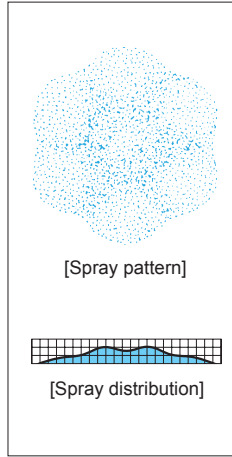


# Seven-head Full Cone Spray Nozzles

Made-to-Order  
**7JJXP**

Full Cone



- Full cone spray nozzle with an almost round-shaped spray area.
- Seven (7) JJXP full cone spray nozzles are installed on a very compact adaptor header.
- Mean spray droplet diameter is about half the size of other single-head full cone spray nozzles with the same spray capacity.
- X-shaped whirler provides a large free passage diameter, minimizing clogging.

[STANDARD PRESSURE]  
0.2 MPa

[APPLICATIONS]

- Gas cooling • Cleaning • Moisture control
- Dust suppression

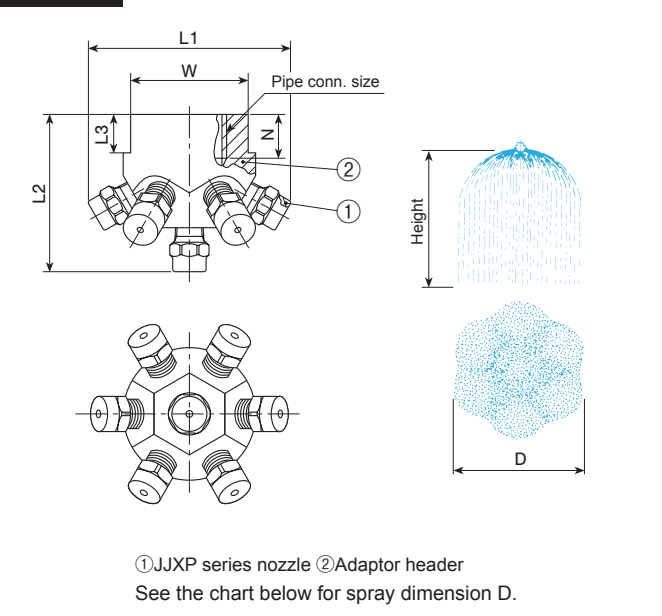
Structure	<ul style="list-style-type: none"> <li>• Seven (7) JJXP series full cone spray nozzles are screwed into an adaptor header.</li> <li>• JJXP series full cone spray nozzles have a one-piece structure with a press-fitted X-shaped whirler.</li> </ul>
Material	<ul style="list-style-type: none"> <li>• S303</li> <li>SPECIAL ORDER MATERIAL: S316</li> </ul>

Pipe conn. size <sup>1</sup>	Dimensions (mm)					Weight (g)
	L1	L2	L3	W	N	
Rc3/4	71	55	13	40	15	380
Rc1 (280)	89	67.5	17	46	17	620
Rc1 (490, 840)	103	75	20	55	17	1,080
Rc1½	128	92.5	20	70	19	1,860
Rc2	166	121.5	27	85	23	3,650

\*1) Figures in ( ) after the pipe connection size indicate the spray capacity code.

[Note] Appearance and dimensions may differ slightly depending on material and nozzle code.

