

Injection Mould Cooling Components



Injection Mould Cooling Components / Systems:

Cooling of Moulds; for providing suitable cooling, features of moulded material, material shape, mould structure and quantity of heat to be transferred should be known. In cooling with water, cooling channels should not be very close to mould surface. Otherwise, temperature changes can cause thermal shocks on mould surface. Cooling channels should not be so far from mould surface, because in this case, heat transfer should not be provided sufficiently.

Cooling channels may be created 2/3 times far of mould plate channel diameters. Water flowing should be provided to keep mould in certain temperature.

Effect of Cooling Time on Mould:

Injection Errors:

- Tensile - Distortion
- Sinking - Fragility
- Cracking - Shrinkage
- Visible ejector traces
- Tension whitening

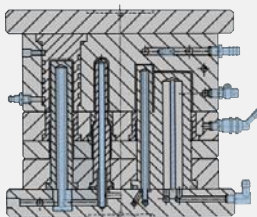
Solution Methods:

Cooling period should be increased and cooling system / channels should be controlled.

Quick-release Couplings:

Quick-release Couplings and fittings compatible with mould cooling systems and injection machines are commonly used in plastic - metal injection moulds. To use in water - air and oil flowing, different types are available and when desired mounting / demounting facilities on mould, Quick-release Couplings should be used.

For accurate and efficient cooling in mould cooling system, to choose Coupling / Fitting System to be most suitable to the temperature of your mould and mounting area in the correct way is important. Wide options related to this systems are presented at following pages. We have custom-made production service in all our Cooling Components.

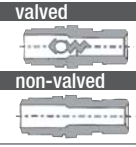


Quick-release Couplings Series: 590

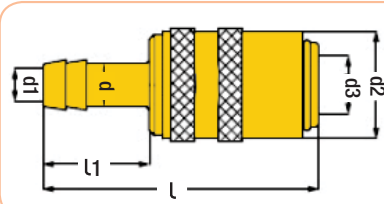
Fields of Usage: It is used in cooling systems of plastic, zinc - aluminium diecasting moulds and steam lines - hot oil circuits, water, washing & cooling systems of machines.

Material Info:

Body & Cover Valve = Brass / **O-Ring** = Viton
Spring - Ring & Ball = Stainless / **Coupling Fitting** = Brass
Operating Pressure = 0 - 15 bar / **Flow Capacity** = 9 mm
Operating Temperature = -5 / +180°

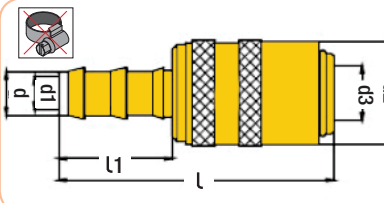


Valved: Controlled water flow is provided. When fitting is removed, water flow is closed in coupling.
Non-valved: When fitting is removed, open circuit.



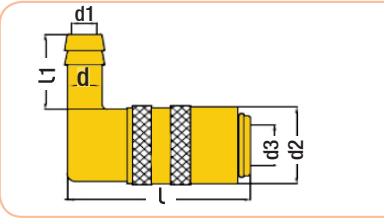
Quick-release Coupling Code: **590HG** (non-valved)
 Code: **590HGB** (valved)

Order Example	d	d1	d2	d3	L	L1
Code x 10	10	7.5	23	13	59	23
Code x 13	13	10				



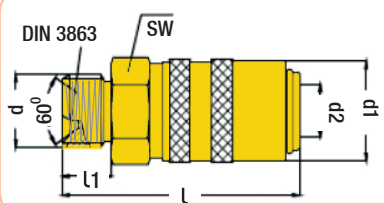
Quick-release Coupling Code: **590FG** (non-valved)
 Code: **590FGB** (valved)

Order Example	d	d1	d2	d3	L	L1
Code x 10	10	7.5	23	13	64	28
Code x 13	13	10				



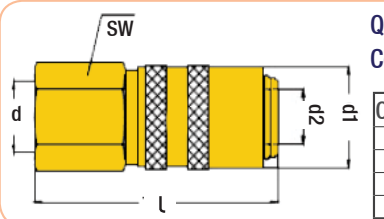
Quick-release Coupling / 90° Code: **590LG** (non-valved)
 Code: **590LGB** (valved)

Order Example	d	d1	d2	d3	L	L1
Code x 10	10	7.5	23	13	52	29
Code x 13	13	10				



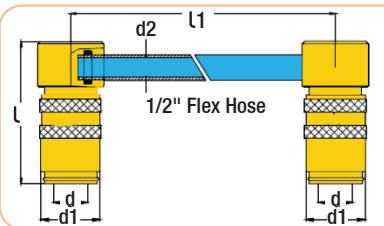
Quick-release Coupling / Male Code: **590EG** (non-valved)
 Code: **590EGB** (valved)

Order Example	d	d1	d2	L	L1	SW
Code x 13	BSP 1/4"					21
Code x 17	BSP 3/8"					21
Code x 21	BSP 1/2"	23	13	52		21
Code x 16M	M16x1.5				10	



Quick-release Coupling / Female Code: **590DG** (non-valved)
 Code: **590DGB** (valved)

Order Example	d	d1	d2	L	SW
Code x 13	BSP 1/4"				21
Code x 17	BSP 3/8"	23	13	52	21
Code x 21	BSP 1/2"				24
Code x 16M	M16x1.5				21



Diverting Coupling Bridge Code: **590KG** (non-valved)
 Code: **590KGB** (valved)

Order Example	d	d1	d2	L	L1
Code x 125					125
Code x 250	13	23	10x1	52	250
Code x 500					500