

QUICK-FIT COUPLING FOR MOULD CONDITIONING SERIES ICS

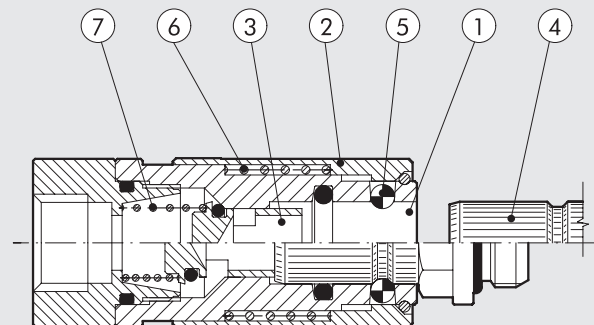
The mould conditioning coupling was specifically designed to speed up and facilitate the replacement of moulds in injection moulding machines. Rapid mould changeover can be easily obtained by fitting a female body at the end of the pipes conveying the thermoregulating fluid and a male coupling to the 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			+248	
			+120	
			-68	
Minimum temperature at: 1.8 MPa; 18 bar; 261 psi			-20	
			1.8	
Maximum pressure			18	
			261	
Type of gasket			FKM/FPM	

COMPONENTS

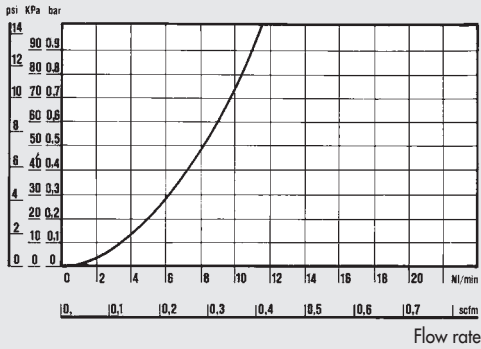
- ① Body: nickel-plated brass
- ② Ring nut: nickel-plated brass
- ③ Valve: nickel-plated brass
- ④ Coupling: nickel-plated brass
- ⑤ Ball: stainless steel
- ⑥ Ring nut spring: AISI 302
- ⑦ Valve spring: AISI 302



ICS WATER FLOW CHARTS WITH SAFETY VALVE

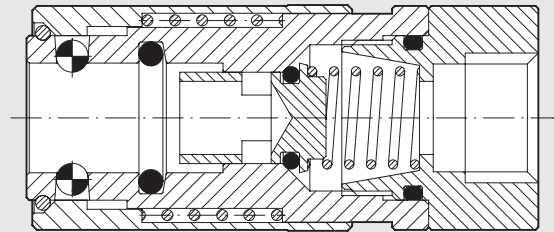
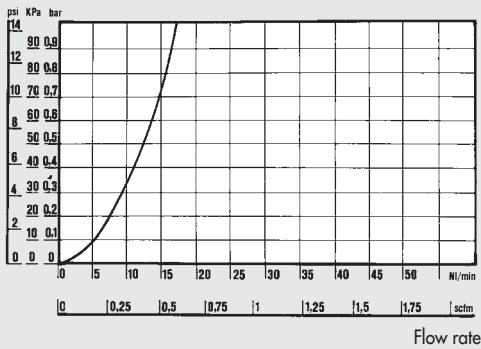
ICS/500 1/8"

ΔP - Pressure



ICS/400 1/4"

ΔP - Pressure



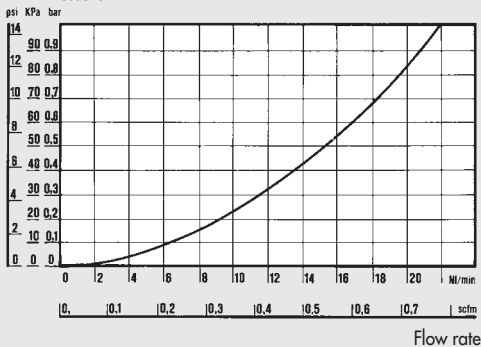
WITH SAFETY VALVE

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

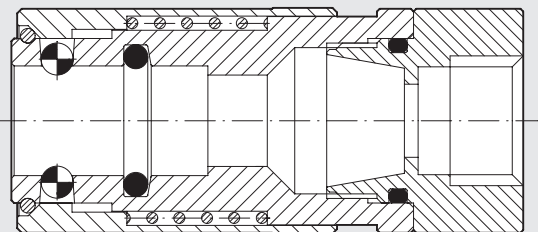
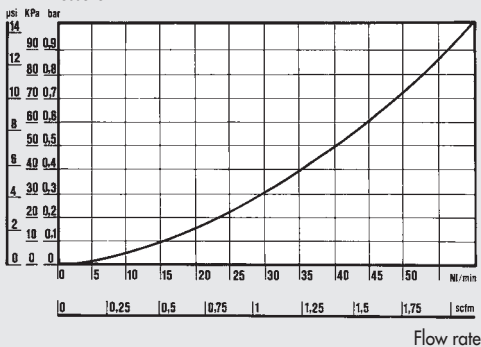
ICS/500 1/8"

