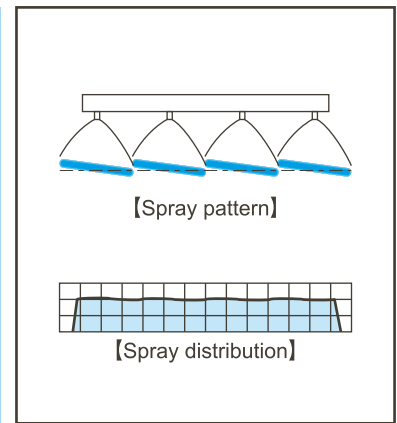


# Integrated Spray Header with Quick-Detachable nozzles

INVVEA

## Features

- Integrated spray header equipped with VVEA series nozzles producing semi-fine (and semi-coarse) atomization with a mean droplet diameter of 50 μm or more.\*1
- Quick-detachable design helps to greatly reduce maintenance time.
- Made of highly chemical-resistant plastic.
- High spray impact with thin flat spray pattern and uniform distribution.
- Ideal for washing away particles with fine fog spray.
- Nozzle tips are color-coded by spray capacity for easy identification.



\*1) Droplet diameter measured by laser Doppler method

## Applications

- Cleaning: Liquid crystal glass substrate, printed circuit boards
- Etching

## Materials

- Nozzle tip: PP, Nozzle adaptor: PPS, Header: HTPVC

Spray angle code *2	Spray capacity code	Air pressure (MPa)	Spray capacity (ℓ/min) & Air consumption (ℓ/min, Normal)						Mean droplet diameter (μm)	Free passage diameter (mm)			Color of nozzle tip	
			Liquid pressure (MPa)							Laser Doppler method	Spray orifice	Adaptor		
			0.2		0.3		0.5					Liquid		Air
60	10	0.2	0.54	36	0.90	24	—	—	20–250	1.4	1.1	1.3		
		0.3	0.30	58	0.60	49	1.28	25						
		0.4	—	—	0.39	74	1.00	50						
		0.5	—	—	—	—	0.81	69						
	20	0.2	0.96	44	1.98	18	—	—	30–300	1.5	1.6	1.6		
		0.3	0.53	81	1.10	59	2.63	19						
		0.4	—	—	0.53	104	2.00	50						
		0.5	—	—	—	—	1.30	89						
	30	0.2	1.34	50	—	—	—	—	40–400	1.6	1.9	1.9		
		0.3	0.63	100	1.60	64	—	—						
		0.4	—	—	0.88	128	3.00	50						
		0.5	—	—	—	—	2.25	85						

\*2) Spray angle measured at compressed air pressure 0.4 MPa and liquid pressure of 0.5 MPa.

## How to order

Please inquire or order for a specific nozzle using this coding system.

<Example> INVVEA 6010 PP + PPS + 11 (P50) 600 (10°) HTPVC  
 INVVEA 60 **10** PP + PPS + 11 (P50) 600 (10°) HTPVC

Spray capacity code

- 10
- 20
- 30