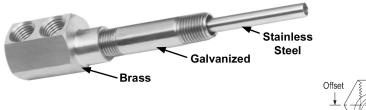
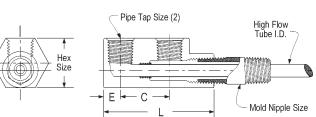
## **High Flow Cascades**

### High Flow Cascade Assemblies





### **FEATURES**:

- 35-65% Higher Flow Rates than Standard Nipple Type Cascades
- Offset Design Provides More Sealing Threads Without Pipe Interference
- Assemblies Include Brass Head, 12" High Flow Stainless Tube, and 2" Long Galvanized Pipe Nipple

PART NO.	MOLD NIPPLE SIZE (NPT)	PIPE TAP SIZE (NPT)	HIGH FLOW TUBE O.D. (12" Long)	HEX SIZE	OFF SET	"E"	"C"	"L"	PRICE EACH
HF16N	1/16"	1/16"	1/8"	5/8"	3/32"	1/4"	1/2"	<b>1</b> <sup>1</sup> /4"	
HF186N	1/8"	1/8"	3/16"	3/4"	3/32"	5/16"	11/16"	1 <sup>5</sup> /8"	
HF181N	1/8"	1/8"	3/16"	3/4"	3/32"	5/16"	1"	<b>1</b> <sup>15</sup> /16"	Call
HF146N-4	1/4"	1/4"	1/4"	1"	5/32"	11/32"	11/16"	1 <sup>7</sup> /8"	for Driging
HF141N-4	1/4"	1/4"	1/4"	1"	5/32"	11/32"	1"	2 <sup>3</sup> /16"	Pricing
HF381N-4	3/8"	1/4"	3/8"	1 <sup>1</sup> /8"	1/8"	11/32"	1"	2 <sup>1</sup> /4"	

### High Flow Brass Cascade Heads Only

#### **FEATURES**:

- High Flow Cascade Heads are Available in Special Pipe Tap & Tube Combinations
- All Dimensions Same as Above for Corresponding Part Number

\*\*\*\*

PART NO.	USE WITH HIGH FLOW TUBE NO.	PRICE EACH
HF16H	HF125T-	
HF186H	HF187T-	Call
HF181H	HF187T-	••••
HF146H-4	HF250T-	for Driging
HF141H-4	HF250T-	Pricing
HF381H-4	HF375T-	

### **High Flow Stainless Steel Tubes**

#### Increase flow up to 300%

#### FEATURES:

- All Stainless Steel Construction for Optimal Performance, Durability and Strength
- Special Thin Wall Stainless Tube for Maximum Flow and Quicker Cycles
- · Cut to Exact Lengths at No Extra Charge

PART	TUBE		THREAD				тн			
NO.	O.D.	I.D.	SIZE	LENGTH	12"	18"	24"	36"		
HF093T*	.093"	.077"	5-44	1/8"						
HF125T*	.125"	.109"	10-32	3/16"						
HF187T*	.187"	.167"	<sup>1</sup> /4-28	1/4"	Call for Pricing					
HF250T*	.250"	.230"	<sup>5</sup> /16 <b>-24</b>	5/16"				0		
HF312T*	.312"	.285"	<sup>3</sup> /8-24	3/8"	800-627-1033					
HF375T*	.375"	.345"	<sup>7</sup> /16 <b>-20</b>	7/16"						
HF437T*	.437"	.407"	<sup>1</sup> /2 <b>-20</b>	1/2"						

\*Insert 2-digit length desired: 12, 18, 24 or 36. Custom tubes are available in any thread or length required. For NPT, see Piston Tubes on page 256.



