

J-Turbo Key Plus Dripper



Features & Benefits



Take Apart, Turbulent Flow, Online Emitter

Offers ease in maintenance and inspection.



Barbed Inlet with Narrow Cross Shaped Inlet Filter

Barbed inlet suitable to connect directly on 4 mm extension tube or can be punched on polytube. Cross shaped inlet filters prevents entrance of most of the impurities.



Extended Outlet

For connection of 4 mm ID extension tubing for right placement of water with multi-outlet connection



Optional Anti-bug Cap.

Prevents entry of ants/bugs inside the emitter.



Color Coded Cap

Color coded cap facilitates easy identification of emitter flow rate.



Proven Performance

Wide cross sectional area makes the dripper clog resistant.

J-Turbo Key Plus Dripper

Additional Features

- **Quality Comes First** : Each batch passes through stringent quality tests to ensure efficient and trouble free performance for long period. Conforming to Indian Standard IS 13487 and International Standard ISO 9260
- **No Environmental and Chemical Effects:** UV stabilized does not have any environmental effects. Resistant to chemicals used in agriculture.

Applications

- For orchards and vineyards, greenhouses, nurseries, landscape etc.
- Recommended to use in problematic water condition where opening and cleaning of the emitter is needed.

Operating Specifications

- Nominal operating pressure 1 kg/cm². Can be used for other pressure ratings (lower/higher) after consulting company representative and with due care for filtration.
- Always use 'Turbo Key Spanner' to open and close the dripper. Close the dripper properly.
- Filtration recommendation 130 micron or less. Actual quality of filtration can be decided by quality of source water.
- Please refer to our "Maintenance Manual" for more details.

Specifications

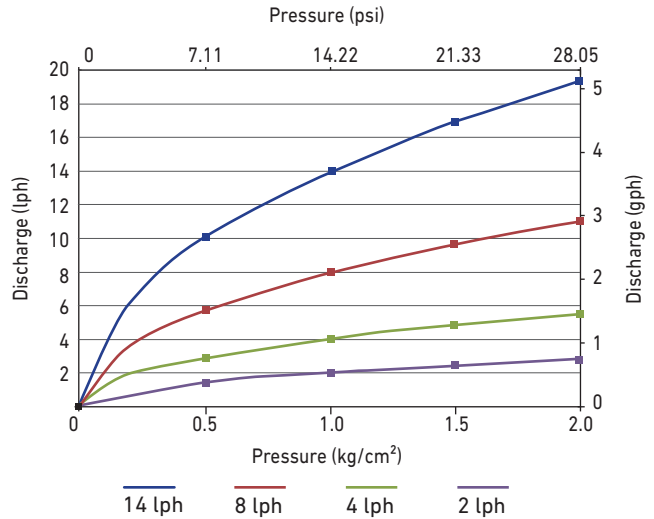
*Discharge		Color of cap & insert	Emitter exponent (x)	Flow coefficient (k)	Coeff. of mfg. variation, CVm
lph	gph				
2.0	0.53	Yellow	0.48	2.0	3
4.0	1.06	Black	0.48	4.0	3
8.0	2.11	Blue	0.48	8.0	3
14.0	3.70	Green	0.48	14.0	3

* At an operating pressure of 1kg/cm² (14.2 psi).

Flow equation $q = kH^x$, q = discharge, lph, H = Pressure Head, kg/cm², k = flow coefficient, x = Emitter exponent.

- Recommended punch size - 2.9 mm

Performance Graph



Note: Tested under standard test conditions.

Ordering Specifications

JTKP	XX
	Discharge (lph)
	02
	04
	08
	14

Example: JTKP02 - This code represents J-Turbo Key Plus™ Dripper having 2 lph discharge..



