Injection Mould 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 = $-5 / +180^{\circ}$



Valved: Controlled water flow is provided. When fitting is removed, water flow is closed in coupling.

Non-valved: When fitting is removed, open circuit.

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 transfered 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.

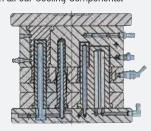
Solution Methods:

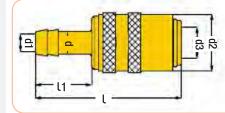
Cooling period should be increased and cooling system / channels should be controlled.

Quick-release Couplings:

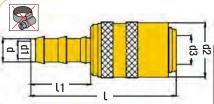
Quick-release Couplings and fittings compatible with mould cooling systems and injection machines are commonly used in plastic - metal injection moulds. To use in water - air and oil flowing, different types are available and when desired mounting / demounting facilities on mould, Quick-release Couplings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

For accurate and efficient cooling in mould cooling system, to choose Couplig / 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.

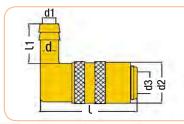




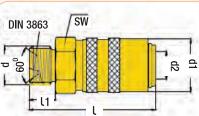
Quick-release	Code:	590H	IG	(noı	n-val	ved)
Coupling	Code:	590H	IGB		(val	ved)
Order Example	d	d1	d2	d3	ι	เา
Code x 10	10	7.5	22	13	ΕO	23
Code x 13	13	10	23		59	



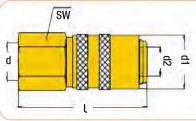
	Quick-release	Code:	590F	-G	(no	n-val	ved)
L	Coupling	Code: 590FGB					
г С	Order Example	d	d1	d2	d3	ι	t1
	Code x 10	10	7.5	23	13	64	20
	Code x 13	13	10				28



Quick-release	Code:	590L	_G	(nor	ı-val	red)
Coupling / 90°	ng / 90° Code: 590LGB		_GB	(valved)		
Order Example	d	d1	d2	d3	ι	เา
Code x 10	10	7.5	22	12	52	20
Code x 13	13	10	23	13		29

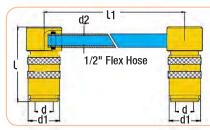


(Quick-release	Code: 5 9	90E	G	(nor	ı-valı	red)
(Coupling / Male	Code: 5 9	90E	GB		(valv	red)
	Order Example	d	d1	d2	ι	l1	SW
	Code x 13	BSP 1/4"					
	Code x 17	BSP 3/8"	23	13	E2	9	21
	Code x 21	BSP 1/2"	23	13	52		21
	Code x 16M	M16x1.5				10	



	Quick-release	Code:	590D	G	(non-v	/alved)
	Coupling / Fema	ale Code:	590D	GB	(1	/alved)
3	Order Example	d	d1	d2	ι	SW
	Code x 13	BSP 1/4"				21
	Code x 17	BSP 3/8"	23	12	E2	21
	Code x 21	BSP 1/2"	23	13	52	24
	Code x 16M	M16x1.5				21

Diverting



Coupling Bridge	Code	: 590	KGB	(valved)		
Order Example	d	d1	d2	ι	เป	
Code x 125					125	

Code: 590KG (non-valved)

Order Example	d	d1	d2	l	เป
Code x 125					125
Code x 250	13	23	10x1	52	250
Code x 500					500

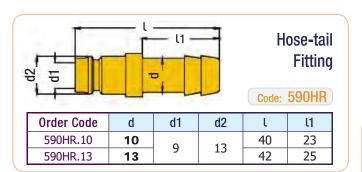


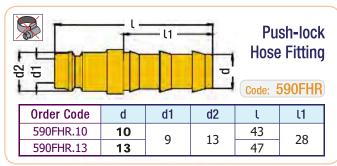
Fittings

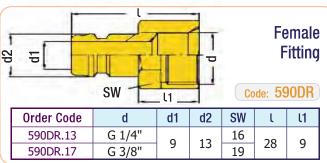
Series: 590

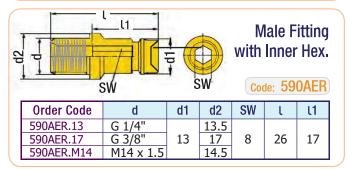
Compatible with Series-590 Quick-release Couplings

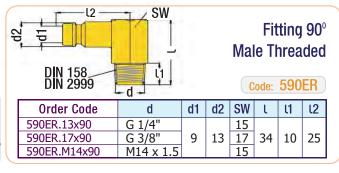
Material = Brass Operating Pressure = 0 - 15 bar Flow Capacity = 9 mm Operating Temperature = -5 / +180°





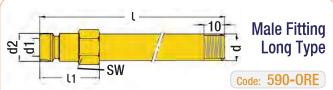








Order Code	d	d1	d2	SW	ι	l1
590-ORE.10	G 1/8"			14		
590-ORE.13	G 1/4"			14		
590-ORE.17	G 3/8"			17		
590-ORE.21	G 1/2"			21		
590-ORE.M8	M8 x 1.25	9	12		29	10
590-ORE.10.1	M10 x 1.5	9	13	14	29	10
590-ORE.M10	M10 x 1.0			17		
590-ORE.M12	M12 x 1.75					
590-ORE.M14	M14 x 1.5			21		
590-ORE.M16	M16 x 1.5			21		



Note: Our custom-made production is available as per request.

Order Code	d	d1	d2	SW	ι	l1
590-ORE.M8.60					60	
590-ORE.M8.80					80	
590-ORE,M8,100	M8 x 1.25	9	12	14	100	20
590-ORE.M8.120	MO X 1.25	9	13	14	120	20
590-ORE.M8.150					150	
590-ORE.M8.200					200	
590-ORE.M10.60					60	
590-ORE.M10.80					80	
590-ORE.M10.100	M10 x 1.5	9	12	14	100	20
590-ORE.M10.120	MITO X 1.5	9	13	14	120	20
590-ORE.M10.150]				150	
590-ORE.M10.200					200	
590-ORE.M12.60				14	60	
590-ORE.M12.80					80	20
590-ORE.M12.100	M12 x 1.75	9	13		100	
590-ORE.M12.120	MIZ X 1./5	9			120	
590-ORE.M12.150					150	
590-ORE.M12.200					200	
590-ORE.10.60					60	20
590-ORE.10.80					80	
590-ORE.10.100	G 1/8"	9	13	14	100	
590-ORE, 10, 120	G 1/6	9	13	14	120	
590-ORE.10.150					150	
590-ORE.10.200					200	
590-ORE.13.60					60	
590-ORE, 13,80					80	
590-ORE.13.100	C 1/4"	9	12	14	100	20
590-ORE.13.120	G 1/4"	9	13	13 14	120	20
590-ORE.13.150					150	
590-ORE, 13, 200					200	

