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## BMT FLUID COMPONENTS %SUPERLOK®

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IHN		IHC Hex Coupling		IME Male Elbow
Hex Nipple		IHRC Hex Reducing Coupling	E C	IFT Female Tee
IHLN Hex Long Nipple	0	IPG ISO Parallel Gasket	53	<b>IBT</b> Branch Tee
IHRN Hex Reducing Nipple		IPP Pipe Plug		IRT Run Tee
IA	-	IPC Pipe Cap		Male Tee
Adapter		IFE Female Elbow		IFC Female Cross
IRA Reducing Adapter		ISE Street Elbow		

## **Ordering Information**

#### Example :

## **I** HN - 8N - 8R -1 2 3 4 3 4

Instrumentation Thread Fittings
 Pipe Thread Type

Fitting Type
 Material

3. Pipe Thread Size

## Material Standards & Temperature Rating

Material	Identify	Max. Temperature'F(°C
316 Stainless Steel	Nil	1000(537)
Brass	В	400(204)
Carbon Steel	С	375(190)

## **Pipe Thread Size**

Size (inch)	1/8	1/4	3/8	1/2	3/4	1
ISO Tapered	2R	4R	6R	8R	12R	16R
NPT	2N	4N	6N	8N	12N	16N
ISO Parallel	2G	4G	6G	8G	12G	16G

## **Thread Specifications**

Thread Type		
NPT	N	ASME B1.20.1, SAE AS71051
ISO/BSP (Parallel)	G	ISO 228/1, JIS B 0202
ISO/BSP (Tapered)	R	ISO 7/1, JIS B 0203

R

5

## **Gasket, O-Ring Materials**

Component		Temperature range 'F('C)
Quina	Buna N	-25°C to 110°C (-13°F to 230°F)
O-ring	Fluorocarbon	-28°C to 204°C (-20°F to 400°F)
Copper gasket	Copper	-196°C to 204°C (-325°F to 400°F)

## Installation Instructions

To ensure a leak-tight seal, pipe thread sealant is required on all NPT, ISO tapered threads. The most effective sealing method is Teflon tape. This should be used only on male tapered pipe threads.

CAUTION: Do not use tape on flared, coned, or tube fitting ends. Clean both male and female tapered threads and wrap the tape in the direction of the male tapered thread spiral.

## **Pressure Ratings**

			316 Stain	iless Steel							Carbo	n Steel	
Size Designator	NPT Size	Ma		Fen				Fen			ile		
Designator													
1	1/16	11000	757	6700	461	5500	378	3300	227	11000	757	6700	461
2	1/8	10000	689	6500	447	5000	344	3200	220	10000	689	6500	447
4	1/4	8000	551	6600	454	4000	275	3300	227	8000	551	6600	454
6	3/8	7800	537	5300	365	3900	268	2600	179	7800	537	5300	365
8	1/2	7700	530	4900	337	3800	261	2400	165	7700	530	4900	337
12	3/4	7300	502	4600	316	3600	248	2300	158	7300	502	4600	316
16	1	5300	365	4400	303	2600	179	2200	151	5300	365	4400	303
20	1 1/4	6000	413	5000	344	3000	206	2500	172	6000	413	5000	344
24	1 1/2	5000	344	4600	316	2500	172	2300	158	5000	344	4600	316
32	2	3900	268	3900	268	1900	130	1900	130	3900	268	3900	268

Pressure ratings are based on ASME Code for Pressure Piping B31.3, Process Piping with allowable stress 20,000psi for SS316,

10,000psi/Brass, and 20,000psi/ Carbon steel.

To determine pressure ratings in accordance with B31.1, Power Piping:

- 316 Stainless steel material : multiply by 0.94, Carbon steel material : multiply by 0.75, Brass material ratings remain the same.

• To determine kPa, multiply by 6.89.

## ICN

**Close Nipple** 



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#### Male NPT Threads

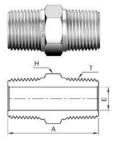
**Male NPT Threads** 

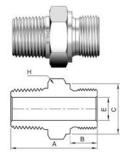
<b>B 1 1 1 1 1 1 1 1 1 1</b>		Dime	
Part Number	NPT Pipe Size		
ICN - 2N	1/8	19.1	4.8
ICN - 4N	1/4	28.4	7.1
ICN - 6N	3/8	28.4	9.6
ICN - 8N	1/2	38.1	11.9
ICN - 12N	3/4	38.1	15.7
ICN - 16N	1	47.8	22.4

» ISO Tapered Threads are available upon request.

