3M Forged High Pressure Pipe Fittings Hex Nipple With NPT BSPT

Our Product Introduction

Basic Information

- Place of Origin: CHINA
- Brand Name: DEYE
- Certification: ISO9001:2015 PED
- Model Number: PF-NP-F05
- Minimum Order Quantity: 10PCS
- Price: USD2-USD50 each pc as per different material
- Packaging Details: cartons + ply-wooden cases
- Delivery Time: 7 days for stock items
- Payment Terms: L/C, , T/T, D/P
- Supply Ability: 10000pcs each momth

Product Specification

- Highlight: **Forged High Pressure Pipe Fittings**, **3M High Pressure Pipe Fittings**, **BSPT hex nipple**

More Images

Product Description

3M Forged High Pressure Pipe Fittings Hex Nipple With Npt Bspt

High Quality ASME B16.11 Forged Screw-Threaded Nipples. A Hex. nipple is a length of hex.pipe with male threads on both ends. They are used to fit straight end hose or pipe. These Threaded Pipe Nippple are available in variousshapes, size, specification & thickness as per the clientsrequirments. These Nipples are widely used in variousapplication industry such as oil refineries, chemical processingpetrochemical, cement indutry etc.

Product Information/Product Description/Basis Information/Specification

Forged Hex. Nipple standard

ASME:	ASME 16.11, MSS SP-79, MSS SP-95, 83, 95, 97, BS 3799
DIN:	DIN2605, DIN2615, DIN2616, DIN2617, DIN28011
EN:	EN10253-1, EN10253-2
ASME B16.11	Forged threaded fittings:90-deg elbow,45-deg elbow,tee,cross,coupling,half-coupling,cap,square head plug,hex head plug,round head plug,hex head bushing,flush bushing,street elbows
ASME B16.11	Fogred socket weld fittings:90-deg elbow,45-deg elbow,tee,cross,coupling,half-coupling,cap
MSS SP83	Steel Pipe Unions(socket welding and threaded end)
MSS SP95	swage nipples,bull plug(ends may be threaded,beveled,plain)
MSS SP79	socket welding reducer inserts
MSS SP97	weldolets,threadolets,sockolets,flangolets,elbolet,sweepolets,saddle,nipolets,brazolets,latrolets,insertolets

Material Grades

Carbon Steel ASME B16.11 Forged Threaded Reducing Nipple:
ASTM/ ASME A 105, ASTM/ ASME A 350 LF 2, ASTM / ASME A 53 GR. A & B, ASTM A 106 GR. A, B & C. API 5L GR. B, API 5L X 42, X 46, X 52, X 60, X 65 & X 70. ASTM / ASME A 691 GR A, B & C

ASME B16.11 Stainless Steel Forged Threaded Hex Nipple :
ASTM A182 F304, F304L, F306, F316L, F304H, F309S, F309H, F310S, F310H, F316TI, F316H, F316LN, F317, F317L, F321, F321H, F11, F22, F91, F347, F347H, F904L, ASTM A312/A403 TP304, TP304L, TP316, TP316L

Duplex & Super Duplex Steel ASME B16.11 Forged Threaded Hex Nipple :
ASTM A 182 – F 51, F53, F55 S 31803, S 32205, S 32550, S 32750, S 32760, S 32950.

ASME B16.11 Alloy Steel Forged Threaded Hex Nipple:
ASTM / ASME A 182, ASTM / ASME A 335, ASTM / ASME A 234 GR P 1, P 5, P 9, P 11, P 12, P 22, P 23, P 91, ASTM / ASME A 691 GR 1 CR, 1 1/4 CR, 2 1/4 CR, 5 CR

ASME B16.11 Copper Alloy Steel Forged Threaded Reducing Nipple: ASTM / ASME SB 111 UNS NO. C 10100 , C 10200 , C 10300 , C 10800 , C 12000, C 12200, C 70600 C 71500, ASTM / ASME SB 466 UNS NO. C 70600 (CU -NI- 90/10) , C 71500 (CU -NI- 70/30)

