

PREASSURE WASHER PARTS & ACCESSORIES



www.fussenpump.com

COMPANY PROFILE

About Us

Founded in 2001, Fussen has been consistently dedicated to the research, development, and innovation of high-pressure water jet technology, with more than 20 years of technical expertise in high-pressure plunger pumps.

Through advanced manufacturing processes and strict quality control, Fussen delivers pumps that are high quality, durable, and reliable. Our equipment is widely applied in ship cleaning, industrial paint and rust removal, petrochemicals, and building maintenance, and has gained broad recognition in both domestic and international markets.



Professional



International



Brand-Oriented





Professional

Professional High-Pressure Cleaning Technology

Fussen develops advanced high-pressure pump technology that ensures efficiency, durability, and stability across diverse industrial applications.

The high-pressure pump, as the core component of a high-pressure cleaner, directly determines the overall efficiency and stability of the system. With deep insights into industry requirements, Fussen has developed a comprehensive range of professional cleaning solutions designed to meet diverse needs across different pressure levels, flow rates, and working environments.

Fussen's high-pressure plunger pumps are engineered with strict material selection, high-precision machining, and advanced sealing technology to ensure reliability and performance.

Fussen pumps are equipped with ceramic and alloy steel plungers to ensure reliable performance and durability. The ceramic plungers offer excellent wear and corrosion resistance with a smooth, low-friction surface that extends seal life, while the alloy steel plungers provide exceptional strength and impact resistance for high-pressure applications. Together with high-quality water and oil seals, the system maintains stable operation and long service life. For particularly demanding environments, Fussen also provides customized corrosion-resistant and high-temperature-resistant seal solutions. As a result, the pumps deliver reliable stability, superior efficiency, and extended durability under diverse operating conditions.



International

International Quality Standards and Worldwide Reach

Fussen is committed to delivering products that meet the highest international standards and are shipped to customers worldwide.

The company operates in full compliance with the ISO9001 quality management system, ensuring excellence throughout design, production, testing, and service. All products are CE certified and comply with international safety requirements. With outstanding quality and consistent reliability, Fussen's pumps are widely used across Europe, the Middle East, Southeast Asia, and South America. Through long-term partnerships and a proven record of performance, the company has earned the trust of customers around the globe.



Brand-Oriented

Creating Value with Water

Fussen's brand philosophy is built on the belief that water is not only a resource but also a force for creating value.

The company is committed to delivering high-quality pumps while advancing intelligent, efficient, and eco-friendly cleaning technology. Through continuous investment in research, development, and product optimization, Fussen leads the high-pressure water jet industry forward. Looking to the future, the company will continue to innovate and provide global customers with more professional, reliable, and sustainable cleaning solutions.

25₊

Years of Experience

200₊

Patents

5000 m²

Factory

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SPRAY GUN

Model	/
Pressure	560 bar - 56 MPa - 8100 psi
Flow Rate	60 L/min - 16 GPM
Length	1200 mm
Inlet	1/2" GF
Outlet	1/2" GF
Weight	1020 g



SPRAY GUN

Model	/
Pressure	250 bar - 25 MPa - 3700 psi
Flow Rate	30 L/min - 8 GPM
Length	1200 mm
Inlet	3/8 " GF
Outlet	1/4" GF
Weight	427 g



SPRAY GUN

Model	/
Pressure	350 bar - 35 MPa - 5070 psi
Flow Rate	40 L/min - 10.6 GPM
Length	1200 mm
Inlet	3/8 " GF
Outlet	1/4" GF
Weight	427 g

Balanced Gun 1500



Model	Balanced Gun 1500
Pressure	1500 bar - 150 MPa - 21750 psi
Flow Rate	80 L/min - 21.13 GPM
Length	1975 mm
Inlet	1-1/8 - 12 UNF-Female
Outlet	/
Weight	9000 g

Balanced Gun 2500



Model	Balanced Gun 2500
Pressure	2500 bar - 250 MPa - 36250 psi
Flow Rate	80 L/min - 21.13 GPM
Length	1975 mm
Inlet	1-1/8 - 12 UNF-Female
Outlet	/
Weight	9000 g

Dump Gun 1400



Model	Dump Gun 1400
Pressure	1400 bar - 140 MPa - 20300 psi
Flow Rate	80 L/min - 21.13 GPM
Length	1430 mm
Inlet	ZG 1/4 F
Outlet	G 1/4
Weight	5800 g

Dump Gun 2800



Model	Dump Gun 2800
Pressure	2800 bar - 280 MPa - 40000 psi
Flow Rate	80 L/min - 21.13 GPM
Length	1430 mm
Inlet	ZG 1/4 F
Outlet	G 1/4
Weight	5800 g



FPV 25

Model	FPV 25
Pressure	250 bar - 25 MPa - 3625 psi
Flow Rate	35 L/min - 9.3 GPM
Temperature	90 °C - 194 °F
Inlet	G 1/2
Outlet	G 3/8
Bypass	Inner back
Weight	640 g
Material	Brass



FPV-P 30

Model	FPV-P 30
Pressure	300 bar - 30 MPa - 4350 psi
Flow Rate	30 L/min - 7.9 GPM
Temperature	90 °C - 194 °F
Inlet	G 1/2
Outlet	G 3/8
Bypass	G 1/2
Weight	820 g
Material	Brass



FPV 35

Model	FPV 35
Pressure	350 bar - 35 MPa - 5075 psi
Flow Rate	100 L/min - 26.4 GPM
Temperature	90 °C - 194 °F
Inlet	G 1/2
Outlet	G 3/8
Bypass	G 1/2
Weight	1220 g
Material	Brass



FPV 40

Model	FPV 40
Pressure	400 bar - 40 MPa - 5802 psi
Flow Rate	40 L/min - 10.5 GPM
Temperature	90 - 194 °F
Inlet	G 3/8
Outlet	G 3/8
Bypass	2 x G 3/8
Weight	950 g
Material	Brass



FPV 60

Model	FPV 60
Pressure	600 bar - 60 MPa - 8700 psi
Flow Rate	100 L/min - 26.4 GPM
Temperature	90 °C - 194 °F
Inlet	G 1/2
Outlet	G 1/2
Bypass	G 1/2
Weight	1100 g
Material	Stainless Steel



FPV 1400

Model	FPV 1400
Pressure	1400 bar - 140 MPa - 20300 psi
Flow Rate	40 L/min - 10.5 GPM
Temperature	90 °C - 194 °F
Inlet	G 1/2
Outlet	G 1/2
Bypass	G 1/2
Weight	2000 g
Material	Stainless Steel



