



MASTERHOSE

REACT . ADAPT . DELIVER



HYDRAULIC PRODUCT CATALOGUE

HOSE | FITTINGS | ADAPTORS | ACCESSORIES | EQUIPMENT

2026

WORLD-CLASS MANUFACTURING.

CONTROLLED FROM START TO FINISH

At Masterhose, quality is **engineered** into every step of the manufacturing process. Our global manufacturing footprint includes five state-of-the-art hose factories and one dedicated fittings factory, giving us **complete control** over production from raw material selection through to final testing and dispatch.

Our vertically integrated manufacturing model insures **consistency, traceability, system compatabilty** and **long-term reliability** across every hose and fitting we produce. Backed by **advanced manufacturing technology**, rigorous quality testing, global supply networks, and experienced technical support. **Masterhose** delivers dependable solutions for hydraulic, industrial, mining, transport, construction and OEM applications.



+30 Years Australian Industry Expertise

Three decades of proven experience serving WA's toughest industries since 1994



Global Sourcing with Local Service

Access to world-class hydraulic and industrial hose technology through international supply networks



Industry-Leading Technical Support

Expert advice from experienced hydraulic specialists who ensure optimal system performance



Comprehensive Multi-Industry Solutions

Full range of hoses, fittings, custom assemblies, and maintenance services under one roof



BUILT ON QUALITY.
BACKED BY CONTROL.

From raw materials to final dispatch, every stage is managed under strict Masterhose specifications – delivering reliability, performance and peace of mind, every time.

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WHO ARE **MASTERHOSE**?

Founded in 1994, Masterhose is a leading supplier of high-quality hydraulic and industrial hose and fitting solutions, proudly serving the mining, heavy, agricultural, and oil & gas sectors for 31 years. Our extensive industry experience, coupled with global sourcing expertise, ensures that our customers receive the right products and services to meet and exceed their specific needs. As a trusted name in Western Australia and beyond, Masterhose continues to expand its reach, with our rapid growth of our MASTERHOSE brand, which has set new standards in hydraulic hose and fitting technology.

WHY CHOOSE **MASTERHOSE**?

With an absolute commitment to quality, innovation, and customer satisfaction, Masterhose promises not only to deliver top of the range products, but to also be industry leaders in the expert advice and support that our experienced team can supply, in order to ensure the optimal performance of all your hydraulic and industrial systems. We take pride in our ability to source and provide tailored solutions to any problem you might face.

MISSION **STATEMENT**

“At Masterhose, our mission is to provide innovative, reliable, and high-quality hydraulic and industrial solutions that drive the success of our customers across the mining, oil & gas, and industrial sectors worldwide. With over 30 years of industry expertise — and the strength of five state-of-the-art hose manufacturing plants and one advanced fittings factory — we deliver unmatched capability, consistency, and performance.

We are committed to exceptional service, strong technical support, and building long-term partnerships that empower our customers’ growth. With an unwavering focus on safety, efficiency, and sustainability, Masterhose strives to lead the industry in every aspect of quality, service, and supply.”



NATIONAL DISTRIBUTION NETWORK



MASTERHOSE LOCATIONS

Masterhose HQ - Landsdale, WA
Hosemart Midwest - Geraldton, WA
Hosemart Wangara - Perth, WA
Hosemart Goulburn - Goulburn, NSW

DISTRIBUTOR LOCATIONS

Hose Pro Southwest - Bunbury, WA
Port Hedland, WA
Total Flex - Burnie, TAS
Total Flex - Hobart, TAS
Total Flex - Launceston, TAS
VMech Solutions - Sunshine Coast, QLD

Built on the strength of MASTERHOSE, **HOSEMART** is the dedicated service division delivering expert hose assembly, repairs, and technical support through our growing network of service locations across Australia. Supported by our trusted **distributor** network and proven supply systems, MASTERHOSE continues to expand its reach nationwide.

