

SECTION C

COOLING / WATER CONNECTORS

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BRASS PLUG BAFFLES



- Solid Brass Blades
- Flush Seal Type Plugs - 7/8" Taper
- Baffle Orientation Slot Provided
- Available Upon Request
 - Longer Lengths
 - Special Sizes

Catalog Number	Plug Size (NPT)	Overall Length (In.)	Blade Width (-.005 -.015)	Blade Thickness	Hex Size
BB06-4	1/16	4	1/4	.05	5/32
BB06-8	1/16	8	1/4	.05	5/32
BB12-4	1/8	4	5/16	1/16	3/16
BB12-8	1/8	8	5/16	1/16	3/16
BB25-5	1/4	5	7/16	3/32	1/4
BB25-10	1/4	10	7/16	3/32	1/4
BB37-6	3/8	6	9/16	3/32	5/16
BB37-12	3/8	12	9/16	3/32	5/16
BB50-8	1/2	8	11/16	3/32	3/8
BB50-16	1/2	16	11/16	3/32	3/8
BB75-12	3/4	12	15/16	1/8	9/16
BB75-20	3/4	20	15/16	1/8	9/16
BB100-16	1	16	1-1/8	1/8	5/8
BB100-24	1	24	1-1/8	1/8	5/8

SPIRAL PLUG BAFFLES



- Solid Brass Blades
- Flush Seal Type Plugs - 7/8" Taper
- Spiral design generates turbulent cooling action and keeps blade centered in waterline providing maximum flow and improved cooling

Catalog Number	Plug Size (NPT)	Overall Length (In.)	Straight Length (In.)	Blade Width (-.005 -.015)	Blade Thickness	Drill Diameter
SB06-4	1/16	4	2	1/4	.05	1/4
SB06-8	1/16	8	4	1/4	.05	1/4
SB12-4	1/8	4	2	5/16	1/16	5/16
SB12-8	1/8	8	4	5/16	1/16	5/16
SB25-5	1/4	5	2	7/16	3/32	7/16
SB25-10	1/4	10	4	7/16	3/32	7/16
SB37-6	3/8	6	2	9/16	3/32	9/16
SB37-12	3/8	12	4	9/16	3/32	9/16
SB50-8	1/2	8	3	11/16	3/32	11/16
SB50-16	1/2	16	5	11/16	3/32	11/16
SB75-12	3/4	12	4	15/16	1/8	15/16
SB75-20	3/4	20	6	15/16	1/8	15/16
SB100-16	1	16	5	1-1/8	1/8	1-1/8
SB100-24	1	24	8	1-1/8	1/8	1-1/8

BRASS BLADE MATERIAL



- Solid Brass Material
- Longer Lengths Available

Catalog Number	Plug Size (NPT)	Overall Length (In.)	Blade Width (-.005 -.015)	Blade Thickness
BBM06	1/16	36	1/4	.050
BBM12	1/8	36	5/16	.050
BBM25	1/4	36	7/16	.080
BBM37	3/8	36	9/16	.090
BBM50	1/2	36	11/16	.090
BBM75	3/4	36	15/16	.090
BBM100	1	36	1-1/8	.105

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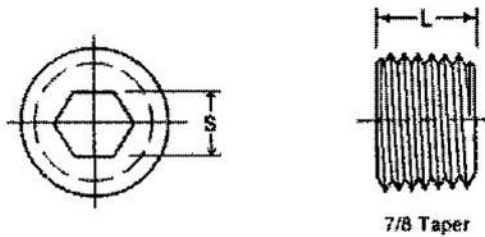
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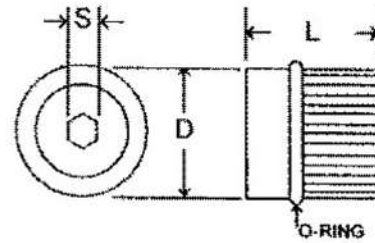
BRASS PRESSURE PLUGS



High pressure seal for steam, water or oil in dies and molds

Catalog Number	Nominal Size	Length L	Hex Size S	Threads Tap Inch
BP-06	1/16	.250	5/32	27
BP-12	1/8	.250	3/16	27
BP-25	1/4	.406	1/4	18
BP-37	3/8	.406	5/16	18
BP-50	1/2	.531	3/8	14
BP-75	3/4	.531	9/16	14
BP-100	1	.656	5/8	11-1/2

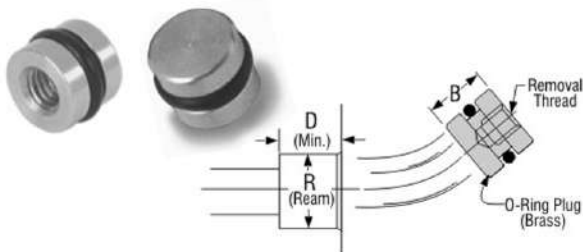
THREADLESS BRASS PRESSURE PLUGS



No tap pressure plug with an expanding O-ring
72 PSI

Catalog Number	Nominal Size	Length L	Hex Size S	Drill Size D
TP-12	1/8	.50	5/64	11/32
TP-12-OS	1/8	.50	5/64	23/64
TP-25	1/4	.56	1/8	7/16
TP-25-OS	1/4	.56	1/8	29/64
TP-37	3/8	.62	1/8	9/16
TP-37-OS	3/8	.62	1/8	37/64
TP-50	1/2	.62	1/8	11/16
TP-50-OS	1/2	.62	1/8	45/64

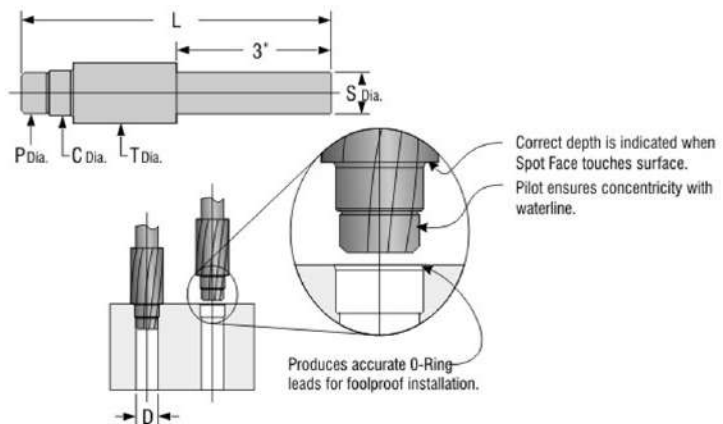
O-RING PLUGS



- O-Ring Plugs are used when backed up by other inserts, holder block, etc.
- Require less space than NPT pipe plugs. Less interference in tight spaces
- For easy installation, use O-Ring Plug counterbores
- Standard Buna O-Ring provides seal to 210°
Viton O-Rings and Quad-Rings available

Catalog Number	Ream Size R	Length B (+.000 -.005)	Min. Depth D (+.005 -.000)	Removal Thread Size
OR-06	.281	1/4	.250	6-32
OR-12	.375	5/16	.312	10-32
OR-25	.500	5/16	.312	10-32
OR-38	.625	7/16	.437	1/4-20
OR-50	.750	1/2	.500	1/4-20
OR-75	1.000	5/8	.625	3/8-16
OR-100	1.187	5/8	.625	3/8-16

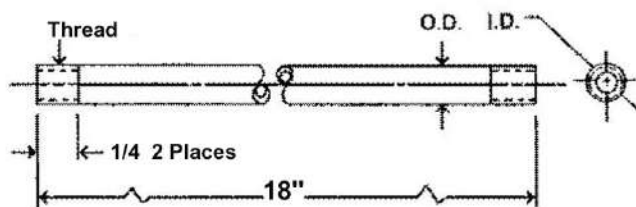
O-RING PLUG COUNTERBORES



Catalog Number	Pilot Size P	Water Line Dia. D	C'Bore Size C	Spot Face Size T	Shank Size S	Length L
ORC-06	.247	1/4	.281	.500	1/2	4
ORC-12	.340	11/32	.375	.625	5/8	4
ORC-25	.432	7/16	.500	.750	3/4	4-1/8
ORC-38	.557	9/16	.625	.875	3/4	4-5/16
ORC-50	.682	11/16	.750	1.000	3/4	4-3/8
ORC-75	.932	15/16	1.000	1.250	3/4	4-1/2
ORC-100	1.120	1-1/8	1.187	1.500	3/4	4-1/2

BUBBLER TUBES

**** Brass or Stainless Steel Material ****



Threaded Both Ends

Additional lengths are available. Call for details.