J-Turbo Key Plus™



12 mm tube (10.2 mm ID tube) at 1.0 kg/cm²

Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
2 lph														
10 % discharge variation	2	26.6	39.6	45.5	50.4	57.0	62.1	65.0	69.6	75.0	79.2	80.0	85.0	87.0
	1	28.2	43.6	51.0	57.6	66.8	74.7	79.0	86.4	97.5	106.2	112.0	122.5	132.0
	0	29.6	47.6	57.0	64.8	77.3	88.2	94.0	106.8	123.0	138.6	148.0	172.5	195.0
	-1	31.2	51.6	62.5	72.0	87.0	100.8	109.0	126.0	148.5	171.0	186.0	222.5	258.0
	-2	32.6	55.2	68.0	79.2	96.8	113.4	123.0	144.0	172.5	199.8	218.0	265.0	309.0
7.5 % discharge variation	2	23.4	34.4	39.5	43.2	48.0	52.2	54.0	57.6	61.5	63.0	64.0	67.5	69.0
	1	25.2	38.8	45.0	51.0	58.5	64.8	69.0	75.6	84.0	90.0	94.0	102.5	111.0
	0	26.8	42.8	51.5	58.8	69.8	79.2	85.0	96.0	111.0	124.2	134.0	155.0	174.0
	-1	28.4	47.2	57.5	66.6	81.0	93.6	102.0	117.6	139.5	160.2	174.0	210.0	243.0
	-2	30.2	51.2	63.5	74.4	91.5	107.1	117.0	136.8	163.5	190.8	210.0	255.0	299.0
4 lph														
10 % discharge variation	2	17.6	26.8	31.5	35.4	40.5	45.0	47.0	51.6	57.0	61.2	64.0	70.0	75.0
	1	18.2	28.4	34.0	38.4	45.0	50.4	53.0	60.0	67.5	73.8	78.0	87.5	96.0
	0	18.8	30.0	36.0	41.4	48.8	55.8	60.0	67.2	78.0	88.2	94.0	110.0	123.0
	-1	19.4	31.6	38.5	44.4	53.3	61.2	66.0	75.6	88.5	100.8	110.0	130.0	150.0
	-2	20.0	33.2	40.5	46.8	57.0	66.6	72.0	82.8	99.0	113.4	124.0	147.5	171.0
7.5 % discharge variation	2	15.6	24.0	27.5	30.6	35.3	38.7	41.0	44.4	48.0	52.2	54.0	57.5	60.0
	1	16.4	25.6	30.0	34.2	39.8	44.1	47.0	52.8	58.5	64.8	68.0	77.5	84.0
	0	17.0	27.2	32.5	37.2	44.3	50.4	54.0	61.2	70.5	79.2	84.0	97.5	111.0
	-1	17.6	28.8	35.0	40.2	48.8	55.8	61.0	69.6	81.0	93.6	102.0	120.0	138.0
	-2	18.4	30.8	37.5	43.8	53.3	62.1	67.0	78.0	93.0	106.2	118.0	140.0	165.0
8 lph														
10 % discharge variation	2	11.4	18.0	21.0	23.4	27.8	30.6	33.0	36.0	40.5	45.0	48.0	52.5	57.0
	1	11.6	18.4	22.0	24.6	29.3	33.3	35.0	39.6	45.0	50.4	54.0	60.0	66.0
	0	12.0	19.2	23.0	25.8	30.8	35.1	38.0	42.0	49.5	55.8	60.0	67.5	78.0
	-1	12.2	19.6	23.5	27.0	32.3	37.8	40.0	45.6	54.0	61.2	66.0	77.5	87.0
	-2	12.4	20.4	24.5	28.2	34.5	39.6	43.0	49.2	57.0	66.6	72.0	85.0	99.0
7.5 % discharge variation	2	10.2	16.0	18.5	21.0	24.0	27.0	29.0	31.2	36.0	37.8	40.0	45.0	48.0
	1	10.6	16.4	19.5	22.2	26.3	29.7	31.0	34.8	39.0	43.2	46.0	52.5	57.0
	0	10.8	17.2	20.5	23.4	27.8	31.5	34.0	38.4	45.0	50.4	54.0	62.5	69.0
	-1	11.0	18.0	21.5	24.6	30.0	34.2	37.0	42.0	49.5	55.8	60.0	70.0	81.0
	-2	11.4	18.8	22.5	25.8	31.5	36.9	39.0	45.6	54.0	61.2	66.0	80.0	93.0
14 lph														
10 % discharge variation	2	8.0	12.4	15.0	16.8	19.5	22.5	24.0	26.4	30.0	32.4	34.0	40.0	42.0
	1	8.2	12.8	15.5	17.4	20.3	23.4	25.0	27.6	31.5	36.0	38.0	42.5	48.0
	0	8.2	13.2	15.5	18.0	21.0	24.3	26.0	28.8	33.0	37.8	40.0	47.5	54.0
	-1	8.4	13.6	16.0	18.6	21.8	25.2	27.0	31.2	36.0	39.6	44.0	50.0	57.0
	-2	8.4	13.6	16.5	19.2	22.5	26.1	28.0	32.4	37.5	43.2	46.0	55.0	63.0
7.5 % discharge variation	2	7.2	11.2	13.0	15.0	17.3	19.8	21.0	22.8	25.5	28.8	30.0	35.0	36.0
	1	7.4	11.6	13.5	15.6	18.0	20.7	22.0	25.2	28.5	30.6	34.0	37.5	42.0
	0	7.4	12.0	14.0	16.2	19.5	21.6	23.0	26.4	30.0	34.2	36.0	42.5	48.0
	-1	7.6	12.0	14.5	16.8	20.3	23.4	25.0	27.6	33.0	36.0	40.0	47.5	54.0
	-2	7.6	12.4	15.0	17.4	21.0	24.3	26.0	30.0	34.5	39.6	42.0	50.0	57.0

