

CORRESPONDENCE TABLE

Impact agricultural sprinklers

Greenhouse sprinkling: pendant sprinklers										
Thread	Material	Complete model		Maximum spacing	Type of nozzle	Page				
1/2"	Plastic	Rolland 6CTB		6 m	screw-on	85				
Under tree sprinkling										
Thread	Material	Full circle model	Projection angle	Maximum spacing	Nozzle type	Page	Part circle model	Projection angle	Nozzle type	Page
1/2" or 15/21	Plastic	AQ 22 LA	9°	10 m x 10 m	1/4T	79				
		Rolland 7C	4°	8 m x 8 m	screw-on	85				
		Rolland 12	8°	10m x 10 m	1/4 T	86	Rolland 12	8°	1/4 T	86
3/4"	Brass	AQ 20 LA	10°	14 m x 14 m	screw-on	82				
Outdoor sprinkling										
Thread	Material	Full circle model	Projection angle	Maximum spacing	Nozzle type	Page	Part circle model	Projection angle	Nozzle type	Page
Market gardening (100% overlap)										
1/2" or 15/21	Plastic	Rolland 12	28°	12 m x 12 m	1/4 T	86	Rolland 12	28°	1/4 T	86
	Brass	AQ 5 N 25	25°	12 m x 12 m	screw-on	80	AQ 5 PC 25	25°	screw-on	80
		Rolland 11 C	24°	12 m x 12 m	screw-on	88	Rolland 11 S	24°	screw-on	88
Solid set (80% overlap)										
3/4" or 20/27	Plastic	AQ 46	23°	18 m x 18 m	1/4	81	AQ 46 PC	23°	1/4 T	81
		Rolland 18 C	24°	18 m x 18 m	screw-on	89				
		Rolland 20	24°	18 m x 18 m	1/4 T	90	Rolland 20	24°	1/4 T	90
		Rain bird 48	23°	18 m x 18 m	1/4 T	94				
		Unirain F 46	23°	18 m x 18 m	1/4 T	95	Unirain P 45 L	23°	1/4 T	95
Outdoor (80% overlap)										
3/4" or 20/27	Brass	AQ 20 CS	27°	18 m x 18 m	screw-on	82	AQ 20 PC	27°	screw-on	83
		Rolland 17 C	28°	18 m x 18 m	screw-on	90	Rolland 17 S	28°	screw-on	91
Outdoor (80% overlap)										
1" or 26/34	Brass	Rolland 21 D	28°	24 m x 24 m	screw-on	92	Rolland 21 S	28°	screw-on	92
		Rolland 22	28°	27 m x 27 m	screw-on	92	AQ 30 PC	23°	screw-on	83
		Rolland 24	28°	30 m x 30 m	screw-on	92				
Outdoor (80% overlap)										
1 1/4" or 33/42	Brass			36 m x 36 m	screw-on		AQ 40 BPC	23°	screw-on	84
				36 m x 36 m	screw-on		Rolland 31 S	24°	screw-on	93
				42 mx 42 m	screw-on		Rain Bird 85	27°	screw-on	95
Sprinkling for frost protection application										
Thread	Material	Full circle model	Projection angle	Maximum spacing	Nozzle type	Page	Rules for frost protection use			
1/2"	Brass	Rolland 11 ATG	30°	15 m x 15 m	screw-on	88	Protected	spring		
3/4"	Brass	Rolland 17 ATG	28°	20 m x 20 m	screw-on	91	Rainfall	4.0 mm/h		
		RC 130		20 m x 20 m	screw-on	96	Pressure at sprinkler	4.0 bars		
							Rotation speed	45 seconds		
Nozzle correspondence table										
3/32"	2.38 mm	11/64"	4.38 mm	1/4"	6.35 mm	13/32"	10.32 mm	9/16"	14.29 mm	
1/8"	3.18 mm	3/16"	4.76 mm	9/32"	7.14 mm	7/16"	11.11 mm	5/8"	15.88 mm	
9/64"	3.57 mm	13/64"	5.16 mm	11/32"	8.73 mm	15/32"	11.91 mm			
5/32"	3.97 mm	7/32"	5.56 mm	3/8"	9.53 mm	1/2"	12.70 mm			

AQ 22 1/4 TURN PLASTIC NOZZLES

AQ 22 LA 9° sprinkler nozzle performances

	Motorised nozzles					
Reference	320617	320619		320621		320623
Diameter in mm	2.50	3.00		3.50		4.00
Flow L/h at 3 bars	450	9° = 630	24° = 840	9° = 830	24° = 1160	1045
Maximum range in mL	8.25	9° = 9	24° = 11.30	9° = 9.25	24° = 12.40	10.00