DRAWING



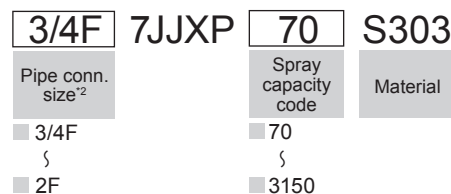
Spray capacity code	Pipe conn. size				Spray angle (°)			Spray dimension D (m) at each spray height (at 0.2 MPa)						Spray capacity (L/min)						Mean drop. dia. (µm)	Free pass. dia. (mm)				
	Rc 3/4	Rc 1	Rc 1½	Rc 2	0.05 MPa	0.2 MPa	0.5 MPa	1 m	1.5 m	2 m	2.5 m	3 m	3.5 m	0.05 MPa	0.1 MPa	0.15 MPa	0.2 MPa	0.3 MPa	0.5 MPa			0.7 MPa	1 MPa	1.5 MPa	2 MPa
	70	○				—	175	165	1.9	2.4	2.8	3.0	3.1	3.1	—	5.11	6.16	7.00	8.26			10.2	11.7	13.5	15.9
140	○				—	185	175	2.7	3.3	3.8	4.2	4.5	4.7	—	10.2	12.3	14.0	16.5	20.4	23.4	27.0	31.9	35.8	?	1.4
280		○			180	185	175	3.4	3.9	4.4	4.8	5.2	5.4	14.8	20.4	24.6	28.0	33.0	40.7	46.7	54.0	63.7	71.7	380	1.7
490		○			180	185	180	4.3	4.8	5.4	5.8	6.2	6.4	26.0	35.6	43.0	49.0	57.8	71.4	81.9	94.5	112	125	480	1.9
840		○			200	205	200	5.2	5.8	6.3	6.8	7.2	7.5	44.5	61.1	73.5	84.0	99.4	122	140	162	191	215	660	2.6
1120			○		190	195	180	5.6	6.3	6.9	7.4	7.8	8.1	59.3	81.2	98.0	112	132	163	187	216	255	287	?	3.5
1400			○		200	205	190	6.0	6.7	7.3	7.8	8.3	8.6	74.2	102	123	140	165	204	234	270	319	358	740	3.5
1820				○	195	200	185	6.2	6.9	7.5	8.0	8.5	8.8	96.6	132	160	182	215	265	304	351	414	466	?	4.7
2450				○	205	210	195	6.4	7.1	7.7	8.2	8.7	9.0	130	179	215	245	289	356	409	473	558	627	?	4.7
3150				○	210	215	200	6.6	7.3	7.9	8.4	8.9	9.2	167	229	277	315	372	458	525	608	717	806	950	4.7

[Note] 7JJXP series nozzles are guaranteed only for the spray capacity at standard pressure.

HOW TO ORDER

To inquire about or order a specific nozzle please refer to this coding system.

Example: 3/4F 7JJXP 70 S303


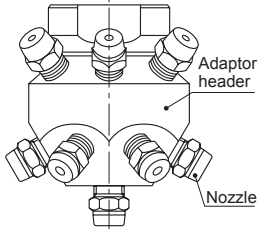


\*2) "F" indicates female thread ("Rc" of the ISO standard), e.g. 3/4F = Rc3/4.

This nozzle series is made-to-order.

**13JJXP** SERIES **Made-to-Order**

13-head Full Cone Spray Nozzles

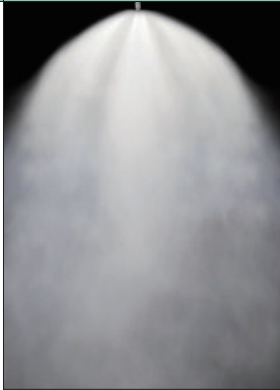
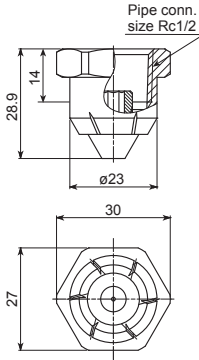

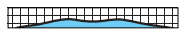
Series	Picture	Structure	Features	Applications
13JJXP			<ul style="list-style-type: none"> <li>• Full cone spray nozzle with an almost round-shaped spray area.</li> <li>• Thirteen (13) JJXP series full cone spray nozzles are screwed into a very compact adaptor header.</li> </ul>	<ul style="list-style-type: none"> <li>• Gas cooling</li> <li>• Moisture control</li> </ul>

This nozzle series is made-to-order.

Full Cone

# Multi-orifice Semi-fine Fog Nozzles for Fire Extinguishing

Made-to-Order  
**TSP**

Series	Picture	Structure	Applications
TSP			 <p>[Spray pattern]</p>  <p>[Spray distribution]</p> <p>[STANDARD PRESSURE] 5.0 MPa</p>
		<p>Unit: mm</p>	
		<p><b>Features</b></p> <ul style="list-style-type: none"> <li>• Produces a hollow cone spray pattern from the tip of the nozzle and flat spray patterns from the side slits of the nozzle, resulting in a nearly round impact area at a spray height of 2–3 m.</li> <li>• With an ultra-wide spray angle produced from multiple nozzle orifices, a single TSP nozzle provides a large spray width coverage from 2.8 m up to 4 m.</li> <li>• Produces semi-fine atomization with a mean droplet diameter of 100–200 µm.</li> <li>• Compact design.</li> </ul>	<p><b>Applications</b></p> <ul style="list-style-type: none"> <li>• Fire extinguishing, dust suppression, spraying</li> <li>• Tank cleaning</li> </ul>

This nozzle series is made-to-order.