Note: Inlet Pressure: 1.0 kg/cm²; + slope : Uphill, - slope : Downhill

Maximum Running Length for J-Turbo Key Plus™

16 mm tube (13.8 mm ID tube) at 1.0 kg/cm²

Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
2 lph														
10 % discharge variation	2	39.6	56.4	63.0	68.4	74.3	79.2	81.0	84.0	87.0	90.0	92.0	92.5	93.0
	1	43.6	66.0	76.5	85.2	97.5	107.1	112.0	121.2	132.0	142.2	146.0	157.5	165.0
	0	47.4	76.0	91.0	103.8	123.0	140.4	151.0	170.4	196.5	221.4	238.0	277.5	312.0
	-1	51.4	86.0	105.0	122.4	149.3	173.7	189.0	218.4	261.0	300.6	330.0	397.5	462.0
	-2	55.0	95.6	118.0	139.2	171.8	203.4	222.0	259.2	313.5	338.6	388.0	462.0	517.0
7.5 % discharge variation	2	34.6	48.0	53.0	56.4	60.8	63.9	65.0	67.2	69.0	70.2	72.0	72.5	72.0
	1	38.6	58.0	67.0	73.8	83.3	90.9	95.0	102.0	111.0	117.0	120.0	127.5	132.0
	0	42.8	68.8	82.0	94.2	111.8	126.9	136.0	153.6	178.5	199.8	216.0	250.0	282.0
	-1	47.0	79.6	97.5	114.0	139.5	163.8	178.0	206.4	247.5	286.2	314.0	382.5	444.0
	-2	51.2	89.6	112.0	132.0	164.3	195.3	213.0	250.8	294.5	300.0	338.0	385.0	440.0
4 lph														
10 % discharge variation	2	27.0	40.4	46.5	51.0	57.8	63.0	65.0	69.6	75.0	79.2	82.0	85.0	87.0
	1	28.6	44.4	52.0	58.2	67.5	75.6	80.0	87.6	97.5	106.2	112.0	122.5	132.0
	0	30.2	48.4	58.0	66.0	78.0	89.1	96.0	108.0	124.5	140.4	152.0	175.0	198.0
	-1	31.8	52.4	63.5	73.8	88.5	103.5	111.0	128.4	151.5	174.6	190.0	227.5	261.0
	-2	33.4	56.4	69.0	81.0	99.0	116.1	126.0	146.4	175.5	203.4	224.0	270.0	315.0
7.5 % discharge variation	2	23.8	34.8	40.0	43.8	48.8	52.2	54.0	57.6	61.5	63.0	66.0	67.5	69.0
	1	25.6	39.2	46.0	51.6	59.3	65.7	69.0	75.6	84.0	91.8	96.0	105.0	111.0
	0	27.2	43.6	52.0	59.4	70.5	81.0	86.0	97.2	112.5	127.8	136.0	157.5	177.0
	-1	29.0	48.0	58.5	67.8	82.5	95.4	104.0	120.0	142.5	163.8	178.0	215.0	249.0
	-2	30.6	52.4	64.5	75.6	93.0	109.8	119.0	139.2	168.0	194.4	214.0	265.0	310.0
8 lph														
10 % discharge variation	2	17.8	27.2	32.0	36.0	41.3	45.9	48.0	52.8	58.5	63.0	66.0	70.0	75.0
	1	18.6	29.2	34.5	39.0	45.0	51.3	54.0	60.0	67.5	75.6	80.0	90.0	99.0
	0	19.2	30.8	36.5	42.0	49.5	56.7	61.0	68.4	79.5	88.2	96.0	110.0	126.0
	-1	19.8	32.4	39.0	45.0	54.0	62.1	67.0	76.8	90.0	102.6	112.0	132.5	153.0
	-2	20.4	34.0	41.5	48.0	58.5	67.5	73.0	84.0	100.5	115.2	126.0	152.5	177.0
7.5 % discharge variation	2	16.0	24.0	28.0	31.2	36.0	39.6	41.0	44.4	49.5	52.2	54.0	57.5	60.0
	1	16.6	26.0	30.5	34.8	40.5	45.0	48.0	52.8	60.0	64.8	70.0	77.5	84.0
	0	17.4	27.6	33.0	37.8	45.0	51.3	55.0	62.4	72.0	81.0	86.0	100.0	114.0
	-1	18.0	29.6	35.5	41.4	49.5	57.6	62.0	70.8	84.0	95.4	104.0	122.5	141.0
	-2	18.6	31.2	38.0	44.4	54.0	63.0	68.0	79.2	94.5	109.8	120.0	145.0	168.0
14 lph														
10 % discharge variation	2	12.6	19.6	23.0	25.8	30.0	34.2	36.0	39.6	45.0	48.6	50.0	57.5	60.0
	1	13.0	20.4	24.0	27.6	32.3	36.9	39.0	43.2	49.5	54.0	58.0	65.0	72.0
	0	13.2	21.2	25.5	28.8	34.5	39.6	42.0	46.8	54.0	61.2	66.0	77.5	87.0
	-1	13.6	22.0	26.5	30.6	36.0	42.3	45.0	51.6	60.0	68.4	74.0	87.5	99.0
	-2	13.8	22.8	27.5	31.8	38.3	44.1	48.0	55.2	64.5	73.8	80.0	97.5	111.0
7.5 % discharge variation	2	11.4	17.6	20.5	22.8	26.3	29.7	31.0	34.8	37.5	41.4	44.0	47.5	51.0
	1	11.6	18.4	21.5	24.6	28.5	32.4	34.0	38.4	43.5	48.6	52.0	57.5	63.0
	0	12.0	19.2	23.0	26.4	30.8	35.1	38.0	43.2	49.5	55.8	60.0	70.0	78.0
	-1	12.4	20.0	24.0	27.6	33.0	37.8	41.0	46.8	55.5	63.0	68.0	80.0	90.0
	-2	12.6	20.8	25.5	29.4	35.3	41.4	44.0	51.6	60.0	70.2	76.0	90.0	105.0

