18.6	
				0.4	2.4	10.4	0.5	2.6	14.3	0.5	2.4	18.5	
				0.5	2.7	10.4	0.6	2.9	14.2	0.6	2.7	18.5	

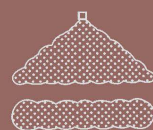
产 品 型 号 Model	气压 (MPa) Atmospheric pressure(MPa)												喷射角 (°) Spray angle (degree)
	0.15			0.2			0.25			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	
HPZ2. 2-110BX	0.1	1.77	6.10	0.1	0.75	11.91	0.2	1.82	13.02	0.2	1.48	15.04	110
	0.2	3.42	4.14	0.2	2.20	9.29	0.3	3.30	10.93	0.3	2.83	13.10	
	0.3	4.63	2.75	0.3	3.63	7.52	0.4	4.40	8.74	0.4	3.95	11.00	
				0.4	4.88	6.10	0.5	5.52	7.04	0.5	5.05	9.26	
				0.5	6.03	4.81	0.6	6.40	6.35	0.6	5.93	7.95	

中国喷嘴制造基地 Chinese nozzle manufacture base

注：用户对性能参数及结构尺寸有特殊要求，订货时请注明。

Note: If users have special requirements for the performance parameters, structure and size, please specify in ordering.

HPZ 系列气-水雾化喷嘴 HPZ series air-water atomizing nozzle



HPZ series nozzle HPZ 系列喷嘴

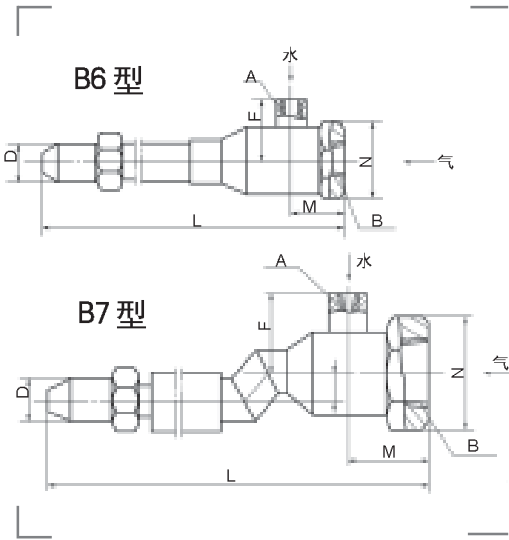
HPZ series air-water atomizing nozzle HPZ 系列气-水雾化喷嘴



喷雾特性及用途:

该喷嘴结构新颖，喷淋形式为扁平带状，喷射角较大、雾化均匀，喷口不易堵塞，嘴体用不锈钢制作而成，因此，同普通喷嘴相比，具有使用寿命长，性能稳定等特点；主要用于大板坯连铸机的二次冷却，也可用来净化空气，冷却设备中。

The nozzle has a new structure. The spray pattern is like flat band, with a bigger spray angle and even atomization. The nozzle aperture cannot be easily blocked up. The nozzle body is made of stainless steel, so it has the feature of long service life and stable performance comparing with the general nozzle. It is mainly used for the secondary cooling of large slab continuous casting machine and can be also used for air cleaning and cooling of equipment.

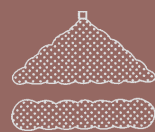


产品型号 Model	外形尺寸 Outline size							备注 Remark
	A	B	M	N	F	D	L	
HPZ5.2-130B6	Rc1/4	Rc1/4	28.5	36.5	34.5	20	550	B6 型
HPZ7.2-130B6	Rc1/4	Rc1/4	28.5	36.5	34.5	20	550	B6 型
HPZ11.1-90B6	Rc1/4	Rc3/8	28.5	36.5	34.5	20	100	B6 型
HPZ15-130B6	Rc1/2	Rc1/2	37	53	49	25	550	B6 型
HPZ24.1-130B7	Rc1/2	Rc1/2	37	53	49	31	450	B7 型
HPZ24.1-130B6	Rc1/2	Rc1/2	37	53	49	31	450	B6 型
HPZ35.7-130B7	Rc1/2	Rc1/2	37	53	49	31	450	B7 型
HPZ35.7-130B6	Rc1/2	Rc1/2	37	53	49	31	450	B6 型
HPZ24-130B6	Rc1/2	Rc1/2	37	53	49	40	475	B6 型
							295	
							225	
							175	

注：用户对性能参数及结构尺寸有特殊要求，订货时请注明。
Note: If users have special requirements for the performance parameter, structure and size, please specify in ordering.

HPZ series nozzle HPZ 系列喷嘴

产品型号 Model	技术性能 Technical						
	气压 Atmospheric pressure (MPa)	水压 Water pressure (MPa)	气量 Air flow (Nm ³ /h)	水量 Water flow (L/min)	气、水体积比 ratio of volume of Air & water	平均粒子度 (average grain size	喷射角 (Spray angle (degree)
HPZ5.2-130B6	0.072	0.072	10.5	2.40	72.92	81.4	130
	0.125	0.192	10.5	5.20	33.65	92.1	
	0.184	0.365	10.5	8.00	21.88	108.1	
HPZ7.2-130B6	0.077	0.075	14.4	3.30	72.73	82.8	130
	0.133	0.199	14.4	7.15	33.57	95.0	
	0.190	0.387	14.4	11.00	21.82	115.6	
HPZ11.1-90B6	0.068	0.066	22.2	5.10	72.55	69.9	90
	0.119	0.191	22.2	11.05	33.48	82.7	
	0.183	0.377	22.2	17.00	21.76	96.2	
HPZ15-130B6	0.076	0.074	30.1	6.90	72.71	88.5	130
	0.135	0.199	30.1	14.95	33.56	110.1	
	0.195	0.377	30.1	23.00	21.81	132.0	
HPZ24.1-130B7	0.075	0.074	48.4	11.10	72.67	92.9	130
	0.129	0.195	48.4	24.05	33.54	139.1	
	0.186	0.367	48.4	37.00	21.80	152.2	
HPZ24.1-130B6	0.070	0.069	48.4	11.10	72.67	92.9	130
	0.121	0.193	48.4	24.05	33.54	139.1	
	0.179	0.368	48.4	37.00	21.80	152.2	
HPZ24-130B6	0.20	0.20	102.5	24.00	71.2		130
	0.25	0.3	87.0	33.33	43.5		
	0.30	0.35	112.0	35.00	53.3		
	0.35	0.55	99.7	55.00	30.2		
HPZ35.7-130B7	0.073	0.072	71.9	16.50	72.63	95.8	130
	0.13	0.2	71.9	35.75	33.52	151.3	
	0.189	0.377	71.9	55.00	21.79	168.4	
HPZ35.7-130B6	0.070	0.068	71.9	16.50	72.63	95.8	130
	0.122	0.195	71.9	35.75	33.52	151.3	
	0.184	0.383	71.9	55.00	21.79	168.4	



HPZseriesnozzle HPZ 系列喷嘴

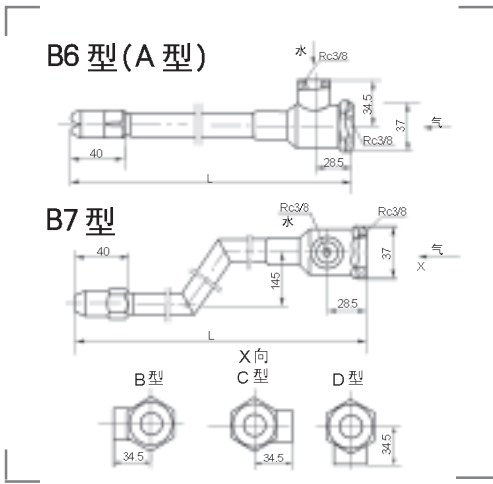
HPZ 系列气-水雾化喷嘴



喷雾特性及用途：

这种喷嘴喷淋形式为扇形，喷射角较大，且雾化非常均匀，并能够在辊缝很窄的情况下，尽可能接近铸坯表面，从而使铸坯获得良好的冷却效果；此类喷嘴主要适用于板坯及大方坯连铸的二次冷却。

The spray pattern of the nozzle is in flat shape, with a large spray angle and very even atomization. It can be close to the surface of slab as much as possible under the condition that roller gap is very narrow, so as to make slab to get good cooling result. This nozzle is mainly suitable for the secondary cooling of continuous casting machine for plate blank and large square blank.



产品型号 Model	气压 (MPa) Atmospheric pressure(MPa)									喷射角 (°) Spray angle (degree)
	0.1			0.2			0.24			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	
HPZ3.9-130B6	0.2	5.2	11.6	0.2	3.9	22.1	0.2	3.7	26.1	130
	0.4	8.2	8.5	0.4	7.3	18.2	0.4	6.8	21.2	
	0.6	9.7	7.1	0.6	9.6	15.1	0.6	9.3	18.3	
HPZ4.6-130B6	0.2	5.9	19.1	0.2	4.6	25.5	0.2	4.3	30.4	130
	0.4	9.2	9.7	0.4	8.2	20.9	0.4	7.8	25.4	
	0.6	10.8	8.1	0.6	10.8	17.3	0.6	10.6	21.3	
HPZ5.3-130B6	0.2	7.7	16.5	0.2	5.3	39.5	0.2	4.3	50.6	130
	0.4	12.1	9.6	0.4	10.6	26.0	0.1	9.8	33.5	
	0.6	14.8	7.3	0.6	14.0	18.9	0.6	13.4	25	
HPZ6.6-130B6 A 型	0.2	9.5	14.4	0.2	6.6	36.5	0.2	5.6	47.8	130
	0.4	15.8	7.5	0.4	13.5	22.6	0.4	12.7	29.5	
	0.6	19.1	5.5	0.6	18.2	15.9	0.6	17.4	21.7	
HPZ6.6-130B7 B、C、D 型	0.2	9.5	14.4	0.2	6.6	36.5	0.2	5.6	47.8	130
	0.4	15.8	7.5	0.4	13.5	22.6	0.4	12.7	29.5	
	0.6	19.1	5.5	0.6	18.2	15.9	0.6	17.4	21.7	

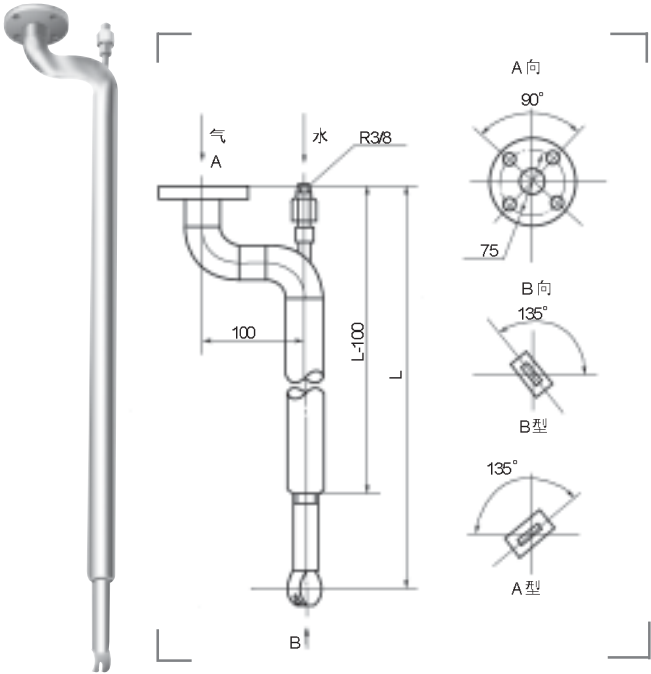
注：尺寸 L 可根据用户需要给定。
Note: Size L can be changed according to requirement of users.

HPZ series nozzle HPZ 系列喷嘴

喷雾特性及用途:

该喷嘴结构新颖，雾化效果好，性能稳定，耗水量小，喷头可更换，安装对中十分方便，喷射形状为扇形，水流分布为长方形抛物线状；主要适用于大板坯连铸机扇形段的二次冷却，也适用于空气增湿，设备冷却等。

The nozzle has a new structure, good atomizing result, stable performance and low water consumption. The spray head can be replaced and it is easy to be centered. The spray pattern is in flat shape, and the flow distribution is rectangle parabola. It is mainly suitable for the secondary cooling of same-nt of continuous casting machine for large slab and can be also used for increasing air humidity and the cooling of equipment.



产品型号 Model	气压 (MPa) Atmospheric pressure(MPa)												喷射角 (°) Spray angle (degree)
	0.15			0.2			0.25			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	
HPZ2.7-130B8 (A B 型)	0.2	3.7	46.5	0.25	3.9	52.5	0.3	3.8	59.0	0.35	3.8	63.5	130
	0.3	6.8	37.0	0.3	5.7	47.0	0.4	6.8	48.5	0.4	5.8	57.0	
	0.4	8.8	31.8	0.4	7.8	40.3	0.5	8.8	43.0	0.5	7.8	50.8	
	0.5	10.3	29.0	0.5	9.7	36.0	0.6	10.4	39.3	0.6	9.8	46.5	
	0.55	10.9	28.5	0.6	11.1	33.0	0.7	11.7	37.0	0.7	11.0	43.3	
HPZ3.7-130B8 (A B 型)	0.2	5.0	42.0	0.25	5.3	47.0	0.3	5.2	52.3	0.35	5.0	59	130
	0.3	9.1	31.0	0.3	7.3	40.5	0.4	9.0	42.0	0.4	7.4	51.7	
	0.4	11.8	26.0	0.4	10.3	32.5	0.5	11.7	35.3	0.5	10.4	49.3	
	0.5	13.8	23.7	0.5	12.8	29.3	0.6	13.8	32.0	0.6	12.7	39.0	
	0.55	14.4	23.2	0.6	14.9	26.5	0.65	14.8	30.5	0.7	14.8	36.0	

注：尺寸L 可根据用户需要给定。

Note:Size L can be changed according to requirement of users.

HPZ系列气-水雾化喷嘴

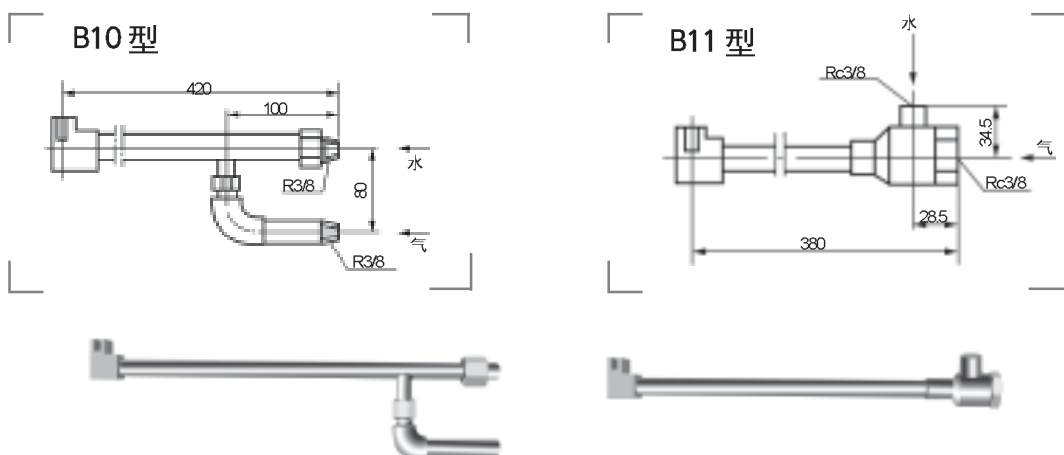
Note:Size L can be changed according to requirement of users.

HPZseriesnozzle HPZ 系列喷嘴

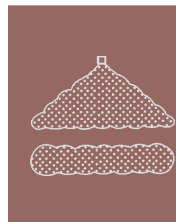
喷雾特性及用途:

该喷嘴结构简单、安装调试方便，喷射形状为扁平状，射流稳定；主要适用于连铸机扇形段足辊的外冷却，也可用于其它机械冷却、清洗等。

The nozzle has a simple structure and can be easily installed. The spray pattern is flat, with the stable injection. It is mainly suitable for outside cooling of foot roller at segment of continuous casting machine and can be also used for cooling and cleaning of other machines.



产品型号 Model	气压 (MPa) Atmospheric pressure(MPa)												喷射角 (°) Spray angle (degree)
	0.15			0.2			0.25			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	
HPZ5-20B10	0.15	4.8	32.6	0.1	1.9	43.3	0.1	1.8	52.4	0.15	2.3	59.6	20
	0.2	5.7	31.1	0.15	3.7	42.4	0.15	3.7	50.5	0.2	4.3	58	
	0.25	6.9	29.9	0.2	5	39.8	0.2	4.7	48.6	0.3	6.3	54.8	
	0.27	7.5	29.6	0.25	6.1	38.9	0.3	6.8	46.8	0.4	8	52.4	
	0.3	7.9	29.0	0.3	7.1	38.1	0.4	8.5	43.8	0.5	10.2	49	
HPZ4.6-20B11	0.1	2.9	39.0	0.2	4.6	44.9	0.2	4.0	53.7	0.3	5.5	57.7	20
	0.2	5.4	33.1	0.3	6.7	39.0	0.3	6.0	48.9	0.4	7.1	53.9	
	0.3	7.3	29.2	0.4	8.0	35.2	0.4	7.4	44.8	0.5	8.5	50.1	
	0.4	8.6	25.5	0.5	9.6	31.9	0.5	9.0	40.9	0.6	10.0	46.7	

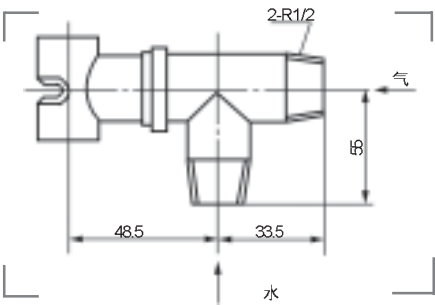


HPZ series nozzle HPZ 系列喷嘴

喷雾特性及用途:

这种喷嘴的主体及喷头均采用精密铸造工艺制造而成,具有结构紧凑,技术性能良好,雾化均匀等特点;主要用于板坯连铸机二次冷却,也可用于环保中净化空气及其它工序的冷却。

The body of the nozzle and the nozzle head are manufactured in precision casting technology and have the features of compact structure, good technical property, even atomization etc. It is mainly suitable for the secondary cooling of slab continuous casting machine and can be also used for air-cleaning of environmental protection and cooling in other procedures.



产品型号 Model	气压 (MPa) Atmospheric pressure(MPa)												喷射角 (°) Spray angle (degree)
	0.15			0.2			0.25			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	
HPZ2-85B12	0.1	2.8	6.4	0.1	2.0	7.9	0.1	1.2	8.8	0.15	2.0	9.3	85
	0.2	5.8	4.6	0.2	4.1	6	0.2	4.3	7.6	0.2	3.3	8.7	
	0.3	8.3	3.2	0.3	7.3	4.4	0.3	6.5	5.8	0.3	5.7	7.1	
				0.4	9.7	3.4	0.4	8.7	4.1	0.4	7.8	5.7	
HPZ3.8-85B12	0.15	3.3	9.8	0.2	3.8	11	0.25	3.7	13	0.3	4.2	12.2	85
	0.2	7.7	4.3	0.3	10.7	3.7	0.3	8.3	5.7	0.4	10.3	5.2	
HPZ7-100B12	0.1	3.0	24.2	0.2	7.0	23.0	0.2	4.5	29	0.25	5.3	30.0	100
	0.2	8.7	17.8	0.3	11.3	16.3	0.3	9.7	22.8	0.3	8.0	27.5	
	0.3	13.0	13.2	0.4	15.0	14.0	0.4	13.3	17.8	0.4	11.5	23.2	
	0.4	16.7	11.0	0.5	18.3	12.8	0.5	16.8	15.2	0.5	15.3	18.0	
	0.5	19.7	10.5	0.6	21.0	12.0	0.6	19.8	13.7	0.6	18.7	16.0	
HPZ9.7-100B12	0.1	3.5	30	0.15	5.0	28.0	0.2	6.2	34.0	0.5	3.5	41.5	100
	0.2	13.3	18.8	0.2	9.7	23.0	0.3	14.7	25.5	0.3	11.3	33.8	
	0.3	21.0	15	0.3	17.8	19.4	0.4	21.2	20.5	0.4	18.7	25.0	
	0.4	26.2	13.40	0.4	24.0	16.5	0.5	26.3	18.0	0.5	24.0	22.2	
HPZ20-100B12	0.1	10.7	15.2	0.1	9.0	19.25	0.15	12.0	21.3	0.15	9.0	26.6	100
	0.15	17.3	11.2	0.15	18.0	17.1	0.2	16.7	18.6	0.2	13.3	25.0	
	0.2	32.5	3.6	0.2	20.0	12.0	0.25	21.7	14.9	0.3	24.2	17.8	
				0.25	33.3	4.9	0.3	30.0	10.5	0.4	43.3	5.4	

HPZ series nozzle HPZ 系列喷嘴

喷雾特性及用途:

该喷嘴结构新颖,采用接板连接的安装形式,其喷淋形式为扁平形,喷雾均匀,水流分布呈长抛物线状;主要适用于大方坯和大板坯连铸的二次冷却,也可用于环保中的除尘,空气增湿等。

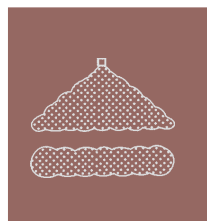
The nozzle, novel in structure, adopts connecting board for the installation mode. The spray is in a flat shape, providing uniform atomized water distribution. The nozzle is mainly used in the secondary cooling of continuous casting machine for large bloom and large slab, and can also be used for dust removal, increasing air humidity, etc. as well as in environment protection.



