

Mold Coolant-Line Quick Couplers

TOMCO Series MC200, MC300 & MC500

OPERATING PRESSURE:
 200 psig (14.06 Kg/sq. cm)
WORK RANGE:
 SILICONE: - 90°F to + 400°F (- 68°C to + 205°C)
 VITON: - 15°F to + 400°F (-26°C to + 204°C)

TOMCO coolant couplers are engineered for optimum speed and performance in connecting coolant lines to molds used for thermoplastic, thermosetting, blow molding, diecasting and on other types of tooling and equipment utilizing a constant fluid flow pumped through cooling channels.

The quick connect feature of TOMCO couplers greatly simplifies installation and removal of molds. It dramatically reduces machinery down time.

To meet virtually any hook-up requirements, TOMCO coolant couplers are supplied in three configurations: straight stem, 90° stem and 45° stem.

Couplers are precision machined from corrosion resistant brass and are fitted with either regular hose barbs or barbs for "push-on" type hose (indicated by a suffix "P" on the part number). The "push-on" type hose and barb combination eliminates the need for clamps for a secure hose-to-barb assembly.

TOMCO couplers are available as straight-through or valved type (indicated by a suffix "V" on the part number). This valve prevents fluid loss through the coupler when it is disconnected.

Standard seals are manufactured from a special silicone compound that is resistant to the destructive effects of water, glycol (anti-freeze) or air. Viton is available for use with oil or other coolants.

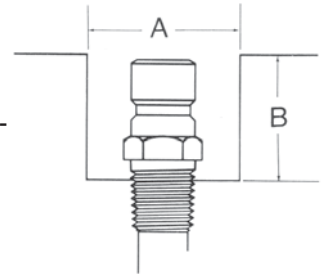
TOMCO Series MC200, MC300 and MC500 male plugs are designed to be threaded directly into mold coolant ports.



MALE PLUG (BRASS)

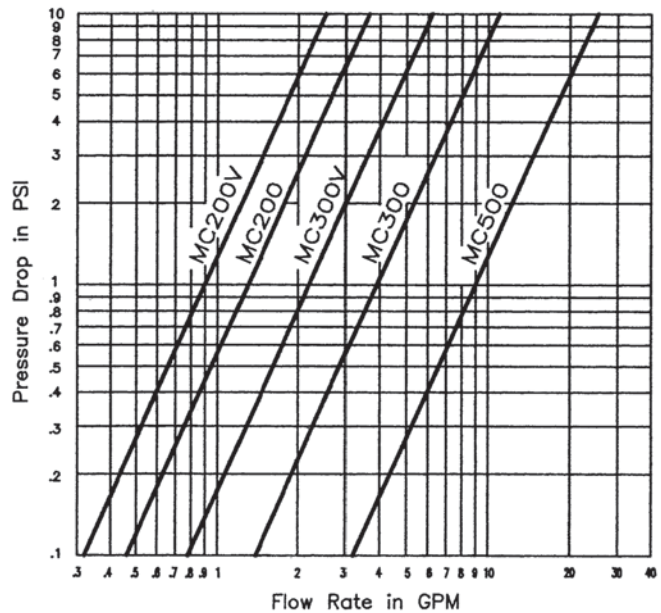
1/4" BASIC SIZE		A	B
1/8" NPTF	MP251	0.69	0.69
1/4" NPTF	MP252	0.84	0.94
3/8" NPTF	MP253	1.00	0.97
3/8" BASIC SIZE			
1/4" NPTF	MP352	1.00	0.94
3/8" NPTF	MP353	1.00	1.13
1/2" NPTF	MP354	1.81	1.25
1/2" BASIC SIZE			
1/2" NPTF	MP554	1.25	1.50
3/4" NPTF	MP556	1.50	1.56

Protective counterbored holes in the mold ports permit these plugs to be mounted below the surface greatly simplifying handling and storage of molds. TOMCO male plugs are manufactured of corrosion resistant brass. Female plugs are intended for use on pipe nipples when the connection needs to be made outside the mold. They are machined from alloy steel.



FLOW RATE

MC Series (200, 300, & 500)
 Test Fluid: Water @ 68°F



FEMALE PLUG (STEEL)

1/8" NPTF	MP251F
1/4" NPTF	MP252F
3/8" NPTF	MP253F
3/8" BASIC SIZE	
1/4" NPTF	MP352F
3/8" NPTF	MP353F
-	-
1/2" BASIC SIZE	
1/2" NPTF	MP554F
3/4" NPTF	MP556F

TOMCO

Mold Coolant

Brass Extension Plugs

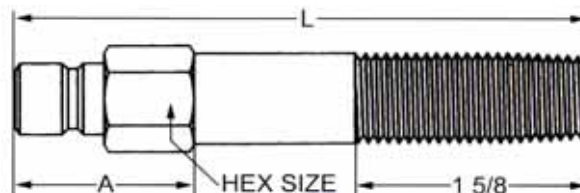
SERIES MC200 & MC300

BRASS EXTENSION PLUGS



ONE PIECE CONSTRUCTION ASSURES RELIABLE ASSEMBLY AND POSITIVE REMOVAL. END THREADS ARE STANDARD TAPERED NPT FOR RELIABLE INSTALLATION AND LEAK FREE PERFORMANCE.