GLOBAL DISTRIBUTION NETWORK



GLOBAL PARTNERS

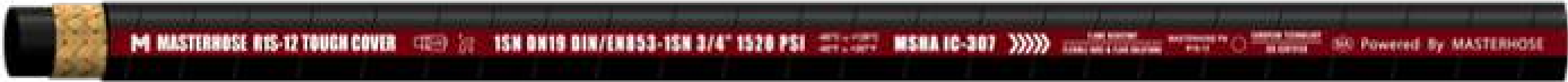


Through our international manufacturing and **distribution** network, **Masterhose** delivers reliable hydraulic and industrial solutions across global markets. Backed by strategic partnerships, advanced manufacturing capability, and dependable logistics, we provide consistent supply, technical support, and proven performance wherever our customers operate.

MASTERHOSE HYDRAULIC HOSE



MASTERHOSE SAE R1 - 1 WIRE HYDRAULIC HOSE



Part #	ID		OD	MAX WP		MIN BP		BR	Weight
	Inch	mm	mm	Bar	PSI	Bar	PSI	mm	KG
R1S-04	1/4"	6.35	12.9	225	3260	900	13040	100	0.21
R1S-06	3/8"	9.53	17.1	180	2610	720	10440	125	0.3
R1S-08	1/2"	12.7	20.4	160	2320	640	9280	180	0.38
R1S-10	5/8"	15.88	23.7	130	1885	520	7540	205	0.48
R1S-12	3/4"	19.05	27.7	105	1520	420	6080	240	0.59
R1S-16	1"	25.4	35.8	88	1280	352	5120	300	0.9
R1S-20	1.1/4"	31.8	42.5	63	910	252	6340	420	1
R1S-24	1.1/2"	38.1	49	50	720	200	2880	500	1.15
R1S-32	2"	50.8	62.3	40	580	160	2320	630	1.25

Construction: Steel wire braided hydraulic hose. Safety Factor: 4:1

Inner Tube: Black oil-resistant synthetic rubber

Reinforcement: One braid of high tensile steel wire.

Cover: Smooth FLAME-RESISTANT TOUGH COVER oil, temperature and weather resistant with 30% more abrasion resistance than standard cover.

Fittings: GM series

Approvals: Exceeds SAE DIN EN853, MSHA IC-307 Tested Impulse Cycles: 500,000

Application: High pressure service with Petroleum based hydraulic fluids and oils, water-glycol, oil grease and lubricants. For air applications above 100psi, outer cover should be perforated.

Temp Range: -40°c to +125°c

MASTERHOSE SAE R2SC - COMPACT 2 WIRE HYDRAULIC HOSE



Part #	ID		OD	MAX WP		MIN BP		BR	Weight
	Inch	mm	mm	Bar	PSI	Bar	PSI	mm	KG
R2SC-04	1/4"	6.35	13.3	450	6525	1800	26100	45	0.29
R2SC-05	5/16"	7.94	15.1	420	6092	1680	24360	60	0.36
R2SC-06	3/8"	9.53	17.2	385	5583	1540	22330	70	0.43
R2SC-08	1/2"	12.7	20.6	350	5075	1400	20300	90	0.56
R2SC-10	5/8"	15.88	24.2	290	4205	1160	16820	130	0.68
R2SC-12	3/4"	19.05	28.3	280	4060	1120	16240	160	0.86
R2SC-16	1"	25.4	35.9	200	2900	800	11600	210	1.23
R2SC-20	1.1/4"	31.8	42.9	175	2538	700	10150	300	1.86
R2SC-24	1.1/2"	38.1	49.9	90	1305	360	5220	500	2.05
R2SC-32	2"	50.8	63.4	80	1160	320	4640	630	2.65
R2SC-48	3"	76.2	89.9	70	1010	280	4060	500	3.15

Construction: Steel wire braided hydraulic hose Safety Factor: 4:1

Inner Tube: Black oil-resistant synthetic rubber

Reinforcement: Two braids of high tensile steel wire ½ bend radius

Cover: Smooth FLAME-RESISTANT TOUGH COVER oil, temperature and weather resistant with 30% more abrasion resistance than standard cover.