Note: Inlet Pressure: 1.0 kg/cm²; + slope : Uphill, - slope : Downhill

Maximum Running Length for J-Turbo Key Plus™



20 mm tube (17.6 mm ID tube) at 1.0 kg/cm²

Dripper Spacing		20 cm	40 cm	50 cm	60 cm	75 cm	90 cm	100 cm	120 cm	150 cm	180 cm	200 cm	250 cm	300 cm
Slope, %		Length (m)												
2 lph														
10 % discharge variation	2	54.4	72.0	78.0	82.2	86.3	89.1	90.0	92.4	93.0	95.4	96.0	95.0	96.0
	1	63.0	92.4	105.5	115.8	129.0	138.6	144.0	152.4	162.0	167.4	172.0	177.5	183.0
	0	72.0	115.6	138.0	157.8	186.8	213.3	229.0	259.2	298.5	336.6	362.0	420.0	474.0
	-1	80.8	138.0	170.0	199.2	244.5	288.0	314.0	366.0	439.5	511.2	560.0	680.0	258.0
	-2	89.2	158.4	198.0	234.6	292.5	347.6	413.0	481.2	551.5	613.4	682.0	758.5	833.0
7.5 % discharge variation	2	46.2	59.2	63.5	66.0	68.3	70.2	71.0	72.0	72.0	73.8	74.0	72.5	75.0
	1	55.4	79.6	90.0	97.8	107.3	114.3	118.0	123.6	129.0	133.2	136.0	140.0	141.0
	0	65.0	104.4	124.5	142.8	168.8	193.5	207.0	234.0	270.0	304.2	328.0	380.0	429.0
	-1	74.8	128.8	159.5	187.8	231.8	273.6	299.0	349.2	421.5	491.4	560.0	680.0	174.0
	-2	84.0	151.2	190.0	226.2	296.8	351.9	407.0	485.2	564.0	642.8	721.6	800.4	879.2
4 lph														
10 % discharge variation	2	38.6	55.2	62.0	67.2	73.5	77.4	80.0	84.0	87.0	90.0	90.0	92.5	93.0
	1	42.2	64.0	74.5	82.8	94.5	104.4	109.0	118.8	130.5	138.6	144.0	155.0	162.0
	0	45.8	73.6	87.5	100.2	119.3	135.9	146.0	164.4	190.5	214.2	230.0	267.5	300.0
	-1	49.4	82.8	101.0	117.6	143.3	167.4	181.0	210.0	250.5	288.0	316.0	380.0	441.0
	-2	53.0	91.6	113.5	133.2	165.0	194.4	212.0	248.4	298.5	351.2	404.0	474.0	544.0
7.5 % discharge variation	2	33.6	46.8	52.0	55.8	60.0	63.0	64.0	66.0	69.0	70.2	70.0	72.5	72.0
	1	37.4	56.4	65.0	72.0	81.8	89.1	93.0	100.8	108.0	115.2	118.0	125.0	129.0
	0	41.4	66.4	79.5	90.6	107.3	123.3	132.0	148.8	172.5	192.6	208.0	242.5	273.0