FSV 80

Model	FSV 80
Pressure	880 bar - 88 MPa - 12800 psi
Flow Rate	80 L/min - 21 GPM
Temperature	90 °C - 194 °F
Inlet	G 1/2
Outlet	G 1/2
Bypass	G 1/2
Weight	2250 g
Material	Stainless Steel



FSV 56

Model	FSV 56
Pressure	560 bar - 56 MPa - 8120 psi
Flow Rate	80 L/min - 21.1 GPM
Temperature	90 °C - 194 °F
Inlet	G 1/2
Outlet	G 3/8
Bypass	/
Weight	1470 g
Material	Brass

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FRN 250



Model	FRN 250
Pressure	255 bar - 25.5 MPa - 3700 psi
Flow Rate	18 L/min - 4.76 GPM
Temperature	100 °C - 212 °F
Inlet	1/4" GF
Number of nozzles	1
Weight	270 g
Nozzle Insert	Brass

FRN 500



Model	FRN 500
Pressure	500 bar - 50 MPa - 7250 psi
Flow Rate	18 L/min - 4.76 GPM
Temperature	100 °C - 212 °F
Inlet	1/4" GF
Number of nozzles	1
Weight	700 g
Nozzle Insert	Stainless steel

FRN 1000



Model	FRN 1000
Max Pressure	1250 bar - 125 MPa - 18130 psi
Flow Rate	18 L/min - 4.76 GPM
Temperature	100 °C - 212 °F
Inlet	1/4" GF
Number of nozzles	1
Weight	870 g
Nozzle Insert	Stainless steel

FRN 2800



Model	FRN 2800
Pressure	2800 bar - 280 MPa - 40600 psi
Flow Rate	10–18 L/min - 2.64–4.76 GPM
Temperature	100 °C - 212 °F
Inlet	1-1/8 UNF Female
Number of nozzles	4 pcs M10×1.5 Sapphire Nozzles
Weight	1300 g
Nozzle Insert	Stainless steel

FRN 3000



Model	FRN 3000
Pressure	3000 bar - 300 MPa - 43500 psi
Flow Rate	12–42 L/min - 3.2–11.1 GPM
Temperature	100 °C - 212 °F
Inlet	1-1/8-12 UNF Female
Number of nozzles	4 pcs M10×1.5 Sapphire Nozzles
Weight	1450 g
Nozzle Insert	Stainless steel



Model	Sewer Nozzle
Pressure	700-1500 bar / 70-150 MPa / 10150-21750 psi
Flow Rate	30 l/min - 21 GPM
Temperature	150 °C - 302 °F
Inlet	M7, 1/16 NPT, 1/4 LH/RH
Holes No.	4
Weight	100 g
Material	Brass



Model	Sewer Nozzle
Pressure	2100-2800 bar / 210-2800 MPa / 30450-40600 psi
Flow Rate	40 l/min - 21 GPM
Temperature	150 °C - 302 °F
Inlet	3/8 LH, 9/16 LH
Holes No.	4
Weight	80 g
Material	Brass



Model	Sewer Nozzle
Pressure	350 bar - 35 MPa - 5000 psi
Flow Rate	17.1 l/min - 4.52 GPM
Temperature	150 °C - 302 °F
Inlet	1/8" GF
Holes No.	3
Nozzle Size	4
Weight	60 g
Material	Stainless Steel



Model	Sewer Nozzle
Pressure	250 bar - 25 MPa - 3625 psi
Flow Rate	14.4 l/min - 3.8 GPM
Temperature	150 °C - 302 °F
Inlet	1/8" GF
Holes No.	3
Nozzle Size	4
Weight	40 g
Material	Stainless Steel



Model	Sewer Nozzle
Pressure	300 bar - 30 MPa - 4350 psi
Flow Rate	79 l/min - 20.9 GPM
Temperature	160 °C - 320 °F
Inlet	1/2" GF
Holes No.	6-M 6x8
Nozzle Size	20
Weight	80 g
Material	Nickel-Plated Steel



Model	Sewer Nozzle
Pressure	300 bar - 30 MPa - 4350 psi
Flow Rate	79 l/min - 20.9 GPM
Temperature	160 °C - 320°F
Inlet	1/2" GF
Holes No.	6-M 6x8
Nozzle Size	20
Weight	300 g
Material	Nickel-Plated Steel



Model	Sewer Nozzle
Pressure	300 bar - 30 MPa - 4350 psi
Flow Rate	59 l/min - 15.6 GPM
Temperature	160 °C - 320°F
Inlet	1/2" GF
Holes No.	6-M 6x6
Nozzle Size	15
Weight	400 g
Material	Stainless Steel



Model	/
Pressure	250 bar - 25 MPa - 3625 psi
Hose Lenth	6000 mm
Probe Length	500 mm
Inlet	M22x1.5M
Nozzle Size	2
Weight	1950 g



Model	/
Pressure	500 bar - 50 MPa - 7250 psi
Temperature	90°C
Nozzle Size	1/4 NPT 15
Inlet	1/4" GF
Weight	1012 g
Material	Tungsten Carbide



Model	/
Length	580 mm
Hose Diamete	21 mm
Weight	304 g



Model	High Pressure Hose
Pressure	500 bar - 50 MPa - 7250 psi
Hose Lenth	20 m
Temperature	150 °C - 318 °F
Inlet	3/8 " GF
Outlet	3/8 " GF



Model	High Pressure Hose
Pressure	1250 bar - 125 MPa - 18125 psi
Hose Lenth	20 m
Temperature	100 °C - 212 °F
Inlet	3/8 " GF
Outlet	3/8 " GF



Model	Pressure Gauge
Filling	Glycerin
Pressure	1000 bar - 10 MPa - 14500 psi
Connection Type	NPT 1/4
Material	Stainless Steel



Model	Pressure Gauge
Filling	Glycerin
Pressure	2500 bar - 250 MPa - 36250 psi
Connection Type	NPT 1/2
Material	Stainless Steel



Model	Pressure Gauge
Filling	Glycerin
Pressure	400 bar - 40 MPa - 5800 psi
Connection Type	G1/4
Material	Stainless Steel



Model	Filter
Filter Rating	177 Micron - 80 Mesh
Inlet	G 3/4

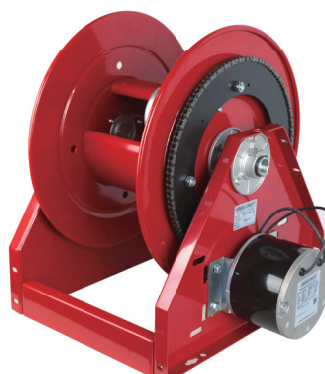


Model	Filter
Filter Rating	48 Micron - 300 Mesh
Inlet	G 3/4



Model	Foot Valve
Pressure	1500 bar - 150 MPa - 21750 psi
Flow Rate	60L/min - 15.9 GPM
Temperature	90 °C - 194 °F
Inlet	M24*1.5
Outlet	M24*1.5
Weight	14 g