Brass Catalog Number	O.D.	I.D.	Thread	Stainless Catalog Number
-	.093	.078	NONE	SBT-09
BBT-12	.125	.069	5-44	SBT-12
BBT-19	.190	.126	10-32	SBT-19
BBT-25	.250	.170	1/4-28	SBT-25
BBT-31	.312	.214	5/16-24	SBT-31
BBT-43	.437	.307	7/16-20	SBT-43

BRASS DIVERTING PLUGS AND ROD



Re-direct water and/or steam lines in molds and dies.

Catalog Number	Diameter (+OR -.002)	Length (Inches)
BRASS PLUGS		
BDP-31	5/16	.62
BDP-43	7/16	.62
BDP-56	9/16	.75
BDP-68	11/16	.87
BDP-93	15/16	1.25
BRASS ROD		
BR-12	1/8	18

HIGH FLOW TUBES

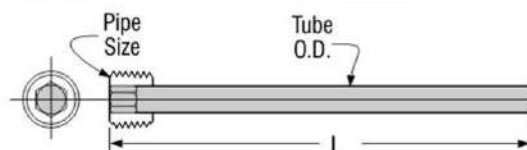


FOR USE WITH CASCADE WATER JUNCTIONS

- Thin wall stainless tubes provide maximum flow and quicker cycles
- Note thread size when using tubes only

Tube O.D.	Tube I.D.	Thread Size	Thread Length	Overall Length "L"			
				12"	18" Catalog	24" Number	36"
.093	.077	5-44	1/8	HFT09-12	HFT09-18	HFT09-24	HFT09-36
.125	.109	10-32	3/16	HFT12-12	HFT12-18	HFT12-24	HFT12-36
.187	.167	1/4-28	1/4	HFT18-12	HFT18-18	HFT18-24	HFT18-36
.250	.230	5/16-24	5/16	HFT25-12	HFT25-18	HFT25-24	HFT25-36
.312	.285	3/8-24	3/8	HFT31-12	HFT31-18	HFT31-24	HFT31-36
.365	.340	7/16-20	7/16	HFT37-12	HFT37-18	HFT37-24	HFT37-36
.437	.407	1/2-20	1/2	HFT43-12	HFT43-18	HFT43-24	HFT43-36

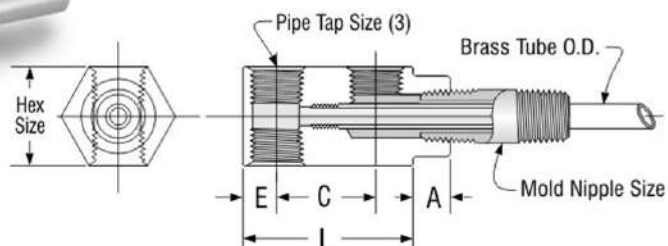
PISTON TUBES



- Coolant flows through brass pipe plug hex socket and high flow stainless tube
- High flow stainless tube provides maximum cooling rates

Pipe Size (NPT)	Tube O.D.	Tube I.D.	Overall Length "L"			
			12"	24" Catalog	36" Number	48"
1/16	.125	.109	PT06-12	PT06-24	PT06-36	PT06-48
1/8	.187	.167	PT12-12	PT12-24	PT12-36	PT12-48
1/4	.250	.230	PT25-12	PT25-24	PT25-36	PT25-48
3/8	.375	.345	PT38-12	PT38-24	PT38-36	PT38-48
1/2	.375	.345	PT50-12	PT50-24	PT50-36	PT50-48
3/4	.437	.407	PT75-12	PT75-24	PT75-36	PT75-48

CASCADES - NIPPLE TYPE



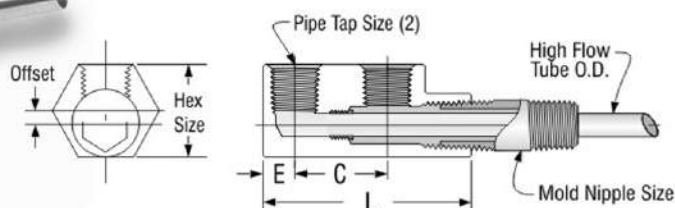
Assemblies include:

- Brass Head
- 12" Brass Tube
- 2" Galvanized Pipe Nipple
- Brass Pipe Plug

Catalog Number	Mold Nipple (NPT)	Pipe Tap Size (NPT)	Brass Tube O.D.	Hex Size	E	C	A	L	Head Only Catalog Number
CN-1206	1/8	1/16	3/16	3/4	7/32	1/2	9/32	15/16	CNH-1206
CN-1212	1/8	1/8	3/16	7/8	21/64	11/16	9/32	1-11/32	CNH-1212
CN-1212A	1/8	1/8	3/16	7/8	21/64	1	9/32	1-21/32	CNH-1212A
CN-2512	1/4	1/8	1/4	1	21/64	11/16	7/32	1-11/32	CNH-2512
CN-2525	1/4	1/4	1/4	1	21/64	11/16	7/32	1-11/32	CNH-2525
CN-2512A	1/4	1/8	1/4	1	21/64	1	7/16	1-21/32	CNH-2512A
CN-2525A	1/4	1/4	1/4	1	21/64	1	7/16	1-21/32	CNH-2525A
CN-3812	3/8	1/8	5/16	1	11/32	1	13/32	1-11/16	CNH-3812
CN-3825	3/8	1/4	5/16	1	11/32	1	13/32	1-11/16	CNH-3825
CN-5025	1/2	1/4	7/16	1-1/4	13/32	1	9/16	1-13/16	CNH-5025
CN-7538	3/4	3/8	5/8	1-1/2	1/2	1-1/4	3/4	2-1/4	CNH-7538

- Precision machined for positive leak-free assembly
- Special pipe tap and tube combinations are available upon request
- See page C3 for additional Brass Bubbler Tube sizes

CASCADES - HIGH FLOW



Assemblies include:

- Brass Head
- 12" Stainless High Flow Tube
- 2" Galvanized Pipe Nipple

Catalog Number	Mold Nipple (NPT)	Pipe Tap Size (NPT)	Hi-Flow Tube O.D.	Hex Size	Off Set	E	C	L	Head Only Catalog Number
CH-0606	1/16	1/16	1/8	5/8	3/32	1/4	1/2	1-1/4	CHH-0606
CH-1212	1/8	1/8	3/16	3/4	3/32	5/16	11/16	1-5/8	CHH-1212
CH-1212A	1/8	1/8	3/16	3/4	3/32	5/16	1	1-15/16	CHH-1212A
CH-2525	1/4	1/4	1/4	1	5/32	11/32	11/16	1-7/8	CHH-2525
CH-2525A	1/4	1/4	1/4	1	5/32	11/32	1	2-3/16	CHH-2525A
CH-3825	3/8	1/4	3/8	1-1/8	1/8	11/32	1	2-1/4	CHH-3825

- Over 35%-65% higher flow rates over standard type cascades
- Offset design provides more sealing threads without pipe flow interference
- High Flow Cascade heads use Stainless High Flow tubes only. See page C3 for additional sizes

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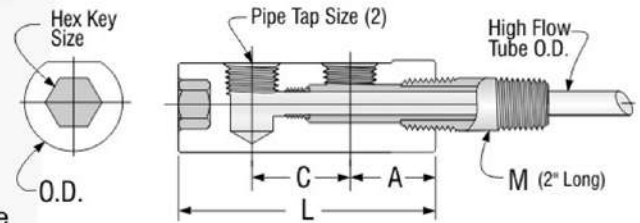
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CASCADES - HEX KEY