## IHN

## Hex Nipple





	NPT		Dimension	
Part Number	Pipe Size			
IHN - 2N	1/8	25.6	4.8	11.1
IHN - 4N	1/4	35.6	7.1	14.2
IHN - 6N	3/8	36.3	9.6	17.4
IHN - 8N	1/2	46.7	11.9	22.2
IHN - 12N	3/4	46.7	15.7	26.9
IHN - 16N	1	58.9	22.4	34.9

\* ISO Tapered Threads are available upon request.

#### Male NPT to Male ISO Parallel Pipe Threads

Desit Manufactory	NPT	ISO/BSP			Dimension		
Part Number	Pipe Size	Pipe Size (ISO 228)					
IHN - 2N - 2G	1/8	1/8	27.7	7.1	13.7	4.1	14.2
IHN - 4N - 4G	1/4	1/4	36.8	11.2	18.0	5.8	19.1
IHN - 6N - 6G	3/8	3/8	37.6	11.2	21.6	7.9	22.2
IHN - 8N - 8G	1/2	1/2	44.4	14.2	25.9	11.9	26.9
IHN - 12N - 12G	3/4	3/4	49.0	15.7	32.0	15.7	33.3
IHN - 16N - 16G	1	1	56.6	18.3	38.9	19.8	41.2

## **IHLN**

## Hex Long Nipple

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### Male NPT Threads

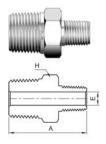
Deut Mounteen	NPT		Dimension	
Part Number	Pipe Size			
IHLN - 2N	1/8	*	4.8	11.1
IHLN - 4N	1/4	*	7.1	14.2
IHLN - 6N	3/8	*	9.6	17.4
IHLN - 8N	1/2		11.9	22.2
IHLN - 12N	3/4		15.7	26.9
IHLN - 16N	1	*	22.4	34.9

NOTE : The length of Nipple "A" is defined by user Part Number Example : IHLN - 8N - 100L(length "A" : 100mm)

\* ISO Tapered Threads are available upon request.

## **IHRN**

## Hex Reducing Nipple



Distanti di secondo di	NPT	Reduced	Dimension			
Part Number	Pipe Size	Pipe Size				
IHRN - 2N - 1N	1/8	1/16	25.6	3.0	11.1	
HRN - 4N - 2N	1/4	1/8	31.0	4.8	14.2	
IHRN - 6N - 2N	3/8	1/8	31.8	4.8	17.4	
HRN - 6N - 4N	3/8	1/4	36.3	7.1	17.4	
HRN - 8N - 2N	1/2	1/8	37.3	4.8	22.2	
HRN - 8N - 4N	1/2	1/4	41.9	7.1	22.2	
HRN - 8N - 6N	1/2	3/8	41.9	9.6	22.2	
HRN-12N - 4N	3/4	1/4	41.9	7.1	26.9	
IHRN-12N - 8N	3/4	1/2	46.7	11.9	26.9	
IHRN-16N - 4N	1	1/4	49.3	7.1	34.9	
HRN-16N - 8N	1	1/2	54.1	11.9	34.9	
IHRN-16N -12N	1	3/4	54.1	15.7	34.9	

\* ISO Tapered Threads are available upon request.

#### Male to Female NPT Threads

Male NPT Threads

	NPT		Dimension	
Part Number	Pipe Size			
IA - 2N	1/8	27.9	4.8	14.2
IA - 4N	1/4	35.6	7.1	19.1
IA - 6N	3/8	38.4	9.6	22.2
IA - 8N	1/2	49.3	11.9	26.9
IA - 12N	3/4	51.3	15.7	33.3
IA - 16N	1	57.9	22.4	41.2

\* ISO Tapered Threads are available upon request.