HOSE REEL

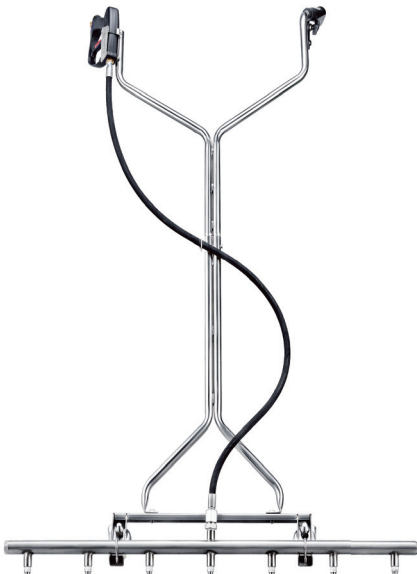




FSC 100

Model	FSC 100
Pressure	100 bar - 10 MPa - 1450 psi
Flow Rate	30 l/min - 7.93 USGpm
Inlet	3/8"
Nozzle Quantity	2

FSC 200



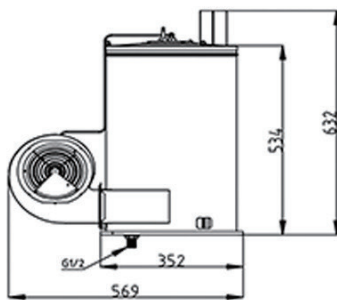
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Pressure	200 bar - 20 MPa - 2900 psi
Flow Rate	30 l/min - 7.93 USGpm
Inlet	3/8"
Nozzle Quantity	2



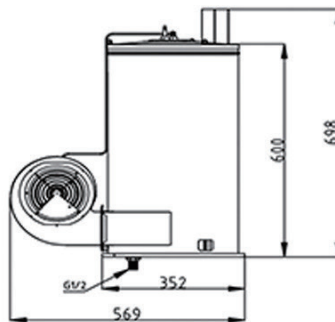
FSC 300

Model	FSC 300
Pressure	350 bar - 35 MPa - 5075 psi
Flow Rate	30 l/min - 7.93 USGpm
Inlet	3/8"
Nozzle Quantity	4

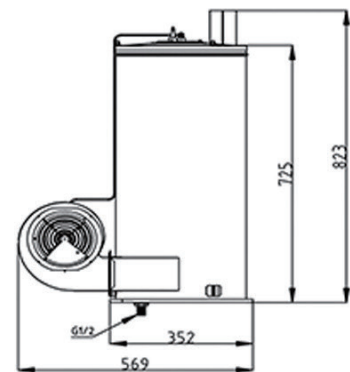
FDB SERIES



FDB 15/28



FDB 18/28



FDB 30/50

Model	FDB 15/28	FDB 18/28	FDB 30/50
Rated Pressure	3600 PSI / 250 BAR	3600 PSI / 250 BAR	7250 PSI / 500 BAR
Flow	4 GPM – 15 L/min	4.75 GPM – 18 L/min	7.93 GPM – 30 L/min
Voltage	220V / 24VDC / 12VDC	220V / 24VDC / 12VDC	220V / 24VDC / 12VDC
Motor	120 W	120 W	120 W
Rotate Speed	2800 RPM	2800 RPM	2800 RPM
Oil Nozzle	1.5 GAL/h	1.5 GAL/h	1.75 GAL/h
Thermal Power	52,000 kcal/h	58,000 kcal/h	68,000 kcal/h
Heating Fuel	Diesel	Diesel	Diesel
Product Size	85 × 62 × 81 cm	85 × 62 × 87.5 cm	85 × 62 × 100 cm



Model	Straight Jet / Rotating Jet / Fan Jet	Size	Weight(kg)
PPE 100/280	1000bar/2800bar/2800bar	S/M, XL, XXXL	2.6
PPE 50/100	500bar/1000bar/1000bar	S/M, XL, XXXL	1.7

