

## PIPE FITTINGS

### INTRODUCTION

Precision pipe fittings are designed and manufactured to very stringent tolerance under rigid quality control procedures to provide leak free connections for petrochemical, chemical, processing plants, oil, gas and power generation industries etc.

Pipe fittings cover many components that connect pipe ends for in-line, offset, multi-port, and mounting configurations. Pipe and pipe fittings are manufactured from a wide variety of materials for the transport of an equally wide variety of solids and fluids.

### RANGE

Sizes ranges from 1/8" through 1".

### MATERIAL SPECIFICATION

Precision pipe fittings are available in various materials which meet the following specification,

SS 316 Bar Stock	ASTMA 479-316, ASTMA 276-316
SS 316 Forgings	ASTMA 182-316
Brass Bar Stock	ASTM B 16, ASTM B 453
Brass Forgings	ASTM B 283
Carbon Steel Bar Stock	ASTMA 108
Carbon Steel Forgings	ASTMA 105

Straight fittings machined from Bar Stock.

Elbows, Tees and Crosses machined from close grain forgings.

### THREAD SPECIFICATION

NPT Threads	ANSI B1.20.1, SAE AS71051
ISO / BSP (Parallel) Threads	ISO 228, BS2779, JIS B 0202
ISO / BSP (Tapered) Threads	ISO 7/1, BS21, JIS B 0203

All exposed threads protected with plastic caps to prevent damage and packed in sealed plastic bag.

Working pressures calculated in accordance with Power piping code ANSI B31.1 and Refiner piping code ANSI B31.3.

**PIPE FITTINGS**

**INDEX**

**STRAIGHT FITTINGS**

CLOSE NIPLES	Page 03
HEX NIPPLES	Page 04
HEX REDUCING NIPPLES	Page 05
HEX LONG NIPPLES	Page 06
ADAPTERS	Page 07
REDUCING ADAPTERS	Page 08
REDUCING BUSHINGS	Page 09
HEX COUPLINGS	Page 10

**ELBOW FITTINGS**

ELBOWS	Page 11
STREET ELBOWS	Page 12
MALE ELBOWS	Page 13

**TEE FITTINGS**

TEES	Page 14
STREET TEES	Page 15
BRANCH TEES	Page 16
MALE TEES	Page 17

**CROSS FITTINGS**

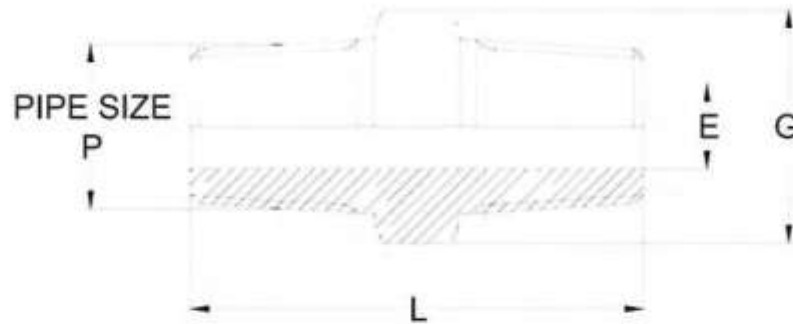
CROSSES	Page 18
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**SPARE FITTINGS**

PIPE CAPS	Page 19
PIPE PLUGS	Page 20

# KURAT ENTERPRISE

## 2" CLOSE NIPPLES



### Male NPT Threads X Male NPT Threads

Pipe Size (P) NPT	$\Phi G$	L		$\Phi E$		PART NO.
Inch	Inch	Inch	(mm)	Inch	(mm)	
1/8 -27	7/16	0.75	19.1	0.19	4.8	2P-CNN
1/4 -18	9/16	1.12	28.4	0.28	7.1	4P-CNN
3/8 -18	11/16	1.12	28.4	0.38	9.6	6P-CNN
1/2 -14	7/8	1.5	38.1	0.47	11.9	8P-CNN
3/4 -14	1 1/16	1.5	38.1	0.62	15.7	12P-CNN
1 -11.5	1 3/8	1.88	47.8	0.88	22.4	16P-CNN

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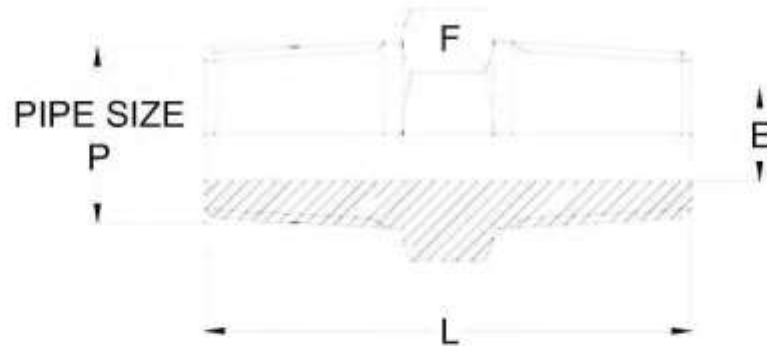
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# KURAT ENTERPRISE