Fittings: GM series

Approvals: Exceeds SAE DIN EN853, MSHA IC-307 Tested Impulse Cycles: up to 1,000,000

Application: High pressure service with Petroleum based hydraulic fluids and oils, water-glycol, oil grease and lubricants. For air applications above 100psi, outer cover should be perforated.

Temp Range: -40°c to +125°c

MASTERHOSE SAE R2HT - 2 WIRE HIGH TEMP HYDRAULIC HOSE



Part #	ID		OD	MAX WP		MIN BP		BR	Weight
	Inch	mm	mm	Bar	PSI	Bar	PSI	mm	KG
R2HT-04	1/4"	6.35	14.6	400	5801	1600	23204	100	0.39
R2HT-06	3/8"	9.53	18.6	330	4786	1320	19144	130	0.52
R2HT-08	1/2"	12.7	21.8	280	3989	1120	15956	180	0.62
R2HT-10	5/8"	15.88	25.2	250	3625	1000	14500	200	0.78
R2HT-12	3/4"	19.05	29.2	210	3118	840	12472	240	0.96
R2HT-16	1"	25.4	37.8	165	2393	660	9572	300	1.4
R2HT-20	1.1/4"	31.8	46.5	125	1813	500	7252	420	1.85
R2HT-24	1.1/2"	38.1	53	90	1305	360	5220	500	2.18
R2HT-32	2"	50.8	66.6	80	1160	320	4640	630	2.78

Construction: Steel wire braided hydraulic hose Safety Factor: 4:1

Inner Tube: Black oil-resistant synthetic rubber

Reinforcement: Two braids of high tensile steel wire

Cover: Smooth FLAME-RESISTANT TOUGH COVER oil, temperature and weather resistant with 30% more abrasion resistance than standard cover.

Fittings: GM series

Approvals: Exceeds SAE DIN EN853, MSHA IC-307 Tested Impulse Cycles: up to 1,000,000

Application: High pressure service with Petroleum based hydraulic fluids and oils, water-glycol, oil grease and lubricants. For air applications above 100psi, outer cover should be perforated.

Temp Range: -40°c to +135°c (+150° intermittent)

MASTERHOSE SAE R2HTA - 2 WIRE HIGH TEMP HOT AIR HOSE



Part #	ID		OD	MAX WP		MIN BP		BR	Weight
	Inch	mm	mm	Bar	PSI	Bar	PSI	mm	KG
R2HTA-20	1.1/4"	31.8	47.5	155	2250	775	11250	420	2.09
R2HTA-24	1.1/2"	38.1	54.6	115	1650	568	8250	500	2.42
R2HTA-32	2"	50.8	67.4	105	1500	517	7500	630	3.21

Construction: Steel wire braided hydraulic hose Safety Factor: 5:1

Inner Tube: Black oil-resistant synthetic rubber

Reinforcement: Two braids of high tensile steel wire

Cover: smooth FLAME-RESISTANT TOUGH COVER oil, temperature and weather resistant with 30% more abrasion resistance than standard cover.

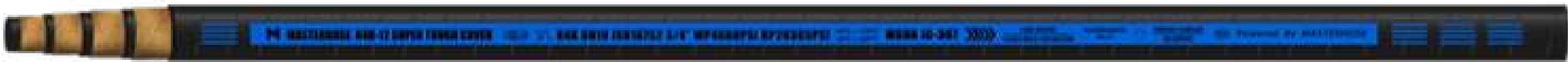
Fittings: GM series

Approvals: Exceeds SAE DIN EN853, MSHA IC-307 Tested Impulse Cycles: up to 1,000,000

Application: High pressure service with Petroleum based hydraulic fluids and oils, water-glycol, oil grease and lubricants. For air applications above 100psi, outer cover should be perforated.