AQ 22 24° sprinkler nozzle performances

	Rear nozzles					
Reference	320685	320686				
Diameter in mm	1.18	2.38				
Flow L/h at 3 bars	210	330				

SCREW-ON AQ 5° BRASS NOZZLES

AQ 5 sprinkler nozzle performances

	Motorised nozzles				
Reference	320607	320609	320611	320613	320615
Diameter in mm	2.38	2.77	3.17	3.57	3.97
	AQ 5 LA 7°				
Flow L/h at 3 bars	350	540	630	912	
Maximum range in mL	9.15	9.45	9.45	9.75	
	AQ 5 N 25° and AQ 5PC 25°				
Flow L/h at 3.5 bars	378	552	696	936	1150
Maximum range in mL	11.70	11.90	12.00	12.20	12.50

AQ 46 1/4 TURN PLASTIC NOZZLES

AQ 46 23° sprinkler nozzle performances

	Motorised nozzles						Rear nozzles	
Reference	320639	320641	320643	320645	320647	320649	320651	320653
Colour	blue	green	grey	yellow	black	red		
Diameter in mm	3.57	3.96	4.36	4.76	5.15	5.55	2.38	3.17
Flow L/h at 5 bars		1280	1400	1860	2100		320.0	440
Maximum range in mL		13.50	15.00	16.00	16.50			

SCREW-ON AQ 20 BRASS NOZZLES

<i>AQ 20 sprinkler nozzle performances</i>							
	Motorised nozzles					Rear nozzles	
Reference	320625	320627	320629	320631	320633	320635	320637
Diameter in mm	3.97	4.36	4.76	5.15	5.55	2.38	3.17
<i>AQ 20 LA 10°</i>							
Flow L/h at 3 bars	1100	1350	1622	1922	2230	330	790
Maximum range in mL	13.10	13.50	13.60	13.90	13.90		
<i>AQ 20 CS 27°</i>							
Flow L/h at 3.5 bars	1100	1350	1622	1922	2230	330	790
Maximum range in mL	12.60	14.50	16.00	16.00	16.00		
<i>AQ 20 PC 27°</i>							
Flow L/h at 3.5 bars	1100	1350	1622	1922	2230	330	790

SCREW-ON AQ 30 BRASS NOZZLES

<i>AQ 30 PC 23° sprinkler nozzle performances</i>					
	Motorised nozzles				Rear nozzle
Reference	320657	320659	350661	320662	320663
Diameter in mm	6.35	7.14	7.94	8.73	3.17
Flow L/h at 5 bars	3470	4238	5078	5786	790
Maximum range in mL	16.90	17.70	18.50	19.40	

SCREW-ON AQ 40 BRASS NOZZLES

<i>AQ 40 BPC 23° sprinkler nozzle performances</i>						
	Motorised nozzles				Rear nozzle	
Reference	320667	320669	320671	320672	320673	320675
Diameter in mm	9.53	10.32	12.70	15.87	5.55	6.35
Flow L/h at 5 bars	9210	12500	16540	23540	2760	3590
Maximum range in mL	24.20	26.30	28.10	30.30		

SCREW-ON BRASS NOZZLES FOR 6 CTB AND 7 C

R 6 CTB and R 7 C sprinkler nozzle performances

	Nozzles + aerators		Split nozzles		Nozzle 4°							
	(7C only)											
Reference	300335	300340	300327	300285	300178	300186	300194	300202	300210	300228	300236	300244
Diameter in mm	2.00	2.50	2.00	2.50	2.00	2.50	2.80	3.00	2.00	2.50	2.80	3.00
Flow L/h at 3 bars	220	330	220	300	220	330	not recommended	not recommended	0.22	0.33	0.40	0.43
Maximum range in mL	6.60	7.60	6.60	7.60	6.60	7.60	not recommended	not recommended	8.00	8.30	9.00	9.10