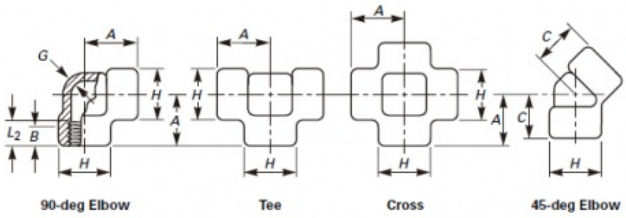
Nickel Alloy Forged Threaded ASME B16.11 Reducing Nipple:
ASTM / ASME SB 336, ASTM / ASME SB 564 / 160 / 163 / 472, UNS 2200 (NICKEL 200) , UNS 2201 (NICKEL 201) , UNS 4400 (MONEL 400) , UNS 8020 (ALLOY 20 / 20 CB 3) , UNS 8825 INCONEL (825) , UNS 6600 (INCONEL 600) , UNS 6601 (INCONEL 601) , UNS 6625 (INCONEL 625) , UNS 10276 (HASTELLOY C 276)

Features /Characteristics

•Strength and Durability
•Leak-Free Performance
•Pressure Ratings: Forged pipe fittings generally have higher pressure ratings compared to fittings made by other methods. This makes them ideal for systems that operate under high pressure conditions.
•Resistance to Corrosion
•Wide Range of Shapes and Sizes
•Quality and Consistency
•Longevity

Technology/ Technical Data Sheets

Dimension of socket welding Fittings for 90-Deg Elbow, Cross, Tee, 45deg elbow



90-deg Elbow Tee Cross 45-deg Elbow

Nominal Pipe Size	Center-to-End Elbows, Tees, and Crosses, A			Center-to-End 45-deg Elbow, C			Outside Diameter of Band, H			Minimum Wall Thickness, G			Min. Length of Thread [Note (1)]	
	2000	3000	6000	2000	3000	6000	2000	3000	6000	2000	3000	6000	B	L_2
1/8	21	21	25	17	17	19	22	22	25	3.18	3.18	6.35	6.4	6.7
1/4	21	25	28	17	19	22	22	25	33	3.18	3.30	6.60	8.1	10.2
3/8	25	28	33	19	22	25	25	33	38	3.18	3.51	6.98	9.1	10.4
1/2	28	33	38	22	25	28	33	38	46	3.18	4.09	8.15	10.9	13.6
3/4	33	38	44	25	28	33	38	46	56	3.18	4.32	8.53	12.7	13.9
1	38	44	51	28	33	35	46	56	62	3.68	4.98	9.93	14.7	17.3
1 1/4	44	51	60	33	35	43	56	62	75	3.89	5.28	10.59	17.0	18.0
1 1/2	51	60	64	35	43	44	62	75	84	4.01	5.56	11.07	17.8	18.4
2	60	64	83	43	44	52	75	84	102	4.27	7.14	12.09	19.0	19.2
2 1/2	76	83	95	52	52	64	92	102	121	5.61	7.65	15.29	23.6	28.9
3	86	95	106	64	64	79	109	121	146	5.99	8.84	16.64	25.9	30.5
4	106	114	114	79	79	79	146	152	152	6.55	11.18	18.67	27.7	33.0

Note: Average of socket wall thickness a round periphery shall be no less than listed values. The minimum values are permitted in localized areas. (All above data are for millimeters)

Application/Usage

Forged high pressure fittings are commonly used in a variety of industries and applications involving high pressure fluid or gas systems. Some specific applications and uses of forged high pressure fittings include: Oil and Gas Industry, Power Generation, Chemical Processing,Pharmaceutical industry, Water Treatment, Mining and Construction, Aerospace and Defense HVAC and Piping

Material Specification Details

Forged high pressure pipefittings here mentioned below are only a few of those covered by B16.11 standard. The physical and chemical values indicated correspond to the latest issued standard, although they are affected by modifications year after year, so we suggest to use them only as a guide.