Temp Range: -40°c to +150°c

MASTERHOSE R4K ISOBARIC 4060 - CONSTANT WP 4 WIRE SPIRAL HYDRAULIC HOSE



Part #	ID		OD	MAX WP		MIN BP		BR	Weight
	Inch	mm	mm	Bar	PSI	Bar	PSI	mm	KG
R4K-06	3/8"	9.53	19.3	280	4060	1400	20300	65	0.56
R4K-08	1/2"	12.7	22.1	280	4060	1400	20300	80	0.64
R4K-10	5/8"	15.88	25.7	280	4060	1400	20300	110	0.88
R4K-12	3/4"	19.05	29	280	4060	1400	20300	120	1.09
R4K-16	1"	25.4	36.4	280	4060	1400	20300	170	1.69
R4K-20	1.1/4"	31.8	44.6	280	4060	1400	20300	255	2.55
R4K-24	1.1/2"	38.1	51.5	280	4060	1400	20300	305	2.84
R4K-32	2"	50.8	68.4	280	4060	1400	20300	395	6.94

Construction: Steel wire spiral hydraulic hose. Safety Factor: 5:1

Inner Tube: Black oil-resistant synthetic virgin rubber, allowing for unparalleled flexibility

Reinforcement: Four spirals of high tensile steel wire ½ bend radius

Cover: FLAME-RESISTANT SUPER TOUGH COVER oil, temperature and weather resistant with 40% more abrasion resistance than standard cover.

Fittings: GM series

Approvals: ISO 18752-CC, MSHA IC-307 Tested Impulse Cycles: 1,000,000

Application: High pressure service with petroleum based hydraulic fluids and oils, water-glycol, oil grease and lubricants. 4000psi constant working pressure.

Temp Range: -40°c to +125°c

MASTERHOSE R6K ISOBARIC 6000 - CONSTANT WP 6 WIRE SPIRAL HYDRAULIC HOSE



Part #	ID		OD	MAX WP		MIN BP		BR	Weight
	Inch	mm	mm	Bar	PSI	Bar	PSI	mm	KG
R6K-06	3/8"	9.53	19.3	420	6092	1680	24368	95	0.63
R6K-08	1/2"	12.7	22.1	420	6092	1680	24368	110	0.77
R6K-10	5/8"	15.88	25.7	420	6092	1680	24368	140	0.95
R6K-12	3/4"	19.05	29	420	6092	1680	24368	160	1.34
R6K-16	1"	25.4	36.4	420	6092	1680	24368	205	1.92
R6K-20	1.1/4"	31.8	44.6	420	6092	1680	24368	280	3.37
R6K-24	1.1/2"	38.1	51.5	420	6092	1680	24368	330	4.26
R6K-32	2"	50.8	68.4	420	6092	1680	24368	395	7.11

Construction: Steel wire spiral hydraulic hose. Safety Factor: 4:1

Inner Tube: Black oil-resistant synthetic virgin rubber, allowing for unparalleled flexibility.

Reinforcement: Four & six wire spirals of high tensile steel wire ½ bend radius

Cover: FLAME-RESISTANT SUPER TOUGH COVER oil, temperature and weather resistant with 40% more abrasion resistance than standard cover.

Fittings: MH series

Approvals: ISO 18752-CC, MSHA IC-307 Tested Impulse Cycles: 1,000,000

Application: High pressure service with Petroleum based hydraulic fluids and oils, water-glycol, oil grease and lubricants. 6000psi constant working pressure.