MC200				
1/8 PIPE EXTENSIONS				
NUMBER	L	PIPE SIZE	HEX SIZE	A
MP251-250	2.50	1/8 NPT	7/16	.69
MP251-400	4.00	1/8 NPT	7/16	1.00
MP251-550	5.50	1/8 NPT	7/16	1.00
MP251-700	7.00	1/8 NPT	7/16	1.00
MP251-850	8.00	1/8 NPT	7/16	1.00
1/4 PIPE EXTENSIONS				
MP252-250	2.50	1/4 NPT	9/16	.88
MP252-400	4.00	1/4 NPT	9/16	1.25
MP252-550	5.50	1/4 NPT	9/16	1.25
MP252-700	7.00	1/4 NPT	9/16	1.25
MP252-850	8.50	1/4 NPT	9/16	1.25
3/8 PIPE EXTENSIONS				
MP253-250	2.50	3/8 NPT	11/16	1.00
MP253-400	4.00	3/8 NPT	11/16	1.25
MP253-550	5.50	3/8 NPT	11/16	1.25
MP253-700	7.00	3/8 NPT	11/16	1.25
MP253-850	8.50	3/8 NPT	11/16	1.25
MC300				
1/4 PIPE EXTENSIONS				
MP352-250	2.50	1/4 NPT	9/16	.88
MP352-400	4.00	1/4 NPT	9/16	1.25
MP352-550	5.50	1/4 NPT	9/16	1.25
MP352-700	7.00	1/4 NPT	9/16	1.25
MP352-850	8.50	1/4 NPT	9/16	1.25
3/8 PIPE EXTENSIONS				
MP353-250	2.50	3/8 NPT	11/16	1.00
MP353-400	4.00	3/8 NPT	11/16	1.25
MP353-550	5.50	3/8 NPT	11/16	1.25
MP353-700	7.00	3/8 NPT	11/16	1.25
MP353-850	8.50	3/8 NPT	11/16	1.25
1/2 PIPE EXTENSIONS				
MP354-250	2.50	1/2 NPT	7/8	1.13
MP354-400	4.00	1/2 NPT	7/8	1.50
MP354-550	5.50	1/2 NPT	7/8	1.50
MP354-700	7.00	1/2 NPT	7/8	1.50
MP354-850	8.50	1/2 NPT	7/8	1.50



Mold Coolant-Line Quick Couplers

SERIES MC200, MC300 & MC500

D-M-E, PARKER and FOSTER INTERCHANGE

Sleeve Lock is available with all sizes of non-valved couplers.



1/4" BASIC SIZE, BRASS

STRAIGHT THROUGH (Non-Valved)				
FITS HOSE I.D.	Straight Stem	90° Stem	45° Stem	Body Only
1/4"	MC204	MC214	MC224	MC200 (1/8" FPT)
1/4" (Push-On)	MC204P	MC214P	MC224P	
5/16"	MC205	MC215	MC225	
3/8"	MC206	MC216	MC226	
3/8" (Push-On)	MC206P	MC216P	MC226P	

VALVED				
FITS HOSE I.D.	Straight Stem	90° Stem	45° Stem	Body Only
1/4"	MC204V	MC214V	MC224V	MC200V (1/8" FPT)
1/4" (Push-On)	MC204VP	MC214VP	MC224VP	
5/16"	MC205V	MC215V	MC225V	
3/8"	MC206V	MC216V	MC226V	
3/8" (Push-On)	MC206VP	MC216VP	MC226VP	

3/8" BASIC SIZE, BRASS

STRAIGHT THROUGH (Non-Valved)				
FITS HOSE I.D.	Straight Stem	90° Stem	45° Stem	Body Only
3/8"	MC306	MC316	MC326	MC300 (1/4" FPT)
3/8" (Push-On)	MC306P	MC316P	MC326P	
1/2"	MC308	MC318	MC328	
1/2" (Push-On)	MC308P	MC318P	MC328P	
1/2" (High Flow)	MC308HF	MC318HF	MC328HF	MC300HF (3/8" FPT)

VALVED				
FITS HOSE I.D.	Straight Stem	90° Stem	45° Stem	Body Only
3/8"	MC306V	MC316V	MC326V	MC300V (1/4" FPT)
3/8" (Push-On)	MC306VP	MC316VP	MC326VP	
1/2"	MC308V	MC318V	MC328V	
1/2" (Push-On)	MC308VP	MC318VP	MC328VP	

1/2" BASIC SIZE, BRASS

STRAIGHT THROUGH (Non-Valved)				
FITS HOSE I.D.	Straight Stem	90° Stem	45° Stem	Body Only
1/2"	MC504	MC514	MC524	MC500 (1/2" FPT)
1/2" (Push-On)	MC504P	MC514P	MC524P	
3/4"	MC506	MC516	MC526	

High Flow Capability in MC Series - The 3/8" size MC300HF coupler utilizes a 3/8" Fe Pipe fitting port, rather than a standard 1/4" Fe Pipe port, to increase fluid volume.

Compared to standard 1/4" ported MC300 couplers:

- MC300HF yields 37% greater fluid volume.
- MC308HF, MC318HF, and MC328HF yield 17% greater fluid volume.

Continuing manufacturing and engineering advances may cause changes to the data shown.