Assemblies include:

- Brass Head
- 12" Stainless High Flow Tube
- 2" Galvanized Pipe Nipple



Catalog Number	Mold (M) Nipple (NPT)	Pipe Tap Size (NPT)	Hi-Flow Tube O.D.	Hex Key Size	Nominal Clear. Drill	Actual O.D.	L	C	A	Head Only Catalog Number
CK-0606	1/16	1/16	1/8	5/16	5/8	.610	1.625	9/16	1/2	CKH-0606
CK-1206	1/8	1/16	3/16	3/8	3/4	.735	1.687	9/16	9/16	CKH-1206
CK-1212	1/8	1/8	3/16	3/8	7/8	.860	1.875	11/16	9/16	CKH-1212
CK-1212A	1/8	1/8	3/16	3/8	7/8	.860	2.187	1	9/16	CKH-1212A
CK-2512	1/4	1/8	1/4	1/2	1	.985	2.187	11/16	13/16	CKH-2512
CK-2525	1/4	1/4	1/4	1/2	1	.985	2.312	11/16	7/8	CKH-2525
CK-2512A	1/4	1/8	1/4	1/2	1	.985	2.500	1	13/16	CKH-2512A
CK-2525A	1/4	1/4	1/4	1/2	1	.985	2.625	1	7/8	CKH-2525A
CK-3825	3/8	1/4	5/16	1/2	1	.985	2.625	1	7/8	CKH-3825
CK-5025	1/2	1/4	3/8	1/2	1-1/4	1.235	2.812	1	1	CKH-5025

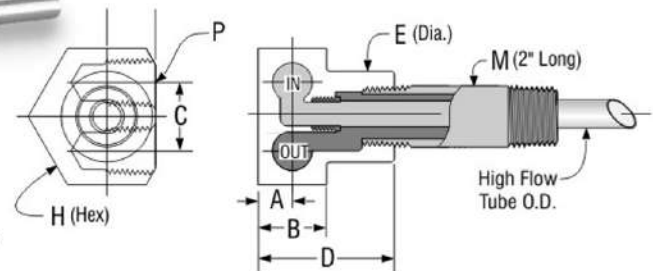
- Easy Hex Key installation
- Ideal for limited space applications
- Hex Key Cascade heads use Stainless High Flow tubes only. See page C3 for additional sizes.
- Require minimum clearance to install

CASCADES - COMPACT



Assemblies include:

- Brass Head
- 12" Stainless High Flow Tube
- 2" Galvanized Pipe Nipple



Catalog Number	Mold (M) Nipple (NPT)	Pipe Tap Size (NPT)	Hi-Flow Tube O.D.	Hex Size	A	B	C	D	E	Head Only Catalog Number
CC-1206	1/8	1/16	3/16	15/16	7/32	7/16	1/2	1	5/8	CCH-1206
CC-2512	1/4	1/8	1/4	1-1/4	5/16	5/8	11/16	1-1/4	3/4	CCH-2512
CC-2525	1/4	1/4	1/4	1-1/2	3/8	3/4	3/4	1-1/2	7/8	CCH-2525
CC-3825	3/8	1/4	5/16	1-1/2	3/8	3/4	3/4	1-1/2	1	CCH-3825

- Ideal for applications where space is limited under the cascade head
- In / Out connections are positioned sideways for mounting into thin mold plates
- Compact Cascade heads use Stainless High Flow tubes only. See page C3 for additional sizes

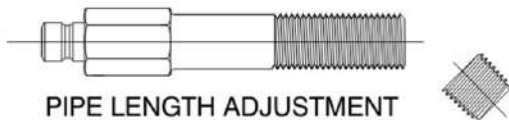
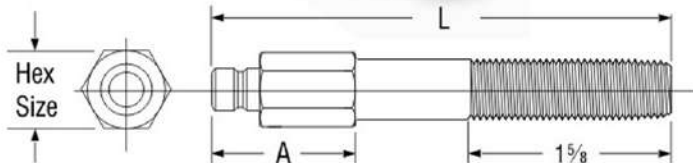
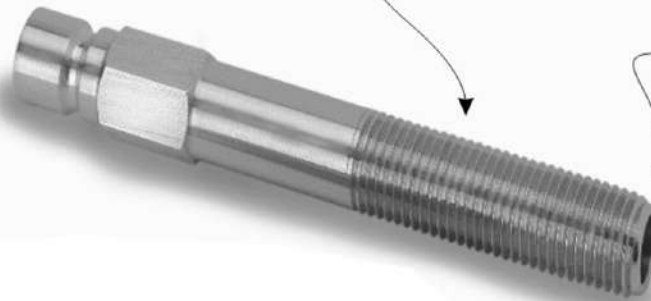
BRASS EXTENSION PLUGS CUT OFF DATA

U.S. PATENT #4275864

Pre-Cut threads for easy adjustment.

End threads tapered for standard NPT pipe assembly.

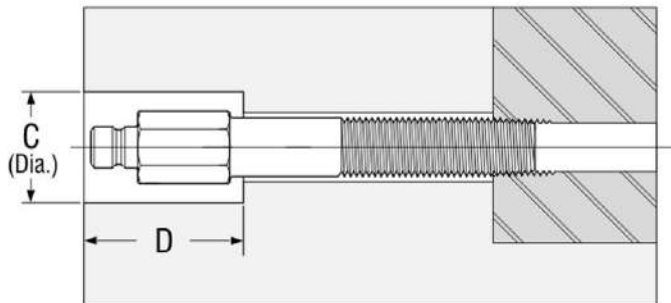
- Compatible with all major mold connection systems
- Standard 3/4" per foot taper provides a leak-free fit with tapered inlets
- One-piece Brass construction guarantees complete removability
- Eliminates problems associated with brazing or soldering of steel plugs to pipe nipples



PIPE LENGTH ADJUSTMENT

- When length adjustments are required, simply cut piece to length and chamfer end. Then turn into a standard pipe threading die to re-taper end threads. Length adjustments are easy with patented pre-cut thread system

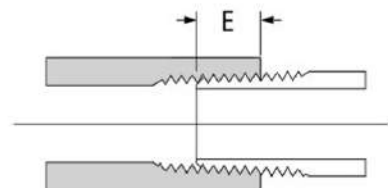
DATA FOR RECESSED INSTALLATION OF PLUGS



Extension Series	Pipe Thread	C Diameter	D Depth
250	1/16	3/4	1
251	1/8	7/8	1-1/4
252	1/4	1	1-1/2
253	3/8	1-1/8	1-1/2
350	1/6	1	1-1/4
351	1/8	1	1-1/4
352	1/4	1	1-1/2
353	3/8	1-1/8	1-1/2
354	1/2	1-1/2	1-3/4
553	3/8	1-3/8	1-5/8
554	1/2	1-1/2	1-3/4

STANDARD PIPE THREAD DATA

Pipe Size	Threads Per Inch	O.D. Of Pipe	I.D. Of Pipe	Tap Drill Size		(E) Thread Engage For Tight Joint
				W/O. Ream	W. Ream	
1/16	27	.312	.209	1/4	15/64	.261
1/8	27	.405	.269	11/32	21/64	.263
1/4	18	.540	.364	7/16	27/64	.395
3/8	18	.675	.493	9/16	9/16	.407
1/2	14	.840	.622	45/64	11/16	.534
3/4	14	1.050	.824	29/32	57/64	.545
1	11-1/2	1.315	1.049	1-9/64	1-1/8	.661



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C-6

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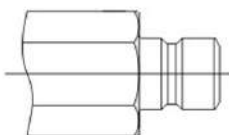
www.toolingcomponentsinc.com email: sales@toolcompinc.com

Tooling Components, Inc.