## HEX NIPPLES



### Male NPT Threads X Male NPT Threads

Pipe Size (P) NPT	Hex F	L		$\Phi E$		PART NO.
Inch	Inch	Inch	(mm)	Inch	(mm)	
1/16 -27	5/16	1.01	25.6	0.12	3.0	1P-HNN
1/8 -27	7/16	1.01	25.6	0.19	4.8	2P-HNN
1/4 -18	9/16	1.4	35.6	0.28	7.1	4P-HNN
3/8 -18	11/16	1.43	36.3	0.38	9.6	6P-HNN
1/2 -14	7/8	1.84	46.7	0.47	11.9	8P-HNN
3/4 -14	1 1/16	1.84	46.7	0.62	15.7	12P-HNN
1 -11.5	1 3/8	2.32	58.9	0.88	22.4	16P-HNN

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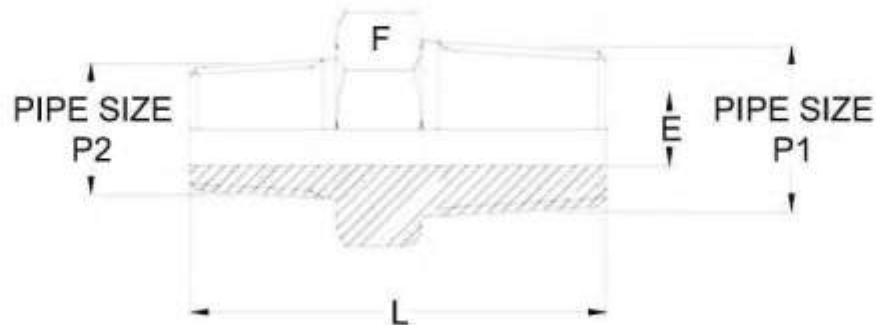
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# KURAT ENTERPRISE

## HEX REDUCING NIPPLES



### Male NPT Threads X Male NPT Threads

Pipe Size (P1) NPT	Pipe Size (P2) NPT	Hex F	L		ΦE		PART NO.
Inch	Inch	Inch	Inch	(mm)	Inch	(mm)	
1/8 -27	1/16 -27	7/16	1.01	25.6	0.12	3.0	2-1P-HRNN
1/4 -18	1/8 -27	9/16	1.22	31.0	0.19	4.8	4-2P-HRNN
3/8 -18	1/8 -27	11/16	1.25	31.8	0.19	4.8	6-2P-HRNN
3/8 -18	1/4 -18	11/16	1.43	36.3	0.28	7.1	6-4P-HRNN
1/2 -14	1/8 -18	7/8	1.47	37.3	0.19	4.8	8-2P-HRNN
1/2 -14	1/4 -18	7/8	1.65	41.9	0.28	7.1	8-4P-HRNN
1/2 -14	3/8 -18	7/8	1.65	41.9	0.38	9.7	8-6P-HRNN
3/4 -14	1/4 -18	1 1/16	1.65	41.9	0.28	7.1	12-4P-HRNN
3/4 -14	1/2 -14	1 1/16	1.84	46.7	0.47	11.9	12-8P-HRNN
1 -11.5	1/4 -18	1 3/8	1.94	49.3	0.28	7.1	16-4P-HRNN
1 -11.5	1/2 -14	1 3/8	2.13	54.1	0.47	11.9	16-8P-HRNN
1 -11.5	3/4 -14	1 3/8	2.13	54.1	0.62	15.7	16-12P-HRNN

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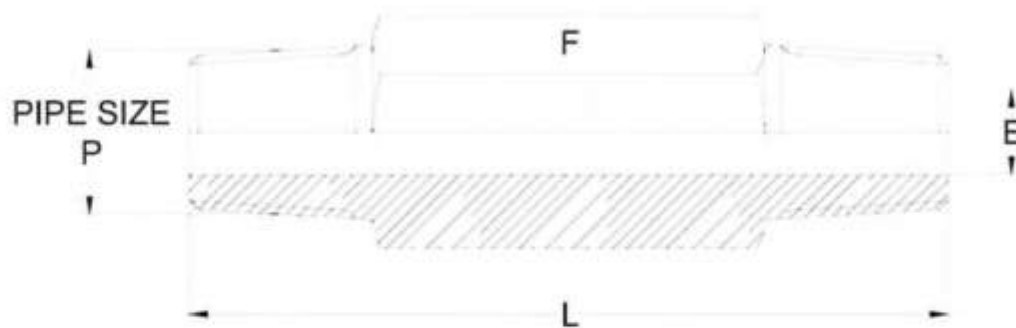
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# KURAT ENTERPRISE