1/4 TURN PLASTIC NOZZLES FOR 12

R12 sprinkler nozzle performances

Motorised nozzles											
Reference	ART0002686	ART0002689	ART0002691	ART0002692	ART0002693	ART0002694	ART0002695	ART0002696	same as Rolland 20 sprinkler		
Diameter in mm	2.0 C	3.00 E	3.50 E	4.0 E	4.5 E	2.2	2.5	3.0	3.5	4.0	4.5
Colour	Pastel green	Salmon	White	Blue	Black	Brown	Dark green	Beige	Grey	Yellow	Orange
Type	Square	Notch	Notch	Notch	Notch	Round	Round	Round	Round	Round	Round
R 12 8°											
Flow L/h at 3.0 bars	300	590	800	1000	1350	350	450	650	800	1000	1350
Maximum range in m	7.00	8.70	9.00	9.10	9.40	9.20	9.20	9.50	10.50	10.50	10.40
R 12 28°											
Flow L/h at 3.5 bars	Not recommended	660	850	1050	1450	400	500	700	850	1050	1450
Maximum range in m		11.40	11.80	12.30	12.60	9.40	9.60	11.60	12.20	13.00	12.80
Distribution rear nozzles											
Reference	ART0002697	ART0002698	ART0002699								
Sprinkler types	8°	28°									
Diameter in mm	2.0	2.0	2.5								
Colour	Dark blue	Turquoise	Lilac								
Flow L/h at 3.0 bars	200	200	250								
Flow L/h at 3.5 bars		250	300								

SCREW-ON 8 C BRASS NOZZLES

R 8 C sprinkler nozzle performances

Motorised nozzles								
Reference	300250		300252		300254		300256	
Diameter in mm	2.50		2.80		3.00		3.50	
Flow L/h at 3.0 bars	430		500		580		780	
R 8 C 8° maximum range in mL	7.80		7.90		8.10		8.30	
R 8 C 11° maximum range in mL	8.70		8.80		8.90		9.10	

SCREW-ON 9 C AND 11 BRASS NOZZLES

R 9 C and R 11 sprinkler nozzle performances

	Motorised nozzles				Rear nozzles	
Reference	300053	300061	300079	300087	300103	300111
Diameter in mm	3.00	3.50	4.00	4.50	2.00	2.50
R 9 C						
Flow L/h at 3.0 bars		760	990	1320		
Maximum range in mL		8.00	8.20	8.40		
R 11 C 24° and R 11 S 24°						
Flow L/h at 3.5 bars	650	870	1140	1410	220	340
Maximum range in mL		13.00	13.00	13.50		
R 11 ATG 30°						
Flow L/h at 4 bars		948	1228	1520		
Maximum range in mL		13.00	13.00	13.50		

SCREW-ON 18 C BRASS NOZZLES

R 18 C sprinkler nozzle performances

	Motorised nozzles				Rear nozzles
Reference	300558	300566	300574	300582	300608
Diameter in mm	4.50	5.00	5.50	6.00	3.00
Flow L/h at 3.5 bars	1400	1600	2020	290	550
Maximum range in mL	14.50	14.80	15.50	17.00	

1/4 TURN MOTORISED PLASTIC NOZZLES FOR 20°

R 20 24° sprinkler nozzle performances

Specialised motorised nozzles for uniformity					
Reference	300615	600616	300617	300618	300619
Colour	White	Blue	Black	Green	Red
Diameter in mm	3.5	4.00	4.5	5.0	5.5
Flow L/h at 3.5 bars	850	1050	1400	1600	2000
Maximum range in metres	13	13	14	14	15.2
Specialised motorised nozzles for long ranges					
Reference	300625	300626	300627	300628	300632
Colour	Grey	Yellow	Orange	Violet	Blue
Diameter in mm	3.5	4.00	4.5	5.0	2.5
Flow L/h at 3.5 bars	850	1050	1400	1600	350
Maximum range in metres	14.6	14.6	14.8	15.5	

SCREW-ON BRASS NOZZLES FOR 17

<i>R 17 sprinkler nozzle performances</i>								
	Motorised nozzles						Rear nozzles	
Reference	301457	301465	301473	301481	301499	301507	301531	301549
Diameter in mm	4.00	4.20	4.50	5.00	5.50	6.00	2.50	3.00
<i>R 17 C 28° and R 17 S 28°</i>								
Flow L/h at 3.5 bars	1150	1260	1400	1600	2020	2190	390	550
Maximum range in mL	14.30	15.40	15.60	16.30	17.00	17.60		
<i>R 17 ATG 28°</i>								
Flow L/h at 4 bars	1256	1360	1568	1884				
Maximum range in mL	15.10	15.70	16.10	17.20				