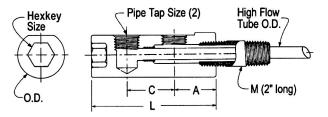
## Hexkey Cascades

### **Hexkey Cascade Assemblies**

### FEATURES:

- Hexkey Cascades are Round and Install With an Allen Wrench
- May Be Installed with Minimal Clearance or Very Close Together Where Space is Limited
- High Flow Design Provides Maximum Cooling Rates
- Easy to Install and Remove
- Assemblies Include Brass Head, 12" High Flow Stainless Tube, and 2" Long Galvanized Pipe Nipple





PART NO.	MOLD NIPPLE SIZE "M" (NPT)	PIPE TAP SIZE (NPT)	HIGH FLOW TUBE O.D. (12" Long)	"L"	"C"	"A"	HEX KEY SIZE	NOMINAL CLEARANCE DRILL	ACTUAL O.D.	PRICE EACH
E16N	1/16	1/16	1/8"	1.625"	9/16"	1/2"	5/16"	5/8"	.610"	
E16N-2	1/8	1/16	3/16"	1.687"	9/16"	9/16"	3/8"	3/4"	.735"	
E186N	1/8	1/8	3/16"	1.875"	11/16"	9/16"	3/8"	7/8"	.860"	
E181N	1/8	1/8	3/16"	2.187"	1"	9/16"	3/8"	7/8"	.860"	Call
E146N	1/4	1/8	1/4"	2.187"	11/16"	13/16"	1/2"	1"	.985"	Call
E146N-4	1/4	1/4	1/4"	2.312"	11/16"	7/8"	1/2"	1"	.985"	for Driging
E141N	1/4	1/8	1/4"	2.500"	1"	13/16"	1/2"	1"	.985"	Pricing
E141N-4	1/4	1/4	1/4"	2.625"	1"	7/8"	1/2"	1"	.985"	
E381N-4	3/8	1/4	5/16"	2.625"	1"	7/8"	1/2"	1"	.985"	
E121N-4	1/2	1/4	3/8"	2.812"	1"	1"	1/2"	1¼"	1.235"	

### Hexkey Brass Cascade Heads Only

#### FEATURES:

- Hexkey Cascade Heads use High Flow Stainless Tubes Shown on Previous Page
- Dimensions for These Heads are Shown Above for Corresponding Part Number

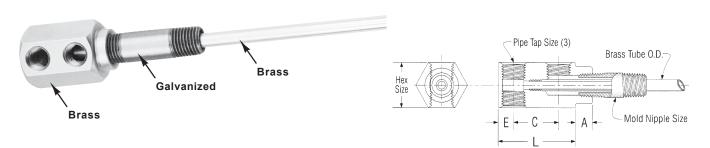


PART NO.	USE WITH HIGH FLOW TUBE NO.	PRICE EACH
E16H	HF125T-	
E16H-2	HF187T-	
E186H	HF187T-	
E181H	HF187T-	Call
E146H	HF250T-	for
E146H-4	HF250T-	
E141H	HF250T-	Pricing
E141H-4	HF250T-	
E381H-4	HF312T-	
E121H-4	HF375T-	



## Nipple Type Cascades

## Nipple Type Cascade Assemblies -



### FEATURES:

- Solid Brass Heads are Precision Machined for Accurate Assembly
- Cascade Assemblies are Available in Special Pipe Tap and Tube Combinations
- Assemblies Include Brass Head, 12" Brass Tube, 2" Long Galvanized Pipe Nipple, and Brass Pipe Plug

PART NO.	MOLD NIPPLE SIZE (NPT)	PIPE TAP SIZE (NPT)	BRASS TUBE O.D.	HEX SIZE	"E"	"C"	"A"	"L"	PRICE EACH
16N	1/8	1/16	3/16"	3/4"	7/32"	1/2"	9/32"	15/16"	
186N	1/8	1/8	3/16"	7/8"	21/64"	11/16"	9/32"	<b>1</b> <sup>11</sup> /32"	
181N	1/8	1/8	3/16"	7/8"	21/64"	1"	9/32"	1 <sup>21</sup> /32"	
146N	1/4	1/8	1/4"	1"	21/64"	11/16"	7/32"	1 <sup>11</sup> /32"	
146N-4	1/4	1/4	1/4"	1"	21/64"	11/16"	7/32"	1 <sup>11</sup> /32"	Call
141N	1/4	1/8	1/4"	1"	21/64"	1"	7/16"	1 <sup>21</sup> /32"	for
141N-4	1/4	1/4	1/4"	1"	21/64"	1"	7/16"	1 <sup>21</sup> /32"	
381N	3/8	1/8	5/16"	1"	11/32"	1"	13/32"	<b>1</b> <sup>11</sup> /16"	Pricing
381N-4	3/8	1/4	5/16"	1"	11/32"	1"	13/32"	<b>1</b> <sup>11</sup> /16"	
121N-4	1/2	1/4	7/16"	11⁄4"	13/32"	1"	9/16"	<b>1</b> <sup>13</sup> /16 <b>"</b>	
341N-4	3/4	3/8	5/8"	11⁄2"	1/2"	11⁄4"	3/4"	2 <sup>1</sup> /4"	

USE

TUBE

NO.