BRASS EXTENSION PLUGS

200 SERIES

1/4" HOLE
Actual Size



Catalog Number	L	Pipe Size (NPT)	Hex Size	A
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BEP250-025	2-1/2	1/16	3/8	11/16
BEP250-040	4	1/16	3/8	13/16
BEP250-055	5-1/2	1/16	3/8	13/16
BEP250-070	7	1/16	3/8	13/16

BEP251-025	2-1/2	1/8	7/16	11/16
BEP251-040	4	1/8	7/16	1
BEP251-055	5-1/2	1/8	7/16	1
BEP251-070	7	1/8	7/16	1
BEP251-085	8-1/2	1/8	7/16	1
BEP251-100	10	1/8	7/16	1
BEP251-115	11-1/2	1/8	7/16	1
BEP251-130	13	1/8	7/16	1

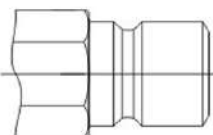
BEP252-025	2-1/2	1/4	9/16	7/8
BEP252-040	4	1/4	9/16	1-1/4
BEP252-055	5-1/2	1/4	9/16	1-1/4
BEP252-070	7	1/4	9/16	1-1/4
BEP252-085	8-1/2	1/4	9/16	1-1/4
BEP252-100	10	1/4	9/16	1-1/4
BEP252-115	11-1/2	1/4	9/16	1-1/4
BEP252-130	13	1/4	9/16	1-1/4

BEP253-025	2-1/2	3/8	11/16	1
BEP253-040	4	3/8	11/16	1-1/4
BEP253-055	5-1/2	3/8	11/16	1-1/4
BEP253-070	7	3/8	11/16	1-1/4
BEP253-085	8-1/2	3/8	11/16	1-1/4
BEP253-100	10	3/8	11/16	1-1/4
BEP253-115	11-1/2	3/8	11/16	1-1/4
BEP253-130	13	3/8	11/16	1-1/4

AVAILABLE ON
REQUEST

300 SERIES

3/8" HOLE
Actual Size



Catalog Number	L	Pipe Size (NPT)	Hex Size	A
----------------	---	-----------------	----------	---

1/16" PIPE EXTENSIONS

BEP350-025	2-1/2	1/16	9/16	7/8
BEP350-040	4	1/16	9/16	1
BEP350-055	5-1/2	1/16	9/16	1
BEP350-070	7	1/16	9/16	1

1/8" PIPE EXTENSIONS

BEP351-025	2-1/2	1/8	9/16	7/8
BEP351-040	4	1/8	9/16	1
BEP351-055	5-1/2	1/8	9/16	1
BEP351-070	7	1/8	9/16	1
BEP351-085	8-1/2	1/8	9/16	1
BEP351-100	10	1/8	9/16	1
BEP351-115	11-1/2	1/8	9/16	1
BEP351-130	13	1/8	9/16	1

1/4" PIPE EXTENSIONS

BEP352-025	2-1/2	1/4	9/16	7/8
BEP352-040	4	1/4	9/16	1-1/4
BEP352-055	5-1/2	1/4	9/16	1-1/4
BEP352-070	7	1/4	9/16	1-1/4
BEP352-085	8-1/2	1/4	9/16	1-1/4
BEP352-100	10	1/4	9/16	1-1/4
BEP352-115	11-1/2	1/4	9/16	1-1/4
BEP352-130	13	1/4	9/16	1-1/4

3/8" PIPE EXTENSIONS

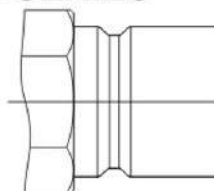
BEP353-025	2-1/2	3/8	11/16	1
BEP353-040	4	3/8	11/16	1-1/4
BEP353-055	5-1/2	3/8	11/16	1-1/4
BEP353-070	7	3/8	11/16	1-1/4
BEP353-085	8-1/2	3/8	11/16	1-1/4
BEP353-100	10	3/8	11/16	1-1/4
BEP353-115	11-1/2	3/8	11/16	1-1/4
BEP353-130	13	3/8	11/16	1-1/4

1/2" PIPE EXTENSIONS

BEP354-025	2-1/2	1/2	7/8	1-1/8
BEP354-040	4	1/2	7/8	1-1/2
BEP354-055	5-1/2	1/2	7/8	1-1/2
BEP354-070	7	1/2	7/8	1-1/2
BEP354-085	8-1/2	1/2	7/8	1-1/2
BEP354-100	10	1/2	7/8	1-1/2
BEP354-115	11-1/2	1/2	7/8	1-1/2
BEP354-130	13	1/2	7/8	1-1/2

500 SERIES

1/2" HOLE
Actual Size



Catalog Number	L	Pipe Size (NPT)	Hex Size	A
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AVAILABLE ON
REQUEST

AVAILABLE ON
REQUEST

AVAILABLE ON
REQUEST

BEP553-025	2-1/2	3/8	13/16	1-1/8
BEP553-040	4	3/8	13/16	1-3/8
BEP553-055	5-1/2	3/8	13/16	1-3/8
BEP553-070	7	3/8	13/16	1-3/8
BEP553-085	8-1/2	3/8	13/16	1-3/8
BEP553-100	10	3/8	13/16	1-3/8
BEP553-115	11-1/2	3/8	13/16	1-3/8
BEP553-130	13	3/8	13/16	1-3/8

BEP554-025	2-1/2	1/2	7/8	1-1/8
BEP554-040	4	1/2	7/8	1-1/2
BEP554-055	5-1/2	1/2	7/8	1-1/2
BEP554-070	7	1/2	7/8	1-1/2
BEP554-085	8-1/2	1/2	7/8	1-1/2
BEP554-100	10	1/2	7/8	1-1/2
BEP554-115	11-1/2	1/2	7/8	1-1/2
BEP554-130	13	1/2	7/8	1-1/2

SOCKET CONNECTORS

- Available in flow-thru (SC) or valved (SCV). Valved socket connectors stop flow upon disconnect
- To order push-on hose barbs add suffix (-P) to catalog number. Example: SC-205-P or SCV-306-P

- Compatible with all mold connection systems



Straight



90°



45°

200 Series (1/4" Hole)			300 Series (3/8" Hole)			500 Series (1/2" Hole)		
Catalog Number	Hose I.D.	Catalog No. (Valved)	Catalog Number	Hose I.D.	Catalog No. (Valved)	Catalog Number	Hose I.D.	Catalog No. (Valved)
SC-204	1/4	SCV-204	SC-306	3/8	SCV-306	SC-504	1/2	SCV-504
SC-205	5/16	SCV-205	SC-308	1/2	SCV-308	SC-506	3/4	SCV-505
SC-206	3/8	SCV-206	-	-	-	-	-	-
SOCKET BODY ONLY			SOCKET BODY ONLY			SOCKET BODY ONLY		
SCB-200	-	SCVB-200	SCB-300	-	SCVB-300	SCB-500	-	SCVB-500
SC-214	1/4	SCV-214	SC-316	3/8	SCV-316	SC-514	1/2	SCV-514
SC-215	5/16	SCV-215	SC-318	1/2	SCV-318	SC-516	3/4	SCV-516
SC-216	3/8	SCV-216	-	-	-	-	-	-
SOCKET BODY ONLY			SOCKET BODY ONLY			SOCKET BODY ONLY		
SCB-200	-	SCVB-200	SCB-300	-	SCVB-300	SCB-500	-	N/A
SC-224	1/4	SCV-224	SC-326	3/8	SCV-326	SC-524	1/2	SCV-524
SC-225	5/16	SCV-225	SC-328	1/2	SCV-328	SC-526	3/4	SCV-526
SC-226	3/8	SCV-226	-	-	-	-	-	-
SOCKET BODY ONLY			SOCKET BODY ONLY			SOCKET BODY ONLY		
SCB-200	-	SCVB-200	SCB-300	-	SCVB-300	SCB-500	-	N/A

CONNECTOR PLUGS

- Male plugs are available in brass and may be externally or flush mounted
- Female plugs are available in brass or zinc plated steel and can be attached to any length pipe nipple.