产品型号 Model	气压 (MPa) Atmospheric pressure(MPa)												喷射角 (°) Spray angle (degree)
	0.15			0.2			0.25						
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	
HPZ2.7-130B13	0.15	2.7	5.7	0.2	2.7	6.6	0.25	2.8	7.4	0.3	3.0	7.9	130
	0.20	4.3	3.7	0.25	4.5	4.7	0.3	4.6	5.5	0.4	5.8	4.7	
	0.25	5.8	2.6	0.3	5.8	3.4	0.4	6.8	3.4	0.5	7.8	3.2	
	0.30	6.8	2.1	0.35	7.0	2.7	0.5	8.6	2.3	0.6	9.6	2.4	
HPZ9.7-130B13	0.1	4.3	25.0	0.15	5.7	27.7	0.2	6.8	30.0	0.2	4.3	35.0	130
	0.2	12.4	17.8	0.2	9.7	24.5	0.3	13.4	24.8	0.3	11.3	29.5	
	0.3	17.6	15.0	0.3	15.6	20.0	0.4	18.3	21.2	0.4	16.7	25.0	
	0.4	21.8	13.5	0.4	20.2	17.3	0.5	22.5	19.0	0.5	20.8	22.5	
HPZ11.2-130B13	0.1	3.7	29.5	0.15	4.5	31.0	0.2	6.0	33.0	0.25	7.7	35.0	130
	0.2	16.5	17.3	0.2	11.2	23.7	0.3	18.0	22.5	0.3	13.3	29.0	
	0.3	26.2	11.0	0.3	22.3	17.0	0.4	26.7	17.0	0.4	23.1	23.0	
	0.4	33.3	8.0	0.4	30.2	12.6	0.5	33.3	13.3	0.5	30.0	18.0	
HPZ2.4-95B13	0.15	2.2	4.8	0.2	2.4	5.6	0.25	2.8	5.9	0.3	2.9	6.4	95
	0.2	3.0	4.2	0.25	3.2	4.8	0.3	3.4	5.2	0.35	3.5	6.0	
	0.25	3.7	3.6	0.3	3.8	4.2	0.35	4.0	4.9	0.4	4.1	5.6	
	0.3	4.3	3.1	0.35	4.4	3.9	0.4	4.5	4.6	0.45	4.6	5.2	
	0.35	4.9	2.6	0.4	4.9	3.4	0.45	5.1	4.1	0.5	5.1	4.8	
	0.4	5.3	2.3	0.45	5.5	3.2	0.5	5.6	3.8	0.55	5.7	4.4	

注:用户对性能参数及结构尺寸有特殊要求,订货时请注明。

Note: If users have special requirements for the performance parameters, structure and size, please specify in ordering.

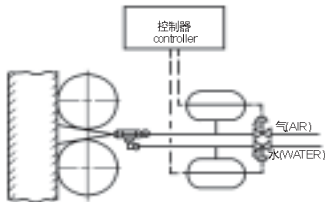
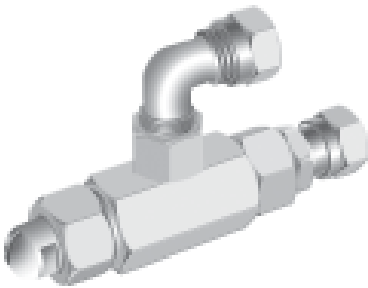


HPZ series nozzle HPZ 系列喷嘴

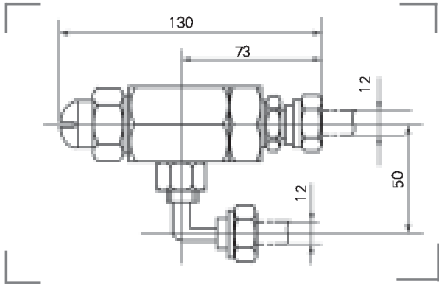
喷雾特性及用途:

该系列喷嘴结构新颖, 连接安装形式为卡套接管式, 安装对中十分方便, 在使用过程中喷头磨损, 可以更换, 它的喷淋形状为扁平带状, 具有雾化均匀, 水量调节范围宽, 不易堵塞等特点; 主要用于板坯连续铸宽面的二次冷却及所需雾化增湿的场所。

The series nozzle has new structure. The type of connection and installation is cartridge sleeve type. It is very easy for centering in installation. The nozzle head can be replaced during operation if the head is worn. Its spraying pattern is flat banding. It has the features of even spraying, large range for adjusting water flow and not being blocked up. It is mainly used for the secondary cooling of the wide face of slab continuous casting machine and the place needing spray and humidification.



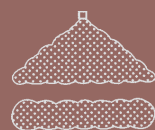
喷嘴的安装及性能控制
nozzle installation and performance control



产品型号 Model	气压 (MPa) Atmospheric pressure(MPa)												喷射角 (°) Spray angle (degree)
	0.15			0.2			0.25			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	
HPZ4.3-85B14	0.1	2.8	11.2	0.15	3.4	12.8	0.15	2.9	16.1	0.2	3.3	18.0	85
	0.15	3.8	10.1	0.2	4.3	12.3	0.2	3.8	15.0	0.3	5.1	16.3	
	0.2	5.0	9.3	0.3	6.2	10.6	0.3	5.8	13.4	0.4	6.8	14.7	
	0.3	6.9	7.4	0.4	7.8	8.7	0.4	7.3	11.7	0.5	8.2	13.0	
HPZ4.8-85B14	0.1	1.9	17.3	0.15	2.4	19.5	0.15	1.45	25.9	0.2	2.0	28.4	85
	0.15	4.4	11.8	0.2	4.8	13.6	0.2	3.0	21.4	0.3	5.6	18.7	
	0.2	7.0	8.5	0.3	9.2	7.3	0.3	7.5	12.6	0.4	9.5	12.6	
	0.3	10.7	4.9	0.4	12.4	3.9	0.4	10.9	7.6	0.5	12.5	7.3	
HPZ5.3-85B14	0.1	2.9	9.8	0.15	3.6	14.2	0.15	2.9	21.9	0.2	3.6	23.7	85
	0.15	4.7	8.0	0.2	5.3	12.9	0.2	4.2	17.0	0.3	6.2	21.6	
	0.2	6.4	6.8	0.3	8.2	11.6	0.3	7.4	12.7	0.4	9.1	19.8	
	0.25	8.0	6.1	0.4	11.0	9.8	0.4	10.0	10.5	0.5	11.3	16.1	

HPZ series nozzle HPZ 系列喷嘴

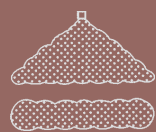
产品型号 Model	气压 (MPa) Atmospheric pressure(MPa)												喷射角 (°) Spray angle (degree)
	0.15			0.2			0.25			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	
HPZ5.8-85B14	0.1	1.5	28.4	0.15	2.2	31.6	0.15	0.8	41.5	0.2	1.3	46.0	85
	0.15	5.2	20.9	0.2	5.8	25.2	0.2	3.0	35.2	0.3	6.2	33.1	
	0.2	8.8	18.8	0.3	12.7	19.9	0.3	10.0	25.9	0.4	12.7	26.5	
	0.25	12.8	11.6	0.35	15.5	15.0	0.35	12.7	21.0	0.5	17.5	15.5	
HPZ4.5-95B14	0.1	2.5	7.9	0.15	3.1	10.4	0.15	2.5	13.8	0.2	3.0	16.0	95
	0.15	4.1	6.2	0.2	4.5	8.3	0.2	3.6	13.1	0.3	5.5	13.6	
	0.2	5.9	5.5	0.3	7.5	7.1	0.3	6.5	10.5	0.4	8.0	11.2	
	0.3	8.8	3.0	0.4	10.0	4.3	0.4	8.9	8.0	0.5	10.0	9.6	
HPZ4.6-95B14	0.1	1.6	18.8	0.15	2.4	20.8	0.15	1.5	27.0	0.2	2.0	29.5	95
	0.15	4.1	13.3	0.2	4.6	15.9	0.2	3.1	22.9	0.3	5.6	20.9	
	0.2	7.0	8.7	0.3	9.6	8.2	0.3	7.7	13.3	0.4	10.0	12.7	
	0.3	11.5	4.7	0.4	13.5	4.0	0.4	11.9	7.5	0.5	13.7	8.3	
HPZ5.9-95B14	0.12	1.5	30.6	0.17	2.1	34.7	0.22	2.5	39.3	0.28	4.3	35.7	95
	0.15	5.1	15.6	0.2	5.9	18.8	0.25	6.3	22.9	0.3	7.1	24.5	
	0.17	8.8	8.2	0.23	11.5	7.1	0.28	12.2	10.4	0.33	12.3	13.6	
HPZ4.6-115B14	0.1	2.9	11.2	0.15	3.5	13.1	0.15	3.1	16.2	0.2	3.7	18.4	115
	0.15	4.1	10.2	0.2	4.6	12.5	0.2	4.0	15.4	0.3	5.4	16.8	
	0.2	5.2	8.9	0.3	6.5	10.6	0.3	6.0	13.8	0.4	7.1	15.4	
	0.3	7.1	7.7	0.4	8.0	8.9	0.4	7.6	12.0	0.5	8.4	13.5	
HPZ5.0-115B14	0.1	2.7	13.5	0.15	3.4	15.9	0.15	2.7	20.5	0.2	3.3	22.8	115
	0.15	4.5	11.0	0.2	5.0	13.6	0.2	4.1	18.2	0.3	5.9	18.6	
	0.2	6.15	9.1	0.3	7.9	10.2	0.3	6.9	14.4	0.4	8.2	15.4	
	0.3	8.9	5.6	0.4	10.1	7.2	0.4	9.1	10.5	0.5	10.3	11.9	
HPZ5.3-115B14	0.1	2.4	16.9	0.15	3.1	19.8	0.15	2.0	26.0	0.2	2.6	28.6	115
	0.15	4.9	12.3	0.2	5.3	15.2	0.2	3.7	22.1	0.3	6.3	20.2	
	0.2	7.3	9.2	0.3	9.4	9.1	0.3	7.9	14.7	0.4	9.7	14.4	
	0.3	11.0	4.4	0.4	12.6	5.2	0.4	11.2	9.4	0.5	12.7	9.7	
HPZ5.8-115B14	0.1	1.0	25.6	0.15	1.6	28.4	0.2	2.0	32.2	0.25	2.4	35.5	115
	0.15	5.2	12.4	0.2	5.8	14.7	0.25	6.4	17.2	0.3	6.8	20.5	
	0.2	10.4	5.1	0.25	10.6	7.6	0.3	11.0	9.7	0.35	11.2	12.0	



HPZ series nozzle HPZ 系列喷嘴

HPZ series air-water atomizing nozzle

HPZ 系列气-水雾化喷嘴



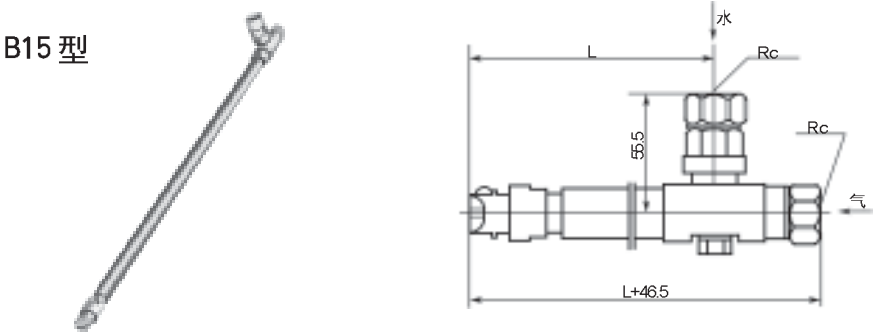
产品型号 Model	气压 (MPa) Atmospheric pressure(MPa)												喷射角 (°) Spray angle (degree)
	0.15			0.2			0.25			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	
HPZ2.5-95B14	0.1	1.7	3.2	0.15	2.0	3.7	0.15	1.9	5.2	0.2	2.2	6.6	95
	0.15	2.2	2.5	0.2	2.5	3.6	0.2	2.3	5.0	0.3	3.0	6.4	
	0.2	2.6	2.4	0.3	3.3	3.5	0.3	3.1	4.9	0.4	3.6	6.2	
	0.3	3.4	2.2	0.4	3.9	3.4	0.4	3.7	4.7	0.5	4.2	6.0	
HPZ2.9-95B14	0.1	1.8	4.1	0.15	2.2	6.1	0.15	1.8	7.9	0.2	2.1	9.2	95
	0.15	2.6	3.8	0.2	2.9	5.7	0.2	2.5	7.5	0.3	3.4	8.8	
	0.2	3.3	3.3	0.3	4.2	4.5	0.3	3.8	6.7	0.4	4.5	8.0	
	0.3	4.7	2.7	0.4	5.3	3.3	0.4	5.0	5.6	0.5	5.5	6.2	
HPZ1.8-95B14	0.15	1.6	7.3	0.2	1.8	9.0	0.25	1.8	13.1	0.3	2.2	15.0	95
	0.2	2.8	5.4	0.3	3.8	6.8	0.3	3.0	10.7	0.4	3.8	10.8	
	0.3	4.4	3.6	0.4	5.0	4.9	0.4	4.5	8.2	0.5	5.1	8.6	
	0.4	5.7	2.4	0.5	6.2	3.6	0.5	5.7	6.2	0.6	6.3	6.8	
HPZ2.4-95B14	0.15	2.3	6.5	0.2	2.4	8.8	0.25	2.6	9.9	0.3	2.7	13.0	95
	0.2	3.9	4.1	0.3	5.3	4.2	0.3	4.0	7.7	0.4	5.5	8.6	
	0.25	5.3	2.7	0.35	6.4	2.9	0.4	6.4	4.8	0.5	7.3	5.6	
				0.4	7.3	2.3	0.5	8.2	3.0	0.6	8.9	3.8	
HPZ3.4-95B14	0.1	1.6	10.0	0.15	2.2	11.3	0.15	1.6	14.9	0.2	2.0	16.2	95
	0.15	3.0	8.2	0.2	3.4	10.1	0.2	2.5	13.3	0.3	3.9	13.3	
	0.2	4.4	6.7	0.3	5.4	6.2	0.3	4.7	10.5	0.4	5.7	11.1	
	0.3	6.3	3.3	0.4	7.2	5.5	0.4	6.5	6.8	0.5	7.3	8.6	
HPZ3.6-95B14	0.1	0.9	19.9	0.15	1.1	21.8	0.2	1.4	24.4	0.25	1.9	26.4	95
	0.15	3.3	10.0	0.2	3.6	12.1	0.3	6.8	8.0	0.3	4.2	16.1	
	0.2	6.8	3.0	0.3	9.5	3.3	0.35	9.5	4.0	0.4	9.8	4.9	
HPZ2.7-90 × 30B14	0.1	2.0	5.2	0.15	2.4	6.4	0.15	2.3	7.5	0.2	2.3	8.6	90 × 30
	0.15	2.5	5.1	0.2	2.7	6.5	0.2	2.5	7.4	0.3	2.8	8.4	
	0.2	2.9	5.1	0.3	3.4	6.2	0.3	3.1	7.4	0.4	3.4	8.4	
	0.3	3.6	5.0	0.4	3.9	6.2	0.4	3.6	7.3	0.5	3.8	8.5	
HPZ3.8-90 × 30B14	0.15	3.1	18.4	0.2	3.8	16.5	0.25	4.1	19.9	0.3	4.5	22.9	90 × 30
	0.2	4.6	11.5	0.3	5.9	13.1	0.3	5.2	18.2	0.4	6.5	19.8	
	0.3	6.6	8.6	0.4	7.9	10.3	0.4	7.2	15.2	0.5	8.2	16.4	
	0.4	8.7	6.2	0.5	9.4	8.3	0.5	8.8	12.2	0.6	9.9	13.9	

HPZ series nozzle HPZ 系列喷嘴

喷雾特性及用途:

该系列喷嘴结构独特，是直交内混式喷雾喷嘴，其喷雾形状为扇形，整个雾区分布非常均匀，冲击力较高，水量调节范围极宽，调节比可达1：25，耗气量比同类产品低，喷头的不同定位方向可以使喷水面平行喷雾或垂直喷雾，使用中更换磨损的喷头也十分方便；该产品是浇铸不同断面、不同钢种和拉速变化时的专用喷嘴，主要适用于板坯连铸的二次冷却，尤其是特钢连铸。

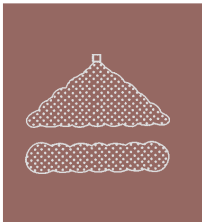
This series nozzle has special structure.It is a direct-interesection internal mix nozzle.Its spraying pattern is flat.The drops distribution of the whole spraying area is very even.The impact is bigger.The adjusting range of water flow is very large.The adjusting ratio can reach1:25. gasconsumption is lower than the product of the same type.The different setting directions of nozzle head can make parallel spray and vertical spray.It is very easy to replace the worn nozzle head during operation.The product is especially suitable for casting different sections and steels and while the change of pulling speed is big.It is mainly used for the secondary cooling of slab continuous casing machine.especially for special steel.



产品型号 Model	气压 (MPa) Atmospheric pressure(MPa)									喷射角 (°) Spray angle (degree)	Rc
	0.2			0.3			0.4				
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)		
HPZ2.0-96B15	0.2	2.0	14.9	0.2	1.2	24.7	0.3	1.7	29.5	96	3/8
	0.3	3.1	11.4	0.3	2.2	20.6	0.4	2.5	26.3		
	0.4	4.5	8.0	0.4	3.3	18.6	0.5	3.5	23.4		
	0.5	5.5	6.1	0.5	4.6	13.0	0.6	4.7	18.6		
	0.6	6.3	5.6	0.6	5.6	11.6					
HPZ1.0-120B15	0.2	1.0	7.4	0.2	0.9	11.7	0.2	0.8	15.3	120	
	0.3	1.2	7.2	0.3	1.1	11.4	0.3	1.0	15.0		
	0.4	1.4	7.1	0.4	1.3	11.3	0.4	1.2	14.9		
	0.5	1.6	6.9	0.5	1.5	10.9	0.5	1.4	14.8		
	0.6	1.8	6.8	0.6	1.7	10.7	0.6	1.6	14.3		

注：尺寸L 可根据用户需要给定

Note:Size L can be changed accrding to requirement of users.



