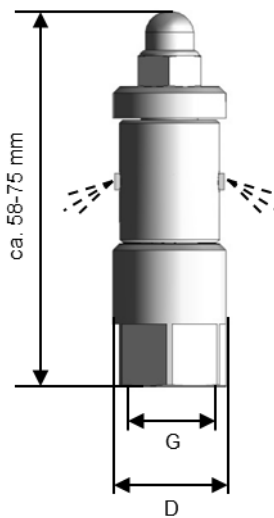


Whirl jet nozzle

WSD-R 2500

Whirl jet nozzles WSD-R 2500 are radial-radiating, rotating nozzles for pipe cleaning. Due to the repulsive force of the emerging high-pressure water, the nozzle rotor rotates several thousand revolutions and effectively frees tube walls from dirt. The whirl jet nozzles are available in many diameters for adaptation to different pipe diameters.



Special benefits

- Robust design and easy rotor exchange
- For use with lances or hoses
- Can also be used without forward feed unit

Technical data

Operating pressure	max. 2.500 bar
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Variants whirl jet nozzle

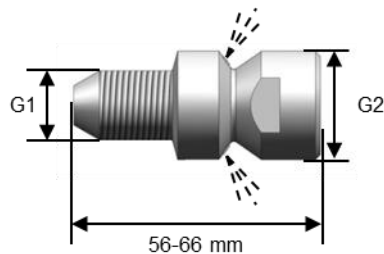
Type	Ø D [mm]	Thread G [mm]	Nozzle-Ø [mm]	Material-Number
WSD-R15	15	i 3/8"-24 UNF-LH	2x 0,2	9.899-776.0
			2x 0,3	9.886-808.0
			2x 0,4	9.886-809.0
			2x 0,5	9.886-810.0
			2x 0,6	9.886-811.0
			2x 0,7	9.899-777.0
			2x 0,8	9.899-778.0
WSD-R18	18	i 3/8"-24 UNF-LH	2x 0,2	9.899-779.0
			2x 0,3	9.886-812.0
			2x 0,4	9.886-813.0
			2x 0,5	9.886-814.0
			2x 0,6	9.899-687.0
			2x 0,7	9.899-780.0
			2x 0,8	9.899-781.0

Type	Ø D [mm]	Thread G [mm]	Nozzle-Ø [mm]	Material-Number
WSD-R22	22	i 9/16"-18 UNF-LH	2x 0,2	9.899-782.0
			2x 0,3	9.886-815.0
			2x 0,4	9.886-816.0
			2x 0,45	9.886-832.0
			2x 0,5	9.886-817.0
			2x 0,6	9.899-688.0
			2x 0,7	9.899-783.0
WSD-R28	28	i 9/16"-18 UNF-LH	2x 0,2	9.899-785.0
			2x 0,3	9.886-818.0
			2x 0,4	9.886-819.0
			2x 0,5	9.886-820.0
			2x 0,6	9.886-821.0
			2x 0,7	9.899-786.0
			2x 0,8	9.899-787.0

Performance chart whirl jet nozzle															
Type WSD	Operating pressure [bar]														
	1600	1700	1800	1900	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500
	Flow rate [l/min]														
R15 2x 0,2	11	12	12	13	14	14	15	15	16	16	16	17	17	18	19
R15 2x 0,3	12	13	13	14	15	15	16	16	17	17	17	18	18	19	20
R15 2x 0,4	14	15	15	16	17	17	18	18	19	19	19	20	20	21	21
R15 2x 0,5	17	18	18	19	19	20	20	20	21	21	22	22	23	23	23
R15 2x 0,6	19	20	20	21	21	22	22	22	23	23	23	24	24	24	25
R15 2x 0,7	22	23	23	24	24	25	25	25	26	26	26	27	27	27	28
R15 2x 0,8	26	27	27	28	28	29	29	29	30	30	30	31	31	31	32
R18 2x 0,2	12	13	13	14	15	15	16	16	17	17	17	18	18	19	20
R18 2x 0,3	13	14	14	15	16	16	17	17	18	18	18	19	19	20	21
R18 2x 0,4	15	16	16	17	18	18	19	19	19	20	21	22	22	23	23
R18 2x 0,5	18	19	19	20	21	21	22	22	23	23	24	25	25	26	26
R18 2x 0,6	22	23	24	25	26	27	28	28	29	29	30	30	31	31	32
R18 2x 0,7	28	29	31	32	33	34	35	36	37	37	38	38	39	39	40
R18 2x 0,8	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
R22 2x 0,2	13	13	14	15	15	16	17	17	18	18	18	19	19	20	20
R22 2x 0,3	14	14	15	16	16	17	18	18	19	19	20	20	20	21	21
R22 2x 0,4	15	16	17	18	18	19	19	20	20	21	22	22	23	23	24
R22 2x 0,45	16	17	18	19	20	20	21	22	22	22	23	24	24	25	26
R22 2x 0,5	19	20	21	22	23	23	24	25	25	25	26	27	27	28	29
R22 2x 0,6	23	24	25	26	27	28	29	29	30	30	31	31	32	32	33
R22 2x 0,7	31	32	33	34	35	36	37	38	39	40	41	41	42	42	43
R22 2x 0,8	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55