MALE TYPE - BRASS



FEMALE TYPE - BRASS



FEMALE TYPE - STEEL

200 Series (1/4" Hole)			300 Series (3/8" Hole)			500 Series (1/2" Hole)		
Catalog Number	Pipe Thread (NPT)	Flow Diam.	Catalog Number	Pipe Thread (NPT)	Flow Diam.	Catalog Number	Pipe Thread (NPT)	Flow Diam.
CM-250	1/16	3/16	CM-351	1/8	1/4	CM-552	1/4	3/8
CM-251	1/8	1/4	CM-352	1/4	3/8	CM-553	3/8	1/2
CM-252	1/4	1/4	CM-353	3/8	3/8	CM-554	1/2	5/8
CM-253	3/8	1/4	CM-354	1/2	3/8	CM-556	3/4	5/8
CF-250B	1/16	1/4	CF-351B	1/8	11/32	CF-551B	1/8	11/32
CF-251B	1/8	1/4	CF-352B	1/4	3/8	CF-552B	1/4	7/16
CF-252B	1/4	1/4	CF-353B	3/8	3/8	CF-553B	3/8	9/16
CF-253B	3/8	1/4	CF-354B	1/2	3/8	CF-554B	1/2	5/8
For a one piece alternative refer to brass extension plugs - page C-7								
Available in brass above			Available in brass above			Available in brass above		
CF-251S	1/8	1/4	CF-352S	1/4	3/8			
CF-252S	1/4	1/4	CF-353S	3/8	3/8			
CF-253S	3/8	1/4	CF-354S	1/2	3/8			
For a one piece alternative refer to brass extension plugs - page C-7								

PUSH-LOK HOSE BARBS



- Does not require the use of hose clamps when used with Push-Lok hose
- Flow diameters are maximized for improved flow rates

Catalog Number	Hose I.D.	Pipe Size (NPT)
HB-2512	1/4	1/8
HB-2525	1/4	1/4
HB-3812	3/8	1/8
HB-3825	3/8	1/4
HB-5025	1/2	1/4
HB-5050	1/2	1/2
HB-5075	1/2	3/4
HB-7550	3/4	1/2
HB-7575	3/4	3/4

COVER PLUGS

Easily snap into socket connectors



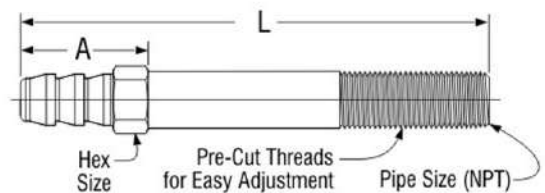
- Stops coolant flow on hoses with flow-thru couplers
- Can be used to plug manifold ports or to stop hose drainage during mold changes

Catalog Number	Fits Socket Series No.
CP-200	200 (1/4" Hole)
CP-300	300 (3/8" Hole)
CP-500	500 (1/2" Hole)

HOSE BARB EXTENSIONS



Hose clamps not required when used with Push-Lok Hose

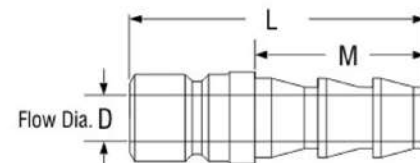


HOSE I.D.	Pipe Size (NPT)	Hex Size	A	Overall Length "L"							
				2-1/2"	4"	5-1/2"	7" Catalog	8-1/2" Number	10"	11-1/2"	13"
1/4	1/16	3/8	1-1/8	HBE250-025	HBE250-040	HBE250-055	HBE250-070	HBE250-085	HBE250-100	HBE250-115	HBE250-130
1/4	1/8	7/16	1-1/8	HBE251-025	HBE251-040	HBE251-055	HBE251-070	HBE251-085	HBE251-100	HBE251-115	HBE251-130
3/8	1/8	1/2	1-1/4	HBE381-025	HBE381-040	HBE381-055	HBE381-070	HBE381-085	HBE381-100	HBE381-115	HBE381-130
3/8	1/4	9/16	1-3/8	HBE382-025	HBE382-040	HBE382-055	HBE382-070	HBE382-085	HBE382-100	HBE382-115	HBE382-130
1/2	1/4	5/8	1-1/2	HBE502-025	HBE502-040	HBE502-055	HBE502-070	HBE502-085	HBE502-100	HBE502-115	HBE502-130
1/2	3/8	11/16	1-1/2	HBE503-025	HBE503-040	HBE503-055	HBE503-070	HBE503-085	HBE503-100	HBE503-115	HBE503-130
1/2	1/2	7/8	1-5/8	HBE505-025	HBE505-040	HBE505-055	HBE505-070	HBE505-085	HBE505-100	HBE505-115	HBE505-130
3/4	1/2	7/8	2-1/8	HBE755-025	HBE755-040	HBE755-055	HBE755-070	HBE755-085	HBE755-100	HBE755-115	HBE755-130

COMBINATION HOSE INSERTS



Install between hose and socket connector



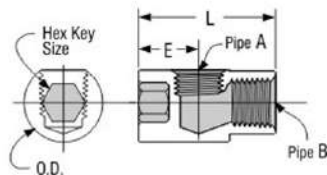
- For use with Push-Lok or Standard hose
- Eliminates multiple fittings and assembly

200 Series (1/4" Hole)				
Catalog Number	Hose I.D.	D	M	L
200-4	1/4	3/16	7/8	1-3/8
200-5	5/16	1/4	7/8	1-3/8
200-6	3/8	1/4	1-1/16	1-9/16
200-8	1/2	1/4	1-1/16	1-9/16

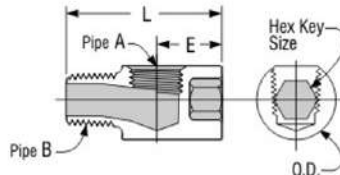
300 Series (3/8" Hole)				
Catalog Number	Hose I.D.	D	M	L
300-4	1/4	3/16	7/8	1-13/16
300-5	5/16	1/4	7/8	1-13/16
300-6	3/8	9/32	1-1/16	1-13/16
300-8	1/2	11/32	1-1/16	1-13/16

500 Series (1/2" Hole)				
Catalog Number	Hose I.D.	D	M	L
500-8	1/2	13/32	1-1/16	2
500-12	3/4	9/16	1-1/2	2-1/2

HEX-KEY ELBOWS



HEX-KEY STREET EL'S



BRASS

- Install with an Allen Wrench for easy assembly and removal

Catalog Number (Elbows)	L
KE-0606	1.125
N/A	-
KE-1212	1.250
KE-1225	1.375
KE-2525	1.500
KE-2538	1.625
KE-3838	1.750
KE-5050	2.125

Pipe Size A	Pipe Size B	E	O.D.	Minimum Clearance Diam.	Hex Key Size
1/16	1/16	.531	.552	9/16	1/4
1/16	1/8	.531	.615	5/8	5/16
1/8	1/8	.580	.615	5/8	5/16
1/8	1/4	.593	.860	7/8	3/8
1/4	1/4	.660	.860	7/8	3/8
1/4	3/8	.712	.985	1	1/2
3/8	3/8	.780	.985	1	1/2
1/2	1/2	.940	1.235	1-1/4	1/2

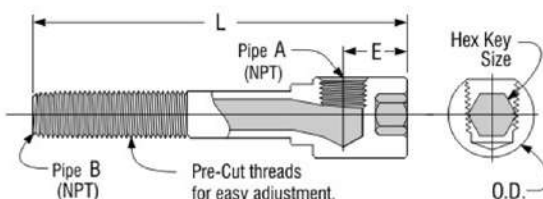
Catalog Number (Street El's)	L
KES-0606	1.156
KES-0612	1.218
KES-1212	1.312
KES-1225	1.500
KES-2525	1.625
KES-2538	1.625
KES-3838	1.750
KES-5050	2.250

BRASS

- Round design allows for close alignment

HEX-KEY EXTENSION ELBOWS

- Installs with an Allen wrench
- Ideal for use where space is limited



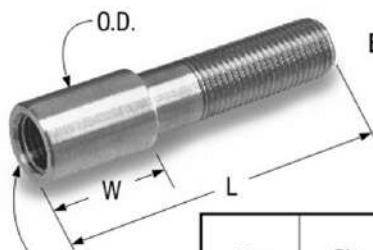
BRASS

Round design allows for close alignment.
(See min. clearance diameter)

