

Characteristics

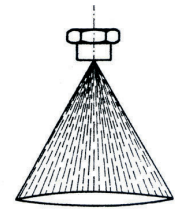
MC's flat fan ball nozzles **FK** can be pivoted all around by 60°, and fixated with a cap nut.
 There are two system sizes to choose from: **N-ball** Ø 15 mm and **M-ball** Ø 20 mm.

Application

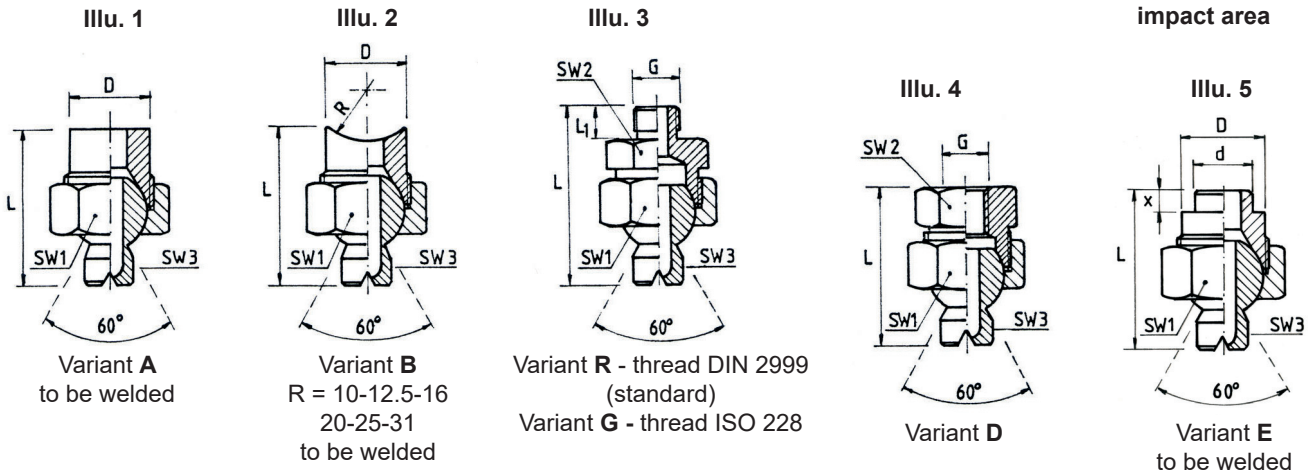
In all settings requiring varying impact angles.

Material

Brass
 Stainl. steel 1.4305, 1.4404
 Plastic - PVC, POM



Elliptical impact area



Connection threads available: G = ISO 228 or R = DIN 2999
 1/8" - 1/4" - 3/8" - 1/2"

Order example: (ball size - type - size - spray angle - material)
FK-N 30 - 90° - V2A - variant C 1/4"

| System size | Ball Ø mm | Dimensions in mm | | | | | | | | | | |
|-------------|-----------|------------------|------|------|------|------|---|----|----|-----|-----|-----|
| | | L | L1 | | | | I | D | d | SW1 | SW2 | SW3 |
| | | | 1/8" | 1/4" | 3/8" | 1/2" | | | | | | |
| N | 15 | 40 | 7 | 10 | 10 | X | 6 | 17 | 15 | 22 | 17 | 10 |
| M | 20 | 50 | 7 | 10 | 10 | 13 | 8 | 24 | 17 | 24 | 24 | 14 |

Spray angles available: 0°-5°-15°-25°-30°-45°-50°-60°-65°-80°-90°-110°-120°, referring to a pressure of 2 bar