Nozzle Size	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	bar Mpa psi
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
	145	290	435	580	725	870	1015	1160	1305	1450	1595	1740	1885	2031	2176	
010	0.7	1.0	1.2	1.4	1.6	1.8	1.9	2.0	2.2	2.3	2.4	2.5	2.6	2.7	2.8	l/min
015	1.1	1.5	1.9	2.2	2.4	2.6	2.9	3.1	3.2	3.4	3.6	3.7	3.9	4.0	4.2	
020	1.4	2.0	2.5	2.9	3.2	3.5	3.8	4.1	4.3	4.6	4.8	5.0	5.2	5.4	5.6	
022	1.6	2.2	2.7	3.2	3.5	3.9	4.2	4.5	4.8	5.0	5.3	5.5	5.7	5.9	6.1	
025	1.8	2.5	3.1	3.6	4.0	4.4	4.8	5.1	5.4	5.7	6.0	6.2	6.5	6.7	7.0	
028	2	2.9	3.5	4	4.5	4.9	5.3	5.7	6.1	6.4	6.7	7	7.3	7.6	7.8	
030	2.2	3.1	3.7	4.3	4.8	5.3	5.7	6.1	6.5	6.8	7.2	7.5	7.8	8.1	8.4	
033	2.4	3.4	4.1	4.8	5.3	5.8	6.3	6.7	7.1	7.5	7.9	8.2	8.6	8.9	9.2	
035	2.5	3.6	4.4	5	5.6	6.2	6.7	7.1	7.6	8	8.4	8.7	9.1	9.4	9.8	
037	2.7	3.8	4.6	5.3	6	6.5	7.1	7.5	8	8.4	8.8	9.2	9.6	10	10.3	
040	2.9	4.1	5	5.8	6.4	7.1	7.6	8.2	8.6	9.1	9.6	10	10.4	10.8	11.2	
042	3	4.3	5.2	6.1	6.8	7.4	8	8.6	9.1	9.6	10	10.5	10.9	11.3	11.7	
045	3.2	4.6	5.6	6.5	7.3	7.9	8.6	9.2	9.7	10.3	10.8	11.2	11.7	12.1	12.6	
050	3.6	5.1	6.2	7.2	8.1	8.8	9.5	10.2	10.8	11.4	12	12.5	13	13.5	14	
053	3.8	5.4	6.6	7.6	8.5	9.4	10.1	10.8	11.5	12.1	12.7	13.2	13.8	14.3	14.8	
055	4	5.6	6.9	7.9	8.9	9.7	10.5	11.2	11.9	12.5	13.1	13.7	14.3	14.8	15.4	
058	4.2	5.9	7.2	8.4	9.3	10.2	11.1	11.8	12.5	13.2	13.9	14.5	15.1	15.6	16.2	
060	4.3	6.1	7.5	8.6	9.7	10.6	11.4	12.2	13	13.7	14.3	15	15.6	16.2	16.8	
065	4.7	6.6	8.1	9.4	10.5	11.5	12.4	13.3	14.1	14.8	15.5	16.2	16.9	17.5	18.1	
070	5	7.1	8.7	10.1	11.3	12.4	13.3	14.3	15.1	16	16.7	17.5	18.2	18.9	19.5	
075	5.4	7.6	9.4	10.8	12.1	13.2	14.3	15.3	16.2	17.1	17.9	18.7	19.5	20.2	20.9	
080	5.8	8.2	10	11.5	12.9	14.1	15.3	16.3	17.3	18.2	19.1	20	20.8	21.6	22.3	
085	6.1	8.7	10.6	12.3	13.7	15	16.2	17.3	18.4	19.4	20.3	21.2	22.1	22.9	23.7	
090	6.5	9.2	11.2	13	14.5	15.9	17.2	18.3	19.5	20.5	21.5	22.5	23.4	24.3	25.1	
10	7.2	10.2	12.5	14.4	16.1	17.7	19.1	20.4	21.6	22.7	23.9	25	26	27	27.9	
11	7.9	11.2	13.7	15.9	17.7	19.4	21	22.4	23.8	25.1	26.3	27.5	28.6	29.7	30.7	
12	8.6	12.2	15	17.3	19.3	21.2	22.9	24.5	25.9	27.2	28.7	30	31.2	32.4	33.5	
15	10.8	15.3	18.7	21.6	24.2	26.5	28.6	30.6	32.4	34.2	35.9	37.5	39	40.5	41.9	
20	14.4	20.4	25	28.8	32.2	35.3	38.1	40.8	43.2	45.6	47.8	49.9	52	53.9	55.8	
25	18	25.5	31.2	36	40.3	44.1	47.7	51	54.1	57	59.8	62.4	65	67.4	69.8	
30	21.6	30.6	37.5	43.2	48.4	53	57.2	61.2	64.9	68.4	71.7	74.9	78	80.9	83.8	
35	25.2	35.7	43.7	50.5	56.4	61.8	66.7	71.4	75.7	79.8	83.7	87.4	91	94.4	97.7	
40	28.8	40.8	49.9	57.7	64.5	70.6	76.3	81.6	86.5	91	95.6	99.9	104	107.9	111.7	
50	30.6	51	62.4	72.1	80.6	88.3	95.4	101.9	108.1	114	119.5	124.8	129.9	134.9	139.6	
60	43.2	61.2	74.9	86.5	96.7	105.9	114.4	122.3	129.7	136.8	143.4	149.8	155.9	161.8	167.5	
70	50.5	71.4	87.4	100.6	112.8	123.6	133.5	142.7	151.4	159.6	167.3	174.8	181.9	188.8	195.4	
80	57.7	81.6	99.9	115.3	128.9	141.3	152.6	163.1	173	182.4	191.3	199.8	207.9	215.8	223.3	
90	64.9	91.7	112.4	129.7	145.1	158.9	171.6	183.5	194.6	205.1	215.2	224.7	233.9	242.7	251.3	

Nozzle Size	160 16 2321	170 17 2466	180 18 2611	190 19 2756	200 20 2901	210 21 3046	220 22 3191	230 23 3336	240 24 3481	250 25 3626	260 26 3771	270 27 3916	276 27.6 4000	280 28 4061	290 29 4206	bar Mpa psi
010	2.9	3.0	3.1	3.1	3.2	3.3	3.4	3.5	3.5	3.6	3.7	3.7	3.8	3.8	3.9	l/min
015	4.3	4.5	4.6	4.7	4.8	5.0	5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.7	5.8	
020	5.8	5.9	6.1	6.3	6.4	6.6	6.8	6.9	7.1	7.2	7.4	7.5	7.6	7.6	7.8	
022	6.3	6.5	6.7	6.9	7.1	7.3	7.4	7.6	7.8	7.9	8.1	8.2	8.3	8.4	8.5	
025	7.2	7.4	7.6	7.9	8.1	8.3	8.5	8.6	8.8	9.0	9.2	9.4	9.5	9.5	9.7	
028	8.1	8.3	8.6	8.8	9	9.2	9.4	9.7	9.9	10.1	10.3	10.5	10.6	10.7	10.9	
030	8.6	8.9	9.2	9.4	9.7	9.9	10.1	10.4	10.6	10.8	11	11.2	11.4	11.4	11.6	
033	9.5	9.8	10.1	10.4	10.6	10.9	11.2	11.4	11.7	11.9	12.1	12.4	12.5	12.6	12.8	
035	10.1	10.4	10.7	11	11.3	11.6	11.8	12.1	12.4	12.6	12.9	13.1	13.2	13.3	13.6	
037	10.7	11	11.3	11.6	11.9	12.2	12.5	12.8	13.1	13.3	13.6	13.8	14	14.1	14.4	
040	11.5	11.9	12.2	12.6	12.9	13.2	13.5	13.8	14.1	14.4	14.7	15	15.1	15.3	15.6	
042	12.1	12.5	12.8	13.2	13.5	13.9	14.2	14.5	14.8	15.1	15.4	15.7	15.9	16	16.3	
045	13	13.4	13.8	14.1	14.5	14.9	15.2	15.6	15.9	16.2	16.5	16.9	17	17.2	17.5	
050	14.4	14.9	15.3	15.7	16.1	16.5	16.9	17.3	17.7	18	18.4	18.7	18.9	19.1	19.4	
053	15.3	15.8	16.2	16.7	17.1	17.5	17.9	18.3	18.7	19.1	19.5	19.9	20.1	20.2	20.6	
055	15.9	16.3	16.8	17.3	17.7	18.2	18.6	19	19.4	19.8	20.2	20.6	20.8	21	21.3	
058	16.7	17.2	17.7	18.2	18.7	19.2	19.6	20.1	20.5	21	21.3	21.7	22	22.2	22.5	
060	17.3	17.8	18.3	18.9	19.3	19.8	20.3	20.7	21.2	21.6	22.1	22.5	22.7	22.9	23.3	
065	18.7	19.3	19.9	20.4	21	21.5	22	22.5	23	23.4	23.9	24.3	24.6	24.8	25.2	
070	20.2	20.8	21.4	22	22.6	23.1	23.7	24.2	24.7	25.2	25.7	26.2	26.5	26.7	27.2	
075	21.6	22.3	22.9	23.5	24.2	24.8	25.4	25.9	26.5	27	27.6	28.1	28.4	28.6	29.1	
080	23.1	23.8	24.5	25.1	25.8	26.4	27	27.7	28.3	28.8	29.4	30	30.3	30.5	31.1	
085	24.5	25.3	26	26.7	27.4	28.1	28.7	29.4	30	30.6	31.2	31.8	32.2	32.4	33	
090	25.9	26.7	27.5	28.3	29	29.7	30.4	31.1	31.8	32.4	33.1	33.7	34.1	34.3	34.9	
10	28.8	29.7	30.6	31.4	32.2	33	33.8	34.6	35.3	36	36.8	37.5	37.9	38.1	38.8	
11	31.7	32.7	33.6	34.6	35.5	36.3	37.2	38	38.8	39.6	40.4	41.2	41.6	42	42.7	
12	34.6	35.7	36.7	37.7	38.7	39.6	40.6	41.5	42.4	43.3	44.1	44.9	45.4	45.8	46.6	
15	43.2	44.6	45.9	47.1	48.4	49.5	50.7	51.9	53	54.1	55.1	56.2	56.8	57.2	58.2	
20	57.7	59.4	61.2	62.8	64.5	66.1	67.6	69.1	70.6	72.1	73.5	74.9	75.7	76.3	77.6	
25	72.1	74.3	76.5	78.6	80.6	82.6	84.5	86.4	88.3	90.1	91.9	93.6	94.6	95.4	97	
30	86.5	89.2	91.7	94.3	96.7	99.1	101.4	103.7	105.9	108.1	110.3	112.4	113.6	114.4	116.5	
35	100.9	104	107	110.1	112.8	115.6	118.3	121	123.6	126.1	128.9	131.1	132.5	133.5	135.9	
40	115.3	118.9	122.3	125.7	128.9	132.1	135.3	138.3	141.3	143.7	147	149.8	151.4	152.6	155.3	
50	144.2	148.6	152.9	157.1	161.2	165.2	169	172.8	176.6	180.2	183.8	187.3	189.3	190.7	194.1	
60	173	178.3	183.5	188.5	193.4	198.2	202.9	207.4	211.9	215.6	220.5	224.7	227.1	228.9	232.9	
70	201.8	208	214.1	219.9	225.7	231.2	236.7	242	247.2	252.3	257.3	262.2	265	267	271.7	
80	230.7	237.8	244.7	251.4	257.9	264.3	270.5	276.6	282.5	288.3	294	299.6	302.8	305.1	310.5	
90	259.5	267.5	275.2	282.8	290.1	297.3	304.3	311.1	317.8	324.4	330.8	337.1	340.7	343.3	349.4	