SCREW-ON BRASS NOZZLES FOR 21-22-24

<i>R 21 D – R 21 S – R 22 C – R 24 C sprinkler nozzle performances</i>												
	Motorised nozzles						Nozzles + aerator		Rear nozzles			
Reference	300962	300970	300988	300996	301275	301283	301135	301143	301473	301481	300921	301549
Diameter in mm	4.50	5.00	5.50	6.00	6.50	7.00	6.00	6.50	4.50	5.00	3.00	3.00
Flow L/h at 4 bars	1500	1910	2180	2650	2800	3900	2650	2800	1500	1700	560	640
R 21 D 28° maximum range in mL		17.00	17.30	18.50	19.20	19.50	16.90	17.60	Not recommended			
R 21 S 28° maximum range in mL			16.50	19.00	20.00	20.00	18.40	18.40	Not recommended			
R 22 C 28° maximum range in mL	16.00	16.00	18.00	20.00	20.00	20.00	18.40	18.40	Not recommended			
R 24 C 28° maximum range in mL			19.30	20.60	20.60	21.30	19.00	19.00	Not recommended			

SCREW-ON BRASS NOZZLES FOR 31 S

<i>R 31 S sprinkler nozzle performances</i>										
	Motorised nozzles								Secondary nozzles	
Reference	300780	300798	300806	300814	300822	300830	300855	301481	301499	
Diameter in mm	8.00	9.00	10.00	11.00	12.00	13.00	15.00	5.00	5.50	
Flow L/h at 5 bars	600	7300	9800	11000	12000	13100	15800	1850	2200	
Maximum range in mL	22.00	23.00	23.00	24.00	24.00	25.00	30.00			

1/4 TURN PLASTIC NOZZLES FOR RB 48

<i>RB 48 sprinkler nozzle performances</i>										
	1/4 turn range plastic nozzles					Rear nozzles without aerators			1/4 T uniformity nozzles	
Reference	306211	306213	306215	306217	306219	306240	306241	306242	306237	306239
Colour	Black	Brown	Yellow	Violet	Orange	Green	Black	Blue	Black	Brown
Diameter	5/32"	11/64"	3/16"	13/64"	7/32"	3/32"	7/64"	1/8"	5/32"	11/64"
Flow L/h at 3.55 bars	1180	1390	1660	1950	2250	400	460	800	1140	1380
Maximum range in m	16.3	17.1	17.8	18.4	18.8				14.2	14.5

SCREW-ON BRASS NOZZLES FOR RB 85

RB 85 EWD LESS 27° sprinkling brass nozzle performances

	Motorised nozzles							
Reference	307009	307017	307025	307033	307041	307058	307058	307082
Diameter in mm	8.73	9.53	10.32	11.11	11.91	12.70	14.29	15.88
Flow L/h at 5 bars	6510	7700	8990	10430	11890	13290	16700	20300
Maximum range in mL	24.80	25.40	26.40	27.30	28.00	29.00	30.90	31.80

SCREW-ON BRASS NOZZLES FOR P 45 L

P45L sprinkler nozzle performances

	Motorised nozzles			
Reference	306148	306150	306152	306154
Diameter in mm	3.57	3.97	4.38	4.76
Flow L/h at 3.5 bars	940	1100	1390	1660
Maximum range in mL	12.50	13.00	13.50	14.00
	Rear and distribution nozzle			
Reference	306751			
Diameter in mm	2.38			
Flow L/h at 3.5 bars	215			

SCREW-ON BRASS NOZZLES FOR RC 130

RC 130 sprinkler nozzle performances

	Motorised nozzles		
Reference	330147	330159	330166
Diameter in mm	3.57	3.97	4.38
Flow L/h at 4 bars	1000	1230	1480
Maximum range in mL	14.50	15.30	15.70

PLASTIC NOZZLES FOR KOMET R20

Komet R20 nozzle performances

Reference	305637	305640	305643	305646	305649
Diameter in mm	6.00	7.00	8.00	10.00	12.00
Flow m ³ /h at 3 bars	2.35	3.12	4.08	6.38	9.00
Range mL	18.00	19.00	21.00	22.00	22.50
Flow m ³ /h at 4 bars	2.70	3.61	4.72	7.36	10.20
Range mL	20.00	21.00	22.50	24.00	24.50

KOMET 163 PLASTIC NOZZLES

Komet 163 nozzle performances

Reference	305532	305490	305508	305516	305540
Diameter in mm	8.00	10.00	12.00	14.00	16.00
Flow m ³ /h at 4 bars	6.94	9.59	12.83	16.67	21.08
Range m	24.00	26.50	28.50	30.00	31.50
Flow m ³ /h at 5 bars	7.76	10.73	14.35	18.63	23.57
Range m	25.00	28.50	30.50	32.00	33.50

NOZZLES FOR KOMET 101-140

Komet 101 nozzle performances

	Twin 101 nozzles	
Reference	305321	305323
Diameter in mm	12	14
Flow in m ³ /h at 4 bars	11.10	15.10
Range in m	30.10	33.80
Flow in m ³ /h at 5 bars	12.40	16.80
Range in m	33.80	36.80