HPZ series nozzle HPZ 系列喷嘴

B16 型



B17 型



Model	0.3MPa Atmospheric pressure is 0.3MPa			Rc
	Water pressure is 0.7MPa			
	Q _A (Nm ³ /h)	Q _W (L/min)	Spray angle (degree)	
HPZ2.4-60B15	6.78	4.9	60	
HPZ2.4-75B15	6.78	4.9	75	
HPZ2.4-120B15	6.78	4.9	120	
HPZ3.5-105B15	10.2	7.6	105	
HPZ3.5-120B15	10.2	7.6	120	
HPZ3.5-135B15	10.2	7.6	135	
HPZ4.2-60B16	12.72	9.5	60	
HPZ4.2-70B16	12.72	9.5	70	
HPZ4.2-85B16	12.72	9.5	85	
HPZ4.2-90B16	12.72	9.5	90	
HPZ4.2-95B16	12.72	9.5	95	
HPZ4.2-100B16	12.72	9.5	100	
HPZ4.2-110B16	12.72	9.5	110	
HPZ4.2-120B16	12.72	9.5	120	
HPZ5.7-70B16	15.3	11.4	70	
HPZ5.7-90B16	15.3	11.4	90	
HPZ5.7-95B16	15.3	11.4	95	
HPZ5.7-120B16	15.3	11.4	120	3/8
HPZ6.7-90B16	20.4	15.1	90	
HPZ6.7-110B16	20.4	15.1	110	
HPZ6.7-120B16	20.4	15.1	120	
HPZ6.7-125B16	20.4	15.1	125	
HPZ9.0-50B16	25.5	18.9	50	
HPZ9.0-70B16	25.5	18.9	70	
HPZ9.0-80B16	25.5	18.9	80	
HPZ9.0-90B16	25.5	18.9	90	
HPZ9.0-95B16	25.5	18.9	95	
HPZ9.0-110B16	25.5	18.9	110	
HPZ9.0-115B16	25.5	18.9	115	
HPZ9.0-120B16	25.5	18.9	120	
HPZ9.0-125B16	25.5	18.9	125	
HPZ9.0-135B16	25.5	18.9	135	
HPZ10.9-110B17	33.12	25	110	
HPZ10.9-120B17	33.12	25	120	
HPZ14.1-60B17	40.8	30	60	
HPZ14.1-110B17	40.8	30	110	
HPZ14.1-120B17	40.8	30	120	

HPZseriesnozzle HPZ 系列喷嘴

B18 型



B19 型



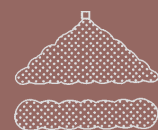
B20 型



B21 型



产 品 型 号 Model	气压为 0.3MPa Atmospheric pressure is 0.3MPa			Rc
	水压为 0.7MPa Water pressure is 0.7MPa			
	Q _A (Nm³/h)	Q _W (L/min)	喷射角 (°) Spray angle (degree)	
HPZ15.0-110B18	45.9	34	110	
HPZ15.0-120B18	45.9	34	120	
HPZ15.0-135B18	45.9	34	135	
HPZ16.0-110B18	53.52	40	110	1/2
HPZ16.0-120B18	53.52	40	120	
HPZ17.3-120B18	61.14	45	120	
HPZ17.3-135B18	61.14	45	135	
HPZ10.9-70B19	33.12	25	70	
HPZ10.9-80B19	33.12	25	80	
HPZ10.9-90B19	33.12	25	90	
HPZ10.9-110B19	33.12	25	110	
HPZ10.9-120B19	33.12	25	120	
HPZ10.9-135B19	33.12	25	135	3/8
HPZ14.1-60B19	40.8	30	60	
HPZ14.1-110B19	40.8	30	110	
HPZ14.1-115B19	40.8	30	115	
HPZ14.1-120B19	40.8	30	120	
HPZ14.1-125B19	40.8	30	125	
HPZ15.0-105B20	45.9	34	105	
HPZ15.0-110B20	45.9	34	110	
HPZ15.0-120B20	45.9	34	120	
HPZ15.0-125B20	45.9	34	125	
HPZ15.0-135B20	45.9	34	135	
HPZ16.0-105B20	53.52	40	105	
HPZ16.0-110B20	53.52	40	110	1/2
HPZ16.0-120B20	53.52	40	120	
HPZ16.0-125B20	53.52	40	125	
HPZ17.0-115B20	61.14	45	115	
HPZ17.0-120B20	61.14	45	120	
HPZ17.0-125B20	61.14	45	125	
HPZ17.0-135B20	61.14	45	135	
HPZ24.9-125B20	76.44	57	125	
HPZ26.5-125B20	86.64	64	125	
HPZ3-5-90×30B21	11.88	7.6	90 × 30	
HPZ9.0-60 × 30B21	29.7	18.9	60 × 30	3/8
HPZ9.0-90 × 30B21	29.7	18.9	90 × 30	



HPZ series nozzle HPZ 系列喷嘴

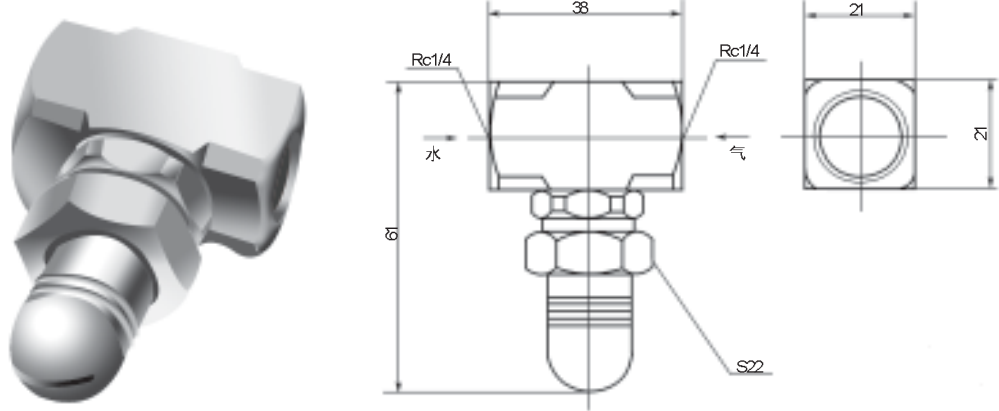
喷雾特性及用途:

该类喷嘴的喷口为扁平形, 装在内部的气水芯是控制气水雾化喷嘴的水量、气量的主要构件。喷嘴的雾化工况良好、粒度小、冷却均匀, 尤其对小断面的连铸坯, 使用效果更佳。该类喷嘴的制造精度较高, 小流量的喷嘴对介质的杂质粒度要求较严。

Spray Feature and Application:

The aperture of the nozzle is flat. The air water core equipped inside the nozzle is the key element to control the water and air volume of air water atomized spraying nozzle. The atomization of nozzle is very good. The drop size is small and even, the effect is better, especially to the continuous casting slab of small section. The fabrication precision of the nozzle is higher. The nozzle of small flow has the hard demands to the impurity particle size of medium.

B22 型



产 品 型 号 Model	性能参数 capability parameter				喷 射 角 (°) Spray angle (degree)
	压 力 pressure		流 量 flow		
	P _A (MPa)	P _W (MPa)	Q _A (Nm ³ /h)	Q _W (L/min)	
HPZ1.9-90B22	0.28	0.26	5.1	1.89	90
HPZ3.8-90B22	0.28	0.23	16.5	3.79	90
HPZ5.7-90B22	0.28	0.24	17.8	5.68	90
HPZ10.6-90B22	0.28	0.41	10.5	10.60	90
HPZ5.7-120B22	0.28	0.24	17.8	5.68	120
HPZ10.6-120B22	0.28	0.41	9.3	10.6	120

注: 用户对性能参数及结构尺寸有特殊要求, 订货时请注明。

Note: If users have special requirements for the performance parameters, structure and size, please specify in ordering.

HPZ series nozzle HPZ 系列喷嘴

喷雾特性及用途:

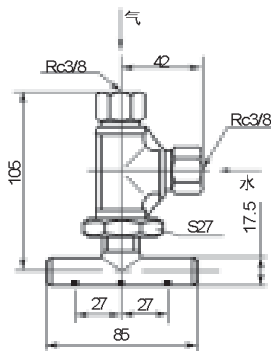
该类喷嘴的接头体接出的喷管有多个喷口，安装简单、灵活方便、占用的空间小，主要适用于方坯和圆坯连铸机上二次冷却，也可用于化学药品喷射及纺织，造纸等增湿场所。

Spray Feature and Application:

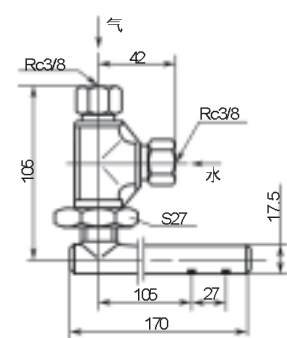
The spray pipe connected by the connector body of these nozzles has several spray apertures. It has the feature of easy installation and convenience and occupying a small space. It is mainly used for the secondary cooling of continuous casting machine for square and round billet/bloom and also for the spray of chemical medicines, the humidification of textile and paper-making, etc.



B23 型

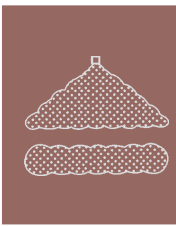


B24 型



产品型号 Model	气压 (MPa) Atmospheric pressure(MPa)												喷射角 (°) Spray angle (degree)
	0.2			0.25			0.3			0.35			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/分)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/分)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/分)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/分)	
HPZ2.9-70B23	0.1	2.11	3.57	0.1	1.92	3.84	0.1	1.76	4.10	0.1	1.68	4.29	70
	0.2	2.87	3.50	0.2	2.77	3.78	0.2	2.68	4.04	0.2	2.58	4.25	
	0.3	3.70	3.40	0.3	3.56	3.72	0.3	3.44	4.02	0.3	3.35	4.23	
	0.4	4.50	3.30	0.4	4.32	3.64	0.4	4.18	3.95	0.4	4.04	4.20	
	0.5	5.16	3.20	0.5	5.00	3.55	0.5	4.86	3.89	0.5	4.73	4.16	
	0.6	5.67	3.10	0.6	5.53	3.46	0.6	5.40	3.82	0.6	5.30	4.10	
	0.7	6.11	3.01	0.7	5.99	3.40	0.7	5.91	3.77	0.7	5.83	4.00	
HPZ3.2-65B24	0.1	2.43	3.59	0.1	2.33	3.86	0.1	2.23	4.16	0.1	2.17	4.32	65
	0.2	3.22	3.58	0.2	3.15	3.85	0.2	3.07	4.15	0.2	3.00	4.31	
	0.3	4.06	3.57	0.3	4.00	3.83	0.3	3.91	4.14	0.3	3.86	4.30	
	0.4	4.73	3.56	0.4	4.67	3.82	0.4	4.58	4.13	0.4	4.53	4.29	
	0.5	5.27	3.52	0.5	5.21	3.81	0.5	5.17	4.12	0.5	5.14	4.24	

注：用户对性能参数及结构尺寸有特殊要求，订货时请注明。
Note: If users have special requirements for the performance parameters, structure and size, please specify in ordering.



HPZ series nozzle HPZ 系列喷嘴

喷雾特性及用途:

该形式喷嘴主体采用轧制铜材, 其结构新颖, 连接方式为法兰式, 具有良好密封耐磨性, 安装对中十分方便, 喷头的不同定位方向, 可以使喷水面保持平行或垂直, 它的喷雾形式为扇形, 覆盖面广、分布均匀, 主要应用于方、板坯连铸的二次冷却, 尤其浇铸特殊钢种。

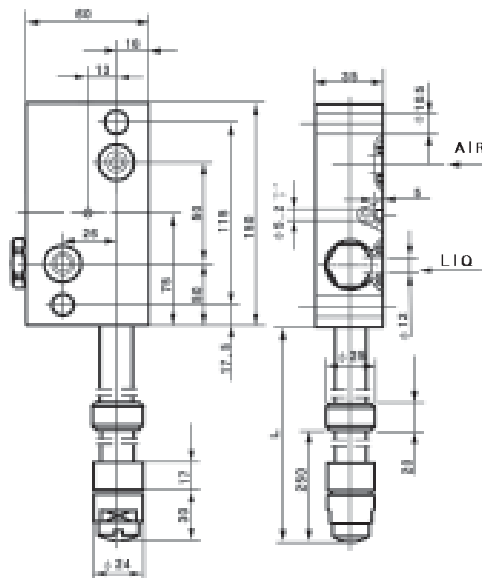
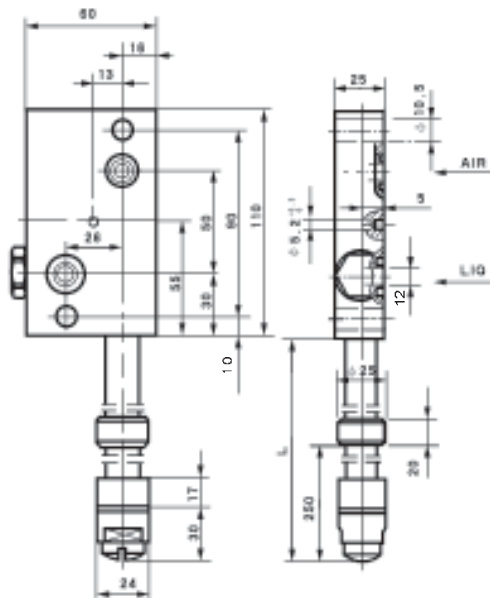
Spray Feature and Application:

The main body of this kind of nozzle is made of rolled copper in new structure. It is connected by flange with good tightness and abrasability. It is easy to install and center. The different orientations of the nozzle can keep the water spray level parallel or vertical. Its spray pattern is flat with wide coverage and even distribution. It is mainly used as aftercooling of continuous casting of square and plate billets, especially in special steel casting.



B25 型

B26 型



注: 尺寸 L 可根据用户需求给定。

Note: size L can be changed according to requirement of users.

HPZ series nozzle HPZ 系列喷嘴

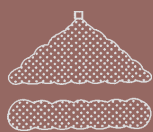
产品型号 Model	气压 (Mpa) Atmospheric pressure									喷射角 (°) Spray angle (degree)
	0.1			0.2			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	
HPZ1.25-65B25-(L)	0.1	0.95	0.71	0.1	0.58	1.91				65
	0.2	1.53	0.57	0.2	1.25	1.73	0.2	1.08	3.0	
	0.3	2.1	0.42	0.3	1.8	1.39	0.3	1.57	2.6	
				0.4	2.23	1.04	0.4	2.03	2.4	
				0.5	2.62	0.87	0.5	2.42	2.2	
				0.6	2.97	0.69	0.6	2.75	2.0	
HPZ1.8-88B25-(L)	0.1	1.25	4.67	0.1	0.92	8.14				88
	0.2	2.07	4.1	0.2	1.8	7.45	0.2	1.47	8.06	
	0.3	2.85	3.68	0.3	2.53	6.58	0.3	2.2	7.5	
				0.4	3.12	5.72	0.4	2.8	6.51	
				0.5	3.67	5.02	0.5	3.37	5.37	
				0.6	4.17	4.16	0.6	3.77	4.67	
HPZ2.8-102B25-(L)	0.1	2.25	3.8	0.1	1.32	7.0				102
	0.2	3.83	3.5	0.2	2.83	5.9	0.2	2.12	8.9	
	0.3	5.2	3.1	0.3	4.33	5.0	0.3	3.5	7.8	
				0.4	5.53	4.3	0.4	4.68	6.5	
				0.5	6.58	3.5	0.5	5.8	5.3	
				0.6	7.47	3.0	0.6	6.8	4.5	
HPZ3.3-76B25-(L)	0.1	2.57	4.24	0.1	1.42	7.62				76
	0.2	4.3	3.96	0.2	3.3	6.92	0.2	2.45	11.2	
	0.3	5.67	3.4	0.3	4.7	5.88	0.3	3.8	10.0	
				0.4	5.97	5.2	0.4	5.15	8.8	
				0.5	7.13	4.5	0.5	6.32	8.0	
							0.6	7.33	6.8	



HPZ series nozzle HPZ 系列喷嘴

HPZ series air-water atomizing nozzle

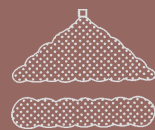
HPZ 系列气-水雾化喷嘴



产品型号 Model	气压 (Mpa) Atmospheric pressure									喷射角 (°) Spray angle (degree)
	0.1			0.2			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	
HPZ0.8-85B25-(L)	0.1	0.67	1.65							85
	0.15	0.95	2.3							
	0.2	1.22	0.79	0.2	0.75	2.52				
				0.3	1.27	2.04	0.3	0.88	3.61	
				0.4	1.77	1.46	0.4	1.42	3.31	
				0.5	2.23	0.82	0.5	1.82	2.54	
							0.6	2.15	1.64	
						0.7	2.58	1.39		
HPZ1.4-120B25-(L)	0.1	0.95	2.5							120
	0.15	1.38	2.4							
	0.2	2.07	2.3	0.2	1.87	2.8	0.2	1.73	3.1	
				0.3	2.38	2.7	0.3	2.22	3.0	
				0.4	2.85	2.6	0.4	2.68	3.0	
							0.5	3.07	2.9	
HPZ5.0-95B25-(L)	0.1	3.75	8.69	0.1	2.48	16.37				95
	0.2	6.42	6.59	0.2	5.0	14.42	0.2	3.97	20.61	
	0.3	8.48	4.71	0.3	7.3	12.91	0.3	6.07	19.6	
	0.4	10.38	3.58	0.4	9.2	10.62	0.4	7.93	18.47	
				0.5	10.8	9.65	0.5	9.93	16.59	
							0.6	11.38	15.34	
HPZ6.4-85B25-(L)	0.1	5.3	12.0	0.1	3.12	21.6				85
	0.2	8.0	9.16	0.2	6.4	20.15	0.2	5.18	29.28	
	0.3	10.45	7.7	0.3	8.98	18.36	0.3	7.65	27.75	
	0.4	12.6	5.7	0.4	11.15	16.17	0.4	10.0	26.25	
	0.5	14.4	4.3	0.5	13.07	14.52	0.5	11.88	23.87	
							0.6	13.63	22.63	

HPZ series nozzle HPZ 系列喷嘴

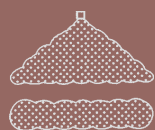
产品型号 Model	气压 (Mpa) Atmospheric pressure									喷射角 (°) Spray angle (degree)
	0.1			0.2			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	
HPZ4.3-50B25-(L)	0.05	1.73	3.7							50
	0.1	3.23	3.4	0.1	2.33	5.7				
	0.15	4.35	2.7	0.2	4.27	4.8	0.15	2.68	7.7	
				0.3	5.85	3.9	0.2	3.48	7.5	
				0.35	6.6	3.5	0.3	4.97	6.7	
							0.4	6.33	5.7	
							0.45	7.67	4.6	
HPZ8.1-50B25-(L)	0.05	3.57	7.5							50
	0.1	6.25	6.4	0.1	4.65	12.0	0.1	3.5	16.0	
	0.15	8.28	5.3	0.2	8.1	10.2	0.2	6.73	15.3	
	0.2	10.1	4.4	0.3	11.4	8.2	0.3	9.55	13.7	
				0.4	14.4	6.2	0.4	12.5	12.0	
				0.5	17.4	4.2	0.5	15.3	10.0	
							0.6	17.6	8.3	
HPZ18.3-90B26-(L)	0.1	13.9	17.3	0.1	11.35	29.3	0.1	9.18	39.1	90
	0.2	21.4	13.2	0.2	18.3	27.8	0.2	16.1	38.6	
	0.3	27.7	9.1	0.3	24.0	25.1	0.3	22.0	37.4	
	0.4	32.3	5.9	0.4	29.6	22.0	0.4	27.3	35.0	
				0.5	34.4	18.0	0.5	32.0	32.0	
							0.6	35.9	29.2	
HPZ9.8-90B25-(L)	0.05	4.35	8.9							90
	0.1	7.28	7.9	0.1	5.6	14.1	0.1	4.4	19.3	
	0.2	11.9	5.6	0.2	9.75	12.8	0.2	8.28	18.7	
				0.3	13.4	10.8	0.3	11.8	17.4	
				0.4	16.4	9.0	0.4	14.8	15.6	
				0.5	19.3	6.8	0.5	17.8	13.7	
							0.6	20.2	11.9	