## HEX LONG NIPPLES



### Male NPT Threads X Male NPT Threads

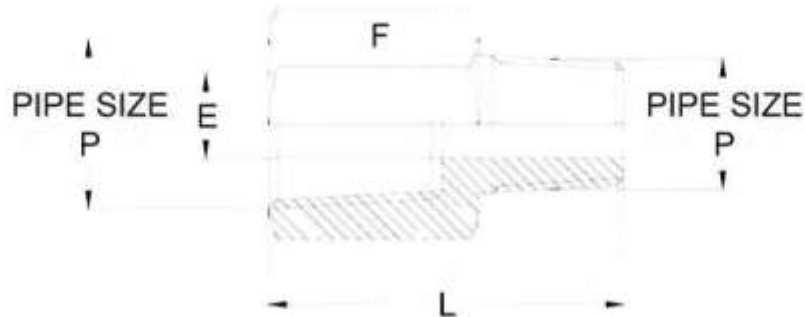
Pipe Size (P) NPT	Hex F	L ( Available Lengths ) - Inch							Φ E		PART NO.
		1.5	2.0	2.5	3.0	4.0	6.0	Inch	(mm)		
1/8 -27	7/16	A	A	A	A	N/A	N/A	0.19	4.8	2P-HLNN	
1/4 -18	9/16	A	A	A	A	A	N/A	0.28	7.1	4P-HLNN	
3/8 -18	11/16	A	A	A	A	A	N/A	0.38	9.6	6P-HLNN	
1/2 -14	7/8	N/A	A	N/A	A	A	A	0.47	11.9)	8P-HLNN	
3/4 -14	1 1/16	N/A	A	N/A	A	A	N/A	0.62	15.7	12P-HLNN	
1 -11.5	1 3/8	N/A	N/A	N/A	A	A	N/A	0.88	22.4	16P-HLNN	

NOTE :- A = Available, N/A = Not Available

To order , insert the available length as a suffix. For Example : 2P-HLNN-1.5

# KURAT ENTERPRISE

## ADAPTERS



### Female NPT Threads X Male NPT Threads

Pipe Size (P) NPT	Hex F	L		Φ E		PART NO.
Inch	Inch	Inch	(mm)	Inch	(mm)	
1/8 -27	9/16	1.10	27.9	0.19	4.8	2P-AN
1/4 -18	3/4	1.40	35.6	0.28	7.1	4P-AN
3/8 -18	7/8	1.51	38.4	0.38	9.6	6P-AN
1/2 -14	1 1/16	1.94	49.3	0.47	11.9	8P-AN
3/4 -14	1 5/16	2.02	51.3	0.62	15.7	12P-AN
1 -11.5	1 5/8	2.28	57.9	0.88	22.4	16P-AN

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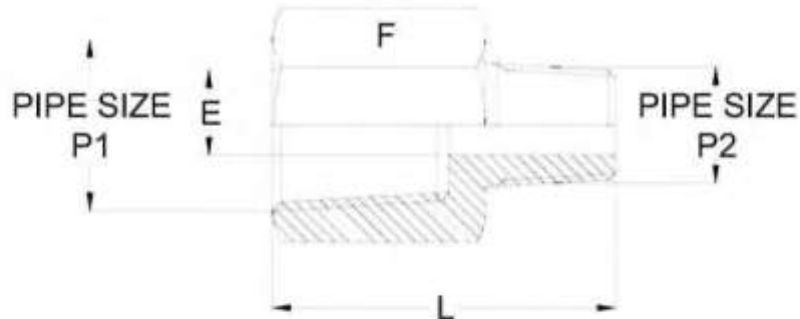
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# KURAT ENTERPRISE

## REDUCING ADAPTERS



### Female NPT Threads X Male NPT Threads

Pipe Size (P1) Female NPT	Pipe Size (P2) Male NPT	Hex F	L		Φ E		PART NO.
Inch	Inch	Inch	Inch	(mm)	Inch	(mm)	
1/8 -27	1/16 -27	9/16	1.09	27.7	0.12	3.0	2-1P-RAN
1/4 -18	1/8 -27	3/4	1.26	32.0	0.19	4.8	4-2P-RAN
3/8 -18	1/8 -27	7/8	1.33	33.8	0.19	4.8	6-2P-RAN
3/8 -18	1/4 -18	7/8	1.50	38.1	0.28	7.1	6-4P-RAN
1/2 -14	1/8 -27	1 1/16	1.58	40.1	0.19	4.8	8-2P-RAN
1/2 -14	1/4 -18	1 1/16	1.76	44.7	0.28	7.1	8-4P-RAN
1/2 -14	3/8 -18	1 1/16	1.75	44.5	0.38	9.7	8-6P-RAN
3/4 -14	1/4 -18	1 5/16	1.85	47.0	0.28	7.1	12-4P-RAN
3/4 -14	3/8 -18	1 5/16	1.82	46.2	0.38	9.7	12-6P-RAN
3/4 -14	1/2 -14	1 5/16	2.02	51.3	0.47	11.9	12-8P-RAN
1 -11.5	1/4 -18	1 5/8	1.96	49.8	0.28	7.1	16-4P-RAN
1 -11.5	1/2 -14	1 5/8	2.16	54.9	0.47	11.9	16-8P-RAN
1 -11.5	3/4 -14	1 5/8	2.17	55.1	0.62	15.7	16-12P-RAN

