

# **COUPLINGS Series ICS**

# QUICK-FIT COUPLINGS FOR MOULD CONDITIONING

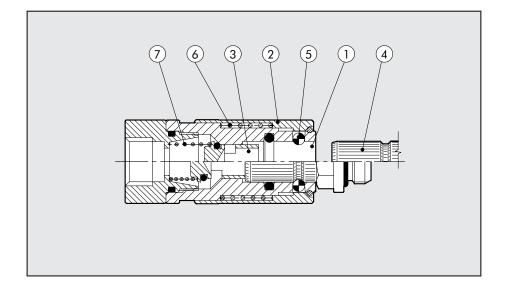
The mould conditioning coupling was specifically designed to speed up and facilitate the replacement of moulds in injection moulding machines. Rapid mould changeover can be easily obtained by fitting a female body at the end of the pipes conveying the thermoregulating fluid and a male coupling to the moulds. With this configuration, each mould can be connected and disconnected from the thermoregulation circuit rapidly. The presence of a female coupling with a safety valve on the pipework prevents the outflow of fluid when coupling with or releasing from the mould.



TECHNICAL DATA		501 V with valve	401 V with valve	503 V without valve	403 V without valve					
Threaded coupling		1/8	1/4	1/8	1/4					
Maximum temperature at: 1.8 MPa; 18 bar; 261 psi	°F	.,, 0		248	., .					
	°C	+120								
Minimum temperature at: 1.8 MPa; 18 bar; 261 psi	°F	-68								
	°C		-2							
Maximum pressure	MPa		1	,8						
	bar			8						
To a of a column	psi		20							
Type of gasket			FKM	/FPM						

#### COMPONENTS

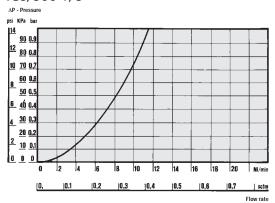
- ① Body: nickel-plated brass
- ② Ring nut: nickel-plated brass
- ③ Valve: nickel-plated brass
- 4 Coupling: nickel-plated brass
- (5) Ball: stainless steel
- 6 Ring nut spring: AISI 302
- 7 Valve spring: AISI 302.



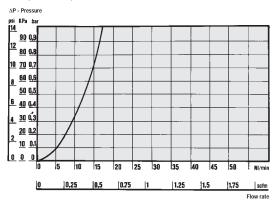


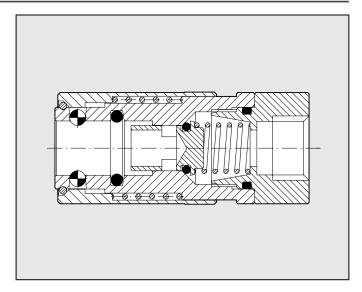
#### ICS WATER FLOW CHARTS WITH SAFETY VALVE

#### ICS/500 1/8"



#### ICS/400 1/4"

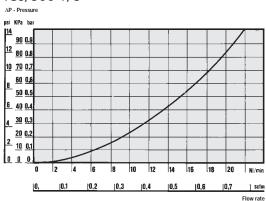




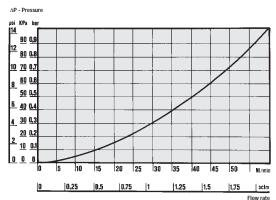
WITH SAFETY VALVE - The female body with safety valve prevents the outflow of thermoregulator fluid when coupling with or releasing from the mould.