#### Male ISO Parallel Pipe Threads to Female NPT

Part Number	ISO/BSP Pipe Size	NPT	Dimension					
	(ISO 228)	Pipe Size			С			
IA - 2G - 2N	1/8	1/8	25.1	7.1	13.7	4.1	14.2	
IA - 4G - 4N	1/4	1/4	33.5	11.2	18.0	5.8	19.1	
IA - 6G - 6N	3/8	3/8	35.8	11.2	21.6	7.9	22.2	
IA - 8G - 8N	1/2	1/2	44.2	14.2	25.9	11.9	26.9	
IA - 12G - 12N	3/4	3/4	48.0	15.7	32.0	15.7	33.3	
IA - 16G - 16N	1	1	53.3	18.3	38.9	19.8	41.2	

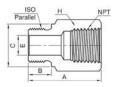
## IA

## Adapter





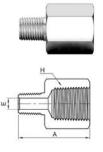






## IRA

### **Reducing Adapter**



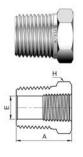
Male to Female NPT Threads

Part Number	Male	Female		Dimension		
Part Number	Pipe Size	Pipe Size				
IRA - 2N - 4N	1/8	1/4	32.0	4.8	19.1	
IRA - 2N - 6N	1/8	3/8	33.8	4.8	22.2	
IRA - 4N - 6N	1/4	3/8	38.1	7.1	22.2	
IRA - 2N - 8N	1/8	1/2	40.1	4.8	26.9	
IRA - 4N - 8N	1/4	1/2	44.7	7.1	26.9	
IRA - 6N - 8N	3/8	1/2	44.4	9.6	26.9	
IRA - 4N -12N	1/4	3/4	47.0	7.1	33.3	
IRA - 6N -12N	3/8	3/4	46.2	9.6	33.3	
IRA - 8N -12N	1/2	3/4	51.3	11.9	33.3	
IRA - 4N -16N	1/4	1	49.8	7.1	41.2	
IRA - 8N -16N	1/2	1	54.9	11.9	41.2	
IRA-12N -16N	3/4	1	55.1	15.7	41.2	

#### \* ISO Tapered Threads are available upon request. Male to Female NPT Threads

## **IRHB**

**Reducing Hex Bushing** 



Doub Manufacture		Female	Dimension			
Part Number	Pipe Size	Pipe Size				
IRHB - 4N - 2N	1/4	1/8	26.9	7.1	14.2	
RHB - 6N - 2N	3/8	1/8	21.8	8.6	17.4	
IRHB - 6N - 4N	3/8	1/4	30.2	9.6	19.1	
IRHB - 8N - 2N	1/2	1/8	27.4	8.6	22.2	
IRHB - 8N - 4N	1/2	1/4	27.4	11.4	22.2	
IRHB - 8N - 6N	1/2	3/8	35.8	11.9	22.2	
IRHB-12N - 4N	3/4	1/4	27.4	11.4	26.9	
IRHB-12N - 6N	3/4	3/8	27.4	15.0	26.9	
IRHB-12N - 8N	3/4	1/2	41.4	15.7	26.9	
IRHB-16N - 4N	1	1/4	34.8	11.4	34.9	
IRHB-16N - 6N	1	3/8	34.8	15.0	34.9	
IRHB-16N - 8N	1	1/2	34.8	18.5	34.9	
IRHB-16N -12N	1	3/4	47.0	22.4	34.9	

\* ISO Tapered Threads are available upon request.

#### **Female NPT Threads**

#### IHC - 2N IHC - 4N IHC - 6N 1/8 20.6 8.6 14.2 30.2 19.1 1/4 11.4 3/8 33.3 15.0 22.2 IHC - 8N 1/2 39.6 18.5 26.9 IHC - 12N 3/4 41.1 23.9 33.3 IHC - 16N 41.2 50.8 29.7 1

» ISO Tapered Threads are available upon request.

### **Female NPT Threads**

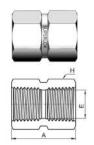
B		Reduced	Dimension		
Part Number	Pipe Size	Pipe Size			
IHRC - 4N - 2N	1/4	1/8	31.0	8.6	19.1
IHRC - 6N - 4N	3/8	1/4	35.1	11.4	22.2
IHRC - 8N - 2N	1/2	1/8	39.6	8.6	26.9
IHRC - 8N - 4N	1/2	1/4	44.4	11.4	26.9
IHRC - 8N - 6N	1/2	3/8	45.2	15.0	26.9
IHRC-12N - 4N	3/4	1/4	46.0	11.4	33.3
IHRC-12N - 8N	3/4	1/2	52.3	18.5	33.3
IHRC-16N - 8N	1	1/2	55.6	18.5	41.2
IHRC-16N -12N	1	3/4	57.2	23.9	41.2

\* ISO Tapered Threads are available upon request.