To order: Add length suffix to catalog number. Ex: KEE060-025

Catalog Number	Pipe Size A	Pipe Size B	E	O.D.	Min. Clear. Diam.	Hex Key Size	Overall Length "L"							
							2-1/2"	4"	5-1/2"	7"	8-1/2"	10"	11-1/2"	13"
KEE060-	1/16	1/16	.531	.522	9/16	1/4	025	040	055	070	085	100	115	130
KEE121-	1/8	1/8	.580	.615	5/8	5/16	025	040	055	070	085	100	115	130
KEE252-	1/4	1/4	.660	.860	7/8	3/8	025	040	055	070	085	100	115	130
KEE383-	3/8	3/8	.780	.985	1	1/2	025	040	055	070	085	100	115	130
KEE505-	1/2	1/2	.940	1.235	1-1/4	1/2	025	040	055	070	085	100	115	130

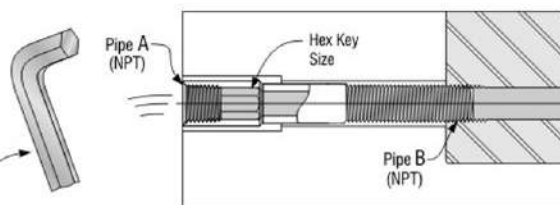
HEX-KEY EXTENSION PIPES



BRASS

Heavy duty Internal hex socket.

Easily installed or removed with a standard hex key.



Pipe Size A	Pipe Size B	W	O.D.	Hex Key Size	Overall Length "L"				
					2-1/2"	4"	5-1/2"	7"	8-1/2"
1/8	1/8	3/4	1/2	1/4	KEP121-025	KEP121-040	KEP121-055	KEP121-070	KEP121-085
1/4	1/4	1	11/16	3/8	KEP252-025	KEP252-040	KEP252-055	KEP252-070	KEP252-085
3/8	3/8	1-1/4	13/16	1/2	KEP383-025	KEP383-040	KEP383-055	KEP383-070	KEP383-085
1/2	1/2	1-1/2	1	9/16	KEP505-025	KEP505-040	KEP505-055	KEP505-070	KEP505-085

C-10

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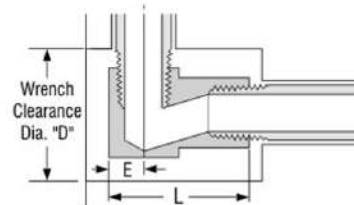
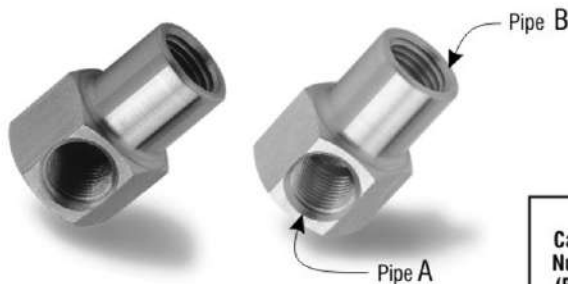
www.toolingcomponentsinc.com email: sales@toolcompinc.com



Tooling Components, Inc.

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HEX ELBOWS



- Available in Brass or Zinc Plated Steel
- Easy socket wrench installation and removal (see minimum wrench clearance "D")
- Angular flow path allows connecting fittings to be torqued tight without choking off flow

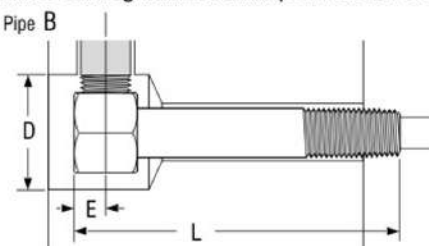
Catalog Number (Brass)	Pipe Size A	Pipe Size B	L	E	Wrench Clear Diam. (D)	Hex Size	Catalog Number (Steel)
HL-0606	1/16	1/16	13/16	7/32	1	9/16	HLS-0606
HL-1212	1/8	1/8	1	9/32	1-1/4	3/4	HLS-1212
HL-1225	1/8	1/4	1-1/4	9/32	1-1/4	3/4	HLS-1225
HL-2525	1/4	1/4	1-3/8	11/32	1-3/8	7/8	HLS-2525
HL-2538	1/4	3/8	1-3/8	11/32	1-3/8	7/8	HLS-2538
HL-3838	3/8	3/8	1-5/8	1/2	1-1/2	1	HLS-3838
HL-5050	1/2	1/2	1-7/8	9/16	1-7/8	1-1/4	HLS-5050
HL-7575	3/4	3/4	2-1/4	5/8	2-1/4	1-1/2	HLS-7575

HEX EXTENSION ELBOWS

- Socket wrench installation and removal (See minimum wrench clearance "D")
- One piece re-direction of mold cooling lines
- Easy length adjustment with pre-cut thread system



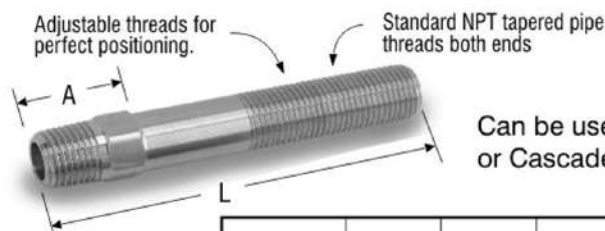
To order, add length suffix to catalog number. Example: HLE121-025



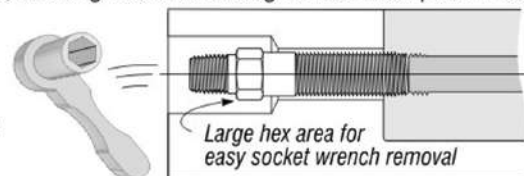
Catalog Number	Pipe Size A	Pipe Size B	E	Wrench Clear Diam. (D)	Hex Size	Overall Length "L"							
						2-1/2"	4"	5-1/2"	7"	8-1/2"	10"	11-1/2"	13"
HLE-121-	1/8	1/8	9/32	1-1/4	3/4	025	040	055	070	085	100	115	130
HLE-122-	1/8	1/4	9/32	1-1/4	3/4	025	040	055	070	085	100	115	130
HLE-252-	1/4	1/4	11/32	1-3/8	7/8	025	040	055	070	085	100	115	130
HLE-253-	1/4	3/8	11/32	1-3/8	7/8	025	040	055	070	085	100	115	130
HLE-383-	3/8	3/8	1/2	1-1/2	1	025	040	055	070	085	100	115	130
HLE-505-	1/2	1/2	5/8	1-3/4	1-1/4	025	040	055	070	085	100	115	130

ADJUSTABLE HEX NIPPLES

To order, add length suffix to catalog number. Example: APN06-025



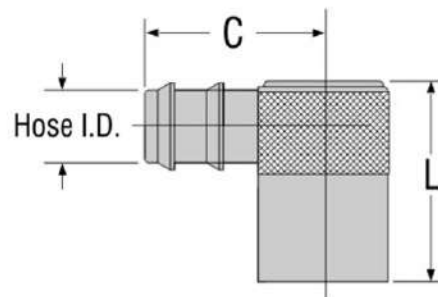
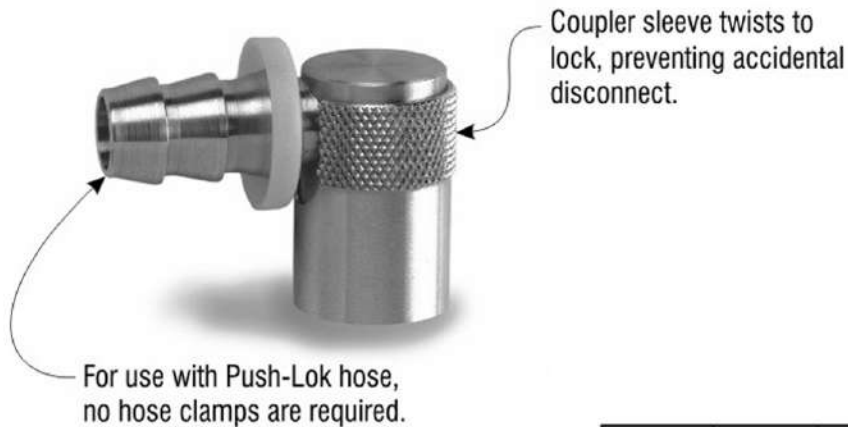
Can be used with Hex Elbows or Cascades inside the mold