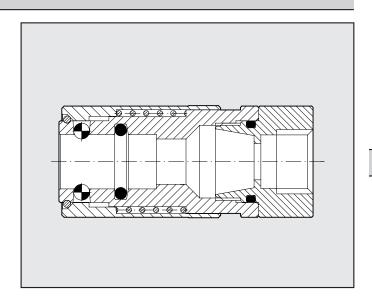
#### ICS WATER FLOW CHARTS WITHOUT SAFETY VALVE

# ICS/500 1/8"



### ICS/400 1/4"

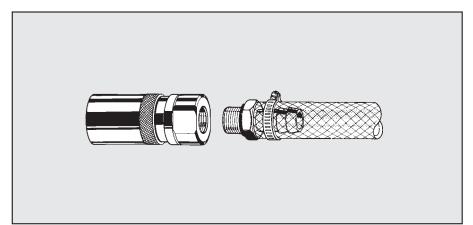




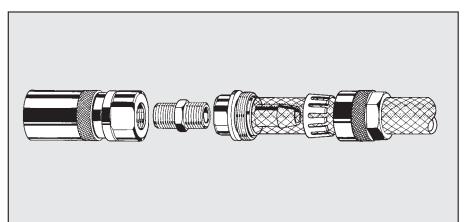
WITHOUT SAFETY VALVE - A version having a female body without a safety valve is available for when a high flow rate is required. This version allows a greater thermoregulator fluid flow rate but does not act as a fluid check valve when coupling with or releasing from the mould.



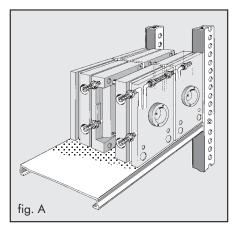
#### **GENERAL FEATURES**

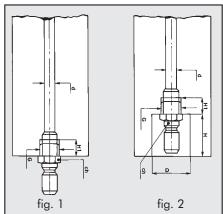


Female body plus conventional hose fitting (pipe locked with metal circlip).



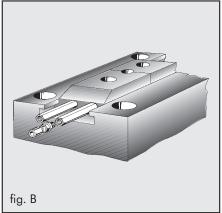
Female body plus self-locking hose fitting patented by Metal Work. When the outer ring nut is tightened, the gripper locks on the pipe.

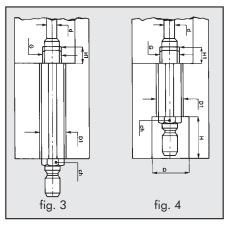




The male fitting should be coupled with the mould so that it remains embedded (Fig. 2-4). This saves space and protects the coupling. The mould has no projecting parts, which would occupy more space on the storage shelving (Fig. A).

d	G	H1	ch	D	Н	
	1/8					
7/9	1/4	9	14	26	30	





The Extension (see A25 fittings) is available as an accessory. It is extremely useful when parts inside the moulds need to be thermoregulated or when the presence of trucks makes it impossible to connect the moulds to the rubber pipe. (Fig. B).

d	G	H1	ch	D	Н	D1	
4/6	1/8	7	13	20	23	17	
7/9	1/4	9	14	26	30	21	

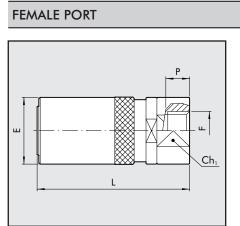


# OVERALL DIMENSIONS AND ORDERING CODES

Code

Code

Ref.



Code	Ref.	F	valve	CH1	Р	L	Е
0601040	501V	1/8	yes	16	7.0	45.0	19.0
0501040	401V	1/4	yes	21	8.0	56.0	25.0
0600040	503V	1/8	no	16	7.0	45.0	19.0
0500040	403V	1/4	no	21	8.0	56.0	25.0

# MALE COUPLING

0602001	511	1/8	13	6.0	28.5	15.0	2031	
0502001	411	1 / /	1.4	8 U	27 0	10 0	2012	

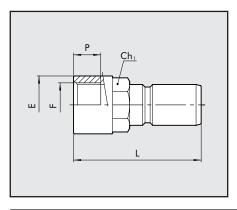
Ε

Ε

O-ring FKM/FPM

CH1

# FEMALE COUPLING



0602002	512	1/8	12	7.0	28.0	14
0502002	412	1/4	14	8.0	37.5	17

CH1

F

Ref.

# **NOTES**