Nozzle Size	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	bar Mpa psi
	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	
	4351	4496	4641	4786	4931	5076	5221	5366	5511	5656	5802	5947	6092	6237	6382	
010	3.9	4.0	4.1	4.1	4.2	4.3	4.4	4.4	4.5	4.6	4.6	4.7	4.7	4.8	4.8	l/min
015	5.9	6.0	6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7.0	7.1	7.2	7.2	
020	7.9	8.0	8.2	8.3	8.4	8.5	8.6	8.8	8.9	9.0	9.1	9.2	9.3	9.5	9.6	
022	8.7	8.8	9.0	9.1	9.2	9.4	9.5	9.6	9.8	9.9	10.0	10.2	10.3	10.4	10.5	
025	9.9	10.0	10.2	10.4	10.5	10.7	10.8	11.0	11.1	11.3	11.4	11.5	11.7	11.8	12.0	
028	11.1	11.2	11.4	11.6	11.8	11.9	12.1	12.3	12.4	12.6	12.8	12.9	13.1	13.2	13.4	
030	11.8	12	12.2	12.4	12.6	12.8	13	13.2	13.3	13.5	13.7	13.8	14	14.2	14.3	
033	13	13.2	13.5	13.7	13.9	14.1	14.3	14.5	14.7	14.9	15	15.2	15.4	15.6	15.8	
035	13.8	14	14.3	14.5	14.7	14.9	15.1	15.3	15.6	15.8	16	16.2	16.3	16.5	16.7	
037	14.6	14.8	15.1	15.3	15.6	15.8	16	16.2	16.4	16.4	16.9	17.1	17.3	17.5	17.7	
040	15.8	16.1	16.3	16.6	16.8	17.1	17.3	17.5	17.8	18	18.2	18.5	18.7	18.9	19.1	
042	16.6	16.9	17.1	17.4	17.7	17.9	18.2	18.4	18.7	18.9	19.1	19.4	19.6	19.9	20.1	
045	17.8	18.3	18.6	18.9	19.2	19.5	19.7	20	20.3	20.5	20.8	21	21.2	21.5	21.7	
050	19.7	20.1	20.4	20.7	21	21.3	21.6	21.9	22.2	22.5	22.8	23.1	23.4	23.6	23.9	
053	20.9	21.3	21.6	21.9	22.3	22.6	22.9	23.2	23.6	23.9	24.2	24.5	24.8	25.1	25.3	
055	21.7	22.1	22.4	22.8	23.1	23.5	23.8	24.1	24.4	24.8	25.1	25.4	25.7	26	26.3	
058	22.9	23.3	23.6	24	24.4	24.7	25.1	25.4	25.8	26.1	26.4	26.8	27.1	27.4	27.7	
060	23.7	24.1	24.5	24.8	25.2	25.6	25.9	26.3	26.7	27	27.4	27.7	28	28.4	28.7	
065	25.7	26.1	26.5	26.9	27.3	27.7	28.1	28.5	28.9	29.3	29.6	30	30.4	30.7	31.1	
070	27.6	28.1	28.5	29	29.4	29.9	30.3	30.8	31.1	31.5	31.9	32.3	32.7	33.1	33.5	
075	29.6	30.1	30.6	31.1	31.5	32	32.4	32.9	33.3	33.8	34.2	34.6	35	35.5	35.9	
080	31.6	32.1	32.6	33.1	33.6	34.1	34.6	35.1	35.6	36	36.5	36.9	37.4	37.8	38.3	
085	33.6	34.1	34.7	35.2	35.7	36.2	36.8	37.3	37.8	38.3	38.8	39.3	39.7	40.2	40.6	
090	35.5	36.1	36.7	37.3	37.8	38.4	38.9	39.5	40	40.5	41	41.5	42	42.5	43	
10	39.5	40.1	40.8	41.4	42	42.6	43.2	43.8	44.4	45	45.6	46.2	46.7	47.3	47.8	
11	43.4	44.1	44.9	45.5	46.2	46.9	47.6	48.2	48.9	49.5	50.1	50.8	51.4	52	52.6	
12	47.4	48.2	48.9	49.7	50.4	51.2	51.9	52.6	53.3	54	54.7	55.4	56.1	56.7	57.4	
15	59.2	60.2	61.2	62.1	63	64	64.9	65.8	66.7	67.5	68.4	69.2	70.1	70.9	71.7	
20	79	80.3	81.6	82.4	84.1	85.3	86.5	87.7	88.9	90.2	91.2	92.3	93.4	94.5	95.6	
25	98.7	100.3	101.9	103.5	105.1	106.6	108.1	109.6	111.1	112.5	114	115.4	116.8	118.2	119.5	
30	118.4	120.4	122.3	124.2	126.1	127.9	129.7	131.5	133.3	135	136.8	138.5	140.1	141.8	143.4	
35	138.2	140.5	142.7	144.9	147.1	149.3	151.4	153.5	155.5	157.6	159.6	161.5	163.5	165.4	167.3	
40	157.9	160.5	163.1	165.6	168.1	170.6	173.1	175.4	177.7	180.1	182.4	184.6	186.9	189.1	191.3	
50	197.4	200.7	203.9	207	210.2	213.2	216.2	219.2	222.2	225.1	227.9	230.8	233.6	236.3	239.1	
60	236.9	240.8	244.7	248.4	252.2	255.9	259.5	263.1	266.6	270.1	273.5	276.9	280.3	283.6	286.9	
70	276.4	280.9	285.4	289.9	294.2	298.5	302.7	306.9	311	315.1	319.1	323.1	327	330.9	334.7	
80	315.8	321.1	326.2	331.3	336.2	341.2	346	350.8	355.5	360.1	364.7	369.2	373.7	378.1	382.5	
90	355.3	361.2	367	372.7	378.3	383.8	389.2	394.6	399.9	405.1	410.2	415.4	420.4	425.4	430.3	