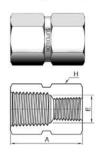
## IHC

IHRC

Hex Coupling



## Hex Reducing Coupling



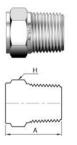
## IPG

**ISO** Parallel Gasket



## IPP

Pipe Plug



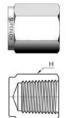
### ISO Parallel Copper Gaskets

Part Number			Dimension	
	Pipe Size			
IPG - 2	1/8	10.2	2.0	16.0
IPG - 4	1/4	13.4	2.0	19.5
IPG - 6	3/8	17.0	2.0	24.0
IPG - 8	1/2	21.2	2.0	29.0
IPG - 12	3/4	27.2	2.0	34.5
IPG - 16	1	34.0	2.0	42.0

#### **Male NPT Threads**

Post Mineters		Dimen	
Part Number	Pipe Size		
IPP - 2N	1/8	19.1	11.1
IPP - 4N	1/4	24.4	14.2
IPP - 6N	3/8	25.1	17.4
IPP - 8N	1/2	30.7	22.2
IPP - 12N	3/4	30.7	26.9
IPP - 16N	1	38.1	34.9

\* ISO Tapered Threads are available upon request.



Part Number	Pipe Size	Dimen	
Part Number	mipe Size		
IPC - 2N	1/8	19.1	14.2
IPC - 4N	1/4	23.1	19.1
IPC - 6N	3/8	26.2	22.2
IPC - 8N	1/2	34.0	26.9
IPC - 12N	3/4	36.6	33.3
IPC - 16N	1	41.1	41.2

\* ISO Tapered Threads are available upon request.

#### Female NPT Threads

Female NPT Threads

National States of the			Dimension	
Part Number	Pipe Size			
IFE - 2N	1/8	8.6	24.0	12.7
IFE - 4N	1/4	11.4	29.0	17.5
IFE - 6N	3/8	15.0	34.5	20.6
IFE - 8N	1/2	18.5	37.0	25.4
IFE - 12N	3/4	23.9	46.5	31.8
IFE - 16N	1	29.7	48.8	42.9

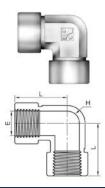
\* ISO Tapered Threads are available upon request.

## IFE

IPC

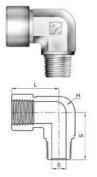
Pipe Cap

Female Elbow



## ISE

Street Elbow



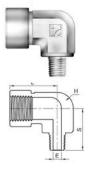
#### Female to Male NPT Threads

Part Number	Dine Size	Dimension				
	Pipe Size					
ISE - 2N	1/8	4.8	24.1	19.6	12.7	
ISE - 4N	1/4	7.1	29.0	26.5	17.5	
ISE - 6N	3/8	9.6	34.5	28.2	20.6	
ISE - 8N	1/2	11.9	37.0	35.3	25.4	
ISE - 12N	3/4	15.7	46.5	39.6	31.8	
ISE - 16N	1	22.4	48.8	49.2	42.9	

\* ISO Tapered Threads are available upon request.

## IRSE

## **Reducing Street Elbow**



#### Female to Male NPT Threads

	Female					
Part Number	Pipe Size	Pipe Size				
IRSE - 2N - 1N	1/8	1/16	3.0	26.4	22.1	12.7
IRSE - 4N - 2N	1/4	1/8	4.8	29.0	22.4	17.5
IRSE - 6N - 4N	3/8	1/4	7.1	34.5	28.2	20.6
IRSE - 8N - 4N	1/2	1/4	7.1	37.0	30.5	25.4
IRSE - 8N - 6N	1/2	3/8	9.6	37.0	30.5	25.4
IRSE -12N - 8N	3/4	1/2	11.9	46.5	39.6	31.8
IRSE -16N - 8N	1	1/2	11.9	48.8	46.5	42.9

#### \* ISO Tapered Threads are available upon request.

#### Male NPT Threads

Barth and	Pipe Size		Dimension	
Part Number				
IME - 2N	1/8	4.8	19.1	12.7
IME - 4N	1/4	7.1	24.5	12.7
IME - 6N	3/8	9.6	26.9	17.5
IME - 8N	1/2	11.9	33.2	20.6
IME - 12N	3/4	15.7	35.3	25.4
IME - 16N	1	22.4	44.5	31.8

\* ISO Tapered Threads are available upon request.