BRASS

Catalog Number	Pipe Size (NPT)	A	Hex Size	Overall Length "L"									
				2-1/2"	4"	5-1/2"	7"	8-1/2"	10"	11-1/2"	13"		
APN06-	1/16	11/16	3/8	025	040	055	070	085	100	115	130		
APN12-	1/8	3/4	7/16	025	040	055	070	085	100	115	130		
APN25-	1/4	7/8	9/16	025	040	055	070	085	100	115	130		
APN38-	3/8	1	11/16	025	040	055	070	085	100	115	130		
APN50-	1/2	1-3/8	7/8	025	040	055	070	085	100	115	130		

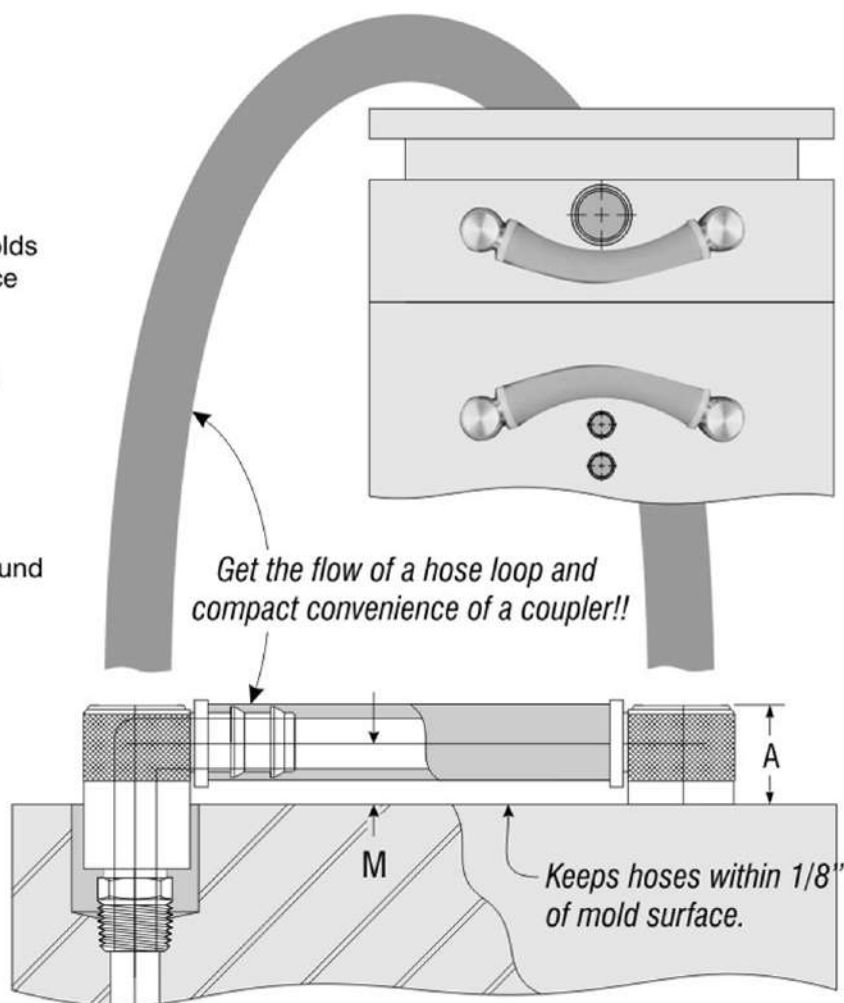
QUICK-COUPLER TYPE WATER JUMPERS



Oversized and unrestricted flow path maintains **full flow rate** of hose used

Catalog Number	Fits Plug Series No.	Hose I.D.	L	C	M	A
WJ200-4	200	1/4	1	1-1/4	3/8	5/8
WJ200-5	200	5/16	1	1-1/4	3/8	5/8
WJ200-6	200	3/8	1	1-1/4	3/8	5/8
WJ300-6	300	3/8	1-7/16	1-9/16	1/2	7/8
WJ300-8	300	1/2	1-7/16	1-9/16	1/2	7/8

- Eliminates bulky hose loops
- Compact design neatly and safely holds cooling lines close to the mold surface
- Stock only one part number for any hose size, no special tubes or length restrictions
- Compatible with all major mold connection systems
- Unlimited installation options, fits around obstacles and installs in compact spaces
- Viton Seals provide for temps up to 400°F
- All brass and stainless steel construction



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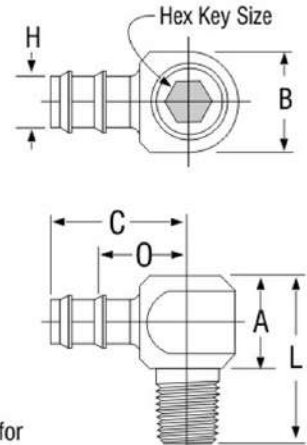
SWIVEL TYPE WATER JUMPERS

- Can be fully recessed to prevent accidental disconnect or damage
- Swivel body allows for installation in tight spaces
- Eliminate crimped hoses and setup errors
- Viton O-ring seals
- All brass construction
- Easy hex key installation
- Custom length water jumpers available

Heavy duty hex key socket allows maximum torque and positive removal

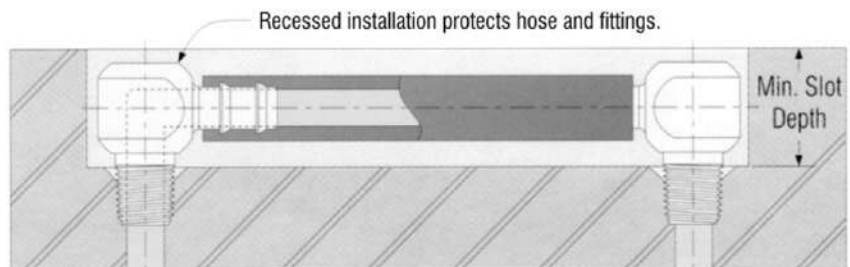
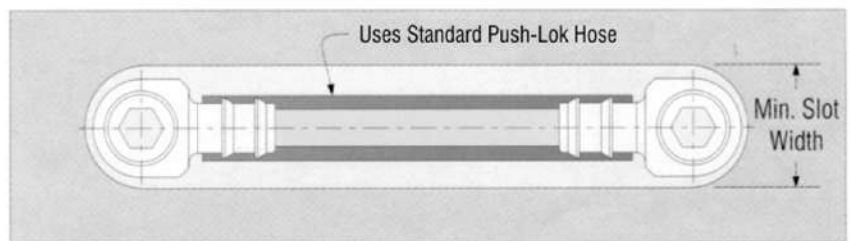
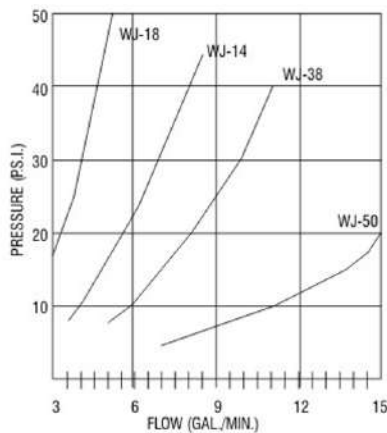