| Ball-Ø | Type | E Ø (mm) | Flow rate \dot{V} (l/min.) at pressure p (bar) | | | | | | | | | | | | | | | | | | |
|--------|------|----------|--|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 0.35 | 0.5 | 0.7 | 1 | 1.5 | 2 | 2.5 | 3 | 4 | 5 | 6 | 7 | 8 | 10 | 15 | 20 | 35 | | |
| 15 N | * | * | FK 1 | 0.6 | 0.13 | 0.16 | 0.19 | 0.23 | 0.28 | 0.32 | 0.36 | 0.39 | 0.46 | 0.51 | 0.56 | 0.60 | 0.64 | 0.72 | 0.88 | 1.02 | 1.35 |
| | * | * | FK 1.5 | 0.8 | 0.20 | 0.24 | 0.29 | 0.34 | 0.42 | 0.48 | 0.54 | 0.59 | 0.68 | 0.76 | 0.84 | 0.90 | 0.97 | 1.08 | 1.32 | 1.53 | 2.02 |
| | * | * | FK 2 | 0.9 | 0.27 | 0.32 | 0.38 | 0.46 | 0.56 | 0.64 | 0.72 | 0.79 | 0.91 | 1.02 | 1.12 | 1.21 | 1.29 | 1.44 | 1.77 | 2.04 | 2.70 |
| | * | * | FK 2.5 | 1.0 | 0.34 | 0.40 | 0.48 | 0.57 | 0.70 | 0.81 | 0.90 | 0.99 | 1.14 | 1.27 | 1.40 | 1.51 | 1.61 | 1.80 | 2.21 | 2.55 | 3.37 |
| | * | * | FK 3 | 1.1 | 0.40 | 0.48 | 0.57 | 0.68 | 0.84 | 0.97 | 1.08 | 1.18 | 1.37 | 1.53 | 1.67 | 1.81 | 1.93 | 2.16 | 2.65 | 3.06 | 4.05 |
| | * | * | FK 4 | 1.3 | 0.54 | 0.64 | 0.76 | 0.91 | 1.12 | 1.29 | 1.44 | 1.58 | 1.82 | 2.04 | 2.23 | 2.41 | 2.58 | 2.88 | 3.53 | 4.08 | 5.39 |
| | * | * | FK 5 | 1.5 | 0.67 | 0.81 | 0.95 | 1.14 | 1.40 | 1.61 | 1.80 | 1.97 | 2.28 | 2.55 | 2.79 | 3.02 | 3.22 | 3.60 | 4.41 | 5.10 | 6.74 |
| | * | * | FK 6 | 1.6 | 0.81 | 0.97 | 1.14 | 1.37 | 1.67 | 1.93 | 2.16 | 2.37 | 2.74 | 3.06 | 3.35 | 3.62 | 3.87 | 4.32 | 5.30 | 6.12 | 8.09 |
| | * | * | FK 8 | 1.8 | 1.08 | 1.29 | 1.53 | 1.82 | 2.23 | 2.58 | 2.88 | 3.16 | 3.65 | 4.08 | 4.47 | 4.82 | 5.16 | 5.77 | 7.06 | 8.15 | 10.8 |
| | * | * | FK 9 | 1.9 | 1.21 | 1.45 | 1.72 | 2.05 | 2.51 | 2.90 | 3.24 | 3.55 | 4.10 | 4.59 | 5.02 | 5.43 | 5.80 | 6.49 | 7.95 | 9.17 | 12.1 |
| | * | * | FK 10 | 2.0 | 1.35 | 1.61 | 1.91 | 2.28 | 2.79 | 3.22 | 3.60 | 3.95 | 4.56 | 5.10 | 5.58 | 6.03 | 6.45 | 7.21 | 8.83 | 10.2 | 13.5 |
| | * | * | FK 12.5 | 2.2 | 1.69 | 2.01 | 2.38 | 2.85 | 3.49 | 4.03 | 4.51 | 4.93 | 5.70 | 6.37 | 6.98 | 7.54 | 8.06 | 9.01 | 11.0 | 12.7 | 16.9 |
| | * | * | FK 15 | 2.4 | 2.02 | 2.42 | 2.86 | 3.42 | 4.19 | 4.84 | 5.41 | 5.92 | 6.84 | 7.65 | 8.37 | 9.05 | 9.67 | 10.8 | 13.2 | 15.3 | 20.2 |
| | * | * | FK 17.5 | 2.6 | 2.36 | 2.82 | 3.34 | 3.99 | 4.89 | 5.64 | 6.31 | 6.91 | 7.98 | 8.92 | 9.77 | 10.6 | 11.3 | 12.6 | 15.5 | 17.8 | 23.6 |
| | * | * | FK 20 | 2.8 | 2.70 | 3.22 | 3.81 | 4.56 | 5.58 | 6.45 | 7.21 | 7.90 | 9.12 | 10.2 | 11.2 | 12.1 | 12.9 | 14.4 | 17.7 | 20.4 | 27.0 |
| | * | * | FK 25 | 3.2 | 3.37 | 4.03 | 4.77 | 5.70 | 6.98 | 8.06 | 9.01 | 9.87 | 11.4 | 12.7 | 14.0 | 15.1 | 16.1 | 18.0 | 22.1 | 25.5 | 33.7 |
| | * | * | FK 30 | 3.6 | 4.05 | 4.84 | 5.72 | 6.84 | 8.37 | 9.67 | 10.8 | 11.8 | 13.7 | 15.3 | 16.8 | 18.1 | 19.3 | 21.6 | 26.5 | 30.6 | 40.5 |
| | * | * | FK 35 | 3.8 | 4.72 | 5.64 | 6.67 | 7.98 | 9.77 | 11.3 | 12.6 | 13.8 | 16.0 | 17.8 | 19.5 | 21.1 | 22.6 | 25.2 | 30.9 | 35.7 | 47.2 |
| | * | * | FK 40 | 4.0 | 5.39 | 6.45 | 7.63 | 9.12 | 11.2 | 12.9 | 14.4 | 15.8 | 18.2 | 20.4 | 22.3 | 24.1 | 25.8 | 28.8 | 35.3 | 40.8 | 53.9 |
| | * | * | FK 45 | 4.2 | 6.00 | 7.20 | 8.00 | 9.50 | 11.5 | 14.0 | 15.5 | 17.5 | 20.5 | 22.5 | 25.0 | 27.5 | 30.0 | 32.5 | 30.0 | 35.0 | 45.0 |
| | * | * | FK 50 | 4.4 | 6.74 | 8.06 | 9.54 | 11.4 | 14.0 | 16.1 | 18.0 | 19.7 | 22.8 | 25.5 | 27.9 | 30.2 | 32.2 | 36.0 | 44.1 | 51.0 | 76.4 |
| | * | * | FK 60 | 4.8 | 8.09 | 9.67 | 11.4 | 13.7 | 16.8 | 19.3 | 21.6 | 23.7 | 27.4 | 30.6 | 33.5 | 36.2 | 38.7 | 43.3 | 53.0 | 61.2 | 80.9 |
| | * | * | FK 70 | 5.2 | 9.44 | 11.3 | 13.4 | 16.0 | 19.5 | 22.6 | 25.2 | 27.6 | 31.9 | 35.7 | 39.1 | 42.2 | 45.1 | 50.5 | 61.8 | 71.4 | 94.4 |
| | * | * | FK 80 | 5.6 | 10.8 | 12.9 | 15.3 | 18.2 | 22.3 | 25.8 | 28.8 | 31.6 | 36.5 | 40.8 | 44.7 | 48.3 | 51.6 | 57.7 | 70.6 | 81.6 | 108 |