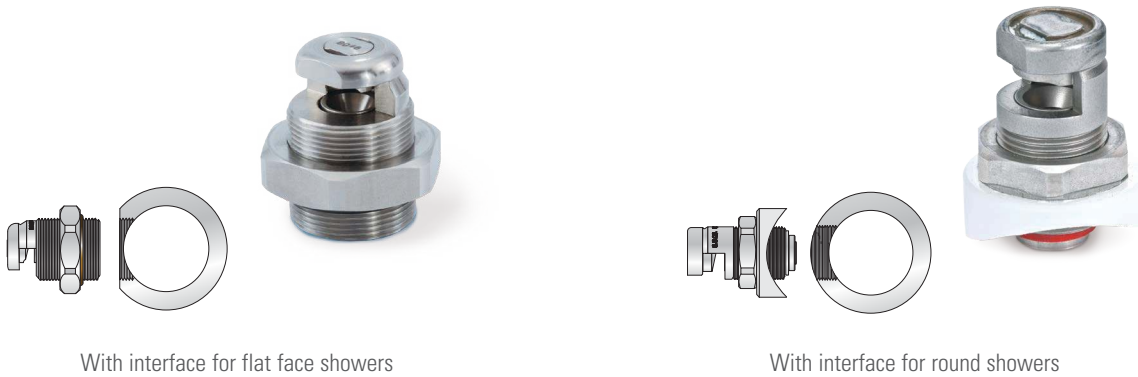


**OVERVIEW: SELF-CLEANING NOZZLES**

**Ideal for: use in environments with suspended solids and showers with high solids content in the water**

- For use with white water on save-all and knock-off showers
- Features a piston-type design. When line pressure is low, the nozzle's piston retracts to purge debris from the nozzle orifice
- Available with low or high actuator pressures
- Compact design fits easily inside paper machines
- Fast, easy installation and alignment
- Uniform spray distribution from .008 to 12.6 gpm (.03 to 47.7 lpm)
- Operating pressures up to 250 psi (17 bar)




**SELF-CLEANING NOZZLE OPTIONS**




With interface for flat face showers

With interface for round showers

**STYLES**

Model	Model Type	Spray Pattern	Description	Connection Thread Size	Hex in. (mm)	Materials
	<b>20210</b>	Flat and solid stream	Hex nut with O-ring for interface with flat face on shower headers	1-1/8"-20 UN	1-1/2 (38.1)	316 stainless steel body with 302 stainless steel spring, Buna-N O-ring and Fairprene® diaphragm
	<b>20235</b>	Flat	Hex nut with polypropylene saddle gasket for interface with round shower headers	3/4"-20 UNEF	1 (25.4)	316 stainless steel body with 302 stainless steel spring, silicone rubber diaphragm and polypropylene saddle gasket
	<b>26225</b>	Flat and solid stream	Hex nut with O-ring interface with flat face on shower	3/4"-20 UNEF	1 (25.4)	316 stainless steel body and spring, Viton® O-ring and silicone rubber diaphragm

STYLES

Model	Model Type	Spray Pattern	Description	Connection Thread Size	Hex in. (mm)	Materials
	<b>26411</b>	Flat	Solid stream pattern: hex nut with O-ring	3/4" BSPP	1-1/2 (38.1)	316 stainless steel body and spring, Viton® O-ring and natural rubber diaphragm
	<b>36090</b>	Flat and solid stream	Hex nut with O-ring interface with flat face on shower	M28 x 1.5	1-1/2 (38.1)	316 stainless steel body with 302 stainless steel spring, Buna-N O-ring and Fairprene® diaphragm
	<b>38332</b>	Flat	Self-sealing design for interface with any shower header	3/4"	1-1/16 (27)	316 stainless steel body and spring, silicone rubber diaphragm
	<b>38490</b>	Double solid stream*	Hex nut with O-ring interface with flat face on shower	1-1/8"-20 UN	1-1/2 (38.1)	316 stainless steel body and spring, Buna-N O-ring and Fairprene diaphragm
	<b>49905</b>	Double flat spray*	Hex nut with O-ring interface with flat face on shower	1-1/8"-20 UN	1-1/2 (38.1)	316 stainless steel body with 302 stainless steel spring, Buna-N O-ring and Fairprene diaphragm
	<b>49905-1</b>			M28 x 1.5		
	<b>72370</b>	Flat	Self-sealing design for interface with any shower header that has 1/2" NPT ports	1/2" NPT (male)	.812 (20.9) flats	316 stainless steel body with 302 stainless steel spring, silicone rubber diaphragm

\* Capacity size is for the entire nozzle assembly.