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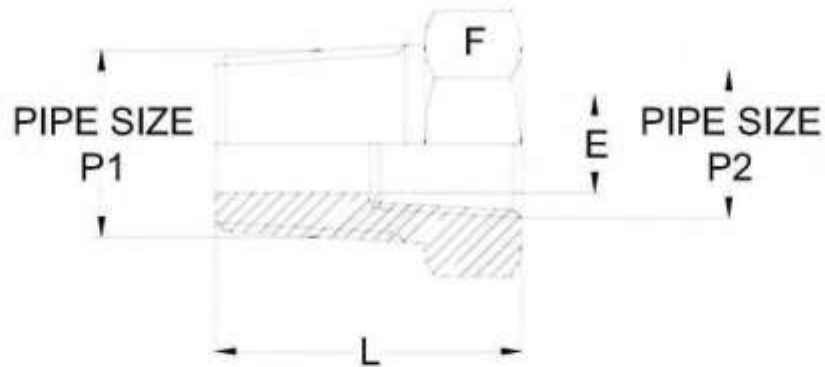
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## REDUCING BUSHINGS

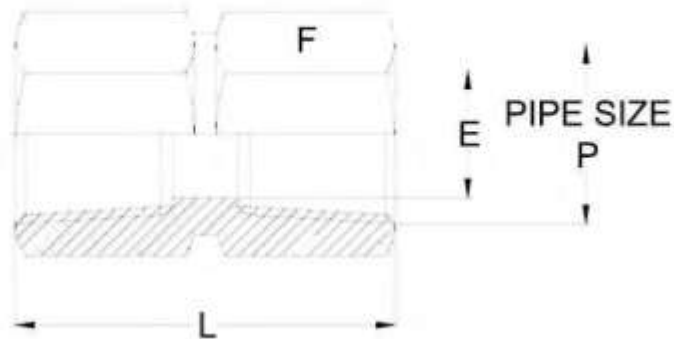


### Male NPT Threads X Female NPT Threads

Pipe Size (P1) Male NPT	Pipe Size (P2) Female NPT	Hex F	L		Φ E		PART NO.
Inch	Inch	Inch	Inch	(mm)	Inch	(mm)	
1/8 -27	1/16 -27	7/16	1.03	26.2	0.19	4.8	2-1P-RBN
1/4 -18	1/8 -27	9/16	1.06	26.9	0.28	7.1	4-2P-RBN
3/8 -18	1/8 -27	11/16	0.86	21.8	0.34	8.6	6-2P-RBN
3/8 -18	1/4 -18	3/4	1.19	30.2	0.38	9.7	6-4P-RBN
1/2 -14	1/8 -27	7/8	1.08	27.4	0.34	8.6	8-2P-RBN
1/2 -14	1/4 -18	7/8	1.08	27.4	0.45	11.4	8-4P-RBN
1/2 -14	3/8 -18	7/8	1.41	35.8	0.47	11.9	8-6P-RBN
3/4 -14	1/4 -18	1 1/16	1.08	27.4	0.45	11.4	12-4P-RBN
3/4 -14	3/8 -18	1 1/16	1.08	27.4	0.59	15.0	12-6P-RBN
3/4 -14	1/2 -14	1 1/16	1.63	41.4	0.62	15.7	12-8P-RBN
1 -11.5	1/4 -18	1 3/8	1.37	34.8	0.45	11.4	16-4P-RBN
1 -11.5	3/8 -18	1 3/8	1.37	34.8	0.59	15.0	16-6P-RBN
1 -11.5	1/2 -14	1 3/8	1.37	34.8	0.73	18.5	16-8P-RBN
1 -11.5	3/4 -14	1 3/8	1.85	47.0	0.88	22.4	16-12P-RBN