	-1	45.4	76.4	93.5	109.2	133.5	156.6	170.0	198.0	237.0	273.6	302.0	365.0	426.0
	-2	49.2	86.0	107.0	126.6	156.8	186.3	204.0	238.8	287.5	336.0	384.0	454.0	514.0
8 lph														
10 % discharge variation	2	26.2	39.2	45.0	49.8	56.3	61.2	64.0	68.4	73.5	77.4	80.0	85.0	87.0
	1	27.6	42.8	50.5	56.4	66.0	73.8	78.0	85.2	96.0	104.4	110.0	120.0	129.0
	0	29.2	46.8	56.0	63.6	75.8	86.4	92.0	104.4	120.0	135.0	146.0	170.0	192.0
	-1	30.6	50.4	61.0	70.8	85.5	99.0	107.0	123.6	145.5	167.4	182.0	217.5	252.0
	-2	32.0	54.0	66.5	77.4	94.5	111.6	121.0	140.4	168.0	194.4	214.0	257.5	300.0
7.5 % discharge variation	2	23.2	34.0	39.0	42.6	48.0	51.3	53.0	56.4	60.0	63.0	64.0	67.5	69.0
	1	24.8	38.0	44.5	49.8	57.8	63.9	68.0	74.4	82.5	88.2	94.0	102.5	108.0
	0	26.4	42.0	50.5	57.6	68.3	78.3	84.0	94.8	109.5	122.4	132.0	152.5	171.0
	-1	28.0	46.4	56.0	65.4	78.8	91.8	99.0	115.2	136.5	156.6	170.0	205.0	237.0
	-2	29.6	50.4	62.0	72.6	89.3	105.3	114.0	133.2	160.5	187.2	204.0	250.0	299.0
14 lph														
10 % discharge variation	2	18.8	28.8	33.5	37.2	42.8	47.7	50.0	54.0	60.0	64.8	68.0	72.5	78.0
	1	19.4	30.4	36.0	40.8	47.3	53.1	57.0	63.6	72.0	79.2	84.0	92.5	102.0
	0	20.2	32.4	38.5	44.4	52.5	59.4	64.0	72.0	84.0	93.6	100.0	117.5	132.0
	-1	21.0	34.0	41.0	47.4	57.0	65.7	71.0	81.6	96.0	109.8	118.0	140.0	162.0
	-2	21.6	36.0	44.0	51.0	61.5	72.0	78.0	90.0	106.5	122.4	134.0	162.5	189.0
7.5 % discharge variation	2	16.8	25.2	29.5	32.4	36.8	40.5	43.0	46.8	51.0	54.0	56.0	60.0	63.0
	1	17.4	27.2	32.0	36.0	42.0	46.8	50.0	55.2	63.0	68.4	72.0	80.0	87.0
	0	18.2	29.2	35.0	39.6	47.3	54.0	58.0	64.8	75.0	84.6	92.0	105.0	120.0
	-1	19.0	31.2	37.5	43.8	52.5	60.3	65.0	75.6	88.5	100.8	110.0	130.0	150.0
	-2	19.8	33.2	40.5	47.4	57.8	67.5	73.0	84.0	100.5	117.0	128.0	155.0	180.0

Note: Inlet Pressure: 1.0 kg/cm²; + slope : Uphill, - slope : Downhill