FOR DETAILED NOZZLE PERFORMANCE DATA, SEE  
 Standard Units  Metric Units

**PERFORMANCE DATA**  
**FLAT & SOLID STREAM SPRAY: 20210, 20235, 26225, 26411, 36090, 38332, 38490, 49905, 72370**

Spray Angle at 40 psi	Capacity Size	Flow Rate Capacity (gallons per minute)													
		20 psi	30 psi	40 psi	50 psi	60 psi	70 psi	80 psi	90 psi	100 psi	120 psi	140 psi	180 psi	200 psi	250 psi
130°	13016	1.1	1.4	1.6	1.8	2.0	2.1	2.3	2.4	2.5	2.8	3.0	3.4	3.6	4.0
120°	12008	.57	.69	.80	.89	.98	1.0	1.1	1.2	1.3	1.4	1.5	1.7	1.8	2.0
100°	10011	.78	.95	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.9	2.1	2.3	2.5	2.8
	10020	1.4	1.7	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.5	3.7	4.2	4.5	5.0
80°	8003	.21	.26	.30	.35	.37	.40	.42	.45	.47	.52	.56	.64	.67	.75
	8005	.35	.43	.50	.56	.61	.66	.71	.75	.79	.87	.94	1.0	1.1	1.3
	8011	.78	.95	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.9	2.1	2.3	2.5	2.8
	8019	1.3	1.6	1.9	2.1	2.3	2.5	2.7	2.9	3.0	3.3	3.6	4.0	4.2	4.8
	8030	2.1	2.6	3.0	3.4	3.7	4.0	4.2	4.5	4.7	5.2	5.6	6.4	6.7	7.5
	8036	2.5	3.1	3.6	4.0	4.4	4.8	5.1	5.4	5.7	6.2	6.7	7.6	8.0	9.0
	8046	3.3	4.0	4.6	5.1	5.6	6.1	6.5	6.9	7.3	8.0	8.6	9.8	10.3	11.5
60°	6005	.35	.43	.50	.56	.61	.66	.71	.75	.79	.87	.94	1.0	1.1	1.3
	6012	.85	1.0	1.2	1.3	1.5	1.6	1.7	1.8	1.9	2.1	2.2	2.5	2.7	3.0
	6014	.99	1.2	1.4	1.6	1.7	1.9	2.0	2.1	2.2	2.4	2.6	3.0	3.1	3.5
	6016	1.1	1.4	1.6	1.8	2.0	2.1	2.3	2.4	2.5	2.8	3.0	3.4	3.6	4.0
	6020	1.4	1.7	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.5	3.7	4.2	4.5	5.0
	6025	1.8	2.2	2.5	2.8	3.1	3.3	3.5	3.8	4.0	4.3	4.7	5.3	5.6	6.3
	6031	2.2	2.7	3.1	3.5	3.8	4.1	4.4	4.7	4.9	5.4	5.8	6.6	6.9	7.8
	6038	2.7	3.3	3.8	4.2	4.7	5.0	5.4	5.7	6.0	6.6	7.1	8.1	8.5	9.5
6050	3.5	4.3	5.0	5.6	6.2	6.6	7.0	7.5	8.0	8.7	9.4	10.6	11.2	12.6	
50°	5032	2.3	2.8	3.2	3.6	3.9	4.2	4.5	4.8	5.1	5.5	6.0	6.8	7.2	8.0
45°	4516	1.1	1.4	1.6	1.8	2.0	2.1	2.3	2.4	2.5	2.8	3.0	3.4	3.6	4.0
	4525	1.8	2.2	2.5	2.8	3.1	3.3	3.5	3.8	4.0	4.3	4.7	5.3	5.6	6.3
	4542	3.0	3.6	4.2	4.7	5.1	5.6	5.9	6.3	6.6	7.3	7.9	8.9	9.4	10.5
40°	4008	.56	.69	.80	.89	.98	1.0	1.1	1.2	1.3	1.4	1.5	1.7	1.8	2.0
	4012	.85	1.0	1.2	1.3	1.5	1.6	1.7	1.8	1.9	2.1	2.2	2.5	2.7	3.0
	4013	.92	1.1	1.3	1.5	1.6	1.7	1.8	2.0	2.1	2.3	2.4	2.8	2.9	3.3
	4014	.99	1.2	1.4	1.6	1.7	1.9	2.0	2.1	2.2	2.4	2.6	3.0	3.1	3.5
	4020	1.4	1.7	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.5	3.7	4.2	4.5	5.0
	4032	2.3	2.8	3.2	3.6	3.9	4.2	4.5	4.8	5.1	5.5	6.0	6.8	7.2	8.0
	4045	3.2	3.9	4.5	5.0	5.5	6.0	6.4	6.8	7.1	7.8	8.4	9.5	10.1	11.3
30°	3005	.35	.43	.50	.56	.61	.66	.71	.75	.79	.87	.94	1.0	1.1	1.3
	3013	.92	1.1	1.3	1.5	1.6	1.7	1.8	2.0	2.1	2.3	2.4	2.8	2.9	3.3
	3014	.99	1.2	1.4	1.6	1.7	1.9	2.0	2.1	2.2	2.4	2.6	3.0	3.1	3.5
	3040	2.8	3.5	4.0	4.5	4.9	5.3	5.7	6.0	6.3	6.9	7.5	8.5	8.9	10.0
20°	2012	.85	1.0	1.2	1.3	1.5	1.6	1.7	1.8	1.9	2.1	2.2	2.5	2.7	3.0
15°	1506	.42	.52	.60	.67	.73	.79	.85	.90	.95	1.0	1.1	1.2	1.3	1.5