# KURAT ENTERPRISE

## HEX COUPLINGS



### Female NPT Threads X Female NPT Threads

Pipe Size (P) NPT	Hex F	L		Φ E		PART NO.
Inch	Inch	Inch	(mm)	Inch	(mm)	
1/8 -27	9/16	0.81	20.6	0.34	8.6	2P-HCN
1/4 -18	3/4	1.19	30.2	0.45	11.4	4P-HCN
3/8 -18	7/8	1.31	33.3	0.59	15.0	6P-HCN
1/2 -14	1 1/16	1.56	39.6	0.73	18.5	8P-HCN
3/4 -14	1 5/16	1.62	41.1	0.94	23.9	12P-HCN
1 -11.5	1 5/8	2.00	50.8	1.17	29.7	16P-HCN

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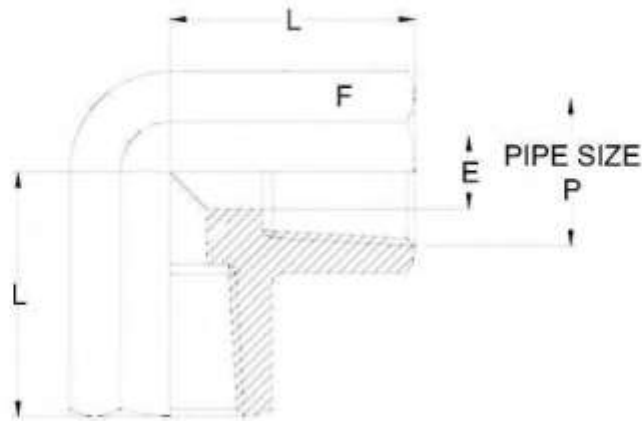
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# KURAT ENTERPRISE

## ELBOWS



### Female NPT Threads X Female NPT Threads

Pipe Size (P) NPT	Hex F	L		Φ E		PART NO.
Inch	Inch	Inch	(mm)	Inch	(mm)	
1/8 -27	9/16	0.66	16.8	0.19	4.8	2P-EN
1/4 -18	3/4	0.88	22.4	0.28	7.1	4P-EN
3/8 -18	7/8	1.02	25.9	0.38	9.6	6P-EN
1/2 -14	1 1/16	1.23	31.2	0.47	11.9	8P-EN
3/4 -14	1 5/16	1.36	34.5	0.62	15.7	12P-EN
1 -11.5	1 5/8	1.62	41.1	0.88	22.4	16P-EN
1 1/4 -11.5	1 7/8	1.70	43.2	1.25	31.8	20P-EN
1 1/2 -11.5	2 1/2	2.08	52.8	1.50	38.1	24P-EN
2 -11.5	2 7/8	2.39	60.7	1.94	49.2	32P-EN

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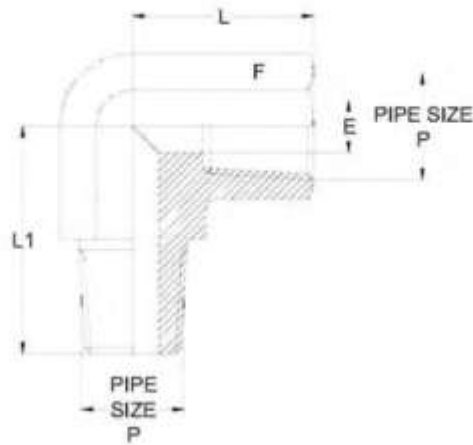
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# KURAT ENTERPRISE

## STREET ELBOWS



### Female NPT Threads X Male NPT Threads

Pipe Size (P) NPT	Hex F	L	L1	$\Phi$ E	PART NO.			
Inch	Inch	Inch	(mm)	Inch	(mm)	Inch	(mm)	
1/8 -27	9/16	0.66	16.8	0.80	20.3	0.19	4.8	2P-SEN
1/4 -18	3/4	0.88	22.4	1.09	27.7	0.28	7.1	4P-SEN
3/8 -18	7/8	1.02	25.9	1.22	31.0	0.38	9.6	6P-SEN
1/2 -14	1 1/16	1.23	31.2	1.47	37.3	0.47	11.9	8P-SEN
3/4 -14	1 5/16	1.36	34.5	1.59	40.4	0.62	15.7	12P-SEN
1 -11.5	1 5/8	1.62	41.1	1.97	50.0	0.88	22.4	16P-SEN
1 1/4 -11.5	1 7/8	1.70	43.2	2.38	60.5	1.25	31.8	20P-SEN
1 1/2 -11.5	2 1/2	2.08	52.8	2.64	67.1	1.50	38.1	24P-SEN
2 -11.5	2 7/8	2.39	60.7	3.00	76.2	1.94	49.2	32P-SEN