Chemical Composition

ASTM Designation		Analysis in %							
		C	Mn	Si	Max. P	Max. S	Cr	Ni	Mo
A105 - 05									
		max. 0.35	0.60 - 1.05	0.10 - 0.35	0.035	0.04	max. 0.3 [3] [4]	max. 0.4 [3] [4]	max. 0.12 [3]
A182 - 07									
Grades	F1 F5 F11 Cl. 1	max. 0.25 max. 0.15 0.05 - 0.15	0.60 - 0.90 0.30 - 0.60 0.30 - 0.60	0.15 - 0.35 max. 0.50 0.50 - 1.00	0.045 0.030 0.030	0.045 0.030 0.030	4.00 - 6.00 1.00 - 1.50	max. 0.50	0.44 - 0.65 0.44 - 0.65 0.44 - 0.65
	F11 Cl. 2 / Cl. 3 F22 Cl. 1 / Cl. 3 F304 [1]	0.10 - 0.20 0.05 - 0.15 max. 0.08	0.30 - 0.80 0.30 - 0.60 max. 2.00	0.50 - 1.00 max. 0.5 max. 1.00	0.040 0.040 0.045	0.040 0.040 0.030	1.00 - 1.50 2.00 - 2.50 18.00 - 20.00	8.00 - 11.00	0.44 - 0.65 0.87 - 1.13
	F304 L [1] F316 [1] F316L [1] F321 [2]	max. 0.030 max. 0.08 max. 0.030 max. 0.08	max. 2.00 max. 2.00 max. 2.00 max. 2.00	max. 1.00 max. 1.00 max. 1.00 max. 1.00	0.045 0.045 0.045 0.045	0.030 0.030 0.030 0.030	18.00 - 20.00 16.00 - 18.00 16.00 - 18.00 17.00 - 19.00	8.00 - 13.00 10.00 - 14.00 10.00 - 15.00 9.00 - 12.00	2.00 - 3.00 2.00 - 3.00
A350 - 04									
Grades	LF1 LF2 Cl. 1 LF2 Cl. 2 LF3	max. 0.30 max. 0.30 max. 0.30 max. 0.20	0.60 - 1.35 0.60 - 1.35 0.60 - 1.35 max. 0.90	0.15 - 0.30 0.15 - 0.30 0.20 - 0.35 0.20 - 0.35	0.035 0.035 0.035 0.035	0.040 0.040 0.040 0.040	max. 0.3 [3] [4] max. 0.3 [3] [4] max. 0.3 [3] [4] max. 0.3 [3] [4]	max. 0.4 [3] max. 0.4 [3] max. 0.4 [3] 3.3 - 3.7	max. 0.12 [3] max. 0.12 [3] max. 0.12 [3] max. 0.12 [3]
A694 - 03									
Grades	F42 / F52 / F56 F60 / F65 / F70	max. 0.26	max. 1.4	0.15 - 0.35	0.025	0.025			

PHYSICAL PROPERTIES

ASTM Designatioin		Tensile strength		Fluency limit Elongation in 50 mm.			Stress	Brinell
		Ksi min.	MPa	Ksi min.	MPa	% min.	% min.	Hardness (HB)
A105 - 05								
		70	485	36	250	22	30	187 max.
A182 - 07								
Grades	F1	70	485	40	275	20	30	143 - 192
	F5	70	485	40	275	20	35	143 - 217
	F11 Cl. 1	60	415	30	205	20	45	121 - 174
	F11 Cl. 2	70	485	40	275	20	30	143 - 207
	F11 Cl. 3	75	515	45	310	20	30	156 - 207
	F22 Cl. 1	60	415	30	205	20	35	170 max.
	F22 Cl. 3	75	515	45	310	20	30	
	F304	751	5151	30	205	30	50	156 - 207
	F304L	702	4852	25	170	30	50	
	F316	751	5151	30	205	30	50	
	F316L	702	4852	25	170	30	50	
	F321	751	5151	30	205	30	50	
A350 - 04								
Grades	LF1	60 - 85	415 - 585	30 3 4	205	25	38	197 max.
	LF2 Cl. 1	70 - 95	485 - 655	36 3 4	250	22	30	197 max.
	LF2 Cl. 2	70 - 95	485 - 655	36 3 4	250	22	30	197 max.
	LF3 Cl. 1	70 - 95	485 - 655	37.5 3 4	260	22	35	197 max.
	LF3 Cl. 2	70 - 95	485 - 655	37.5 3 4	260	22	35	197 max.
A694 - 03								
Grades	F42	60	415	42	290	20		
	F52	66	455	52	360	20		
	F56	68	470	56	385	20		
	F60	75	515	60	415	20		
	F65	77	530	65	450	20		
	F70	82	565	70	485	18		

B16.11 Forged high pressure fittings Production Procedure

Raw Material A105& Stainless-steel bars for forged fittings

Cutting the bars to be proper length for forging

Forging Workshop

Stocks of the raw pieces without marching

Sand Blast to clean and smooth the surface

Machining process

Test the threaded to meet standards

Marking the specification and logo on forged fittings

Finished Products and Package

Our Service

1. Technical support
2. Raw Material Quality control.
3. Inspection during the production time.
4. Final Test includes Surface, Dimension, PT Test, RT test, ultrasonic Test
5. Test Report each shipment
4. Flexible Delivery terms. EXW FOB CIF CFR DDP DDU
5. Flexible payment Ways: LC. TT. DP
6. Customized Package includes Logo. Cases Dimension.
7. 18 months quality Guarantee time.
9. Free replacement by air if any error founded
10. 24 hours to Feedback your questions

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