Highlighted column shows the rated pressure.



PERFORMANCE DATA

FLAT & SOLID STREAM SPRAY: 20210, 20235, 26225, 26411, 36090, 38332, 38490, 49905, 72370

Spray Angle at 40 psi	Capacity Size	Flow Rate Capacity (gallons per minute)													
		20 psi	30 psi	40 psi	50 psi	60 psi	70 psi	80 psi	90 psi	100 psi	120 psi	140 psi	180 psi	200 psi	250 psi
0° (solid stream)	000012	.008	.010	.012	.013	.015	.016	.017	.018	.019	.021	.022	.025	.027	.03
	000026	.018	.022	.026	.029	.032	.034	.037	.039	.041	.045	.048	.055	.058	.065
	000053	.037	.046	.053	.059	.065	.07	.075	.079	.083	.092	.099	.11	.12	.13
	00007	.049	.061	.070	.078	.085	.092	.099	.10	.11	.12	.13	.15	.17	.18
	0001	.072	.088	.10	.11	.12	.13	.14	.15	.16	.18	.19	.22	.23	.26
	00017	.12	.15	.17	.19	.20	.22	.24	.25	.27	.29	.31	.35	.37	.42
	0002	.14	.17	.20	.22	.25	.26	.28	.30	.32	.35	.37	.42	.45	.5
	00025	.18	.22	.25	.29	.31	.34	.36	.38	.40	.44	.48	.54	.57	.64
	00032	.23	.28	.32	.36	.39	.42	.45	.48	.51	.56	.60	.68	.72	.80
	00043	.31	.38	.44	.49	.53	.58	.62	.65	.69	.75	.81	.92	.97	1.1
	0005	.35	.43	.50	.56	.61	.66	.71	.75	.79	.87	.94	1.0	1.1	1.3
	0006	.42	.52	.60	.67	.73	.79	.85	.90	.95	1.0	1.1	1.2	1.3	1.5
	0008	.56	.69	.80	.89	.98	1.0	1.1	1.2	1.3	1.4	1.5	1.7	1.8	2.0
	0010	.71	.86	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.9	2.1	2.2	2.5

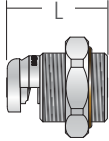
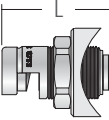
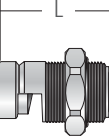
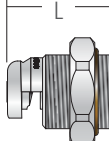
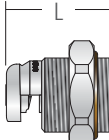
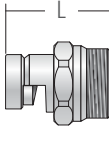
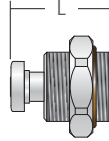
Highlighted column shows the rated pressure.

ORDERING INFORMATION

Call your local spray expert for application assistance or to place an order.

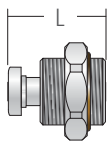
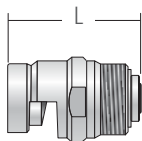


DIMENSIONS

Nozzle	Nozzle Type	Conn. Thread Size (in.)	Length in.	D (Dia.) in.	Hex. in.
	<b>20210</b>	1-1/8"-20 UN	1.63	1.66	1-1/2
	<b>20235</b>	3/4"-20 UNEF	1.40	1.25	1
	<b>26225</b>	3/4"-20 UNEF	1.40	1.09	1
	<b>26411</b>	3/4" BSPP	1.38	1.66	1-1/2
	<b>36090</b>	M28 x 1.5	1.63	1.66	1-1/2
	<b>38332</b>	3/4"	1.54	1.17	1-1/16
	<b>38490</b>	1-1/8"-20 UN	1.63	1.66	1-1/2

STANDARD UNITS

DIMENSIONS

Nozzle	Nozzle Type	Conn. Thread Size (in.)	Length in.	D (Dia.) in.	Hex. in.
	<b>49905</b>	1-1/8"-20 UN	1.63	1.66	1-1/2
	<b>49905-1</b>	M28 x 1.5	1.63	1.66	1-1/2
	<b>72370</b>	1/2"	1.39	0.875	.812 flats

ORDERING INFORMATION

Call your local spray expert for application assistance or to place an order.