Nozzle Size	450 45 6527	460 46 6672	470 47 6817	480 48 6962	490 49 7107	500 50 7252	510 51 7397	520 52 7542	530 53 7687	540 54 7832	550 55 7977	560 56 8122	570 57 8267	580 58 8412	590 59 8557	bar Mpa psi
010	4.8	4.9	4.9	4.9	5.0	5.1	5.1	5.2	5.2	5.3	5.3	5.4	5.4	5.5	5.5	l/min
015	7.3	7.3	7.4	7.5	7.6	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.2	8.2	8.3	
020	9.7	9.8	9.9	10.1	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9	11.0	11.1	
022	10.6	10.8	10.9	11.0	11.1	11.2	11.3	11.4	11.5	11.7	11.8	11.9	12.0	12.1	12.2	
025	12.1	12.2	12.4	12.5	12.6	12.7	12.9	13.0	13.1	13.2	13.4	13.5	13.6	13.7	13.8	
028	13.5	13.7	13.8	14	14.1	14.3	14.4	14.6	14.7	14.8	15	15.1	15.2	15.4	15.5	
030	14.5	14.7	14.8	15	15.1	15.3	15.4	15.6	15.7	15.9	16	16.2	16.3	16.5	16.6	
033	16	16.1	16.3	16.5	16.7	16.8	17	17.2	17.3	17.5	17.6	17.8	18	18.1	18.3	
035	16.9	17.1	17.3	17.5	17.7	17.8	18	18.2	18.4	18.5	18.7	18.9	19	19.2	19.4	
037	17.9	18.1	18.3	18.5	18.7	18.9	19	19.2	19.4	19.6	19.8	20	20.1	20.3	20.5	
040	19.3	19.6	19.8	20	20.2	20.4	20.6	20.8	21	21.2	21.4	21.6	21.8	22	22.1	
042	20.3	20.5	20.8	21	21.2	21.4	21.6	21.8	22	22.2	22.5	22.7	22.9	23.1	23.3	
045	21.8	22	22.2	22.5	22.7	22.9	23.2	23.4	23.6	23.8	24.1	24.3	24.5	24.7	24.9	
050	24.2	24.4	24.7	25	25.2	25.5	25.7	26	26.2	26.5	26.7	27	27.2	27.4	27.7	
053	25.6	25.9	26.2	26.5	26.7	27	27.3	27.5	27.8	28.1	28.3	28.6	28.8	29.1	29.3	
055	26.6	26.9	27.2	27.5	27.8	28	28.3	28.6	28.9	29.1	29.4	29.7	29.9	30.2	30.5	
058	28	28.4	28.7	29	29.3	29.6	29.9	30.1	30.4	30.7	31	31.3	31.6	31.8	32.1	
060	29	29.3	29.6	30	30.3	30.6	30.9	31.2	31.5	31.8	32.1	32.4	32.7	32.9	33.2	
065	31.4	31.8	32.1	32.5	32.8	33.1	33.5	33.8	34.1	34.4	34.7	35.1	35.4	35.7	36	
070	33.8	34.2	34.6	35	35.3	35.7	36	36.4	36.7	37.1	37.4	37.8	38.1	38.4	38.8	
075	36.3	36.7	37.1	37.5	37.8	38.2	38.6	39	39.4	39.7	40.1	40.5	40.8	41.2	41.5	
080	38.7	39.1	39.5	40	40.4	40.8	41.2	41.6	42	42.4	42.8	43.2	43.5	43.9	44.3	
085	41.1	41.6	42	42.4	42.9	43.3	43.8	44.2	44.6	45	45.4	45.8	46.3	46.7	47.1	
090	43.5	44	44.5	44.9	45.4	45.9	46.3	46.8	47.2	47.7	48.1	48.5	49	49.4	49.8	
10	48.4	48.9	49.4	49.9	50.5	51	51.5	52	52.5	53	53.5	53.9	54.4	54.9	55.4	
11	53.2	53.8	54.4	54.9	55.5	56.1	56.6	57.2	57.7	58.3	58.8	59.3	59.9	60.4	60.9	
12	58	58.7	59.3	59.9	60.5	61.2	61.8	62.4	63	63.6	64.1	64.7	65.3	65.9	66.4	
15	72.5	73.3	74.1	74.9	75.7	76.5	77.2	78	78.7	79.5	80.2	80.9	81.6	82.3	83.1	
20	96.7	97.8	98.8	99.9	101	102	103	104	105	106	107	108	109.2	110.7	112	
25	120.9	122.2	123.5	124.8	126.1	127.4	128.7	129.9	131.2	132.4	133.6	134.9	136.1	137.2	138.4	
30	145.1	146.7	148.2	149.8	151.4	152.9	154.4	155.9	157.4	158.9	160.4	161.8	163.3	164.7	166.1	
35	169.2	171.1	173	174.8	176.6	178.4	180.2	181.9	183.7	185.4	187.1	188.8	190.5	192.1	193.8	
40	193.4	195.6	197.7	199.7	201.8	203.9	205.9	207.9	209.9	211.9	213.8	215.8	217.7	219.6	221.5	
50	241.8	244.4	247.1	249.7	252.3	254.8	257.4	259.9	262.4	264.8	267.3	269.7	272.1	274.5	276.8	
60	290.1	292.9	295.6	298.3	301	302.7	305.8	308.9	311.9	314.9	317.8	320.7	323.6	326.5	329.4	
70	338.5	342.2	345.9	349.5	353.2	356.8	360.3	363.9	367.3	370.8	374.2	377.6	380.9	384.3	387.6	
80	386.8	391.1	395.3	399.5	403.7	407.8	411.8	415.8	419.8	423.8	427.7	431.5	435.4	439.2	442.9	
90	435.2	440	444.7	449.5	454.1	458.7	463.3	467.8	472.3	476.7	481.1	485.5	489.7	494.1	498.3	