HPZ series nozzle HPZ 系列喷嘴

HPZ series air-water atomizing nozzle

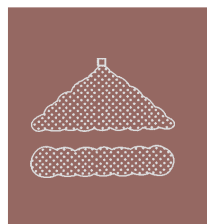
HPZ 系列气-水雾化喷嘴



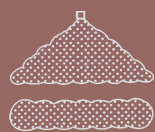
产品型号 Model	气压 (Mpa) Atmospheric pressure									喷射角 (°) Spray angle (degree)
	0.1			0.2			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	
HPZ2.1-75B25-(L)	0.05	1.08	2.5							75
	0.1	1.53	2.4	0.1	1.38	2.8	0.1	1.22	3.2	
	0.2	2.27	2.3	0.2	2.08	2.8	0.2	1.87	3.1	
	0.3	2.88	2.3	0.3	2.65	2.7	0.3	2.43	3.0	
	0.4	3.37	2.2	0.4	3.15	2.6	0.4	2.95	3.0	
	0.5	3.82	2.2	0.5	3.6	2.6	0.5	3.4	2.9	
	0.6	4.23	2.1	0.6	4.0	2.5	0.6	3.82	2.8	
	0.7	4.58	2.1	0.7	4.4	2.4	0.7	4.18	2.7	
HPZ1.9-75B25-(L)	0.05	0.95	2.5							75
	0.1	1.38	2.4	0.1	1.27	2.8	0.1	1.1	3.2	
	0.2	2.07	2.3	0.2	1.87	2.8	0.2	1.73	3.1	
	0.3	2.57	2.3	0.3	2.38	2.7	0.3	2.22	3.0	
	0.4	3.0	2.2	0.4	2.85	2.6	0.4	2.68	3.0	
	0.5	3.4	2.2	0.5	3.23	2.6	0.5	3.07	2.9	
	0.6	3.77	2.1	0.6	3.58	2.5	0.6	3.43	2.8	
	0.7	4.07	2.1	0.7	3.92	2.4	0.7	3.75	2.7	
HPZ4.2-75B25-(L)	0.05	2.02	5.5	0.05	1.68	7.9	0.05	1.37	9.4	75
	0.1	3.03	5.3	0.1	2.7	7.8	0.1	2.37	9.4	
	0.2	4.57	4.8	0.2	4.2	7.3	0.2	3.88	9.4	
	0.3	5.75	4.6	0.3	5.37	6.9	0.3	5.05	9.5	
	0.4	6.73	4.4	0.4	6.4	6.2	0.4	6.08	8.9	
	0.5	7.62	3.0	0.5	7.27	5.8	0.5	6.92	9.3	
	0.6	8.45	3.7	0.6	8.1	5.9	0.6	7.77	8.7	
	0.7	9.2	2.9	0.7	8.83	5.6	0.7	8.53	8.4	
HPZ3.6-90B25-(L)	0.05	1.83	4.0	0.05	1.63	5.4	0.05	1.4	7.0	90
	0.1	2.62	3.5	0.1	2.45	5.2	0.1	2.25	6.5	
	0.2	3.83	3.4	0.2	3.62	5.4	0.2	3.43	6.2	
	0.3	4.75	3.3	0.3	4.55	4.3	0.3	4.37	6.2	
	0.4	5.53	3.0	0.4	5.33	4.4	0.4	5.13	6.4	
	0.5	6.23	2.6	0.5	6.02	4.8	0.5	5.83	6.2	
	0.6	6.83	2.6	0.6	6.62	4.0	0.6	6.45	6.1	
	0.7	7.43	2.7	0.7	7.22	4.8	0.7	7.02	6.1	

HPZ series nozzle HPZ 系列喷嘴

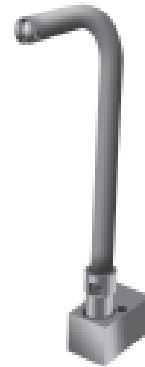
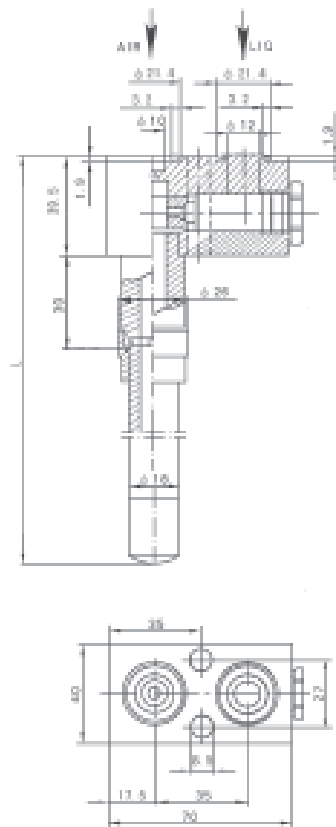
产品型号 Model	气压 (Mpa) Atmospheric pressure									喷射角 (°) Spray angle (degree)
	0.1			0.2			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	
HPZ 5.9-90B25-(L)	0.05	2.92	6.8	0.05	2.73	9.4	0.05	2.53	11.6	90
	0.1	4.2	6.8	0.1	4.0	9.4	0.1	3.85	11.6	
	0.2	6.03	6.0	0.2	5.85	8.8	0.2	5.68	11.6	
	0.3	7.38	4.3	0.3	7.23	8.9	0.3	7.05	11.6	
	0.4	8.53	6.3	0.4	8.38	9.2	0.4	8.25	11.6	
	0.5	9.73	6.3	0.5	9.62	9.1	0.5	9.45	11.2	
	0.6	10.7	5.6	0.6	10.6	8.1	0.6	10.4	11.2	
	0.7	11.6	3.4	0.7	11.5	9.0	0.7	11.3	11.8	
HPZ12.3-95B26-(L)	0.05	5.82	13.7	0.05	5.02	20.5	0.05	4.35	26.8	95
	0.01	8.58	13.5	0.1	7.82	20.4	0.1	7.18	26.8	
	0.2	12.85	12.7	0.2	12.28	20.2	0.2	11.55	26.7	
	0.3	16.23	11.9	0.3	15.55	19.9	0.3	14.9	26.7	
	0.4	19	11.2	0.4	18.3	19.6	0.4	17.8	26.6	
	0.5	21.6	10.1	0.5	20.9	18.9	0.5	20.3	26.4	
	0.6	23.8	9.1	0.6	22.9	18.5	0.6	22.5	26.1	
	0.7	25.7	8.9	0.7	25.1	17.8	0.7	24.4	25.6	
HPZ2.8-75B25-(L)	0.05	1.4	2.9	0.05	1.37	4.2	0.05	1.27	5.3	75
	0.1	2.03	4.1	0.1	1.97	4.1	0.1	1.9	5.3	
	0.2	2.9	3.6	0.2	2.82	4.5	0.2	2.77	5.3	
	0.3	3.58	3.3	0.3	3.52	5.0	0.3	3.43	5.6	
	0.4	4.15	3.2	0.4	4.08	5.0	0.4	4.02	5.5	
	0.5	4.63	3.8	0.5	4.58	4.6	0.5	4.52	6.0	
	0.6	5.1	3.7	0.6	5.02	4.5	0.6	4.97	4.6	
	0.7	5.42	3.1	0.7	5.33	5.0	0.7	5.3	4.7	
HPZ7.5-85B26-(L)	0.05	2.58	8.3	0.05	2.97	12.6	0.05	2.37	16.9	85
	0.1	5.5	8.2	0.1	4.78	12.5	0.1	4.12	16.7	
	0.2	8.2	7.1	0.2	7.47	12.1	0.2	6.83	16.5	
	0.3	10.5	6.2	0.3	9.63	11.8	0.3	8.98	16.4	
	0.4	12.4	5.2	0.4	11.7	10.7	0.4	10.9	15.7	
	0.5	14.3	4.7	0.5	13.4	10.1	0.5	12.7	15.2	
	0.6	15.7	4.3	0.6	14.9	9.9	0.6	14.3	14.8	
	0.7	17.1	3.6	0.7	16.4	8.5	0.7	15.7	14.2	



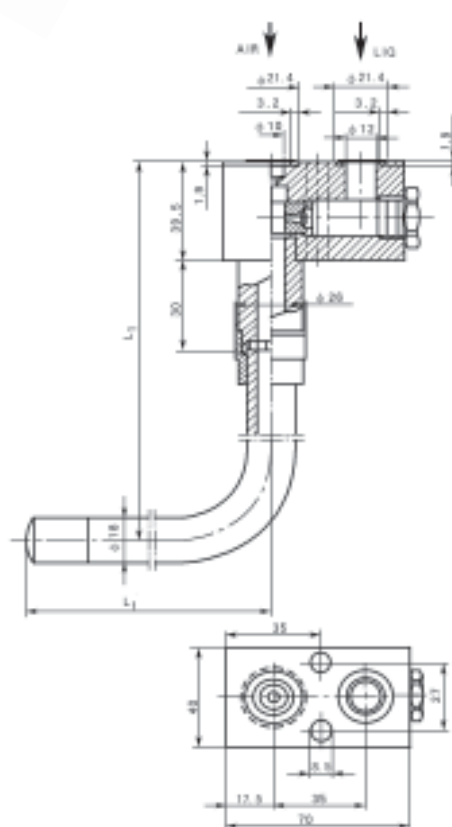
HPZ series nozzle HPZ 系列喷嘴



B27 型



B28 型

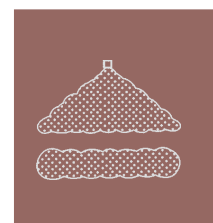


注：尺寸 L_1 、 L_2 可根据用户要求给定。

Note: size L_1 、 L_2 can be changed according to requirement of users.

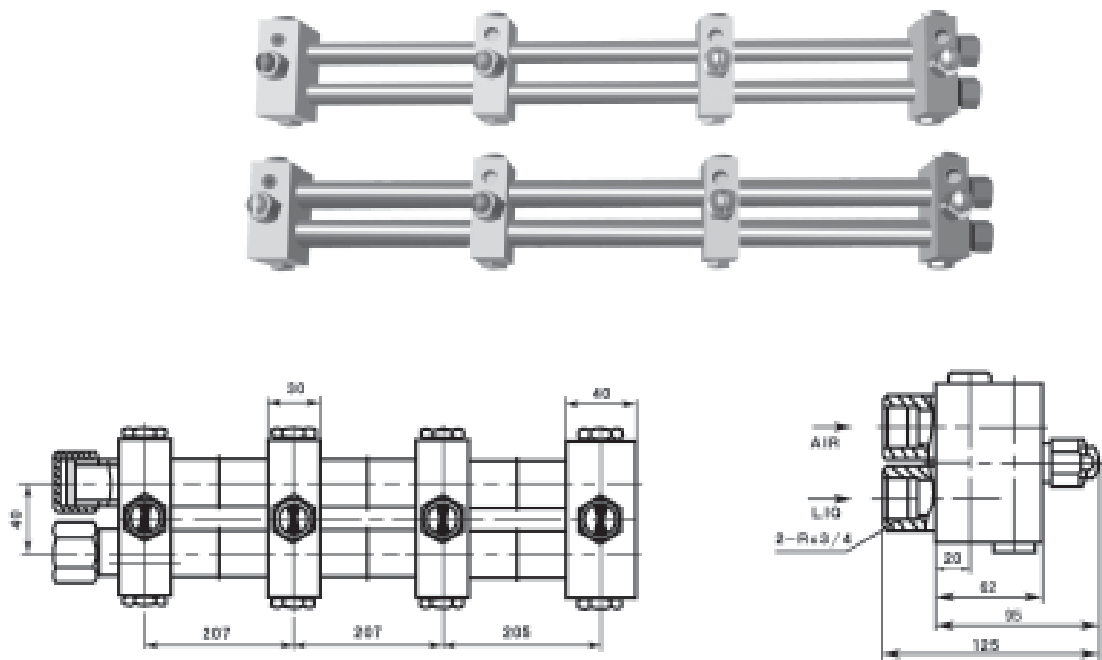
HPZ series nozzle HPZ 系列喷嘴

产 品 型 号 Model	气压 (Mpa) Atmospheric pressure												喷 射 角 (°) Spray angle (degree)
	0.15			0.2			0.25			0.3			
	水 压 Water pressure (MPa)	水 量 Water flow (L/min)	气 量 Air flow (Nm³/h)	水 压 Water pressure (MPa)	水 量 Water flow (L/min)	气 量 Air flow (Nm³/h)	水 压 Water pressure (MPa)	水 量 Water flow (L/min)	气 量 Air flow (Nm³/h)	水 压 Water pressure (MPa)	水 量 Water flow (L/min)	气 量 Air flow (Nm³/h)	
HPZ3.0-70B27	0.15	2.68	6.3	0.15	2.38	7.8	0.2	2.73	9.1	0.2	2.48	10.6	70
	0.2	3.28	5.8	0.2	3.03	7.2	0.3	3.82	8.3	0.3	3.55	9.7	
	0.3	4.35	4.6	0.3	4.07	6.5	0.4	4.7	7.9	0.4	4.47	9.2	
	0.4	5.22	3.8	0.4	4.97	6.1	0.5	5.48	6.9	0.5	5.27	8.5	
				0.5	5.73	4.8	0.6	6.2	6.5	0.6	5.98	8.3	
										0.7	6.53	7.1	
HPZ3.0-70B28	0.15	2.68	6.1	0.15	2.38	8.1	0.2	2.73	9.7	0.2	2.48	10.9	70
	0.2	3.28	6.0	0.2	3.03	7.7	0.3	3.82	9.1	0.3	3.55	10.5	
	0.3	4.35	4.8	0.3	4.07	6.8	0.4	4.7	8.4	0.4	4.47	9.8	
	0.4	5.22	4.1	0.4	4.97	6.3	0.5	5.48	7.4	0.5	5.27	9.5	
				0.5	5.73	6.0	0.6	6.2	6.3	0.6	5.98	8.5	
										0.7	6.53	7.7	
HPZ2.7-70B28	0.15	2.08	5.3	0.15	1.87	7.4	0.2	2.15	7.8	0.2	1.93	9.1	70
	0.2	2.58	4.8	0.2	2.73	6.9	0.3	2.97	7.7	0.3	2.78	9.0	
	0.3	3.37	3.9	0.3	3.17	6.4	0.4	3.65	7.5	0.4	3.47	8.3	
	0.4	4.03	3.5	0.4	3.83	5.0	0.5	4.25	7.0	0.5	4.08	7.5	
				0.5	4.43	5.2	0.6	4.8	5.0	0.6	4.63	6.9	
										0.7	5.13	6.5	

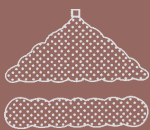


HPZ series nozzle HPZ 系列喷嘴

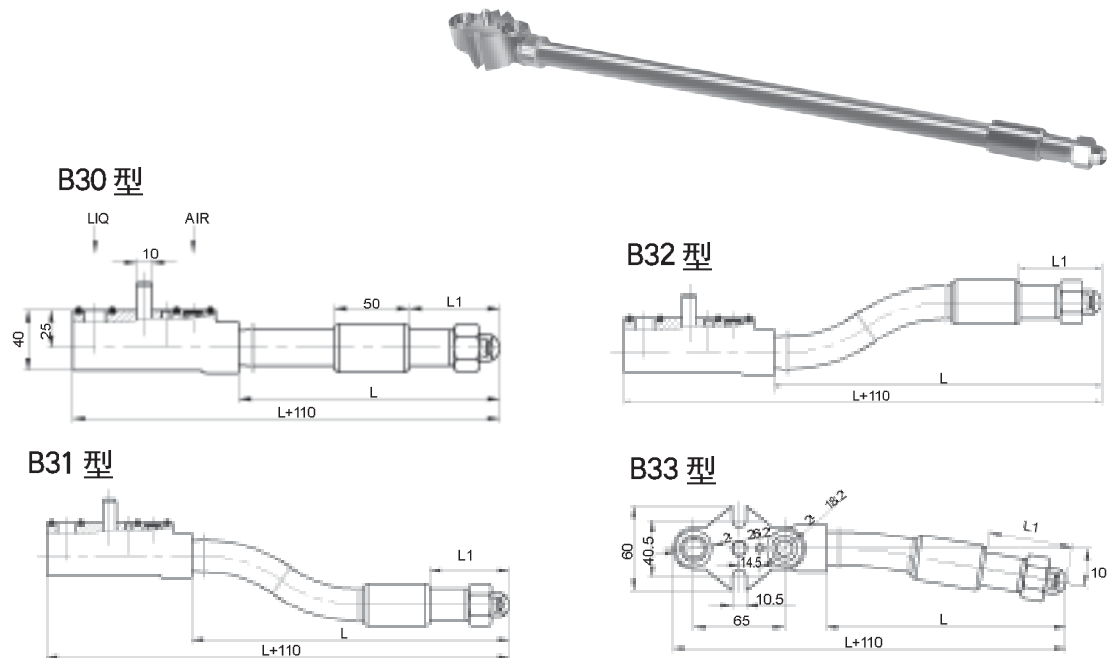
HPZ series air-water atomizing nozzle HPZ 系列气-水雾化喷嘴



产 品 型 号 Model	气压 (MPa) Atmospheric pressure												喷射角 (°) Spray angle (degree)
	0.15			0.2			0.25			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (m³/h)	
HPZ29.5- 120B29	0.1	19.8	14.7	0.1	18.5	18.1	0.1	18.2	20.0	0.1	17.8	22.0	120
	0.2	30.3	14.0	0.2	29.5	17.5	0.2	28.3	19.4	0.2	27.3	21.9	
	0.3	38.7	13.3	0.3	37.3	17.3	0.3	36.3	19.2	0.3	35.3	21.8	
	0.4	44.8	12.8	0.4	43.8	16.8	0.4	43.0	18.8	0.4	42.3	21.7	
	0.5	50.8	12.2	0.5	49.7	16.4	0.5	48.8	18.6	0.5	48.0	21.7	
	0.6	56.3	11.4	0.6	55.3	15.8	0.6	54.5	18.3	0.6	53.3	21.6	
	0.7	61.2	10.6	0.7	60.2	15.1	0.7	59.7	17.8	0.7	58.5	21.3	
HPZ8.8- 5B29	0.1	6.9	4.8	0.1	6.4	5.8	0.1	5.7	6.7	0.1	5.1	7.5	75
	0.2	9.3	4.6	0.2	8.8	5.5	0.2	8.5	6.5	0.2	8.1	7.4	
	0.3	11.8	4.3	0.3	11.4	5.4	0.3	11.0	6.4	0.3	10.7	7.3	
	0.4	14.0	4.1	0.4	13.5	5.2	0.4	13.2	6.2	0.4	12.8	7.2	
	0.5	16.1	3.8	0.5	15.7	4.9	0.5	15.3	5.9	0.5	14.8	7.0	
	0.6	17.9	3.5	0.6	17.3	4.7	0.6	17.0	5.8	0.6	16.7	6.9	
	0.7	19.5	3.2	0.7	19.2	4.5	0.7	18.7	5.6	0.7	18.3	6.6	



HPZseriesnozzle HPZ 系列喷嘴



产品型号 Model	气压 (MPa) Atmospheric pressure(MPa)									喷射角 (°) Spray angle (degree)
	0.1			0.2			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	
HPZ3.3-90B30-(L)	0.05	1.45	5.4	0.1	1.7	8.7	0.2	2.55	11.9	90
	0.1	2.55	4.5	0.2	3.28	8.0	0.3	3.82	10.3	
	0.15	3.43	4.3	0.3	4.58	6.7	0.4	4.93	8.9	
	0.2	4.2	3.9	0.4	5.72	5.0	0.5	5.93	8.0	
				0.5	6.63	4.0	0.6	6.73	6.9	
							0.7	7.6	5.8	
HPZ3.5-90B30-(L)	0.05	1.0	8.7	0.1	1.15	13.4	0.2	1.88	16.5	90
	0.1	2.7	5.8	0.2	3.48	9.7	0.3	4.03	12.5	
	0.15	4.25	4.2	0.3	5.83	6.6	0.4	6.15	9.4	
	0.2	5.57	3.3	0.35	6.8	4.3	0.5	7.82	7.0	
				0.4	7.67	3.3	0.6	9.42	4.8	
HPZ5.9-110B30-(L)	0.05	1.68	14.3	0.1	1.88	22.2	0.2	3.32	27.4	110
	0.1	4.32	10.5	0.2	5.9	15.8	0.3	6.92	21.1	
	0.15	7.25	6.9	0.3	10.3	9.3	0.4	10.7	15.1	
	0.2	9.55	4.5	0.4	13.9	6.1	0.5	14.2	10.2	
							0.6	17.1	7.4	

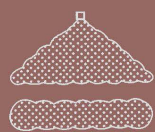
注：尺寸L1、L可根据用户要求给定。

Note: size L1, L can be changed according to requirement of users.