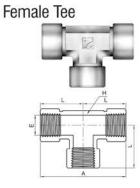
#### Female NPT Threads

Part Number	Pipe Size	Dimension				
IFT - 2N	1/8	48.0	8.6	24.0	12.7	
IFT - 4N	1/4	58.0	11.4	29.0	17.5	
IFT - 6N	3/8	69.0	15.0	34.5	20.6	
IFT - 8N	1/2	74.0	18.5	37.0	25.4	
IFT - 12N	3/4	93.0	23.9	46.5	31.8	
IFT - 16N	1	97.0	29.7	48.5	42.9	

\* ISO Tapered Threads are available upon request.



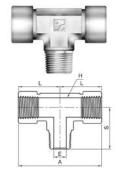




IFT

## IBT

Branch Tee



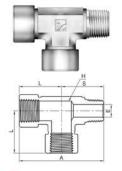
#### Male and Female NPT Threads

Part Number	Pipe Size	Dimension					
IBT - 2N	1/8	48.0	4.8	24.0	19.6	12.7	
IBT - 4N	1/4	58.0	7.1	29.0	26.5	17.5	
IBT - 6N	3/8	69.0	9.6	34.5	28.2	20.6	
IBT - 8N	1/2	74.0	11.9	37.0	35.3	25.4	
IBT - 12N	3/4	93.0	15.7	46.5	39.6	31.8	
IBT - 16N	1	97.0	22.4	48.5	49.2	42.9	

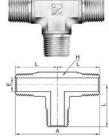
\* ISO Tapered Threads are available upon request.

## IRT

Run Tee

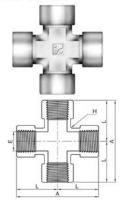


### IMT Male Tee



## IFC

Female Cross



Male and Female NPT Threads
Part Number Pipe Size
IRT - 2N 1/8

Part Number								
	Pipe Size							
IRT - 2N	1/8	43.6	4.8	24.0	19.6	12.7		
IRT - 4N	1/4	56.2	7.1	29.0	26.5	17.5		
IRT - 6N	3/8	62.7	9.6	34.5	28.2	20.6		
IRT - 8N	1/2	72.3	11.9	37.0	35.3	25.4		
IRT - 12N	3/4	86.1	15.7	46.5	39.6	31.8		
IRT - 16N	1	97.7	22.4	48.5	49.2	42.9		
100 -		122 AV 142 AV 142 AV						

\* ISO Tapered Threads are available upon request.

#### Male NPT Threads

Part Number	Pipe Size	Dimension				
IMT - 2N	1/8	38.2	4.8	19.1	12.7	
IMT - 4N	1/4	49.0	7.1	24.5	12.7	
IMT - 6N	3/8	53.8	9.6	26.9	17.5	
IMT - 8N	1/2	66.4	11.9	33.2	20.6	
IMT - 12N	3/4	70.6	15.7	35.3	25.4	
IMT - 16N	1	89.0	22.4	44.5	31.8	

# ISO Tapered Threads are available upon request.

#### Female NPT Threads

Part Number		Dimension				
	Pipe Size					
IFC - 2N	1/8	48.0	8.6	24.0	12.7	
IFC - 4N	1/4	58.0	11.4	29.0	17.5	
IFC - 6N	3/8	69.0	15.0	34.5	20.6	
IFC - 8N	1/2	74.0	18.5	37.0	25.4	
IFC - 12N	3/4	93.0	23.9	46.5	31.8	
IFC - 16N	1	97.0	29.7	48.5	42.9	

ISO Tapered Threads are available upon request.

# **OTHER PRODUCTS**



#### **Superlok Tube Fittings**

High quality dual and single ferrule Tube fittings for the most reliable tube connections. Our tube fitting are available in a broad range of sizes, materials and configurations.

#### Tubing



High quality stainless steel and exotic alloy tubing for industrial process and instrumentation. We proudly represent Alleima (Sandvik), the world leader in development of stainless steels and advanced alloys for industry.





#### Valves

A full range of instrument ball valves, needle valves, check valves and relief valves. Our instrument valves are available in multiple configurations, end connection sizes and materials.

#### **UHP Fittings & Valves**

Ultra-High Purity fittings & valves are used to connect tubing in industries that require extremely clean and contaminant-free systems. The process involves electro-polishing and ultrasonic cleaning with deionized water.



# Unmatched PERFORMANCE & RELIABILITY

# CONTACT US 1.888.898.1967

