

Large flow High pressure Return Nozzle

SPILLBACK NOZZLE

for circulating fluidized bed flue gas desulfurization

for CFB-FGD



Min. spray capacity

Supply pressure : 3.5MPa

Spray capacity : 1t/hr (16.7L/min)

Spray angle : 130°



Max. spray capacity

Supply pressure : 3.5MPa

Spray capacity : 10t/hr (167L/min)

Spray angle : 90°

IKEUCHI, with over 30 years of experience in gas-cooling nozzles, has developed a new model of hydraulic high-pressure return nozzle in our SBP series:

GSPB series with large flow of 10t/hr!

**Turndown ratio of 1:10 with
minimal variation in spray droplet size**

Ideal for gas cooling!



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“The Fog Engineers”

H. IKEUCHI & Co., LTD.

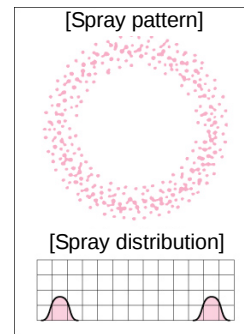
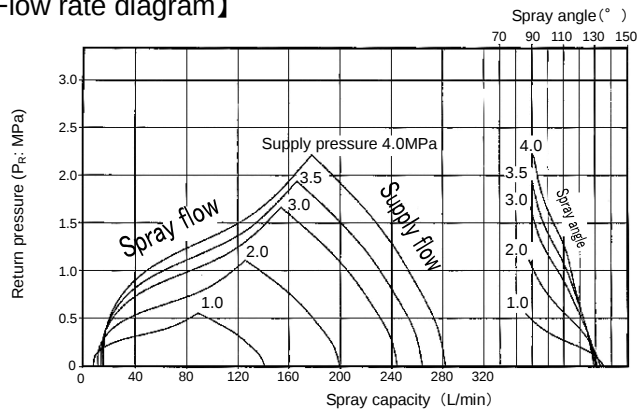
Specifications

Nozzle description			Spray capacity (L/min) at supply pressure 3.5MPa and Return pressure at				Spray angle (degrees) at supply pressure 3.5MPa and Return pressure at			Free passage diameter (mm)	Sauter mean droplet diameter * (μm)
Thread size	Series	Nozzle code	MAX (1.9MPa) (Return valve fully closed)	1.4MPa	0.7MPa	0MPa (Return valve fully open)	MAX (1.9MPa) (Return valve fully closed)	1.4MPa	0MPa (Return valve fully open)		
1*1/2F	GSPB	35*90/167	167	128	32.3	16.7	90	99	130	5.7	132~151

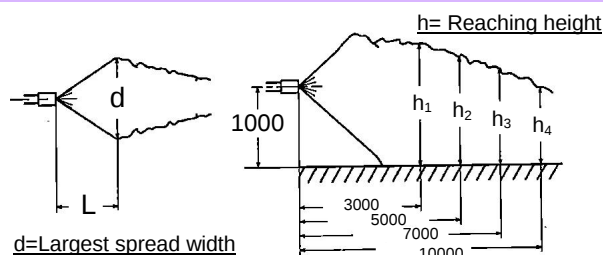
* Sauter mean droplet diameter measured by phase Doppler particle analyzer

Spray performance

【Flow rate diagram】

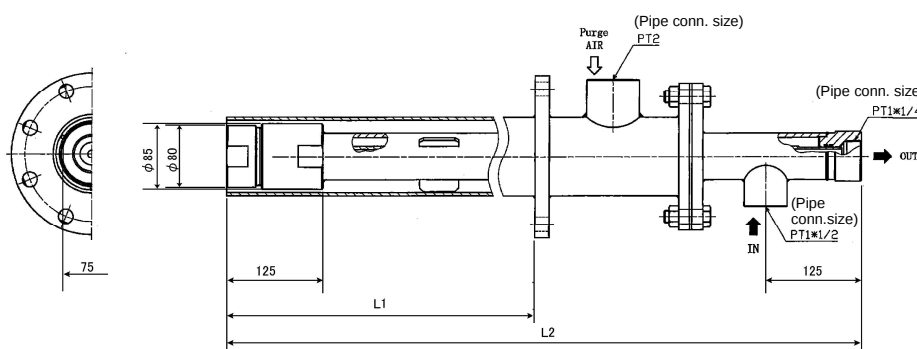


Spray dimensions



Pressure (MPa)		Spray dimensions (mm)					
Supply pressure Ps	Return pressure Pr	L	d	h1	h2	h3	h4
3.5	1.9 (MAX)	900	1000	1800	1600	1500	1400
	1.4	1100	1200	1600	1500	1400	1200
	0.7	1400	1700	1700	1400	1200	700
	0 (MIN)	1600	2300	1700	1300	1000	300

Structure, Dimensions and Materials



【Materials】

Spray tip: Tungsten carbide
Other parts: S316L, S304, S440C
Protector: S316
(In our material code, "S" represents "stainless steel".)

【Nozzle dimensions】

Please inquire with us for the total length (L2) and the length between the nozzle head and flange (L1).

How to inquire/order

Please specify the total length (L2), the length between the nozzle head and flange (L1) and the flange size.

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“The Fog Engineers”
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ISO9001:2008 certified

Headquarters

Daiichi Kyogyo Bldg., 1-15-15, Awaza
Nishi-ku, Osaka 550-0011, Japan
Tel: 81-6-6538-4015 Fax: 81-6-6538-4022
E-mail: overseas@kirinoikeuchi.co.jp
URL: http://www.kirinoikeuchi.co.jp/eng/

IKUUCHI (SHANGHAI) CO., LTD.

Room 1311, Building A, North Region Commercial Plaza, 988 Da Tong Road, Zha Bei District, Shanghai 200070, P.R.China
Tel: 86-21-6140-9731 Fax: 86-21-6123-4239 E-mail: mist@kirinoikeuchi.com URL: http://www.kirinoikeuchi.com/
Tianjin Branch Tel: +86-22-2320-1676 Fax: +86-22-2320-1675

IKUUCHI USA, INC.

8110 Beckett Center Drive, West Chester, OH 45069 USA
Tel: 1-513-942-3060 Fax: 1-513-942-3064 E-mail: info@ikeuchiusa.com URL: http://www.ikeuchiusa.com/

IKUUCHI EUROPE B.V.

Asterweg 17 A6, 1031 HL Amsterdam, The Netherlands
Tel: 31-20-820-2175 Fax: 31-20-820-2176 E-mail: info@ikeuchieurope.com URL: http://www.ikeuchieurope.com/

Ikeuchi Taiwan Co., Ltd.

11 F-1, No.27, Sec.1, Chung Shan N. Rd., Taipei, 10441, Taiwan, R.O.C.
Tel: 886-2-2511-6289 Fax: 886-2-2541-6392 E-mail: sales@ikeuchi.com.tw URL: http://www.ikeuchi.com.tw/

IKUUCHI (THAILAND) CO., LTD.

12 Soi Chalermpakiat Rama 9, Soi 30 Yak 24, Kwang Dokmai, Khet Prawet, Bangkok 10250 Thailand
Tel: 66-2-328-0392 Fax: 66-2-328-0391 E-mail: info@ikeuchithai.com