HPZ series nozzle HPZ 系列喷嘴

HPZ series air-water atomizing nozzle

HPZ 系列气-水雾化喷嘴



产品型号 Model	气压 （Mpa） Atmospheric pressure									喷射角 （ ° ） Spray angle (degree)
	0.1			0.2			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/分)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/分)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/分)	
HPZ5.6-110B30-(L)	0.05	2.28	10.8	0.1	2.53	17.6	0.2	3.88	22.8	110
	0.1	4.48	8.4	0.2	5.63	13.9	0.3	6.52	19.1	
	0.15	6.42	6.6	0.3	8.48	10.5	0.4	8.97	15.5	
	0.2	8.1	5.2	0.4	11.1	7.6	0.5	11.3	12.3	
	0.3	10.8	2.9	0.5	13.2	5.4	0.6	13.3	10.0	
							0.7	15.2	7.7	
HPZ6.6-110B30-(L)	0.05	1.53	15.6	0.1	1.15	26.8	0.2	2.43	33.3	110
	0.1	5.4	8.7	0.2	6.6	14.5	0.3	7.43	20.4	
	0.15	9.52	3.9	0.3	12.9	6.2	0.4	13.3	10.6	
				0.35	15.9	3.2	0.5	18.0	5.3	
							0.55	20.2	3.1	
HPZ3.3-110B30-(L)	0.05	1.28	8.6	0.1	1.47	14.4	0.2	2.32	17.8	110
	0.1	2.55	7.1	0.2	3.25	11.9	0.3	3.75	16.4	
	0.2	4.28	5.2	0.3	4.62	10.3	0.4	4.95	14.4	
	0.3	5.6	4.4	0.4	5.8	8.4	0.5	6.0	12.7	
				0.5	6.8	6.8	0.6	6.8	11.4	
HPZ3.9-110B30-(L)	0.05	1.4	8.2	0.1	1.38	13.8	0.2	2.35	17.8	110
	0.1	3.12	6.5	0.2	3.9	10.1	0.3	4.45	14.2	
	0.2	5.7	3.5	0.3	6.03	7.0	0.4	6.28	11.4	
	0.3	7.72	2.2	0.4	7.63	5.7	0.5	7.85	8.3	
							0.6	9.27	7.5	
HPZ3.6-110B31-(L)	0.05	1.75	6.2	0.1	2.03	10.1	0.2	2.98	13.0	110
	0.1	2.75	6.0	0.2	3.62	9.2	0.3	4.25	12.4	
	0.2	4.35	5.1	0.3	4.88	8.3	0.4	5.33	11.5	
	0.3	5.63	4.2	0.4	5.92	7.5	0.5	6.25	10.6	
				0.5	6.87	6.7	0.6	7.02	9.7	
							0.7	7.85	9.0	
HPZ2.6-110B30-（L）	0.1	1.98	6.07	0.1	1.03	11.68	0.2	1.78	14.94	110
	0.2	3.87	3.99	0.2	2.63	9.46	0.3	3.23	13.20	
	0.3	5.20	2.71	0.3	4.20	7.60	0.4	4.50	10.74	
				0.4	5.43	6.45	0.5	5.60	8.9	
				0.5	6.47	5.53	0.6	6.60	7.99	
HPZ3.4-110B30-（L）	0.1	3.02	4.84	0.1	1.45	11.04	0.2	2.37	14.06	110
	0.2	5.60	2.93	0.2	3.85	8.44	0.3	4.53	11.20	
	0.3	7.78	0.71	0.3	6.03	5.73	0.4	6.50	9.00	
				0.4	7.90	4.01	0.5	8.28	6.59	
				0.5	9.48	2.56	0.6	9.93	4.97	
							0.7	11.22	3.49	

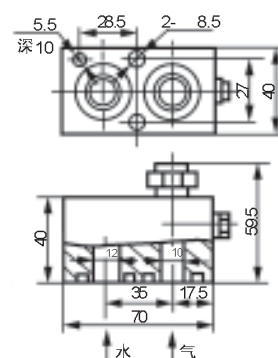
HPZ series nozzle HPZ 系列喷嘴

喷雾特性及用途:

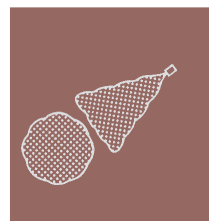
该喷嘴主体采用轧制铜材,因而具有良好的密封、耐磨性,在使用中喷头磨损,可以更换。它的喷淋形状为双峰锥形,覆盖面大,雾化均匀、性能稳定;该喷嘴主要适用于特钢圆坯、方坯连铸的二次冷却。

Spray Feature and Application:

The body of the nozzle is made of rolled copper so it has good sealing and antiwear property. The nozzle head can be replaced when it is worn during operation. Its spray pattern is of double-peak cone, with large covering area, even atomization and stable performance. The nozzle is mainly suitable for the secondary cooling of continuous casting machine for special steel round bloom and square bloom.



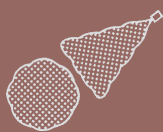
产品型号 Model	气压 (MPa) Atmospheric pressure(MPa)												喷射角 (°) Spray angle (degree)
	0.15			0.2			0.25			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	
HPZ0.72-70QZ2	0.15	0.63	3.8	0.15	0.57	5.1	0.15	0.47	6.8				70
	0.2	0.8	3.7	0.2	0.72	5.0	0.2	0.65	6.6				
	0.3	1.1	3.6	0.3	1.02	4.9	0.3	0.95	6.5				
	0.4	1.3	3.5	0.4	1.25	4.8	0.4	1.18	6.4				
HPZ0.82-60QZ2	0.15	0.72	4.3	0.15	0.65	5.8	0.15	0.55	6.5				60
	0.2	0.92	4.1	0.2	0.82	5.7	0.2	0.73	6.3				
	0.3	1.23	4.0	0.3	1.13	5.5	0.3	1.08	5.9				
	0.4	1.47	3.9	0.4	1.37	4.8	0.4	1.3	5.5				
HPZ0.88-70QZ2	0.15	0.72	3.8	0.15	0.63	5.0	0.15	0.53	6.1				70
	0.2	1.0	3.6	0.2	0.88	4.8	0.2	0.77	6.0				
	0.3	1.38	3.4	0.3	1.3	4.6	0.3	1.22	5.9				
	0.4	1.67	3.3	0.4	1.6	4.3	0.4	1.53	5.5				
HPZ1.0-70QZ2	0.1	0.55	6.8	0.15	0.75	7.4	0.2	0.95	8.1	0.25	1.05	8.7	70
	0.15	0.9	6.5	0.2	1.00	7.2	0.25	1.17	7.9	0.3	1.25	8.5	
	0.2	1.17	6.2	0.25	1.27	7.0	0.3	1.37	7.8	0.35	1.47	8.3	
	0.25	1.38	6.0	0.3	1.48	6.8	0.35	1.55	7.6	0.4	1.62	8.2	
HPZ1.13-60QZ2	0.15	1.0	3.8	0.15	0.87	5.0	0.15	0.73	6.3				60
	0.2	1.28	3.6	0.2	1.13	4.7	0.2	0.98	6.1				
	0.3	1.65	3.4	0.3	1.52	4.5	0.3	1.37	6.0				
	0.4	1.92	3.2	0.4	1.83	4.2	0.4	1.75	5.0				
HPZ1.17-60QZ2	0.15	1.05	3.8	0.15	0.87	4.7	0.15	0.72	5.3				60
	0.2	1.33	3.5	0.2	1.17	4.6	0.2	1.05	5.2				
	0.3	1.7	3.0	0.3	1.62	4.1	0.3	1.52	5.1				
	0.4	2.02	2.7	0.4	1.92	3.8	0.4	1.82	5.0				



HPZ series nozzle HPZ 系列喷嘴

HPZ series air-water atomizing nozzle

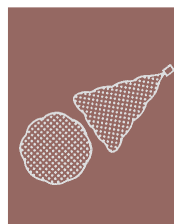
HPZ 系列气-水雾化喷嘴



产品型号 Model	气压 (MPa) Atmospheric pressure(MPa)												喷射角 (°) Spray angle (degree)
	0.15			0.2			0.25			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	
HPZ1.2-60QZ2	0.1	0.75	6.9	0.15	0.9	7.5	0.2	1.0	8.1	0.25	1.1	8.8	60
	0.15	1.08	6.6	0.2	1.2	7.3	0.25	1.25	7.9	0.3	1.3	8.6	
	0.2	1.35	6.2	0.25	1.4	7.0	0.3	1.5	7.7	0.35	1.5	8.4	
	0.25	1.57	5.9	0.3	1.6	6.8	0.35	1.6	7.4	0.4	1.7	8.1	
HPZ1.25-60QZ2	0.1	0.75	6.8	0.15	0.95	7.4	0.2	1.03	8.0	0.25	1.15	8.7	60
	0.15	1.08	6.5	0.2	1.25	7.2	0.25	1.3	7.8	0.3	1.38	8.5	
	0.2	1.35	6.0	0.25	1.43	6.9	0.3	1.53	7.6	0.35	1.58	8.3	
	0.25	1.57	5.8	0.3	1.63	6.7	0.35	1.68	7.3	0.4	1.75	8.0	
HPZ1.35-60QZ2	0.1	0.9	4.6	0.1	0.68	6.9	0.2	1.27	8.2	0.25	1.43	10.6	60
	0.15	1.33	4.4	0.2	1.35	6.1	0.3	1.85	7.9	0.3	1.73	10.0	
	0.2	1.67	4.0	0.3	2.0	5.5	0.4	2.4	7.1	0.4	2.27	9.2	
	0.3	2.25	3.5	0.4	2.58	4.9	0.5	2.83	6.5	0.5	2.72	8.6	
HPZ1.5-90QZ2	0.1	1.1	11.6	0.15	1.3	14.2	0.2	1.4	16.2	0.25	1.5	18.8	90
	0.15	1.5	10.4	0.2	1.5	13.1	0.3	2.1	14.8	0.3	1.9	18.0	
	0.2	2.0	9.5	0.3	2.4	11.6	0.4	2.7	13.5	0.4	2.5	16.7	
	0.3	2.6	8.3	0.4	2.9	10.3	0.5	3.1	12.4	0.5	3.0	15.5	
HPZ1.5-70QZ2	0.1	1.1	11.6	0.15	1.25	14.2	0.2	1.37	16.2	0.25	1.5	18.8	70
	0.15	1.5	10.4	0.2	1.5	13.1	0.3	2.08	14.8	0.3	1.87	18.0	
	0.2	1.95	9.5	0.3	2.35	11.6	0.4	2.65	13.5	0.4	2.47	16.7	
	0.3	2.63	8.3	0.4	2.92	10.3	0.5	3.12	12.4	0.5	2.95	15.5	
	0.4	3.18	7.5	0.5	3.37	8.8	0.6	3.5	11.6	0.6	3.35	14.2	
HPZ1.6-70QZ2	0.1	1.03	10.2	0.15	1.22	12.6	0.2	1.38	14.7	0.25	1.58	17.0	70
	0.15	1.43	9.4	0.2	1.62	11.7	0.25	1.72	14.2	0.3	1.87	16.2	
	0.2	1.82	8.8	0.25	1.95	11.0	0.3	2.02	13.5	0.35	2.15	15.6	
	0.25	2.13	8.2	0.3	2.3	10.5	0.35	2.33	12.7	0.4	2.42	15.0	
HPZ1.8-70QZ2	0.1	1.07	6.6	0.15	1.18	8.8	0.2	1.35	10.3	0.25	1.58	12.8	70
	0.15	1.67	5.5	0.2	1.8	7.3	0.3	2.42	8.4	0.3	2.07	11.4	
	0.2	2.28	4.6	0.3	2.8	5.7	0.4	3.37	7.1	0.4	3.0	9.8	
	0.3	3.15	3.6	0.4	3.7	4.2	0.5	4.05	6.0	0.5	3.77	8.4	
HPZ1.9-60QZ2	0.15	1.8	9.8	0.2	1.9	12.1	0.25	2.2	14.4	0.3	2.3	16.8	60
	0.2	2.5	8.2	0.25	2.6	10.4	0.3	2.8	12.5	0.35	2.9	15.2	
	0.3	3.8	5.5	0.3	3.4	8.7	0.4	4.0	10.1	0.40	3.5	13.6	
	0.4	4.8	4.3	0.4	4.4	6.8	0.5	5.0	8.2	0.5	4.6	11.4	
HPZ2.0-80QZ2	0.2	2.3	8.2	0.2	2.0	12.1	0.3	2.7	12.7	0.3	2.3	16.4	80
	0.3	3.6	6.3	0.3	2.9	9.5	0.4	3.7	10.4	0.4	3.5	13.8	
				0.4	4.2	7.6	0.5	4.7	9.0	0.5	4.3	11.6	
HPZ2.0-90QZ2	0.1	1.0	11.5	0.15	1.35	13.4	0.2	1.6	15.0	0.25	1.82	17.2	90
	0.15	1.73	10.5	0.2	2.0	12.3	0.3	2.78	13.0	0.3	2.37	16.6	
	0.2	2.45	8.7	0.3	3.18	10.2	0.4	3.78	11.3	0.4	3.42	13.9	
	0.3	3.57	6.9	0.4	4.12	8.3	0.5	4.6	8.7	0.5	4.27	12.6	
	0.4	4.47	4.3	0.5	4.9	6.8	0.6	5.33	6.4	0.6	5.03	10.1	

HPZ series nozzle HPZ 系列喷嘴

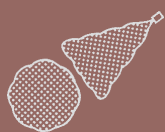
产品型号 Model	气压 (MPa) Atmospheric pressure(MPa)												喷射角 (°) Spray angle (degree)
	0.15			0.2			0.25			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	
HPZ2.0-60QZ2	0.1	0.87	13.4	0.15	1.22	15.7	0.2	1.45	18.0	0.25	1.58	21.4	60
	0.15	1.75	11.0	0.2	2.0	13.5	0.25	2.05	16.1	0.3	2.2	18.8	
	0.2	2.45	9.3	0.25	2.62	12.0	0.3	2.8	14.3	0.35	2.9	17.0	
	0.25	3.23	7.5	0.3	3.32	10.5	0.35	3.38	13.1	0.4	3.55	15.0	
HPZ2.2-75QZ2	0.15	1.9	8.9	0.2	2.2	10.9	0.25	2.3	13.1	0.3	2.6	14.8	75
	0.2	2.6	7.6	0.25	2.8	9.9	0.3	3.0	11.8	0.35	3.2	13.8	
	0.3	4.1	4.4	0.3	3.5	8.1	0.4	4.3	8.8	0.4	3.7	12.6	
	0.4	5.2	2.7	0.4	4.7	5.4	0.5	5.3	6.4	0.5	4.8	9.6	
HPZ2.3-75QZ2	0.2	2.7	7.9	0.2	2.3	9.3	0.2	2.1	11.6	0.2	1.9	13.2	75
	0.3	3.6	7.3	0.3	3.2	8.5	0.3	3.0	11.1	0.3	3.0	13.0	
	0.4	4.5	5.7	0.4	4.2	7.5	0.4	3.8	10.5	0.4	3.6	12.1	
	0.5	5.3	5.0	0.5	5.1	6.9	0.5	4.6	9.2	0.5	4.3	11.2	
HPZ2.3-90QZ2	0.15	2.18	9.0	0.2	2.3	11.7	0.25	2.72	14.5	0.3	2.95	17.2	90
	0.2	2.8	8.2	0.25	3.02	11.0	0.3	3.22	13.5	0.35	3.4	16.4	
	0.3	3.88	7.1	0.3	3.53	10.3	0.4	4.15	12.4	0.4	3.85	15.6	
	0.4	4.77	6.0	0.4	4.45	9.2	0.5	4.97	11.0	0.5	4.7	14.1	
HPZ2.4-90QZ2	0.1	1.15	11.0	0.15	1.52	13.5	0.2	1.8	15.8	0.25	2.08	16.6	90
	0.15	2.05	9.7	0.2	2.4	11.6	0.3	3.23	13.1	0.3	2.78	15.3	
	0.2	2.85	8.3	0.3	3.72	9.9	0.4	4.38	11.1	0.4	3.97	12.9	
	0.3	4.17	6.5	0.4	4.78	8.1	0.5	5.35	9.7	0.5	4.95	11.8	
	0.4	5.23	5.4	0.5	5.73	6.3	0.6	6.2	8.4	0.6	5.83	10.4	
HPZ2.5-60QZ2	0.15	2.3	7.5	0.2	2.5	9.8	0.25	2.7	12.0	0.3	3.0	14.4	60
	0.2	3.0	6.2	0.25	3.2	8.5	0.3	3.3	10.7	0.35	3.5	13.1	
	0.3	4.4	4.6	0.3	3.8	7.7	0.4	4.5	8.8	0.4	4.1	11.9	
	0.4	5.4	3.3	0.4	5.0	5.8	0.5	5.6	7.1	0.5	5.2	10.2	
HPZ2.5-55QZ2	0.15	2.3	10.0	0.15	1.8	14.7	0.2	2.0	17.2	0.2	1.5	21.4	55
	0.2	3.1	8.7	0.2	2.5	12.3	0.25	2.7	14.9	0.3	3.0	17.8	
	0.25	3.9	6.7	0.3	4.0	9.7	0.3	3.4	13.7	0.4	4.2	14.5	
	0.3	4.7	5.5	0.4	5.3	6.4	0.4	4.8	9.8	0.5	5.4	10.7	
HPZ2.8-75QZ2	0.12	1.3	15.9	0.16	1.23	20.5	0.2	1.28	24.5	0.25	1.67	26.3	75
	0.15	2.55	10.4	0.2	2.8	12.6	0.25	3.2	15.2	0.3	3.45	17.3	
	0.2	5.07	4.3	0.25	5.28	6.1	0.3	5.53	7.2	0.35	5.5	10.6	
	0.25	7.02	1.6	0.3	7.22	2.6	0.35	7.17	4.5	0.4	7.47	5.6	
HPZ4.4-75QZ2	0.2	5.6	6.0	0.2	4.4	8.6	0.2	3.6	11.1	0.2	3.1	13.2	75
	0.3	8.3	4.8	0.3	7.3	6.0	0.3	6.3	8.5	0.3	5.5	10.9	
	0.4	10.7	4.5	0.4	9.6	5.1	0.4	8.5	6.7	0.4	7.5	8.8	
	0.5	12.6	4.3	0.5	11.8	4.9	0.5	10.8	5.3	0.5	9.9	6.7	