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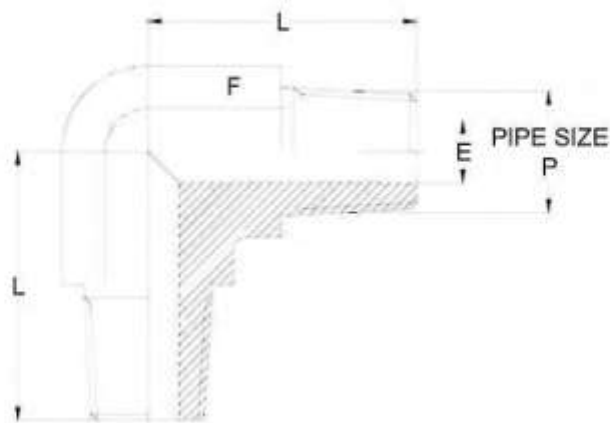
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# KURAT ENTERPRISE

## MALE ELBOWS



### Male NPT Threads X Male NPT Threads

Pipe Size (P) NPT	Hex F	L		Φ E		PART NO.
Inch	Inch	Inch	(mm)	Inch	(mm)	
1/8 -27	9/16	0.80	20.3	0.19	4.8	2P-MEN
1/4 -18	3/4	1.09	27.7	0.28	7.1	4P-MEN
3/8 -18	7/8	1.22	31.0	0.38	9.6	6P-MEN
1/2 -14	1 1/16	1.47	37.3	0.47	11.9	8P-MEN
3/4 -14	1 5/16	1.59	40.4	0.62	15.7	12P-MEN
1 -11.5	1 5/8	1.97	50.0	0.88	22.4	16P-MEN
1 1/4 -11.5	1 7/8	2.38	60.5	1.25	31.8	20P-MEN
1 1/2 -11.5	2 1/2	2.64	67.1	1.50	38.1	24P-MEN
2 -11.5	2 7/8	3.00	76.2	1.94	49.2	32P-MEN

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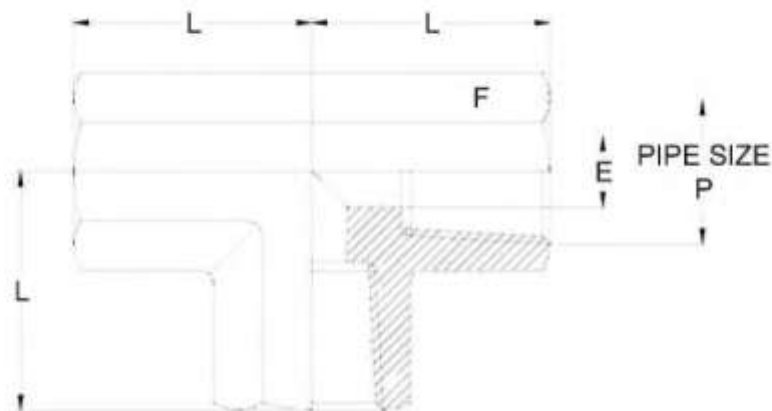
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# KURAT ENTERPRISE

## TEES



### Female NPT Threads

Pipe Size (P) NPT	Hex F	L		Φ E		PART NO.
Inch	Inch	Inch	(mm)	Inch	(mm)	
1/8 -27	9/16	0.66	16.8	0.19	4.8	2P-TN
1/4 -18	3/4	0.88	22.4	0.28	7.1	4P-TN
3/8 -18	7/8	1.02	25.9	0.38	9.6	6P-TN
1/2 -14	1 1/16	1.23	31.2	0.47	11.9	8P-TN
3/4 -14	1 5/16	1.36	34.5	0.62	15.7	12P-TN
1 -11.5	1 5/8	1.62	41.1	0.88	22.4	16P-TN
1 1/4 -11.5	1 7/8	1.70	43.2	1.25	31.8	20P-TN
1 1/2 -11.5	2 1/2	2.08	52.8	1.50	38.1	24P-TN
2 -11.5	2 7/8	2.39	60.7	1.94	49.2	32P-TN

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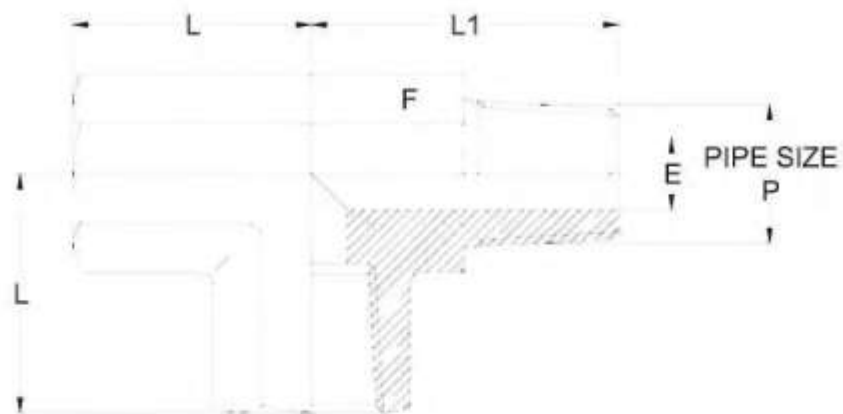
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# KURAT ENTERPRISE