Type WSD	Operating pressure [bar]														
	1600	1700	1800	1900	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500
	Flow rate [l/min]														
R28 2x 0,2	14	14	15	16	16	17	18	18	19	19	20	20	20	21	21
R28 2x 0,3	15	15	16	17	17	18	19	19	20	20	21	21	21	22	23
R28 2x 0,4	17	17	18	19	19	21	22	22	23	23	24	24	25	25	26
R28 2x 0,5	20	21	22	23	24	25	26	26	27	27	28	28	29	29	30
R28 2x 0,6	24	25	26	27	28	29	30	30	31	31	32	32	33	33	34
R28 2x 0,7	33	34	35	36	37	38	39	40	41	42	43	43	44	44	45
R28 2x 0,8	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58

Accessories



Variants forward feed unit				
Type	for	Threads G1 – G2 [mm]	Nozzle-Ø [mm]	Material-Number VSE complete
VSE 15	WSD-R15	a 3/8"-24 UNF-LH – i 3/8"-24 UNF-LH	2x 0,5	9.899-788.0
			2x 0,6	9.886-834.0
			2x 0,7	9.899-789.0
VSE 18	WSD-R18	a 3/8"-24 UNF-LH – i 3/8"-24 UNF-LH	2x 0,5	9.899-790.0
			2x 0,6	9.886-835.0
			2x 0,7	9.899-791.0
VSE 22	WSD-R22	a 9/16"-18 UNF-LH – i 9/16"-18 UNF-LH	2x 0,5	9.899-792.0
			2x 0,6	9.886-836.0
			2x 0,7	9.899-793.0
VSE 28	WSD-R28	a 9/16"-18 UNF-LH – i 9/16"-18 UNF-LH	2x 0,5	9.899-794.0
			2x 0,6	9.886-837.0
			2x 0,7	9.899-795.0

Performance chart forward feed unit															
Typ VSE	Operating pressure [bar]														
	1600	1700	1800	1900	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500
	Flow rate [l/min]														
15 2x 0,5	12	13	13	14	14	14	14	15	15	15	15	15	15	15	16
15 2x 0,6	18	19	19	20	20	21	21	21	21	22	22	22	22	23	23
15 2x 0,7	24	25	26	27	27	28	28	28	29	29	29	30	30	30	31
18 2x 0,5	12	13	13	14	14	14	14	15	15	15	15	15	15	15	16
18 2x 0,6	18	19	19	20	20	21	21	21	21	22	22	22	22	23	23
18 2x 0,7	24	25	26	27	27	28	28	28	29	29	29	30	30	30	31
22 2x 0,5	12	13	13	14	14	14	14	15	15	15	15	15	15	15	16
22 2x 0,6	18	19	19	20	20	21	21	21	21	22	22	22	22	23	23
22 2x 0,7	24	25	26	27	27	28	28	28	29	29	29	30	30	30	31
28 2x 0,5	12	13	13	14	14	14	14	15	15	15	15	15	15	15	16
28 2x 0,6	18	19	19	20	20	21	21	21	21	22	22	22	22	23	23
28 2x 0,7	24	25	26	27	27	28	28	28	29	29	29	30	30	30	31