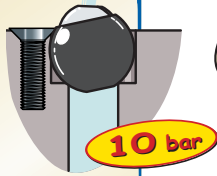


## COOLANT NOZZLES

### Multi-directional nozzles

Dual direction

Acetal body  
Stainless steel nozzle

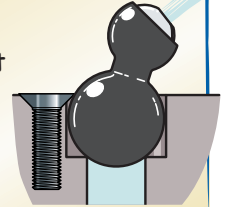


Ø ball	Ø orifice	Ref.
12 mm	4 mm	BE0107
14 mm	4 mm	BE0108
15 mm	4 mm	BE0109
1/2" mm	4 mm	BE0111
15 mm	8/32 unc	BE0240

### Multi-directional double balls

Extended ball socket,  
dual direction adjustment

Acetal body  
Stainless steel nozzle



Ø ball	Ø nozzle	Ref.
12 mm	2,8 mm	BU2305
14 mm	4 mm	BU2320
15 mm	2,8 mm	BU2325
15 mm	4 mm	BU2330

For CNC lathes  
and centres with  
high-pressure pumps



Up to  
**100 bar**

### Multi-directional nozzles

for untapped holes  
no fitting necessary

Acetal body  
Stainless steel nozzle



Ø mounting hole	ball tapping	Ref.
10 mm	M 4 x .7	SB9510
12 mm	M 5 x .8	SB9520
14 mm	M 6 x 1.0	SB9530
15 mm	M 6 x 1.0	SB9540

### Extension tubes

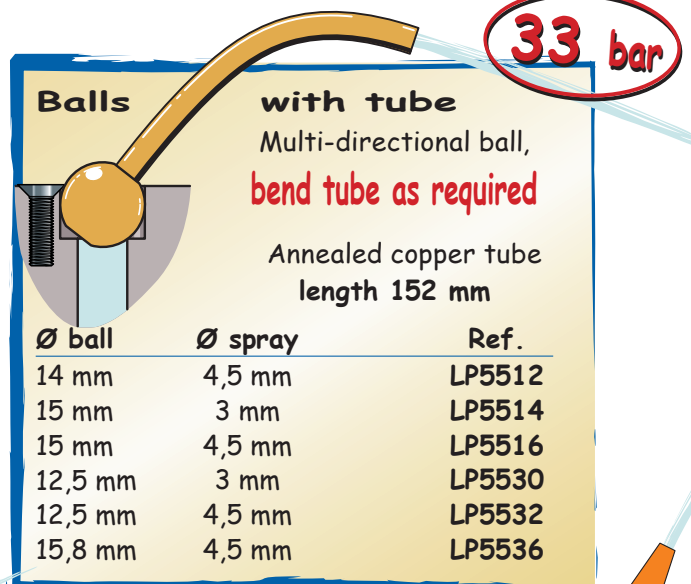
brass ball tapping	length	Ref.
M 4 x .7	35 mm	SB9710
M 5 x .8	40 mm	SB9720
M 6 x 1.0	50 mm	SB9730

### Balls

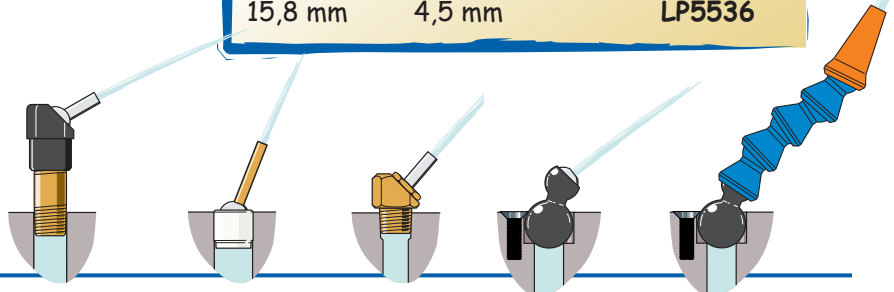
### with tube

Multi-directional ball,  
bend tube as required

Annealed copper tube  
length 152 mm



Ø ball	Ø spray	Ref.
14 mm	4,5 mm	LP5512
15 mm	3 mm	LP5514
15 mm	4,5 mm	LP5516
12,5 mm	3 mm	LP5530
12,5 mm	4,5 mm	LP5532
15,8 mm	4,5 mm	LP5536



# COOLANT NOZZZ

KOPAL

**Multi-directional nozzles with adjustable spray**

Acetal nozzle **7 bar**

Thread	Angle / Rotation	Ref.
1/4	90° / 360°	MJ0117
1/8 NPT/BSPT		MJ3010

**Threaded nozzles NPT / BSPT**

**High Pressure**

**100 bar**

Brass body, stainless steel ball and tube  
With **multi-directional tube**

Thread	Ø - length	Ref.
1/8	1 x 6,35 mm	PM4010
1/8	2,2 x 6,35 mm	PM6010
1/8	3 x 6,35 mm	PM4038
1/8	3 x 32 mm	PM4042



**Multi-directional nozzles for tapped holes**

**10 Bar**

Thread	Ø nozzle	Ref.
1/8	4 mm	PJ0510
1/4	4 mm	PJ0530



**Ball nozzles**  
NPT / BSPT

Thread	Ø spray	Ref.
1/8	2,8 mm	TJ0100
1/4	4 mm	TJ0101
3/8	5,6 mm	TJ0102

	Ø - length	Ref.
1/8	2,8 x 6,35 mm	TJ0130
1/8	4 x 12,7 mm	TJ0136
1/8	3,8 x 32 mm	TJ0138
1/4	4 x 12,7 mm	TJ0148
1/4	3,8 x 32 mm	TJ0150

Tapping	Ø spray	Ref.
1/8	2,8 mm	CJ7510
1/4	4 mm	CJ7530
3/8	5,6 mm	CJ7544

	Ø - length	Ref.
1/8	2,8 x 6,35 mm	CJ7512
1/8	4 x 12,7 mm	CJ7518
1/4	4 x 12,7 mm	CJ7532
1/4	3,8 x 32 mm	CJ7534

**10 bar**

**Close nipples**  
brass NPT / BSPT  
For ball nozzles ref. TJ- and TC-

Thread	Length	Ref.
1/8	20 mm	DF8705
1/4	22 mm	DF8710
3/8	25 mm	DF8715

**Long nipples**

Thread	Length	Ref.
1/8	38 mm	DF8720
1/4	38 mm	DF8725
3/8	38 mm	DF8730

**Adaptors**

Thread / Tapping	Length	Ref.
1/8 - 1/8	20 mm	DF8745
1/4 - 1/4	24 mm	DF8750
3/8 - 3/8	26 mm	DF8755