## STREET TEES



### Male And Female NPT Threads

Pipe Size (P) NPT	Hex F	L		L1		Φ E		PART NO.
Inch	Inch	Inch	(mm)	Inch	(mm)	Inch	(mm)	
1/8 -27	9/16	0.66	16.8	0.80	20.3	0.19	4.8	2P-STN
1/4 -18	3/4	0.88	22.4	1.09	27.7	0.28	7.1	4P-STN
3/8 -18	7/8	1.02	25.9	1.22	31.0	0.38	9.6	6P-STN
1/2 -14	1 1/16	1.23	31.2	1.47	37.3	0.47	11.9	8P-STN
3/4 -14	1 5/16	1.36	34.5	1.59	40.4	0.62	15.7	12P-STN
1 -11.5	1 5/8	1.62	41.1	1.97	50.0	0.88	22.4	16P-STN
1 1/4 -11.5	1 7/8	1.70	43.2	2.38	60.5	1.25	31.8	20P-STN
1 1/2 -11.5	2 1/2	2.08	52.8	2.64	67.1	1.50	38.1	24P-STN
2 -11.5	2 7/8	2.39	60.7	3.00	76.2	1.94	49.2	32P-STN

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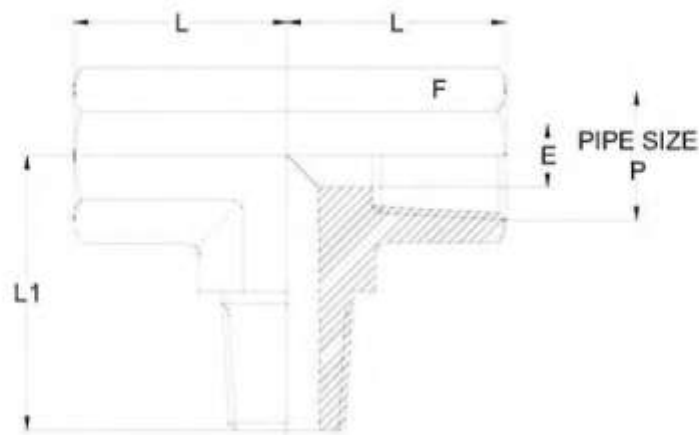
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# KURAT ENTERPRISE

## BRANCH TEES



### Male And Female NPT Threads

Pipe Size (P) NPT	Hex F	L		L1		Φ E		PART NO.
Inch	Inch	Inch	(mm)	Inch	(mm)	Inch	(mm)	
1/8 -27	9/16	0.66	16.8	0.80	20.3	0.19	4.8	2P-STN
1/4 -18	3/4	0.88	22.4	1.09	27.7	0.28	7.1	4P-STN
3/8 -18	7/8	1.02	25.9	1.22	31.0	0.38	9.6	6P-STN
1/2 -14	1 1/16	1.23	31.2	1.47	37.3	0.47	11.9	8P-STN
3/4 -14	1 5/16	1.36	34.5	1.59	40.4	0.62	15.7	12P-STN
1 -11.5	1 5/8	1.62	41.1	1.97	50.0	0.88	22.4	16P-STN
1 1/4 -11.5	1 7/8	1.70	43.2	2.38	60.5	1.25	31.8	20P-STN
1 1/2 -11.5	2 1/2	2.08	52.8	2.64	67.1	1.50	38.1	24P-STN
2 -11.5	2 7/8	2.39	60.7	3.00	76.2	1.94	49.2	32P-STN

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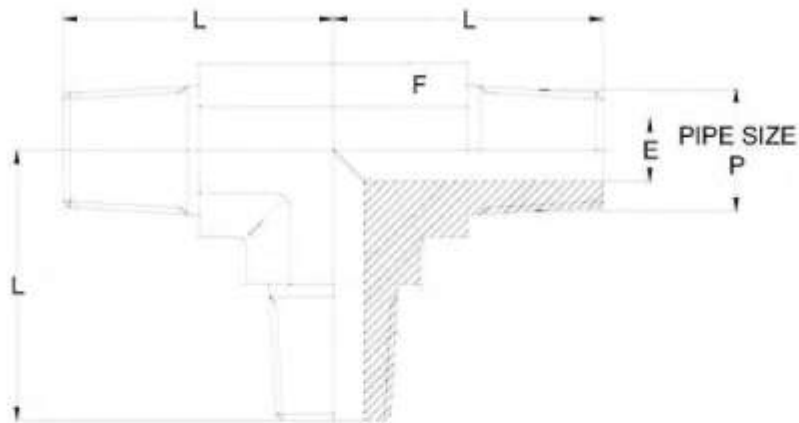
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# KURAT ENTERPRISE