Nozzle Size	600 60 8702	610 61 8847	620 62 8992	630 63 9137	640 64 9282	650 65 9427	660 66 9573	670 67 9718	680 68 9863	690 69 10008	700 70 10153	710 71 10298	720 72 10443	730 73 10588	740 74 10733	bar Mpa psi
010	5.6	5.6	5.7	5.7	5.8	5.8	5.9	5.9	5.9	6.0	6.0	6.1	6.1	6.2	6.2	l/min
015	8.4	8.4	8.5	8.6	8.6	8.7	8.8	8.9	8.9	9.0	9.0	9.1	9.2	9.2	9.3	
020	11.2	11.3	11.4	11.4	11.5	11.6	11.7	11.8	11.9	12.0	12.1	12.1	12.2	12.3	12.4	
022	12.3	12.4	12.5	12.6	12.7	12.8	12.9	13.0	13.1	13.2	13.3	13.4	13.5	13.5	13.6	
025	14.0	14.1	14.2	14.3	14.4	14.5	14.6	14.8	14.9	15.0	15.1	15.2	15.3	15.4	15.5	
028	15.6	15.8	15.9	16	16.1	16.3	16.4	16.5	16.6	16.8	16.9	17	17.1	17.2	17.4	
030	16.8	16.9	17	17.2	17.3	17.4	17.6	17.7	17.8	18	18.1	18.2	18.3	18.5	18.6	
033	18.4	18.6	18.7	18.8	19	19.2	19.3	19.5	19.6	19.8	19.9	20	20.2	20.3	20.5	
035	19.5	19.7	19.9	20	20.2	20.3	20.5	20.7	20.8	21	21.1	21.3	21.4	21.6	21.7	
037	20.7	20.8	21	21.2	21.3	21.5	21.7	21.8	22	22.2	22.3	22.5	22.6	22.8	22.9	
040	22.3	22.5	22.7	22.9	23.1	23.2	23.4	23.6	23.8	24	24.1	24.3	24.5	24.6	24.8	
042	23.5	23.6	23.8	24	24.2	24.4	24.6	24.8	25	25.1	25.3	25.5	25.7	25.9	26	
045	25.1	25.3	25.5	25.7	25.9	26.2	26.4	26.6	26.7	26.9	27.1	27.3	27.5	27.7	27.9	
050	27.9	28.1	28.4	28.6	28.8	29.1	29.3	29.5	29.7	29.9	30.2	30.4	30.6	30.8	31	
053	29.6	29.8	30.1	30.3	30.6	30.8	31	31.3	31.5	31.7	32	32.2	32.4	32.6	32.9	
055	30.7	31	31.2	31.5	31.7	32	32.2	32.5	32.7	32.9	33.2	33.3	33.4	33.6	33.9	
058	32.4	32.7	32.9	33.2	33.4	33.7	33.9	34.2	34.5	34.7	35	35.2	35.5	35.7	36	
060	33.5	33.8	34.1	34.3	34.6	34.9	35.1	35.4	35.7	35.9	36.2	36.4	36.7	37	37.2	
065	36.3	36.6	36.9	37.2	37.5	37.8	38.1	38.4	38.6	38.9	39.2	39.5	39.8	40	40.3	
070	39.1	39.4	39.7	40	40.4	40.7	41	41.3	41.6	41.9	42.2	42.5	42.8	43.1	43.4	
075	41.9	42.2	42.6	42.9	43.2	43.6	43.9	44.3	44.6	44.9	45.2	45.6	45.9	46.2	46.5	
080	44.7	45	45.4	45.8	46.1	46.5	46.8	47.2	47.6	47.9	48.2	48.6	48.9	49.3	49.6	
085	47.5	47.9	48.2	48.6	49	49.4	49.8	50.2	50.5	50.9	51.3	51.6	52	52.3	52.7	
090	50.3	50.7	51.1	51.5	51.9	52.3	52.7	53.1	53.5	53.9	54.3	54.7	55	55.4	55.8	
10	55.8	56.3	56.8	57.2	57.7	58.1	58.6	59	59.4	59.9	60.3	60.7	61.2	61.6	62	
11	61.4	61.9	62.4	62.9	63.4	63.9	64.4	64.9	65.4	65.9	66.3	66.8	67.3	67.7	68.2	
12	67	67.6	68.1	68.7	69.2	69.7	70.3	70.8	71.3	71.9	72.4	72.9	73.4	73.9	74.4	
15	83.8	84.4	85.1	85.8	86.5	87.2	87.8	88.5	89.2	89.8	90.5	91.1	91.7	92.4	93	
20	111.7	112.6	113.5	114.4	115.3	116.2	117.1	118	118.9	119.8	120.6	121.5	122.3	123.2	124	
25	139.6	140.7	141.9	143	144.2	145.3	146.4	147.5	148.6	149.7	150.8	151.8	152.9	154	155	
30	167.5	168.9	170.3	171.6	173	174.3	175.7	177	178.3	179.6	180.9	182.2	183.5	184.8	186	
35	195.4	197	198.6	200.2	201.8	203.4	205	206.5	208	209.6	211.1	212.6	214.1	215.6	217	
40	223.3	225.2	227	228.9	230.7	232.5	234.2	236	237.8	239.5	241.2	242.9	244.7	246.3	248	
50	279.2	281.5	283.8	286.1	288.3	290.6	292.8	295	297.2	299.4	301.5	303.7	305.8	307.9	310	
60	335	337.8	340.5	343.3	346	348.7	351.4	354	356.6	359.3	361.8	364.4	367	369.5	372	
70	390.8	394.1	397.3	400.5	403.7	406.8	409.9	413	416.1	419.1	422.2	425.2	428.1	431.1	434	
80	446.7	450.4	454.1	457.7	461.3	464.9	468.5	472	475.5	479	482.5	485.9	489.3	492.7	496.1	
90	502.5	506.7	510.8	514.9	519	523	527	531	535	538.9	542.8	546.6	550.5	554.3	558.1	