Komet 140 nozzle performances

	Twin 140 nozzles		
Reference	305335	305337	305339
Diameter in mm	26	28	30
Flow in m ³ /h at 4 bars	51.90	60.20	69.10
Range in m	47.20	49.10	51.00
Flow in m ³ /h at 5 bars	58.10	67.30	77.30
Range in m	51.40	53.50	55.50

Komet 101-140 nozzle performances

	Twin 101 or 140 nozzles									
Reference	305325	ART0002700	305327	ART0002701	305329	ART0002702	305331	ART0002703	305333	
Diameter in mm	16	17	18	19	20	21	22	23	24	
Flow in m ³ /h at 4 bars	19.70	22.20	24.90	27.70	30.70	33.90	37.20	40.60	44.30	
Range in m	36.30	37.50	38.70	39.30	41.00	42.10	43.10	44.20	45.20	
Flow in m ³ /h at 5 bars	22.00	24.80	27.80	31.00	34.40	37.90	41.60	45.40	49.50	
Range in m	39.50	40.80	42.10	43.40	44.60	45.80	46.90	48.10	49.20	

NOZZLES FOR KOMET 160-202 VECTOR

Komet 160-202 nozzle performances

	Twin 160 or 202 nozzles							
Reference	303351	ART0002709	ART0002704	ART0002705	305355	ART0002706	ART0002707	305357
Diameter in mm	20	22	23	24	25	26	27	27.5
Flow in m ³ /h at 4 bars	30.10	37.20	40.60	44.20	47.03	51.90	56.00	56.90
Range in m	44.20	46.70	47.90	48.90	49.90	50.90	51.90	52.50
Flow in m ³ /h at 5 bars	33.65	41.60	45.40	49.50	52.58	58.00	62.60	63.62
Range in m	47.50	50.40	51.60	52.80	54.00	55.20	56.40	57.00
	Twin 160 or 202 nozzles				Twin 202 nozzles			
Reference	ART0002708	305359	305361	305363	305365	305367		
Diameter in mm	28	30	32.5	35	37.5	40		
Flow in m ³ /h at 4 bars	60.20	67.72	79.48	92.18	105.82	120.40		
Range in m	53.10	55.20	57.90	60.20	62.10	64.20		
Flow in m ³ /h at 5 bars	67.30	75.72	88.86	103.06	118.31	134.61		
Range in m	57.60	60.00	62.50	64.90	66.80	68.60		

NOZZLES FOR KOMET MAX

<i>Komet MAX nozzle performances</i>												
Reference	305547	305549	305551	305553	305555	305557	305559	305561	305563	305565	305567	305569
Diameter in mm	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	20.00	22.00	24.00
Flow in m ³ /h at 3 bars	6.70	8.00	6.60	11.20	13.00	15.00	17.00	19.20	21.50	26.60	32.20	38.30
Range in mL	25.30	26.50	27.60	29.10	30.30	31.40	32.60	33.60	34.70	36.60	38.70	40.50
Flow in m ³ /h at 4 bars	7.70	9.30	11.10	13.00	15.10	17.30	19.70	22.20	24.90	30.70	37.20	44.20
Range in mL	28.00	29.50	31.10	32.30	33.80	35.00	36.30	37.50	38.70	41.00	43.10	45.20

NOZZLES FOR KOMET TRIGON 105-112

<i>Komet TRIGON 105-112 nozzle performances</i>							
	Komet Trigon 105 nozzles						
Reference	305571	305573	305575	305577	30579	305581	305583
Diameter in mm	12.00	14.00	16.00	18.00	20.00	22.00	24.00
Flow in m ³ /h at 3 bars	9.60	13.00	17.00	21.60	25.60	32.20	38.30
Range in mL	26.00	28.10	30.00	32.00	34.30	35.50	37.30
Flow in m ³ /h at 4 bars	11.10	15.10	19.70	24.90	30.70	37.20	44.30
Range in mL	28.80	31.20	33.90	36.90	39.40	41.20	44.00
	Komet Trigon 112 nozzles						
Reference	305602	305604	305606	305608	305610	305612	305614
Diameter in mm	12.00	14.00	16.00	18.00	20.00	22.00	24.00
Flow in m ³ /h at 3 bars	9.60	13.00	17.00	21.60	25.60	32.20	38.30
Range in mL	26.00	28.10	30.00	32.00	34.30	35.50	37.30
Flow in m ³ /h at 4 bars	11.10	15.10	19.70	24.90	30.70	37.20	44.30
Range in mL	28.80	31.20	33.90	36.90	39.40	41.20	44.00