Temp Range: -40°c to +125°c

MASTERHOSE SAE 100 R6 LOW PRESSURE HYDRAULIC HOSE



Part #	ID		OD	MAX WP		MIN BP		BR	Weight
	Inch	mm	mm	Bar	PSI	Bar	PSI	mm	KG
R6-04	1/4"	6.35	12.7	28	406	110	1595	64	0.13
R6-05	5/16"	7.94	14.3	28	406	110	1595	76	0.15
R6-06	3/8"	9.53	19.5	28	406	110	1595	76	0.18
R6-08	1/2"	12.7	22.3	28	406	110	1595	102	0.26
R6-10	5/8"	15.88	26.4	24	348	100	1450	125	0.31
R6-12	3/4"	19.05	30.1	17	247	85	1233	140	0.47
R6-16	1"	25.4	36.7	17	247	85	1233	150	0.71

Construction: Textile braided low pressure hydraulic hose. Safety Factor: 4:1

Inner Tube: Black oil-resistant synthetic rubber

Reinforcement: Two braids of textile material

Cover: Smooth FLAME-RESISTANT TOUGH COVER oil, temperature and weather resistant with 30% more abrasion resistance than standard cover.

Fittings: Push Lock

Approvals: Exceeds SAE DIN EN853, MSHA IC-307

Application: Low pressure service with Petroleum based hydraulic fluids and oils, water-glycol, oil grease and lubricants. For air applications above 100psi, outer cover should be perforated.

Temp Range: -40°c to +125°c

MASTERHOSE SAE 100 HWG PRESSURE WASHER HOSE



Part #	ID		OD	MAX WP		MIN BP		BR	Weight
	Inch	mm	mm	Bar	PSI	Bar	PSI	mm	KG
HWG-04	1/4"	6.35	14.6	420	6090	1260	18270	100	0.39
HWG-06	3/8"	9.53	18.6	420	6090	1260	18270	130	0.52

Construction: Steel wire braided pressure washer hose. Safety Factor: 4:1

Inner Tube: Black oil-resistant synthetic virgin rubber, allowing for unparalleled flexibility

Reinforcement: Two braids of high tensile steel wire.

Cover: Smooth FLAME-RESISTANT TOUGH COVER oil, temperature and weather resistant with 30% more abrasion resistance than standard cover.

Fittings: GM series

Approvals: Exceeds SAE DIN EN853, MSHA IC-307 Tested Impulse Cycles: 500,000

Application: High pressure service with water-based mediums.

Temp Range: -40°c to +125°c

MASTERHOSE ROSD150 OIL SUCTION/DELIVERY HOSE



Part #	ID		OD	MAX WP		MIN BP		BR	Weight
	Inch	mm	mm	Bar	PSI	Bar	PSI	mm	KG
ROSD150-020	3/4"	19.05	30.8	10	150	30	435	57	0.76
ROSD150-025	1"	25.4	36.8	10	150	30	435	75	0.94
ROSD150-032	1.1/4"	31.8	44.8	10	150	30	435	96	1.25
ROSD150-038	1.1/2"	38.1	51.4	10	150	30	435	114	1.55
ROSD150-050	2"	50.8	64.4	10	150	30	435	153	2
ROSD150-063	2.1/2"	63.5	78.4	10	150	30	435	192	2.71
ROSD150-075	3"	76.2	90.8	10	150	30	435	228	3.19
ROSD150-100	4"	101.6	119.2	10	150	30	435	408	5.16

Masterhose Petroleum Suction Hose is engineered for heavy-duty suction and discharge applications, reinforced with a durable steel wire helix for maximum strength and flexibility. Designed to handle the transfer of oil and petroleum-based products with aromatic content up to 55%, it performs reliably under both positive and negative pressure systems. Finished with a rugged black wrapped cover, this high-performance hose is ideal for demanding industrial environments where durability and performance are essential.

MASTERHOSE ROD150 OIL DELIVERY HOSE



Part #	ID		OD	MAX WP		MIN BP		BR	Weight
	Inch	mm	mm	Bar	PSI	Bar	PSI	mm	KG
ROD150-020	3/4"	19.05	30.4	10	150	30	435	76	0.66
ROD150-025	1"	25.4	36.4	10	150	30	435	100	0.82
ROD150-032	1.1/4"	31.8	43.8	10	150	30	435	128	1.06
ROD150-038	1.1/2"	38.1	50.8	10	150	30	435	152	1.34
ROD150-050	2"	50.8	63.8	10	150	30	435	204	1.73
ROD150-063	2.1/2"	63.5	77.8	10	150	30	435	256	2.31
ROD150-075	3"	76.2	89.8	10	150	30	435	304	2.7
ROD150-100	4"	101.6	115	10	150	30	435	406	3.6

