

# HYPRO<sup>®</sup> NOZZLES

## FASTCAP<sup>®</sup> ESI LIQUID FERTILISER NOZZLES

### 6 SOLID STREAMS IN A COMPACT CAP



### FEATURES & BENEFITS

- Optimised for practical and accurate application of liquid fertiliser
- Six fluid streams distribute liquid fertiliser evenly and accurately to the root zone
- Stable streams help minimise leaf retention and crop scorch
- Compact FastCap<sup>®</sup> design is less prone to breakage than longer nozzles or dribble bars
- Easily handled with no loose parts
- FastCap<sup>®</sup> bayonet is easily fitted and removed from standard EF3 nozzle holders such as Hypro's ProFlo<sup>™</sup>, Arag and Teejet
- Large liquid outlet holes help prevent blockages
- Orifice constructed from durable materials for reduced wear, longer life and consistent application
- Available in sizes 015 to 20, in ISO colours for a wide range of application rates from 20 to 1380 l/ha



Six solid liquid streams optimise fertiliser distribution. For optimum placement and minimum crop scorch set boom height 50 cm above crop.

# HYPRO® NOZZLES

## FASTCAP® ESI LIQUID FERTILISER NOZZLES

### PART NO: FC-ESI-110015P (6 PACK)

Nozzle	Pressure	Flow	Litres/hectare @ Km/h					
	Bar	L/min	8	10	12	14	16	18
015	1	0.346	52	42	35	30	26	23
	2	0.490	73	59	49	42	37	33
	3	0.600	90	72	60	51	45	40
	4	0.693	104	83	69	59	52	46

### PART NO: FC-ESI-11002P (6 PACK)

Nozzle	Pressure	Flow	Litres/hectare @ Km/h					
	Bar	L/min	8	10	12	14	16	18
02	1	0.462	69	55	46	40	35	31
	2	0.653	98	78	65	56	49	44
	3	0.800	120	96	80	69	60	53
	4	0.924	139	111	92	79	69	62

### PART NO: FC-ESI-11003P (6 PACK)

Nozzle	Pressure	Flow	Litres/hectare @ Km/h					
	Bar	L/min	8	10	12	14	16	18
03	1	0.693	104	83	69	59	52	46
	2	0.980	147	118	98	84	73	65
	3	1.200	180	144	120	103	90	80
	4	1.386	208	166	139	119	104	92

### PART NO: FC-ESI-11004P (6 PACK)

Nozzle	Pressure	Flow	Litres/hectare @ Km/h					
	Bar	L/min	8	10	12	14	16	18
04	1	0.924	139	111	92	79	69	62
	2	1.306	196	157	131	112	98	87
	3	1.600	240	192	160	137	120	107
	4	1.848	277	222	185	158	139	123

### PART NO: FC-ESI-11005P (6 PACK)

Nozzle	Pressure	Flow	Litres/hectare @ Km/h					
	Bar	L/min	8	10	12	14	16	18
05	1	1.155	173	139	115	99	87	77
	2	1.633	245	196	163	140	122	109
	3	2.000	300	240	200	171	150	133
	4	2.309	346	277	231	198	173	154

### PART NO: FC-ESI-11006P (6 PACK)

Nozzle	Pressure	Flow	Litres/hectare @ Km/h					
	Bar	L/min	8	10	12	14	16	18
06	1	1.386	208	166	139	119	104	92
	2	1.960	294	235	196	168	147	131
	3	2.400	360	288	240	206	180	160
	4	2.771	416	333	277	238	208	185

### PART NO: FC-ESI-11008 (6 PACK)

Nozzle	Pressure	Flow	Litres/hectare @ Km/h					
	Bar	L/min	8	10	12	14	16	18
08	1	1.848	277	222	185	158	139	123
	2	2.613	392	314	261	224	196	174
	3	3.200	480	384	320	274	240	213
	4	3.695	554	443	370	317	277	246

### PART NO: FC-ESI-11010 (6 PACK)

Nozzle	Pressure	Flow	Litres/hectare @ Km/h					
	Bar	L/min	8	10	12	14	16	18
10	1	2.309	346	277	231	198	173	154
	2	3.266	490	392	327	280	245	218
	3	4.000	600	480	400	343	300	267
	4	4.619	693	554	462	396	346	308

### PART NO: FC-ESI-11015 (6 PACK)

Nozzle	Pressure	Flow	Litres/hectare @ Km/h					
	Bar	L/min	8	10	12	14	16	18
15	1	3.464	520	416	346	297	260	231
	2	4.899	735	588	490	420	367	327
	3	6.000	900	720	600	514	450	400
	4	6.928	1039	831	693	594	520	462

### PART NO: FC-ESI-11020P (6 PACK)

Nozzle	Pressure	Flow	Litres/hectare @ Km/h					
	Bar	L/min	8	10	12	14	16	18
20	1	4.619	693	554	462	396	346	308
	2	6.532	980	784	653	560	490	435
	3	8.000	1200	960	800	686	600	533
	4	9.238	1386	1109	924	792	693	616

ORDERING: Use part numbers shown. P indicates plastic metering discs, otherwise ceramic.  
For packs of 6 with rate cards in English use part number format FC-HESI-110XX.

### CORRECTION FOR SPECIFIC GRAVITY OF LIQUID FERTILIZER:

Application rates shown in this chart are based upon tests with plain water at 3 bar, 50 cm nozzle spacing and 50 cm boom height. Liquids with a higher Specific Gravity (S.G.) than water (e.g. liquid fertiliser) flow more slowly, so a Correction Factor needs to be calculated:

$$\text{Correction Factor} = \sqrt{\frac{1}{\text{S.G.}}}$$

Use the Correction Factor to calculate a 'Reference Application Rate' as shown.

$$\frac{\text{Target Application Rate l/ha}}{\text{Correction Factor}} = \text{Reference Application Rate l/ha}$$

Use this Reference Application Rate to select a nozzle size, pressure and speed using the nozzle charts above. These revised settings will apply the required application rate.



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