ΔP - Pressure



ICS/400 1/4"

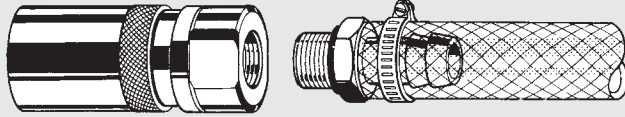
ΔP - Pressure



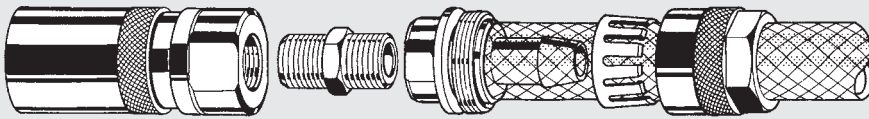
WITHOUT SAFETY VALVE

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.

FIG. A

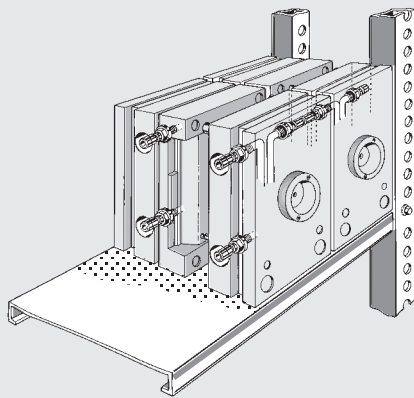


FIG. 1

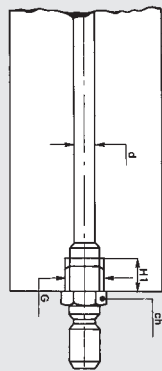
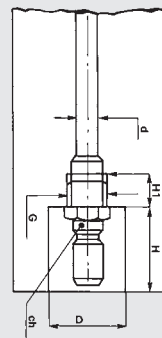


FIG. 2



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	H
4/6	1/8	7	13	20	23
7/9	1/4	9	14	26	30

FIG. B

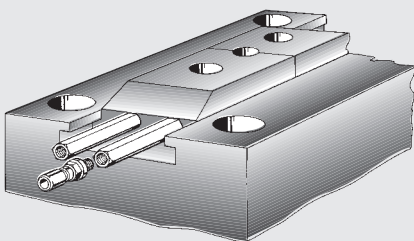


FIG. 3

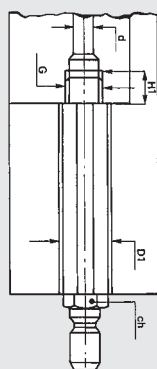
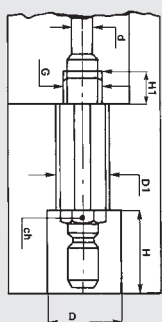


FIG. 4

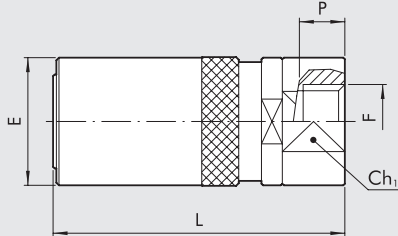


The Extension (see A25 fittings) is available as an accessory. It is extremely useful when parts inside the moulds need to be thermoregulated or when the presence of trucks makes it impossible to connect the moulds to the rubber pipe. (Fig. B).

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

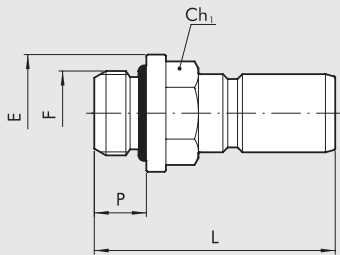
OVERALL DIMENSIONS AND ORDERING CODES

FEMALE PORT



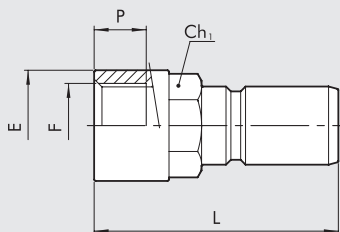
Code	Ref.	F	Safety valve	Ch1	P	L	E
0601040	501V	1/8	yes	16	7.0	45.0	19.0
0501040	401V	1/4	yes	21	8.0	56.0	25.0
0600040	503V	1/8	no	16	7.0	45.0	19.0
0500040	403V	1/4	no	21	8.0	56.0	25.0

MALE COUPLING



Code	Ref.	F	Ch1	P	L	E	O-ring FKM/FPM
0602001	511	1/8	13	6.0	28.5	15.0	2031
0502001	411	1/4	14	8.0	37.0	18.0	2043

FEMALE COUPLING



Code	Ref.	F	Ch1	P	L	E
0602002	512	1/8	12	7.0	28.0	14
0502002	412	1/4	14	8.0	37.5	17

NOTES