187T-

187T-

187T-

250T-

250T-

250T-

250T-

312T-

312T-

437T-

625T-

PRICE

EACH

Call

for

Pricing

PART

NO.

16H

186H

181H

146H

141H

381H

146H-4

141H-4

381H-4

121H-4

341H-4

### **Cascade Heads Only -**

#### Solid Brass

#### FEATURES:

- · All Holes are Threaded
- Complete with Brass Pipe Plug
- Available with Special Pipe Tap Sizes, Tube Thread Sizes and Hole Locations
- All Dimensions Same as Above for Corresponding Part Number

### Brass Tubes -



#### **Durable Half Hard Brass**

#### **FEATURES**:

- Custom Tubes are Available
  Threaded on One or Both Ends
- Half-hard Temper for Reliable
  Performance
- Bulk Tube Available

PART NO.	TUBE O.D.	TUBE	STANDARD THREAD	THREAD LENGTH	0	VERALL	ERALL LENGTH				
NO.	0.D.	I.D.	INKEAD	LENGIH	12"	18"	24"	36"			
125T-	.125"	.062"	5-44	3/16"							
187T-	.187"	.123"	10-32	3/16"							
250T-	.250"	.170"	<sup>1</sup> /4-28	1/4"	Call for Pricing						
312T-	.312"	.210"	<sup>5</sup> /16 <b>-24</b>	5/16"				0			
375T-	.375"	.273"	<sup>3</sup> /8-24	3/8"	800-627-1033						
437T-	.437"	.307"	<sup>7</sup> /16 <b>-20</b>	7/16"							
625T-	.625"	.495"	<sup>5</sup> /8-18	5/8"							
To order on	onify Port	la and Ova	rall I enoth: Evamr	le: 250T-18							

To order, specify Part No. and Overall Length; Example: 250T-18

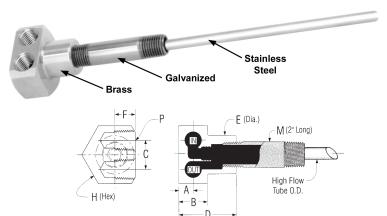


### **Compact Cascade Assemblies**

# Stainless Steel Tube with Solid Brass Head

### **FEATURES:**

- Provide Maximum Cooling Rates with Improved Design and High Flow Tubes
- In/Out Connections are Positioned Sideways for Mounting in Tight Spaces or Thin Mold Plates
- Assemblies Include Brass Head, 12" High Flow Stainless Tube and 2" Long Galvanized Pipe Nipple



PART NO.	MOLD NIPPLE "M" (NPT)	PIPE TAP "P" (NPT)	TUBE O.D. (12" Long)	HEX SIZE "H"	"A"	"B"	"C"	"D"	"E"	"F"	PRICE EACH
ET1816	1/8	1/16	3/16"	15/16"	7/32"	7/16"	1/2"	1"	5/8"	.330"	Call
ET1418	1/4	1/8	1/4"	11⁄4"	5/16"	5/8"	11/16"	11⁄4"	3/4"	.410"	
ET1414	1/4	1/4	1/4"	11⁄2"	3/8"	3/4"	3/4"	11⁄2"	7/8"	.540"	for
ET3814	3/8	1/4	5/16"	1½"	3/8"	3/4"	3/4"	11⁄2"	1"	.540"	Pricing

### **Compact Cascade Heads Only -**

### Solid Brass

#### **FEATURES**:

 All Dimensions Same as Above for Corresponding Part Number



PART NO.	MOLD NIPPLE (NPT)	IN/OUT PIPE (NPT)	USE HIGH FLOW TUBE NO.	PRICE EACH
ET1816H	1/8	1/16	HF187T-	Call
ET1418H	1/4	1/8	HF250T-	for
ET1414H	1/4	1/4	HF250T-	
ET3814H	3/8	1/4	HF312T-	Pricing