HPZ series nozzle HPZ 系列喷嘴

HPZ series air-water atomizing nozzle

HPZ 系列气-水雾化喷嘴



产品型号 Model	气压 (MPa) Atmospheric pressure(MPa)												喷射角 (°) Spray angle (degree)
	0.15			0.2			0.25			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	
HPZ4.4-55QZ2	0.13	1.7	21.3	0.17	1.4	28.2	0.22	1.7	33.2	0.26	1.7	38.5	55
	0.15	4.0	13.3	0.2	4.4	16.4	0.25	4.7	19.6	0.3	5.5	21.2	
	0.18	7.4	4.2	0.22	6.6	9.4	0.3	9.4	7.1	0.35	9.6	8.6	
				0.25	9.4	2.0	0.33	11.6	3.8	0.38	11.7	5.4	
HPZ4.5-80QZ2	0.13	2.1	14.2	0.17	1.6	21.3	0.22	2.2	24.2	0.25	1.4	30.4	80
	0.15	4.1	8.9	0.2	4.5	11.1	0.25	4.7	14.4	0.3	5.1	17.3	
	0.18	6.9	3.9	0.25	8.7	4.3	0.3	8.7	6.7	0.35	8.8	9.6	
	0.2	8.0	2.4	0.27	9.7	2.1	0.33	10.4	3.1	0.4	11.6	4.2	
HPZ4.9-65QZ2	0.12	1.8	24.3	0.18	2.4	28.1	0.22	2.0	36.2	0.27	2.4	39.9	65
	0.15	4.6	13.9	0.2	4.9	18.8	0.25	5.3	22.2	0.3	6.0	25.0	
	0.18	8.3	5.7	0.22	7.2	12.0	0.3	10.5	8.5	0.35	10.7	12.3	
	0.2	9.9	2.3	0.25	10.3	4.9	0.33	12.9	5.0	0.4	14.4	5.7	
HPZ5.0-95QZ2	0.2	7.2	6.4	0.2	5.0	10.5	0.2	3.2	15.3	0.2	2.1	18.6	95
	0.3	11.9	4.6	0.3	10.1	5.7	0.3	7.5	8.8	0.3	6.0	12.9	
							0.4	12.3	4.9	0.4	10.5	7.9	
										0.5	14.2	5.4	
HPZ5.6-80QZ2	0.13	2.3	16.6	0.18	3.1	19.6	0.22	2.1	28.0	0.28	4.2	26.8	80
	0.15	5.2	8.8	0.2	5.6	11.8	0.25	5.9	15.1	0.3	6.4	18.0	
	0.18	8.8	3.5	0.23	8.9	6.0	0.28	9.2	8.4	0.33	9.5	11.2	
	0.2	11.0	2.2	0.25	10.6	3.9	0.3	10.9	5.9	0.35	11.1	8.4	
HPZ7.4-80QZ2	0.13	3.8	19.9	0.15	1.4	36.3	0.2	2.2	40.9	0.25	2.9	46.2	80
	0.15	6.7	12.1	0.2	7.4	16.3	0.25	8.0	21.0	0.3	8.0	26.0	
	0.18	11.1	6.6	0.23	11.3	9.7	0.3	13.7	10.4	0.35	14.0	14.2	
	0.2	13.3	4.6	0.25	13.4	7.0	0.35	18.1	5.2	0.4	18.2	7.7	
HPZ8.8-80QZ2	0.13	4.5	22.8	0.15	2.2	39.5	0.2	3.0	45.1	0.25	4.0	49.6	80
	0.15	8.1	14.5	0.2	8.8	19.5	0.25	9.6	24.1	0.3	10.0	29.9	
	0.18	13.0	7.7	0.25	15.8	8.5	0.3	16.0	12.8	0.35	16.4	16.9	
	0.2	15.4	5.4	0.28	18.9	6.1	0.35	21.2	7.2	0.4	21.3	10.6	
HPZ9.0-65QZ2	0.12	3.5	35.6	0.17	4.7	38.7	0.22	6.1	42.2	0.28	8.1	43.8	65
	0.15	8.1	21.2	0.2	9.0	26.3	0.25	10.0	30.4	0.3	11.0	35.1	
	0.18	13.5	10.4	0.25	16.6	12.4	0.3	17.0	16.8	0.4	23.3	12.2	
	0.2	16.6	7.4	0.3	22.9	5.4	0.35	23.1	9.0	0.44	27.3	8.1	
HPZ9.4-95QZ2	0.2	13.1	10.2	0.2	9.4	17.8	0.2	6.7	26.6	0.2	4.8	36.2	95
	0.3	20.9	5.3	0.3	17.7	9.2	0.3	14.0	15.8	0.3	11.0	23.5	
				0.4	24.0	5.6	0.4	21.3	8.1	0.4	18.3	14.1	
							0.5	26.8	6.0	0.5	24.5	9.1	

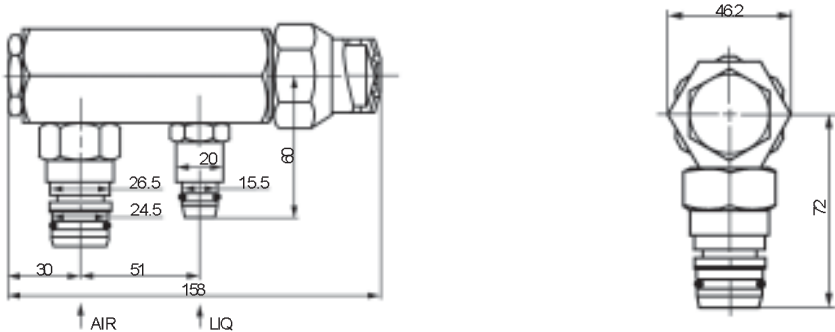
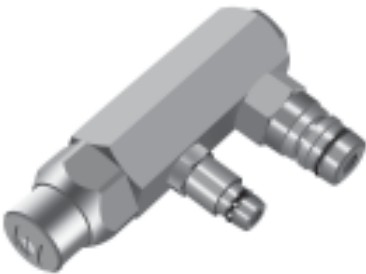
HPZ series nozzle HPZ 系列喷嘴

喷雾特性及用途:

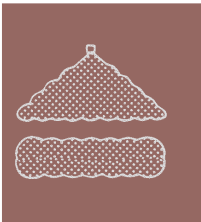
该形式喷嘴为直交内混式气、水雾化喷嘴，其结构独特，喷雾形状为矩形，分布均匀，主要适用于方坯连铸的二次冷却，尤为特殊钢连铸，也可用于除尘及其它冷却的设备中。

Spray Feature and Application:

This kind of nozzle is marked with direct inner mixing of air and water for atomization. It is in unique structure. The spray pattern is rectangle with even distribution. It is mainly used as aftercooling in continuous casting of square billet, especially continuous casting of special steel. It can also be used in dust elimination and cooling equipment.



产品型号 Model	气压 (MPa) Atmospheric pressure(MPa)									喷射角 (°) Spray angle (degree)
	0.1			0.2			0.3			
	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm³/h)	
HPZ2.0—120 × 45J	0.1	1.42	3.0	0.1	1.27	5.2	0.1	1.18	7.3	120 × 45
	0.2	2.05	4.0	0.2	2.00	5.9	0.2	1.80	7.5	
	0.3	2.57	3.9	0.3	2.48	4.6	0.3	2.38	7.2	
	0.4	2.97	3.3	0.4	2.90	5.5	0.4	2.80	7.0	
	0.5	3.35	3.0	0.5	3.25	4.8	0.5	3.15	7.1	
	0.6	3.70	3.0	0.6	3.58	4.4	0.6	3.48	6.9	
HPZ3.7—90 × 45J	0.1	2.67	6.1	0.1	2.43	9.0	0.1	2.12	11.3	90 × 45
	0.2	3.88	6.0	0.2	3.65	8.3	0.2	3.45	11.5	
	0.3	4.80	4.7	0.3	4.57	8.3	0.3	4.38	11.1	
	0.4	5.57	5.6	0.4	5.37	8.2	0.4	5.15	11.3	
	0.5	6.27	4.6	0.5	6.05	8.4	0.5	5.83	11.3	
	0.6	6.78	4.2	0.6	6.65	8.1	0.6	6.47	11.4	
HPZ3.3—90 × 45J	0.1	2.45	9.3	0.1	1.98	14.4	0.1	1.53	17.9	90 × 45
	0.2	3.68	8.7	0.2	3.33	13.5	0.2	2.95	17.9	
	0.3	4.63	8.5	0.3	4.28	13.2	0.3	4.02	17.8	
	0.4	5.45	8.4	0.4	5.10	13.4	0.4	4.82	17.9	
	0.5	6.15	6.4	0.5	5.83	12.9	0.5	5.52	17.7	
	0.6	6.75	7.9	0.6	6.47	12.5	0.6	6.18	17.5	



HPZ series nozzle HPZ 系列喷嘴

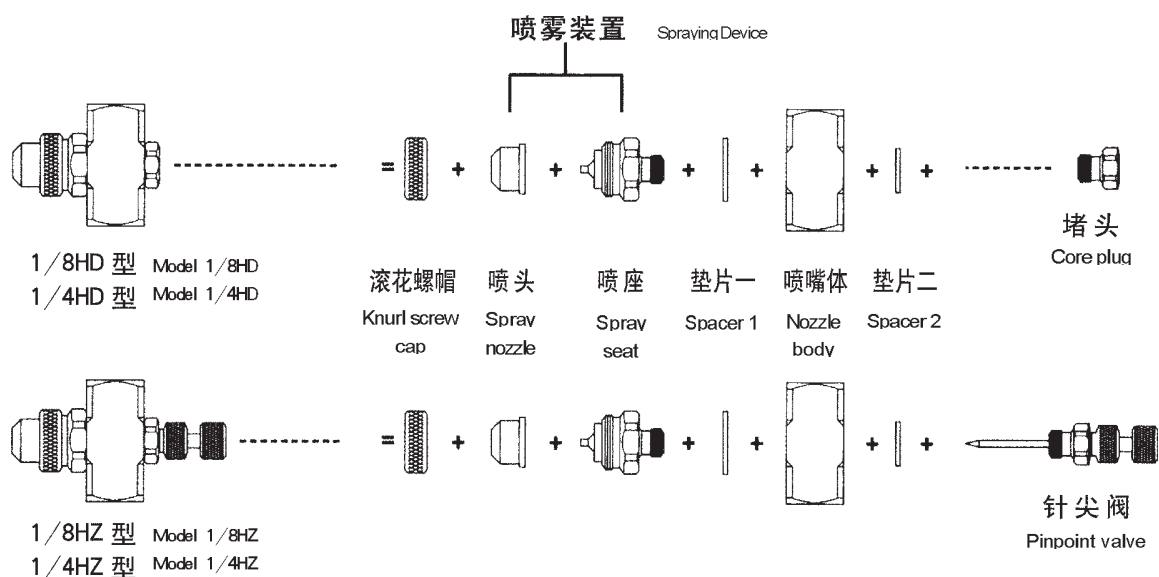
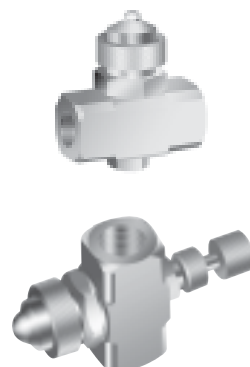
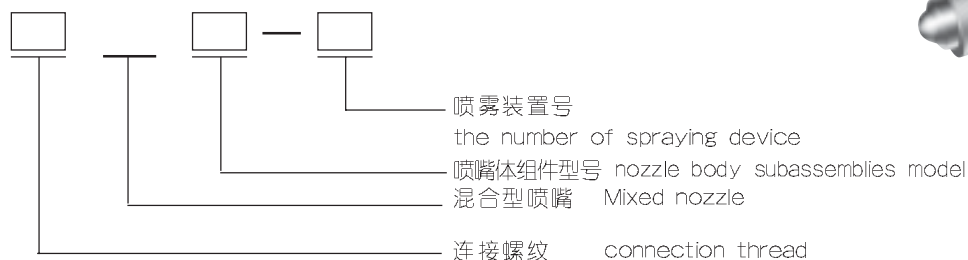
喷雾特性及用途:

空气雾化喷嘴能精确控制空气和水的混合比例, 实现气水混合雾化, 产生数十微米直径的水滴, 发挥极佳的环境加湿效果。该喷嘴产生的微细喷雾, 对于要求有效湿度控制的场所是非常理想的选择: 主要应用于毛纺喷雾加湿、模具润滑、喷雾注入以及空气消毒杀菌等领域。

Spray Feature and Application:

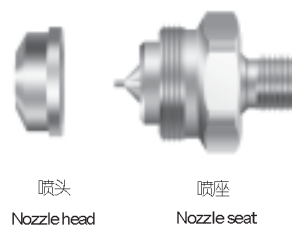
The nozzle can precisely control the proportion of air and water in mixing for achieving the atomization effect and producing extremely tiny water drops, which exert extremely good effect in humidification for the environment. The nozzle is an ideal choice when there are requirements for producing extremely fine atomized water drops and in circumstances where the humidity of the air is required for control. It is mainly used for spray humidification of wool spinning, lubrication of die, spray injection, air disinfection etc.

型号说明: Model Illustrati



每种喷雾装置号都是由喷头和喷座组成

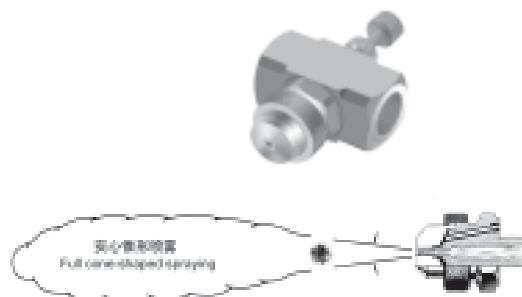
Each spraying device is composed of a nozzle head and a nozzle seat.



HPZ series nozzle HPZ 系列喷嘴

喷雾特性: Spray Feature

- 1、内部混合 1. Interior mixing
- 2、实心锥形喷雾区域 2. Solid taper-shaped spraying zone
- 3、最细密的雾化 3. The finest and densest atomization
- 4、喷射距离远(可达9米) 4. Long spraying distance (up to 9m)
- 5、小角度(17° ~ 22°) 5. Small angle (17 ~ 22°)



实心锥形喷雾 Full cone-shaped spraying

产品型号 Model	液体流量(L/h)和空气流量(Nm³/h) liquid flow(L/h) and air flow(Nm³/h)																喷雾尺寸 size of spraying		
	水 压 water pressure (bar)																		
	0.7			1.5			2			3			4			空气 air	液体 liquid	喷射角 angle	
	空气 压力 air pressure (bar)	水 water (L/h)	空气 air (Nm³/h)	空气 压力 air pressure (bar)	水 water (L/h)	空气 air (Nm³/h)	空气 压力 air pressure (bar)	水 water (L/h)	空气 air (Nm³/h)	空气 压力 air pressure (bar)	水 water (L/h)	空气 air (Nm³/h)	空气 压力 air pressure (bar)	水 water (L/h)	空气 air (Nm³/h)				
1/4HZ-1QZ1	0.7	2.5	0.96	1.1	6.4	0.72	1.4	6.4	0.84	2.7	6.2	1.38	3.5	7.8	1.68				
	0.85	1.8	1.14	1.4	5.0	0.9	1.7	5.5	1.02	2.8	5.7	1.5	3.7	7.3	1.74	0.85	0.7	13°	
	1.0	1.4	1.32	1.7	4.1	1.14	2.0	4.5	1.2	3.0	5.2	1.62	3.9	6.4	1.98	1.7	1.5	13°	
				1.8	3.4	1.2	2.2	3.4	1.44	3.1	4.7	1.74	4.2	5.5	2.28	2.5	2.0	13°	
				2.0	3.0	1.38	2.4	3.0	1.56	3.2	4.3	1.86	4.5	4.5	2.58	3.1	3.0	14°	
				2.1	2.6	1.5	2.5	2.5	1.68	3.4	3.9	1.98	4.6	4.1	2.7	4.5	4.0	15°	
1/4HZ-2QZ1				2.2	2.0	1.62	2.7	2.3	1.86	3.7	3.0	2.28	4.8	3.7	2.82				
	0.7	2.5	1.14	1.4	5.7	1.62	1.7	6.7	1.74	2.2	9.2	2.04	2.8	11.9	2.34				
	0.85	2.0	1.32	1.5	5.2	1.74	1.8	6.4	1.86	2.5	8.2	2.34	3.1	11.0	2.58	0.85	0.7	12°	
	1.0	1.6	1.56	1.7	4.8	1.92	2.0	5.9	2.04	2.8	7.2	2.64	3.4	10.1	2.82	1.5	1.5	13°	
				1.8	4.3	2.1	2.1	5.2	2.22	3.0	6.7	2.82	3.7	9.2	3.12	2.4	2.0	13°	
				2.0	3.9	2.22	2.2	4.8	2.4	3.1	6.3	2.94	3.9	8.4	3.48	3.0	3.0	13°	
1/4HZ-3QZ1				2.1	3.4	2.4	2.4	4.3	2.58	3.2	5.9	3.12	4.2	7.6	3.72	3.9	4.0	15°	
				2.7	3.6	2.88	3.4	5.5	3.3	4.5	6.8	4.08							
	0.85	4.8	1.26	1.7	8.4	1.86	2.0	10.7	1.98	2.7	16.5	2.22	3.4	20	2.58				
	1.1	4.1	1.62	1.8	7.5	2.1	2.1	9.8	2.22	2.8	15.4	2.28	3.7	18.4	2.82	1.5	0.7	12°	
	1.4	3.4	1.96	2.0	7.0	2.22	2.4	8.2	2.52	3.1	13.6	2.58	3.9	16.8	3.0	2.5	1.5	13°	
	1.5	3.1	2.1	2.2	5.7	2.64	2.7	6.8	2.88	3.4	11.8	2.94	4.2	15.2	3.3	3.0	2.0	13°	
1/4HZ-4QZ1	1.7	3.0	2.34	2.5	4.8	2.94	3.0	5.9	3.3	3.7	10.4	3.3	4.5	13.8	3.6	3.4	3.0	14°	
	1.8	2.9	2.46	2.8	4.1	3.24	3.2	5.0	3.54	3.9	9.1	3.66	4.8	12.4	3.9	4.2	4.0	15°	
	2.0	2.8	2.64	3.1	3.6	3.54	3.5	4.1	3.9	4.2	7.9	3.9	4.9	11.8	4.08				
	1.1	13.0	4.56	2.2	17.8	6.96	2.8	20	8.16	3.4	32	8.94	4.6	37	11.6				
	1.4	8.9	5.46	2.5	13.1	7.8	3.1	16.3	8.94	3.9	25	10.2	5.3	29	13.2	1.7	0.7	18°	
	1.5	7.2	5.88	2.8	9.5	8.58	3.4	11.9	9.78	4.6	15.9	12.3	5.6	25	14.1	2.8	1.5	20°	
1/4HZ-5QZ1	1.7	5.8	6.3	3.1	7.0	9.42	3.9	7.0	11.2	5.3	9.1	14.4	6.0	21	15	3.9	2.0	20°	
	1.8	4.7	6.72	3.4	4.9	10.3	4.2	4.7	12.3	5.6	6.8	15.3	6.3	17.4	16.2	5.3	3.0	21°	
	2.0	3.6	7.14	3.5	4.2	10.7	4.6	3.0	13.2	6.0	5.0	16.5	6.7	14.0	17.4	6.0	4.0	21°	
	2.1	2.7	7.62							6.3	3.6	17.4	7.0	11.0	18.3				
	0.85	31	3.42	1.4	61	4.14	2.1	53	5.76	2.7	80	6.18	3.8	88	8.1				
	1.0	25	3.96	1.5	54	4.56	2.4	41	6.72	3.0	69	7.02	4.2	73	9.36	1.0	0.7	17°	
1/4HZ-6QZ1	1.1	18.5	4.5	1.7	48	5.1	2.7	31	7.62	3.2	59	7.8	4.6	61	10.6	1.8	1.5	18°	
	1.3	12.9	5.1	1.8	41	5.58	2.8	26	8.16	3.5	49	8.76	4.9	48	11.8	2.8	2.0	20°	
				2.0	35	6.12	3.0	22	8.64	3.7	44	9.24	5.3	39	12.9	3.5	3.0	20°	
				2.1	30	6.6				3.8	37	9.66	5.6	31	14.4	4.9	4.0	21°	
				2.2	25	7.14				3.9	35	10.2	6.0	23	15.6				
	1.0	44	5.16	1.4	125	4.74	2.0	123	6.48	2.2	199	5.28	3.0	250	5.94				
1/4HZ-6QZ1	1.1	32	6.12	1.5	106	5.46	2.1	108	7.14	2.5	174	6.6	3.2	225	7.2	1.0	0.7	19°	
				1.7	87	6.3	2.2	95	7.8	2.8	146	7.98	3.5	205	8.46	1.7	1.5	20°	
				1.8	70	7.08	2.4	79	8.58	3.1	121	9.24	3.8	182	9.78	2.4	2.0	21°	
				2.0	55	7.8	2.5	64	9.3	3.2	108	9.96	4.1	159	11	3.1	3.0	21°	
							2.7	52	9.96	3.4	95	10.6	4.6	121	13.5	3.8	4.0	22°	
							2.8	42	10.7	3.5	84	11.2	4.9	93	15.3				



内部混合
(压力装置)
实心锥形喷雾 Full cone-shaped spraying



外部混合
(虹吸装置)
实心锥形喷雾 Full cone-shaped spraying



内部混合
(压力装置)
扁平形喷雾 Flat-shaped spraying



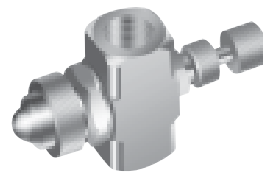
外部混合
(压力装置)
扁平形喷雾 Flat-shaped spraying

HPZ series nozzle HPZ 系列喷嘴

喷雾特性: Spray Feature

- 1、内部混合
- 2、70° 空心锥形喷雾区域
- 3、最细密的雾化
- 4、中等喷雾距离

1. Interior mixing
2. Hollow taper-shaped spraying zone in 70°
3. The finest and densest atomization
4. Medium spraying distance