Adjustable thread for perfect positioning



Catalog Number	Pipe Size (NPT)	Hose I.D. Size H	Hex Key Size	L	A	C	O	B	* For Recessed Installation *	
									Min. Slot Width	Min. Slot Depth
WJ12-S	1/8	5/16	3/16	1-3/16	11/16	1	5/8	.660	11/16	1
WJ12-M	1/8	5/16	3/16	2	11/16	1	5/8	.660	11/16	1
WJ12-L	1/8	5/16	3/16	3-1/2	11/16	1	5/8	.660	11/16	1
WJ25-S	1/4	3/8	1/4	1-7/16	13/16	1-3/16	25/32	.840	7/8	1-3/16
WJ25-M	1/4	3/8	1/4	2-3/8	13/16	1-3/16	25/32	.840	7/8	1-3/16
WJ25-L	1/4	3/8	1/4	3-7/8	13/16	1-3/16	25/32	.840	7/8	1-3/16
WJ38-S	3/8	1/2	5/16	1-5/8	1	1-3/8	15/16	.980	1	1-3/8
WJ38-M	3/8	1/2	5/16	2-5/8	1	1-3/8	15/16	.980	1	1-3/8
WJ38-L	3/8	1/2	5/16	4-1/8	1	1-3/8	15/16	.980	1	1-3/8
WJ50-S	1/2	3/4	3/8	2	1-1/8	1-1/2	1-1/8	1.235	1-1/4	1-9/16
WJ50-M	1/2	3/4	3/8	3	1-1/8	1-1/2	1-1/8	1.235	1-1/4	1-9/16
WJ50-L	1/2	3/4	3/8	4-1/2	1-1/8	1-1/2	1-1/8	1.235	1-1/4	1-9/16

Flow Data



PIPE NIPPLES

To order, add length suffix to catalog number. Example: PNB25-025 or PNG25-025

- Available in Brass ("PNB") / Galvanized Steel ("PNG") / Stainless Steel ("PNS")
- Standard NPT threads on both ends
- 1/16 NPT (Catalog Number PNG06-) are Stainless Steel



Catalog Number (Brass)	Catalog Number (Steel)	Pipe Size (NPT)	Overall Length (Inch)																
			Close	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"	4-1/2"	5"	5-1/2"	6"	7"	8"	9"	10"	11"	12"
PNB06-	PNG06-	1/16	000	015	020	025	030	035	040	045	050	055	060	070	080	090	100	110	120
PNB12-	PNG12-	1/8	000	015	020	025	030	035	040	045	050	055	060	070	080	090	100	110	120
PNB25-	PNG25-	1/4	000	015	020	025	030	035	040	045	050	055	060	070	080	090	100	110	120
PNB38-	PNG38-	3/8	000	015	020	025	030	035	040	045	050	055	060	070	080	090	100	110	120
PNB50-	PNG50-	1/2	000	015	020	025	030	035	040	045	050	055	060	070	080	090	100	110	120

PIPE CHECK

Pipe Check is an easy way to check a pipe thread. This handy tool can check pipe sizes from 1/16" thru 1/2" for a number of applications. Use the economical PC-100 to quickly find the size of a pipe, or the PC-200 to check pipe size and determine whether the thread is within standard tolerance.

PC-100

PC-100 simply determines the size of pipes from 1/16" to 1/2" NPT. Made entirely of heavy gauge aluminum, this model is perfect for the office, warehouse, or factory floor. Just turn the thread into the hole that fits to determine pipe size.

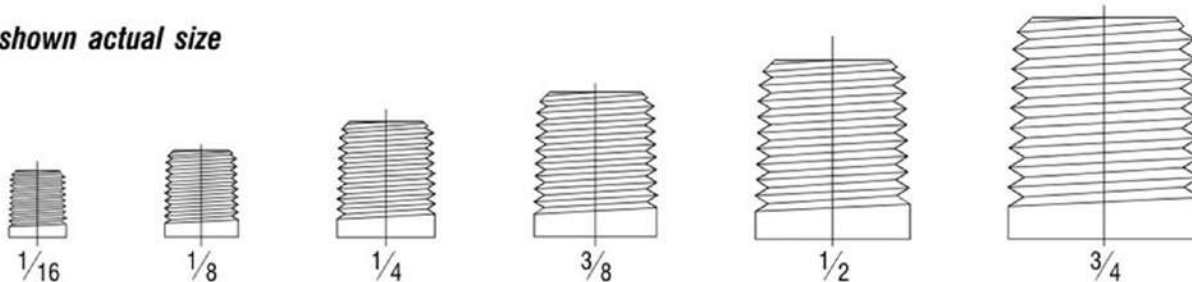
PC-200

This model of Pipe Check is built on an aluminum frame holding five precision-machined, hardened pipe checking rings. Turn the pipe into the correct size hole until snug. The measuring side of Pipe Check will determine if the pipe thread is the correct size for proper assembly.



PC-200 shown

Pipes shown actual size



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FITTINGS AND ACCESSORIES

REDUCING BUSHINGS



Catalog Number	Pipe Size
RB12-1	1/8 x 1/16
RB25-2	1/4 x 1/8
RB38-4	3/8 x 1/4
RB50-6	1/2 x 3/8
RB75-8	3/4 x 1/2

MALE REDUCERS



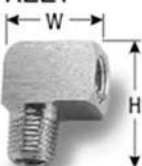
Catalog Number	Pipe Size	L
MR12-1	1/8 x 1/16	1
MR25-2	1/4 x 1/8	1-3/16
MR38-4	3/8 x 1/4	1-7/16
MR50-6	1/2 x 3/8	1-5/8

45° STREET EL'S



Catalog Number	Pipe Size
AL-12	1/8
AL-25	1/4
AL-38	3/8
AL-50	1/2

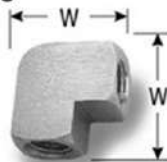
90° STREET EL'S



Catalog Number	Pipe Size	W	H
SL-12	1/8	11/16	15/16
SL-25	1/4	1	1-1/4
SL-38	3/8	1-1/8	1-3/8
SL-50	1/2	1-1/2	1-3/4

1/16 Street El's available on page C11

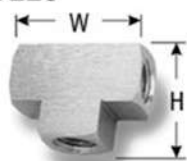
90° ELBOWS



Catalog Number	Pipe Size	W
EL-12	1/8	13/16
EL-25	1/4	1-1/8
EL-38	3/8	1-1/4
EL-50	1/2	1-9/16

1/16 Elbows available on page C12

TEES



Catalog Number	Pipe Size	W	H
T-12	1/8	1-1/16	13/16
T-25	1/4	1-1/2	1-1/8
T-38	3/8	1-11/16	1-1/4
T-50	1/2	2-1/8	1-9/16

HEX NIPPLES

Hex Size



Catalog Number	Pipe Size	Hex Size	L
HN-12	1/8	7/16	31/32
HN-25	1/4	9/16	1-3/8
HN-38	3/8	11/16	1-7/16
HN-50	1/2	7/8	1-13/16

For longer hex nipples, see page C12

MALE HOSE BARBS



Catalog Number	Hose I.D.	Pipe Size
MB25-2	1/4	1/8
MB25-4	1/4	1/4
MB31-2	5/16	1/8
MB31-4	5/16	1/4
MB38-2	3/8	1/8
MB38-4	3/8	1/4
MB50-4	1/2	1/4
MB50-6	1/2	3/8
MB50-8	1/2	1/2
MB75-8	3/4	1/2
MB75-12	3/4	3/4

FEMALE HOSE BARBS



Catalog Number	Hose I.D.	Pipe Size
FB25-2	1/4	1/8
FB25-4	1/4	1/4
FB31-4	5/16	1/4
FB38-2	3/8	1/8
FB38-4	3/8	1/4
FB50-6	1/2	3/8
FB50-8	1/2	1/2

HOSE SPLICERS



Catalog Number	Hose I.D.
HS-25	1/4 x 1/4
HS-38	3/8 x 3/8
HS-50	1/2 x 1/2

HEX COUPLINGS



Catalog Number	Pipe Size
C-12	1/8
C-25	1/4
C-38	3/8
C-50	1/2