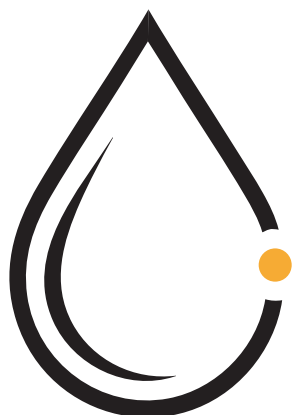
Nozzle Size	750	760	770	780	790	800	810	820	830	840	850	860	870	880	890	900	bar
	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	Mpa
	10878	11023	11168	11313	11458	11603	11748	11893	12038	12183	12328	12473	12618	12763	12908	13053	psi
010	6.2	6.3	6.3	6.4	6.4	6.4	6.5	6.5	6.6	6.6	6.6	6.7	6.7	6.8	6.8	6.8	l/min
015	9.4	9.4	9.5	9.6	9.7	9.7	9.8	9.9	9.9	10.0	10.0	10.1	10.2	10.2	10.3	10.3	
020	12.5	12.6	12.7	12.7	12.8	12.9	13.0	13.1	13.1	13.2	13.3	13.4	13.5	13.5	13.6	13.7	
022	13.7	13.8	13.9	14.0	14.1	14.2	14.3	14.4	14.4	14.5	14.6	14.7	14.8	14.9	15.0	15.0	
025	15.6	15.7	15.8	15.9	16.0	16.1	16.2	16.3	16.4	16.5	16.6	16.7	16.8	16.9	17.0	17.1	
028	17.5	17.6	17.7	17.8	17.9	18.1	18.2	18.3	18.4	18.5	18.6	18.7	18.8	18.9	19	19.1	
030	18.7	18.9	19	19.1	19.2	19.3	19.5	19.6	19.7	19.8	19.9	20.1	20.2	20.3	20.4	20.5	
033	20.6	20.7	20.9	21	21.1	21.3	21.4	21.5	21.7	21.8	21.9	22.1	22.2	22.3	22.4	22.6	
035	21.8	22	22.1	22.3	22.4	22.6	22.7	22.8	23	23.1	23.3	23.4	23.5	23.7	23.8	23.9	
037	23.1	23.3	23.4	23.6	23.7	23.9	24	24.2	24.3	24.4	24.6	24.7	24.9	25	25.2	25.3	
040	25	25.1	25.3	25.5	25.6	25.8	25.9	26.1	26.3	26.4	26.6	26.7	26.9	27	27.2	27.4	
042	26.2	26.4	26.6	26.7	26.9	27.1	27.2	27.4	27.6	27.7	27.9	28.1	28.2	28.4	28.6	28.7	
045	28.1	28.3	28.5	28.6	28.8	29	29.2	29.4	29.6	29.7	29.9	30.1	30.3	30.4	30.6	30.8	
050	31.2	31.4	31.6	31.8	32	32.2	32.4	32.6	32.8	33	33.2	33.4	33.6	33.8	34	34.2	
053	33.1	33.3	33.5	33.7	34	34.2	34.4	34.6	34.8	35	35.2	35.4	35.6	35.8	36	36.2	
055	34.3	34.6	34.8	35	35.2	35.5	35.7	35.9	36.1	36.3	36.6	36.8	37	37.2	37.4	37.6	
058	36.2	36.4	36.7	36.9	37.2	37.4	37.7	37.9	38.1	38.3	38.5	38.8	39	39.2	39.4	39.7	
060	37.5	37.7	38	38.2	38.4	38.7	38.9	39.2	39.4	39.6	39.9	40.1	40.3	40.6	40.8	41	
065	40.6	40.8	41.1	41.4	41.6	41.9	42.2	42.4	42.7	42.9	43.2	43.4	43.7	44	44.2	44.4	
070	43.7	44	44.3	44.6	45.1	45.4	45.7	46	46.2	46.5	46.9	47.1	47.4	47.6	47.9	48.2	
075	46.8	47.1	47.4	47.7	48.1	48.4	48.7	49	49.3	49.6	49.8	50.1	50.4	50.7	51	51.3	
080	49.9	50.3	50.6	50.9	51.3	51.6	51.9	52.2	52.5	52.9	53.2	53.5	53.8	54.1	54.4	54.7	
085	53.1	53.4	53.8	54.1	54.5	54.8	55.1	55.5	55.8	56.2	56.5	56.8	57.1	57.5	57.8	58.1	
090	56.2	56.6	56.9	57.3	57.7	58	58.4	58.7	58.9	59.3	59.6	60.2	60.5	60.9	61.2	61.5	
10	62.4	62.8	63.6	63.7	64.1	64.5	64.9	65.3	65.7	66.1	66.5	66.8	67.2	67.6	68	68.4	
11	68.7	69.1	69.6	70	70.5	70.9	71.4	71.8	72.2	72.7	73.1	73.5	74	74.4	74.8	75.2	
12	74.9	75.4	75.9	76.4	76.9	77.4	77.8	78.3	78.9	79.3	79.7	80.2	80.7	81.1	81.6	82.1	
15	93.6	94.3	94.9	95.5	96.1	96.7	97.3	97.9	98.5	99.1	99.7	100.3	100.8	101.4	102	102.6	
20	124.8	125.7	126.5	127.3	128.1	128.9	129.8	130.6	131.3	132	132.7	133.5	134.2	135	135.7	136.3	
25	156.1	157.1	158.1	159.2	160.2	161.2	162.2	163.2	164.2	165.2	166.1	167.1	168.1	169	170.1	171	
30	187.3	188.5	189.8	191	192.2	193.4	194.6	195.8	197	198.2	199.4	200.5	201.7	202.9	204	205.1	
35	218.5	219.9	221.4	222.8	224.2	225.7	227.1	228.5	229.8	231.2	232.6	234	235.3	236.7	238	239.3	
40	249.7	251.4	253	254.6	256.3	257.9	259.5	261.1	262.7	264.3	265.8	267.4	268.9	270.5	272	273.5	
50	312.1	314.2	316.3	318.3	320.3	322.4	324.4	326.4	328.3	330.2	332.3	334.2	336.2	338.1	340	341.9	
60	374.5	377	379.5	382	384.4	386.9	389.2	391.4	393.6	395.8	398	400.1	402.4	404.5	406.7	408.9	
70	437	439.9	442.8	445.7	448.5	451.3	454.1	456.9	459.7	462.4	465.2	467.9	470.6	473.3	476	478.7	
80	499.4	502.7	506	509.3	512.5	515.8	519	522.2	525.4	528.5	531.6	534.8	537.9	540.9	544	547.1	
90	561.8	565.6	569.3	572.9	576.5	580.2	583.9	587.5	591	594.6	598.1	601.6	605.1	608.6	612	615.4	



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