空心锥形喷雾 Hollow cone-shaped spraying

产品型号 Model	液体流量(L/h)和空气流量(Nm³/h) liquid flow(L/h) and air flow(Nm³/h)																喷雾尺寸 size of spraying		
	水 压 water pressure (bar)																		
	0.7			1.5			2			3			4			空气 air	水 water	喷射 角度 spray angle	
	空气 压力 air pressure (bar)	水 water (L/h)	空气 air (Nm³/h)	空气 压力 air pressure (bar)	水 water (L/h)	空气 air (Nm³/h)	空气 压力 air pressure (bar)	水 water (L/h)	空气 air (Nm³/h)	空气 压力 air pressure (bar)	水 water (L/h)	空气 air (Nm³/h)	空气 压力 air pressure (bar)	水 water (L/h)	空气 air (Nm³/h)				
1/4HZ-1KZ	0.6	5.3	0.6	1.1	8.1	0.79	1.5	8.1	0.92	2.4	8.9	1.24	3.1	10.5	1.44	0.7	0.7	70°	
	0.7	4.3	0.72	1.3	7.0	0.88	1.8	6.6	1.09	2.7	8.1	1.4	3.4	9.7	1.68	1.4	1.5	70°	
	0.85	3.0	0.84	1.4	6.4	0.94	2.1	4.9	1.32	3.0	6.4	1.66	3.9	7.8	2.18	1.8	2.0	70°	
	1.0	1.7	1.02	1.5	5.5	1.01	2.4	3.2	1.68	3.2	4.9	1.92	4.2	6.1	2.52	3.0	3.0	70°	
				1.7	4.5	1.16				3.4	4.2	2.13	4.6	4.4	2.82	3.9	4.0	70°	
1/4HZ-2KZ				1.8	3.5	1.3				3.5	3.4	2.33	4.9	2.8	3.24				
	0.85	7.0	3.0	1.7	13.2	4.08	2.0	18.5	4.08	2.8	25	5.04	3.7	31	5.76				
	1.0	2.1	3.72	1.8	9.8	4.74	2.1	15.1	4.56	3.0	22	5.52	3.8	28	6.3	0.85	0.7	70°	
							2.2	11.7	5.1	3.1	18.5	6.06	3.9	26	6.78	1.7	1.5	70°	
										3.2	15.1	6.54	4.1	23	7.32	2.1	2.0	70°	
1/4HZ-3KZ										3.4	12.1	7.14	4.2	20	7.8	3.2	3.0	70°	
										3.5	9.1	7.8	4.6	13.6	9.18	4.1	4.0	70°	
										3.7	6.1	8.52	4.9	6.8	11				
	0.7	24	1.92	1.4	43	2.22	2.1	33	3.96	2.8	52	3.9	3.7	63	4.08				
	0.85	13.6	2.64	1.5	35	2.94	2.2	26	4.68	3.0	46	4.56	3.8	58	4.74	0.85	0.7	70°	
1/4HZ-4KZ	1.0	7.6	3.42	1.7	28	3.66	2.4	18.9	5.34	3.1	39	5.22	3.9	52	6.06	1.5	1.5	70°	
				1.8	21	4.26	2.5	11.7	6.0	3.2	33	5.94	4.2	41	6.66	2.4	2.0	70°	
										3.4	26	6.6	4.6	27	8.28	3.2	3.0	70°	
										3.5	19.5	7.32	4.9	15.9	9.96	3.9	4.0	70°	
										3.7	13.2	7.98							
1/4HZ-5KZ	1.3	36	5.1	2.1	57	6.96	3.1	53	9.36	4.2	64	11.8	5.6	74	14.7				
	1.5	29	6.12	2.4	51	7.8	3.2	50	9.78	4.9	51	13.8	6.0	68	15.6	2.0	0.7	70°	
	1.8	23	7.02	2.7	45	8.58	3.4	47	10.2	5.6	40	15.9	6.3	62	16.8	3.0	1.5	70°	
	2.0	19.7	7.5	3.0	39	9.42	3.5	45	10.6	6.0	34	17.1	6.7	56	17.7	3.9	2.0	70°	
	2.1	16.7	7.98	3.2	33	10.2	3.9	38	11.6	6.3	28	18	7.0	51	18.9	6.0	3.0	70°	
1/4HZ-6KZ	2.3	14.0	8.52	3.5	28	11.1	4.6	25	13.8	6.7	22	19.2				6.3	4.0	70°	
	2.4	11.4	8.94	4.2	13.6	13.2	4.9	18.5	14.7	7.0	17.8	20.1							
	1.1	12.3	2.4	2.2	16.3	3.72	2.7	21.1	4.14	4.2	19.3	6.0	5.6	22	7.8				
	1.3	9.9	2.7	2.5	12.1	4.26	3.0	16.3	4.68	4.6	14.6	6.78	6.0	17.6	8.52	1.5	0.7	60°	
	1.4	7.9	3.0	2.8	8.9	4.74	3.2	12.3	5.16	4.9	10.8	7.44	6.3	14.0	9.12	3.0	1.5	60°	
1/4HZ-7KZ	1.5	6.1	3.24	3.0	7.6	4.98	3.4	10.7	5.46	5.3	8.1	8.1	6.7	11.4	9.78	3.4	2.0	60°	
	1.7	4.9	3.48	3.1	6.4	5.22	3.5	9.3	5.64	5.6	6.2	8.76	7.0	9.1	10.4	5.3	3.0	60°	
	1.8	3.9	3.72	3.2	5.5	5.46	3.9	6.4	6.3	6.0	4.9	9.42				6.3	4.0	60°	
	2.0	3.1	4.02	3.4	4.7	5.7	4.2	4.7	6.9	6.3	4.0	10							
	1.7	25	9.36	3.0	39	13.8	3.4	50	15	4.6	62	19.2	6.0	93	23.7	2.0	0.7	70°	
1/4HZ-8KZ	1.8	19.7	10	3.1	33	14.4	3.5	43	15.6	4.9	47	20.7	6.3	77	25.5	3.2	1.5	70°	
	2.0	15.1	10.7	3.2	27	15.3	3.7	41	16.5	5.3	36	22.5	6.7	62	27.6	3.9	2.0	70°	
	2.1	11.4	11.6	3.4	23	15.9	3.9	27	18	5.6	26	24.3	7.0	52	29.7	5.3	3.0	70°	
	2.3	7.6	12.3	3.5	18.5	16.8	4.1	23	18.6	6.0	18.9	26.1				6.3	4.0	70°	
				3.7	14.8	17.4	4.2	18.9	19.2	6.3	13.6	27.6							

HPZ series nozzle HPZ 系列喷嘴

喷雾特性: Spray Feature

- 1、内部混合
- 2、最细密的雾化
- 3、扁平扇形, 广角喷雾区域(70° ~90°)

1. Interior mixing
2. The finest and densest atomization
3. Flat fan-shaped spraying zone in large angle (70° ~90°)



扁平形喷雾 Flat-shaped spraying

产品型号 Model	液体流量(L/h)和空气流量(Nm³/h) liquid flow(L/h)and air flow(Nm³/h)																喷雾尺寸 size of spraying		
	水 压 water pressure (bar)																		
	0.7			1.5			2			3			4						
	空气 压力 (bar)	水 (L/h)	空气 (Nm³/h)	空气 压力 (bar)	水 (L/h)	空气 (Nm³/h)	空气 压力 (bar)	水 (L/h)	空气 (Nm³/h)	空气 压力 (bar)	水 (L/h)	空气 (Nm³/h)	空气 压力 (bar)	水 (L/h)	空气 (Nm³/h)	空气 (bar)	水 (bar)	喷射 角度 angle	
1/4HZ-1B1	0.7	5.5	1.44	1.3	9.1	1.86	2.0	8.6	2.52	2.7	11.2	3.12	3.9	12.0	4.14	1.1	0.7	76°	
	0.85	4.7	1.62	1.5	7.7	2.16	2.2	7.5	2.82	3.0	10.1	3.36	4.6	9.7	4.86	2.1	1.5	80°	
	1.0	4.1	1.86	1.8	6.5	2.52	2.5	6.2	3.12	3.2	9.1	3.72	5.3	7.5	5.58	2.8	2.0	84°	
	1.1	3.5	2.04	2.1	5.4	2.82	2.8	5.2	3.42	3.5	8.1	3.96	6.0	5.3	6.24	3.5	3.0	87°	
	1.3	3.0	2.22	2.4	4.3	3.12	3.1	4.2	3.78	4.2	5.4	4.74	6.3	4.3	6.6	6.0	4.0	90°	
	1.4	2.5	2.4	2.7	3.3	3.42	3.2	3.7	3.9	4.6	4.2	5.1	6.7	3.3	6.96				
1/4HZ-2B1	1.5	2.0	2.64	2.8	2.8	3.6	3.4	3.2	4.08	4.9	3.1	5.46	7.0	2.4	6.32				
	0.85	8.2	1.2	1.4	14.4	1.62	2.1	13.5	2.16	2.7	19.1	2.52	4.6	16.1	4.14	1.1	0.7	90°	
	1.0	6.8	1.38	1.7	11.9	1.92	2.4	11.4	2.52	3.0	17.1	2.76	4.9	13.8	4.56	2.1	1.5	93°	
	1.1	5.5	1.62	2.0	9.5	2.22	2.7	9.2	2.82	3.2	15.1	3.12	5.3	11.5	4.98	3.0	2.0	96°	
	1.3	4.1	1.8	2.1	8.3	2.4	3.0	7.1	3.18	3.5	13.1	3.42	5.6	9.3	5.4	3.5	3.0	100°	
	1.4	2.9	2.04	2.2	7.1	2.58	3.2	5.0	3.54	4.2	8.1	4.32	6.0	7.3	5.82	5.6	4.0	100°	
1/4HZ-3B1					2.4	6.1	2.76	3.4	4.0	3.78	4.6	5.9	4.74	6.3	5.6	6.24			
					2.5	5.1	2.94	3.5	3.3	3.96	4.9	4.0	5.16	6.7	4.3	6.72			
	1.0	9.0	1.5	2.0	10.4	2.46	2.4	11.6	2.88	3.1	15.6	3.36	4.2	17.1	4.38	1.4	0.7	36°	
	1.1	7.8	1.8	2.1	9.3	2.7	2.5	10.4	3.06	3.2	14.6	3.54	4.6	15.0	4.8	2.5	1.5	40°	
	1.3	6.6	1.92	2.2	8.2	2.88	2.7	9.4	3.24	3.4	13.7	3.72	4.9	12.8	5.22	3.2	2.0	40°	
	1.4	5.2	2.16	2.5	6.1	3.3	3.0	7.3	3.66	3.8	10.8	4.26	5.3	11.0	5.64	3.8	3.0	46°	
1/4HZ-4B1	1.7	3.1	2.64	2.8	4.3	3.72	3.2	5.5	4.08	4.2	8.5	4.92	5.6	9.4	6.18	5.3	4.0	51°	
	2.0	2.0	3.0	3.1	3.0	4.14	3.5	4.1	4.5	4.9	5.2	5.88	6.3	7.2	7.14				
	2.2	1.1	3.36	3.4	2.0	4.5	3.8	2.9	4.86	6.0	2.3	7.2	7.0	6.0	8.04				
	1.3	3.9	1.8	2.1	7.4	2.4	3.0	6.1	3.12	3.9	9.4	3.6	5.3	10.2	4.69	1.5	0.7	76°	
	1.4	3.0	1.98	2.4	5.3	2.7	3.1	5.3	3.24	4.2	7.2	4.02	5.6	8.3	5.04	2.7	1.5	80°	
	1.5	2.3	2.1	2.5	4.4	2.82	3.2	4.5	3.42	4.6	5.3	4.38	6.0	6.6	5.34	3.2	2.0	85°	
1/4HZ-5B1	1.7	1.8	2.28	2.7	3.7	3.0	3.4	3.8	3.54	4.9	3.8	4.8	6.3	5.1	5.88	4.2	3.0	89°	
	1.8	1.3	2.46	2.8	3.1	3.12	3.5	3.2	3.72							5.6	4.0	92°	
	2.0	0.95	2.64	3.0	2.6	3.3	3.9	1.8	4.08										
					3.1	2.1	3.42												
	1.0	17.0	1.38	2.0	24	2.64	2.4	28	3.06	3.4	38	4.32	3.9	65	4.5	1.1	0.7	36°	
	1.1	11.0	1.62	2.1	18.9	3.0	2.5	23	3.54	3.5	33	4.8	4.2	53	5.34	2.1	1.5	36°	
1/4HZ-6B1	1.3	7.6	1.98	2.2	14.4	3.36	2.7	18.9	3.96	3.7	28	5.34	4.6	40	6.48	2.8	2.0	40°	
	1.4	3.2	2.4	2.4	10.6	3.78	2.8	15.1	4.44	3.8	23	5.82	4.9	30	7.62	3.7	3.0	46°	
					2.5	7.2	4.26	3.0	11.7	4.74	3.9	19.7	6.3	5.3	21	8.94	4.9	4.0	51°
											4.2	13.1	7.2	5.6	13.8	10.4			
											4.6	7.2	8.28	6.3	3.2	13.5			
	1.1	11.2	3.24	2.1	18.0	4.74	2.7	19.6	5.58	3.5	27	6.72	4.6	33	8.22	1.4	0.7	46°	
1/4HZ-7B1	1.3	8.5	3.6	2.2	15.8	5.04	2.8	17.3	5.88	3.7	25	6.96	4.9	28	8.94	2.4	1.5	54°	
	1.4	6.5	3.9	2.4	13.6	5.34	3.0	15.2	6.18	3.8	23	7.26	5.3	24	9.66	3.0	2.0	60°	
	1.5	5.0	4.26	2.5	11.6	5.7	3.1	13.2	6.54	3.9	21	7.56	5.6	19.7	10.4	3.7	3.0	66°	
	1.7	3.8	4.62				3.2	11.4	6.84	4.1	18.9	7.92	6.0	15.7	11.2	5.3	4.0	69°	
										4.2	17.0	8.22	6.3	12.4	12				
	0.85	27	1.98	1.8	38	3.3	2.4	39	4.02	3.2	58	4.56	4.6	59	6.36	1.1	0.7	49°	
1/4HZ-8B1	1.0	20	2.28	2.1	28	3.96	2.7	30	4.62	3.5	47	5.22	5.3	40	7.92	2.4	1.5	54°	
	1.1	15.9	2.7	2.2	24	4.26	3.0	24	5.22	3.8	38	5.82	5.6	32	8.7	3.2	2.0	60°	
	1.3	12.5	2.88	2.4	21	4.56	3.2	17.8	5.88	3.9	34	6.18	6.0	26	9.48	3.9	3.0	66°	
	1.4	10.2	3.36	2.5	17.8	4.92	3.4	15.1	6.18	4.2	27	6.78	6.3	20	10.3	6.0	4.0	69°	
	1.5	7.6	3.72	2.7	15.1	5.22	3.5	12.9	6.54	4.6	20	7.56	6.7	15.9	11.1				
							3.7	10.6	6.84	4.9	14.8	8.4	7.0	12.7	11.9				
1/4HZ-8B1	1.0	29	5.4	1.8	56	7.02	2.1	100	7.14	3.0	126	8.4	4.1	140	10.9	1.0	0.7	49°	
	1.1	18.9	6.48	2.0	40	7.98	2.2	79	7.98	3.1	110	9.06	4.2	125	11.6	1.8	1.5	60°	
							2.4	62	8.82	3.2	95	9.78	4.6	89	13.5	2.4	2.0	60°	
							2.5	48	9.72	3.4	78	11	4.9	58	15.9	3.4	3.0	69°	
							2.7	36	10.6	3.5	62	11.6	5.3	34	18.3	4.9	4.0	72°	
										3.7	48	12.6	5.6	16.7	20.4				
									3.8	37	13.5								



HPZ series nozzle HPZ 系列喷嘴

喷雾特性: Spray Feature

- 1、流量最低
- 2、非常细密的雾化
- 3、小角度(17° ~ 22°)
- 4、实心锥形喷雾区域
- 5、喷射距离由短到适中

1. Flow rate the lowest
2. Extremely fine and dense atomization
3. Small angle (17° ~ 22°)
4. Solid taper-shaped spraying zone
5. The spraying distance from short to the medium



实心锥形喷雾 Full cone-shaped spraying

产品型号 Model	雾化空气 Atomized air		液体流量 (L/h) Liquid flow (L/h)								喷射角度 spray angle	
	空气压力 air pressure (bar)	空气流量 Air flow (L/min)	重力落差 Weight fall			虹吸高度 Siphon height					空气 air (bar)	喷射角度 spray angle
			45 (cm)	30 (cm)	15 (cm)	10 (cm)	20 (cm)	30 (cm)	60 (cm)	90 (cm)		
1/4HZ-1QZ2	0.7	0.66	1.5	1.3	1.1	0.87	0.68	0.53			0.7	18°
	1.5	1.02	1.8	1.7	1.5	1.3	1.2	1.1	0.62		1.5	18°
	3.0	1.68	2.1	1.9	1.7	1.5	1.4	1.3	1.1	0.76	3.0	18°
	4.0	2.16	2.2	2.0	1.8	1.6	1.5	1.4	1.2	0.87	4.0	18°
1/4HZ-2QZ2	0.7	0.78	2.4	2.1	1.7	1.5	1.2	0.79			0.7	18°
	1.5	1.2	2.8	2.6	2.4	2.1	1.9	1.6	0.91		1.5	18°
	3.0	1.92	3.4	3.1	2.9	2.8	2.6	2.4	1.7	1.1	3.0	18°
	4.0	2.46	3.7	3.4	3.3	3.1	2.9	2.7	2.1	1.5	4.0	19°
1/4HZ-3QZ2	0.7	1.38	2.5	2.3	2.0	1.6	1.4	1.1			0.7	18°
	1.5	2.16	2.9	2.8	2.5	2.2	2.0	1.7	0.89		1.5	18°
	3.0	3.48	3.4	3.3	3.2	2.9	2.8	2.5	1.9	1.2	3.0	19°
	4.0	4.44	3.7	3.6	3.5	3.4	3.3	3.0	2.5	2.0	4.0	20°
1/4HZ-4QZ2	0.7	1.14	4.5	4.0	3.4	2.1	1.8	1.4			0.7	21°
	1.5	1.86	5.3	4.9	4.4	3.5	2.9	2.7	1.8		1.5	21°
	3.0	3.0	6.0	5.6	5.0	4.4	4.0	3.4	2.4	1.2	3.0	21°
	4.0	3.9	5.7	5.4	5.0	4.2	3.9	3.5	2.8	1.9	4.0	22°
1/4HZ-5QZ2	1.5	3.48	22	19.9	16.3	12.3	10.5	8.3	2.8		1.5	17°
	3.0	5.28	25	23	19.5	16.7	14.2	11.5	6.4	2.8	3.0	18°
	4.0	6.66	26	24	21	18.4	15.7	12.9	7.9	4.5	4.0	18°
	5.6	8.82	26	24	22	19.7	17.0	14.6	9.8	6.1	5.6	19°
1/4HZ-6QZ2	2.0	8.64				27	22	16.8			2.0	20°
	3.0	11.4				30	26	21			3.0	20°
	4.0	14.4		43	40	31	28	23	11.0		4.0	21°
	5.6	18.9	44	42	39	31	28	24	16.7	8.3	5.6	22°