## MALE TEES



### Male NPT Threads

Pipe Size (P) NPT	Hex F	L1		ΦE		PART NO.
Inch	Inch	Inch	(mm)	Inch	(mm)	
1/8 -27	7/16	0.80	20.3	0.19	4.8	2P-MTN
1/4 -18	9/16	1.09	27.7	0.28	7.1	4P-MTN
3/8 -18	11/16	1.22	31.0	0.38	9.6	6P-MTN
1/2 -14	7/8	1.47	37.3	0.47	11.9	8P-MTN
3/4 -14	1 1/16	1.59	40.4	0.62	15.7	12P-MTN
1 -11.5	1 3/8	1.97	50.0	0.88	22.4	16P-MTN
1 1/4 -11.5	1 3/4	2.38	60.5	1.25	31.8	20P-MTN
1 1/2 -11.5	2	2.64	67.1	1.50	38.1	24P-MTN
2 -11.5	2 1/2	3.00	76.2	1.94	49.2	32P-MTN

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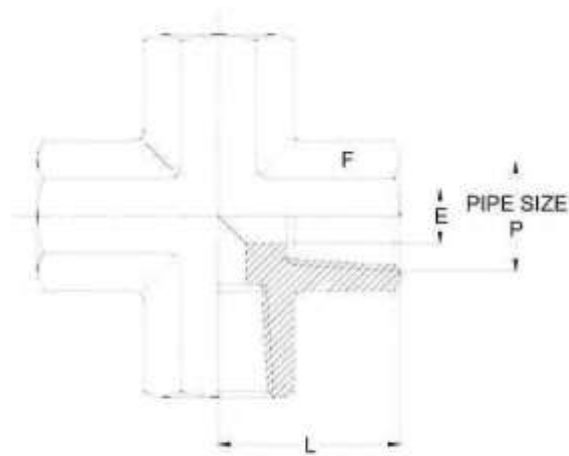
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# KURAT ENTERPRISE

## CROSSES



### Female NPT Threads

Pipe Size (P) NPT	Hex F	L		Φ E		PART NO.
Inch	Inch	Inch	(mm)	Inch	(mm)	
1/8 -27	9/16	0.66	16.8	0.19	4.8	2P-CSN
1/4 -18	3/4	0.88	22.4	0.28	7.1	4P-CSN
3/8 -18	7/8	1.02	25.9	0.38	9.6	6P-CSN
1/2 -14	1 1/16	1.23	31.2	0.47	11.9	8P-CSN
3/4 -14	1 5/16	1.36	34.5	0.62	15.7	12P-CSN
1 -11.5	1 5/8	1.62	41.1	0.88	22.4	16P-CSN
1 1/4 -11.5	1 7/8	1.70	43.2	1.25	31.8	20P-CSN
1 1/2 -11.5	2 1/2	2.08	52.8	1.50	38.1	24P-CSN
2 -11.5	2 7/8	2.39	60.7	1.94	49.2	32P-CSN

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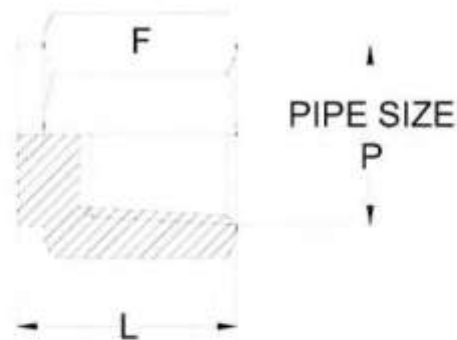
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# KURAT ENTERPRISE

## PIPE CAPS



### Female NPT Threads

Pipe Size (P) NPT	Hex F	L		PART NO.
Inch	Inch	Inch	(mm)	
1/8 -27	9/16	0.75	19.1	2P-CAP
1/4 -18	3/4	0.91	23.1	4P-CAP
3/8 -18	7/8	1.03	26.2	6P-CAP
1/2 -14	1 1/16	1.34	34.0	8P-CAP
3/4 -14	1 5/16	1.44	36.6	12P-CAP
1 -11.5	1 5/8	1.62	41.1	16P-CAP

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# KURAT ENTERPRISE

## PIPE PLUGS



### Male NPT Threads

Pipe Size (P) NPT	Hex F	L		PART NO.
Inch	Inch	Inch	(mm)	
1/16 -27	5/16	0.75	19.1	1P-PLUG
1/8 -27	7/16	0.75	19.1	2P-PLUG
1/4 -18	9/16	0.96	24.4	4P-PLUG
3/8 -18	11/16	0.99	25.1	6P-PLUG
1/2 -14	7/8	1.21	30.7	8P-PLUG
3/4 -14	1 1/16	1.21	30.7	12P-PLUG
1 -11.5	1 3/8	1.5	38.1	16P-PLUG

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