扁平形喷雾 Flat-shaped spraying

产品型号 Model	雾化空气 Atomized air		液体流量 (L/h) Liquid flow (L/h)								喷射角度 spray angle	
	空气压力 air pressure (bar)	空气流量 Air flow (L/min)	重力落差 Weight fall			虹吸高度 Siphon height					空气 air (bar)	喷射角度 spray angle
			45 (cm)	30 (cm)	15 (cm)	10 (cm)	20 (cm)	30 (cm)	60 (cm)	90 (cm)		
1/4HZ-1B2	0.7	1.68	1.3	1.2	1.1	1.0	0.95	0.83	0.64	0.49	0.7	60°
	1.5	2.58	1.2	1.1	1.0	0.90	0.86	0.78	0.66	0.54	1.5	65°
	2.0	3.0	0.82	0.76	0.68	0.57	0.50				2.0	66°
1/4HZ-2B2	1.5	3.36	3.7	3.5	3.3	2.9	2.8	2.5	2.3	2.1	1.5	70°
	2.0	3.9	3.4	3.3	3.1	2.8	2.7	2.6	2.4	2.2	2.0	73°
	3.0	5.22	2.8	2.7	2.5	2.4	2.2	2.1	1.9	1.7	3.0	78°
	4.0	6.6	1.9	1.8	1.6	1.5	1.3	1.2			4.0	81°
1/4HZ-3B2	1.5	4.08	5.1	4.8	4.5	3.8	3.7	3.5	3.0	2.4	1.5	53°
	2.0	4.68	4.9	4.7	4.4	3.6	3.4	3.2	2.9	2.3	2.0	57°
	3.0	6.18	3.4	3.2	3.0	2.2	2.0	1.7			3.0	61°
	3.5	7.02	2.2	2.0	1.7							
1/4HZ-4B2	1.5	3.78	7.6	7.2	63.6	5.7	5.4	5.1	4.6	3.7	1.5	51°
	2.0	4.38	7.6	7.3	6.8	5.9	5.7	5.5	5.0	4.2	2.0	53°
	3.0	5.76	6.4	6.1	5.7	5.0	4.5	4.1	3.3		3.0	61°
	3.5	6.6	4.2	3.7	3.2	2.6						

HPZ series nozzle HPZ 系列喷嘴

喷雾特性: Spray Feature

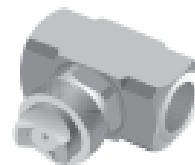
- 1、外部混合: 允许喷不同材料的介质
- 2、可变的雾化效果
- 3、喷雾角度适中(60° ~90°)
- 4、可变的雾化效果

1. Exterior mixing: media of different materials allowed

2. Variable atomizing effect

3. Moderate spraying angle (60° ~90°)

4. Variable atomizing effect



扁平形喷雾(外部混合) Flat-shaped spraying (External blending)

产品型号 Model	液体流量(L/h)和空气流量(Nm³/h) liquid flow(L/h)and air flow(Nm³/h)															喷雾尺寸 size of spraying		
	水 压 water pressure (bar)																	
	0.2			0.3			0.7			1.5			3			空气 air (bar)	水 water (L/h)	喷射 角度 spray angle
	空气 压力 air pressure (bar)	空气 (Nm³/h)	水 (L/h)	空气 压力 air pressure (bar)	空气 (Nm³/h)	水 (L/h)	空气 压力 air pressure (bar)	空气 (Nm³/h)	水 (L/h)	空气 压力 air pressure (bar)	空气 (Nm³/h)	水 (L/h)	空气 压力 air pressure (bar)	空气 (Nm³/h)	水 (L/h)			
1/4HZ-1B3	0.2	1.51		0.4	1.58		0.7	1.87		1.4	2.72		2.8	4.38		0.2	0.2	45°
	0.4	1.58		0.7	1.87		1.1	2.38		1.8	3.23		3.5	5.1		1.05	0.2	45°
	0.7	1.87		1.1	2.38		1.4	2.72		2.1	3.57		1.2	6.12		1.4	0.35	45°
	1.1	2.38	3	1.4	2.72	4	1.8	3.23	5	2.8	4.42	8	4.9	7.14	11	1.4	1.4	45°
	1.4	2.72		1.8	3.23		2.1	3.56		3.5	5.1		5.3	7.65		1.75	0.7	45°
	1.8	3.23		2.1	3.56		2.8	4.42		4.2	6.12		5.6	8.34		2.8	1.4	45°
1/4HZ-2B3	2.1	3.56		2.8	4.42		3.5	5.1		5.6	8.34		6.3	9.54		4.9	2.8	45°
	0.35	1.32		0.35	1.32		0.4	1.5		0.6	1.68		0.7	2.04		0.6	0.3	60°
	0.4	1.5		0.4	1.5		0.6	1.68		0.7	2.04		1.1	2.7		0.6	0.7	60°
			3			4			5			8			11	1.1	1.5	60°
	0.5	1.62		0.6	1.68		0.7	2.04		1.1	2.7		1.8	3.72		1.4	1.5	60°
	0.6	1.68		0.7	2.04		0.9	2.4		1.4	3.24		2.5	4.74		1.1	2.0	60°
1/4HZ-3B3																1.4	3.0	60°
	0.4	1.58		0.7	1.87		1.1	2.38		1.8	3.23		3.2	4.92		0.35	0.2	45°
	0.7	1.87		1.1	2.38		1.4	2.72		2.1	3.56		3.5	5.1		1.4	0.2	45°
	1.1	2.38		1.4	2.72		1.8	3.23		2.8	4.42		4.2	6.12		1.75	0.35	45°
	1.4	2.72	5	1.8	3.23	6	2.1	3.56	8	3.5	5.1	12	4.9	7.14	17	1.75	1.4	45°
	1.8	3.23		2.1	3.56		2.8	4.42		4.2	6.12		5.3	7.62		2.1	0.7	45°
1/4HZ-4B3	2.1	3.56		2.8	4.42		3.5	5.1		4.9	7.14		6.3	9.54		3.5	1.4	45°
	2.8	4.42		3.5	5.1		4.2	6.12		6.3	9.54		6.7	9.84		5.3	2.8	45°
	0.4	1.32		0.4	1.32		0.6	1.68		0.7	2.04		1.1	2.7		0.7	0.3	60°
	0.6	1.68		0.7	2.04		0.7	2.04		1.4	3.24		1.4	3.24		1.1	0.7	60°
			5			6			8			12			17	1.4	1.5	60°
	0.7	2.04		1.1	2.7		1.4	3.24		2.1	4.26		2.1	4.26		2.5	1.5	60°
1/4HZ-5B3	1.1	2.7		1.4	3.24		2.1	4.26		2.5	4.74		2.5	4.74		1.8	2.0	60°
																1.8	3.0	60°
	0.7	1.87		1.1	2.38		1.4	2.72		2.5	4.08		3.5	5.1		0.7	0.2	45°
	1.1	2.38		1.4	2.72		1.8	3.23		2.8	4.42		4.2	6.12		1.75	0.2	45°
	1.4	2.72		1.8	3.23		2.1	3.56		3.5	5.1		4.9	7.14		2.1	0.35	45°
	1.8	3.23	9	2.1	3.56	11	2.8	4.42	16	4.2	6.12	23	5.3	7.62	33	2.5	1.4	45°
1/4HZ-6B3	2.1	3.56		2.8	4.42		3.5	5.1		4.9	7.14		5.6	8.34		2.8	0.7	45°
	2.8	4.42		3.5	5.1		4.2	6.12		5.6	8.34		6.3	9.54		4.2	1.4	45°
	3.5	5.1		4.2	6.12		4.9	7.14		6.3	9.54		7.0	10.6		5.3	2.8	45°
	0.4	1.5		0.4	1.5		0.4	1.5		0.7	2.04		1.4	3.24		0.6	0.3	60°
	0.5	1.65		0.6	1.68		0.6	1.68		0.85	2.4		1.8	3.72		0.7	1.5	60°
			9			11			16			23			33	1.1	1.5	60°
1/4HZ-6B3	0.6	1.68		0.65	1.86		0.7	2.04		1.1	2.7		2.1	4.26		1.4	1.5	60°
	0.7	2.04		0.7	2.04		0.85	2.4		1.4	3.24		2.5	4.74		1.8	2.0	60°
																2.1	3.0	60°



HPZ series nozzle HPZ 系列喷嘴

扁平形喷雾(外部混合) Flat-shaped spraying (External mixing)

产品型号 Model	液体流量(L/h)和空气流量(Nm³/h) liquid flow(L/h) and air flow(Nm³/h)															喷雾尺寸		
	水 压 water pressure (bar)															size of spraying		
	0.2			0.3			0.7			1.5			3			空气 air (bar)	水 water (L/h)	喷射 角度 spray angle
	空气 压力 air pressure (bar)	空气 (Nm³/h)	水 (L/h)	空气 压力 air pressure (bar)	空气 (Nm³/h)	水 (L/h)	空气 压力 air pressure (bar)	空气 (Nm³/h)	水 (L/h)	空气 压力 air pressure (bar)	空气 (Nm³/h)	水 (L/h)	空气 压力 air pressure (bar)	空气 (Nm³/h)	水 (L/h)			
1/4HZ-7B3	0.7	5.1		1.0	6.12		1.4	6.96		2.5	10.7		3.2	12.7		0.7	0.2	45°
	1.0	6.12		1.4	6.96		1.8	8.34		2.8	11.7		3.5	13.9		1.8	0.2	45°
	1.4	6.96		1.8	8.34		2.1	9.36		3.5	13.6		3.9	15.3		2.1	0.35	45°
	1.8	8.34	13	2.1	9.36	16	2.5	10.7	25	4.2	16	37	4.2	16.5	52	2.5	0.7	45°
	2.1	9.36		2.8	11.7		2.8	11.7		4.9	18.7		4.9	18.8		2.5	1.4	45°
	2.8	11.7		3.5	13.6		3.5	13.6		5.6	21.6		5.6	21.6		4.2	1.4	45°
3.5	13.6		4.2	16		4.2	16		6.3	24.7		6.3	24.7		4.9	2.8	45°	
1/4HZ-8B3	0.6	5.46		0.7	6.12		1.4	9.36		2.1	12.6		3.2	17.1		1.4	0.3	60°
	0.7	6.12		1.1	7.8		2.1	12.6		2.8	15.6		4.2	21.6		2.1	0.7	60°
			13			16			25			37			52	3.2	1.5	60°
	1.1	7.8		1.8	11		2.5	14.1		3.5	18.6		5.3	25.8		4.2	1.5	60°
	1.4	9.36		2.1	12.6		2.8	15.6		4.2	21.6		5.6	27.3		3.9	2.0	60°
																4.2	3.0	60°
1/4HZ-9B3	0.7	5.1		1.4	6.96		1.8	8.34		2.8	11.7		3.5	13.9		0.7	0.35	45°
	1.0	6.12		1.8	8.34		2.1	9.36		3.2	12.7		4.2	16.5		1.8	0.7	45°
	1.4	6.96		2.1	9.36		2.5	10.7		3.5	13.6		4.9	18.8		2.5	1.4	45°
	1.8	8.34	18	2.5	10.7	22	2.8	11.7	33	4.2	16	48	5.3	20.4	68	2.8	1.4	45°
	2.1	9.36		2.8	11.7		3.5	13.6		4.9	18.7		5.6	21.6		2.8	1.4	45°
	2.8	11.7		3.5	13.6		4.2	16		5.6	21.6		6.3	24.7		4.2	2.1	45°
3.5	13.6		4.2	16		4.9	18.7		6.3	24.7		6.6	25.7		5.3	2.8	45°	
1/4HZ-10B3	0.6	5.46		0.7	6.12		1.1	7.8		2.5	14.1		3.5	18.6		1.1	0.2	60°
	1.1	7.8		1.4	9.36		1.8	11		3.2	17.1		4.6	22.8		1.8	0.7	60°
			18			22			33			48			68	3.2	1.5	60°
	1.4	9.36		1.8	11		2.5	14.1		3.9	19.8		6.0	28.5		4.2	1.5	60°
	1.8	11		2.1	12		2.8	15.6		4.2	21.6		6.7	31.5		4.2	2.0	60°
																4.9	3.0	60°
1/4HZ-11B3	0.7	6.12		1.1	7.8		1.8	11		3.2	17.1		5.3	25.8		2.1	0.3	60°
	1.1	7.8		1.4	9.36		2.1	12.6		3.5	18.6		6.0	28.5		2.8	0.7	60°
			36			45			68			100			141	3.2	1.5	60°
	1.4	9.36		2.1	12.6		2.8	15.6		4.9	24.3		6.7	31.5		4.6	1.5	60°
	1.8	11		2.5	14.1		3.2	17.1		5.9	27.3		7.0	33		3.9	2.0	60°
																6.3	3.0	60°
1/4HZ-12B3	1.0	6.12		1.8	8.34		2.5	10.7		3.2	12.7		3.9	15.3		1.0	0.2	45°
	1.4	6.96		2.1	9.36		2.8	11.7		3.5	13.6		4.2	16.5		2.1	0.2	45°
	1.8	8.34		2.5	10.7		3.2	12.7		3.9	14.8		4.6	17.8		2.8	0.35	45°
	2.1	9.36	36	2.8	11.7	45	3.5	13.6	68	4.2	16	100	4.9	18.8	141	3.2	1.4	45°
	2.5	10.7		3.2	12.7		4.2	16		4.9	18.7		5.6	21.6		3.5	0.7	45°
	2.8	11.7		3.5	13.6		4.9	18.7		5.6	21.6		6.3	24.7		4.2	1.4	45°
3.5	13.6		4.2	16		5.6	21.6		6.3	24.7		7.0	27.2		5.6	2.8	45°	
1/4HZ-13B3	1.8	14.1		1.8	14.1		2.5	18		3.9	24.6					1.8	0.2	45°
	3.1	15.6		2.1	15.6		2.8	19.8		4.2	26.7					2.8	0.2	45°
	2.5	18		2.5	18		3.2	21.3		4.6	28.8					2.8	0.3	45°
	2.8	19.8	36	2.8	19.8	45	3.5	22.8	68	4.9	31.2	100				3.5	0.7	45°
	3.2	21.3		3.2	21.3		3.9	24.6		5.3	33.9					3.9	1.5	45°
	3.5	22.8		3.5	22.8		4.2	26.7		5.6	36					4.2	1.0	45°
4.2	26.7		4.2	26.7		4.9	31.2		6.3	41.1					4.9	1.5	45°	
1/4HZ-14B3	2.1	15.6		2.8	19.8		3.9	24.6		4.9	31.2					2.1	0.2	45°
	2.5	18		3.2	21.3		4.2	26.7		5.3	33.9					3.2	0.2	45°
	2.8	19.8		3.5	22.8		4.6	28.8		5.6	36					3.9	0.3	45°
	3.2	21.3	64	3.9	24.6	78	4.9	31.2	119	6.0	38.4	175				4.9	0.7	45°
	3.5	22.8		4.2	26.7		5.3	33.9		6.3	41.1					4.9	1.5	45°
	4.2	26.7		4.9	31.2		5.6	36								5.3	1.0	45°
4.9	31.2		5.6	36		6.3	41.1								5.6	1.5	45°	
1/4HZ-15B3	2.8	19.8		3.5	22.8		4.6	28.8		5.6	36					2.8	0.2	45°
	3.2	21.3		3.9	24.6		4.9	31.2		6.0	38.4					3.9	0.2	45°
	3.5	22.8		4.2	26.7		5.3	33.9		6.3	41.1					4.6	0.3	45°
	3.9	24.6	102	4.6	28.8	125	5.6	36	192			280				5.3	0.7	45°
	4.2	26.7		4.9	31.2		6.0	38.4								5.6	1.0	45°
	4.6	28.8		5.3	33.9		6.3	41.1								5.6	1.5	45°
4.9	31.2		5.6	36											6.0	1.5	45°	

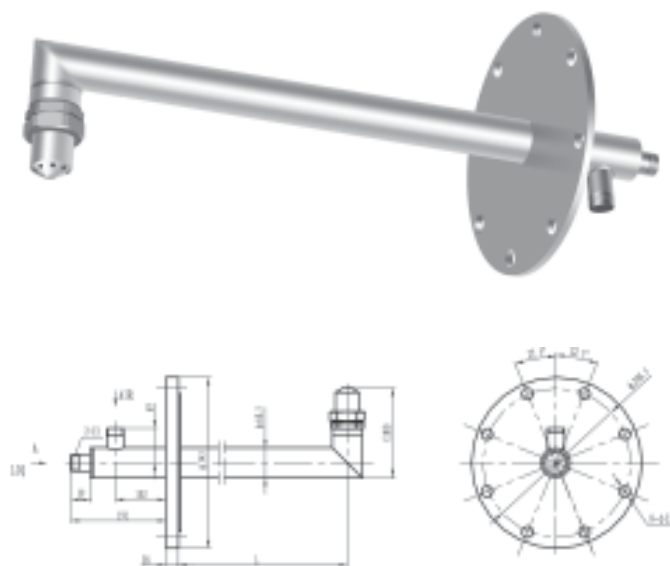
HPZ series nozzle HPZ 系列喷嘴

喷雾特性及用途:

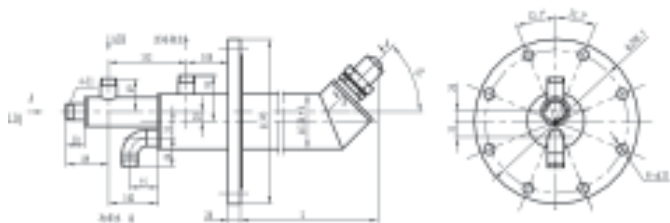
除尘喷枪是一种高效率的双流体双相喷嘴，对除去烟气中的细粉尘有很好的效果。喷嘴的气体压力可以设定一个恒定值，只改变液体的流量，调节比可达1:10；喷雾的颗粒直径在100微米左右，与烟气中的细粉尘粘结后和烟气分离，从而达到除尘的目的。由于喷嘴的通孔较大，减少了堵塞，池水和外排水都可以使用。该喷嘴主要适用于钢铁、水泥、环保、电厂、化工和其他行业的烟气冷却和除尘。

Spray Feature and Application:

Dust-removing spray gun is a double-fluid double-phase nozzle of high efficiency, which can effectively remove the fine dust in the smoke. The air pressure from the nozzle can be set at a static value; and only the flow rate of the liquid is to be changed with the adjustment ratio up to 1:10. The diameter of the fine grains from the spray is around 100 micron, which is separated from the smoke after combining with the fine dust in the smoke, eliminating the dust from the smoke. As the orifices of the nozzle are big, blocking is reduced, and the water in the tank and that from drainage can be used. The nozzle is fit for cooling and dust removal in steel making, cement, environment protection, power plant, chemical industry and others.



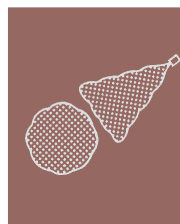
喷枪枪体角度有0°、45°、90°三种可供选择



带水冷保护管

注：尺寸L可根据用户要求给定。

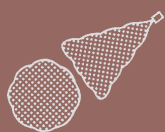
Note: size L can be changed according to requirement of users.



HPZ series nozzle HPZ 系列喷嘴

HPZ series air-water atomizing nozzle

HPZ 系列气-水雾化喷嘴



产品型号 Model	气压 Atmospheric pressurer (MPa)	水压 Water pressure (MPa)	水量 Water flow (L/min)	气量 Air flow (Nm ³ /h)	喷射角 (°) Spray angle (degree)
CP-5-60-90-L	0.42	0.34	3.8	252.6	60
		0.36	7.6	230.7	
		0.4	11.4	211.3	
		0.44	15.1	194.3	
		0.5	18.9	179.7	
		0.54	22.7	165.0	
		0.6	26.5	155.4	
	0.56	0.46	3.8	320.0	
		0.48	7.6	292.0	
		0.53	11.4	272.0	
		0.56	15.1	255.0	
		0.62	18.9	238.0	
		0.69	22.7	221.0	
		0.75	26.5	210.0	
CP-10-60-90-L	0.42	0.38	7.6	200.0	60
		0.4	15.1	170.0	
		0.42	22.7	144.5	
		0.46	30.3	125.5	
		0.5	37.9	104.2	
		0.53	45.4	87.2	
		0.56	53.0	76.5	
		0.62	60.6	68.0	
	0.56	0.65	64.4	63.8	
		0.53	7.6	218.0	
		0.54	15.1	204.0	
		0.56	22.7	187.0	
		0.6	30.3	165.0	
		0.62	37.9	147.0	
		0.66	45.4	128.4	
		0.7	53.0	113.0	
CP-25-60-90-L	0.42	0.71	60.6	108.0	60
		0.44	56.8	187.0	
		0.46	60.6	182.8	
		0.48	68.1	170.0	
		0.5	75.7	159.5	
		0.54	83.3	148.8	
		0.58	90.8	138.2	
		0.62	98.4	127.5	
	0.56	0.67	106.0	119.0	
		0.7	113.5	110.5	
		0.56	56.8	255.0	
		0.58	60.6	247.5	
		0.6	68.1	232.4	
		0.65	75.7	221.0	
		0.68	83.3	207.7	
		0.72	90.8	194.5	
		0.75	98.4	183.3	
		0.79	106.0	173.7	
		0.82	113.5	164.4	