Masterhose Oil Delivery Hose is designed for efficient and reliable transfer of oil and petroleum-based products, including those with aromatic content up to 55%. Built for durability, it features a robust construction with high-quality rubber compounds and reinforced textile braiding to ensure excellent flexibility and pressure resistance. The smooth, abrasion-resistant black cover enhances performance in tough working environments, making it ideal for bulk oil delivery, refuelling operations, and industrial fluid handling.

MASTERHOSE ROSD250-EX OIL SUCTION/DELIVERY HOSE



Part #	ID		OD	MAX WP		MIN BP		BR	Weight
	Inch	mm	mm	Bar	PSI	Bar	PSI	mm	KG
ROSD250-020-EX	3/4"	19.05	30.5	17.3	250	51	750	57	0.38
ROSD250-025-EX	1"	25.4	36.8	17.3	250	51	750	75	0.5
ROSD250-032-EX	1.1/4"	31.8	46	17.3	250	51	750	96	0.64
ROSD250-038-EX	1.1/2"	38.1	51.9	17.3	250	51	750	114	1.14
ROSD250-050-EX	2"	50.8	65.3	17.3	250	51	750	153	1.53
ROSD250-063-EX	2.1/2"	63.5	78.8	17.3	250	51	750	192	1.92
ROSD250-075-EX	3"	76.2	93.2	17.3	250	51	750	228	3.04

Masterhose Extra Flex Oil Delivery Hose is designed with enhanced flexibility in mind, this hose features a premium rubber inner tube and reinforced textile construction that allows for superior bend radius and easy handling without compromising strength or pressure performance.

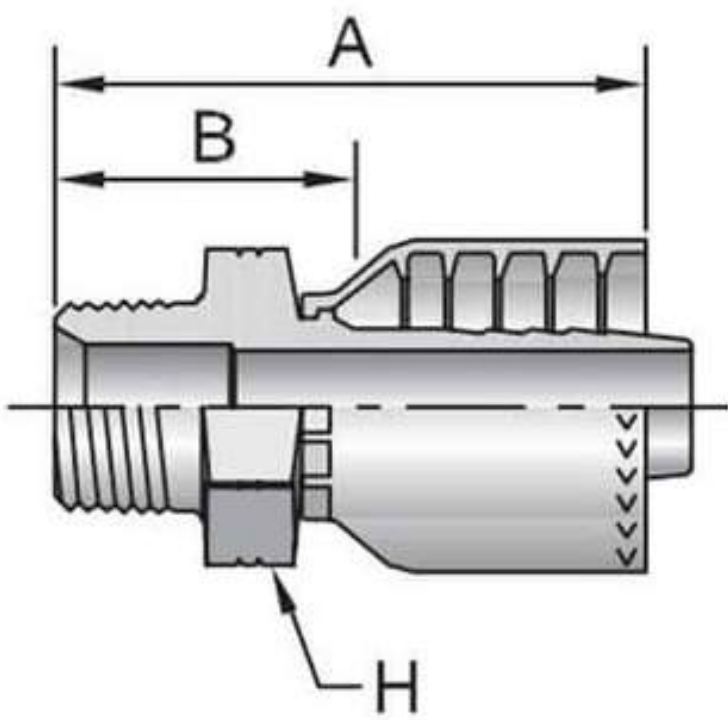
Its highly flexible design makes installation and operation effortless in tight spaces or demanding environments, while the smooth, abrasion-resistant black outer cover provides added durability and long service life. Ideal for bulk oil delivery, refuelling applications, workshop use, and general industrial fluid transfer where maximum flexibility is essential.

MASTERHOSE **GM FITTINGS**

USE WITH: R1S, R2S, R2SC, R2HT, R4K

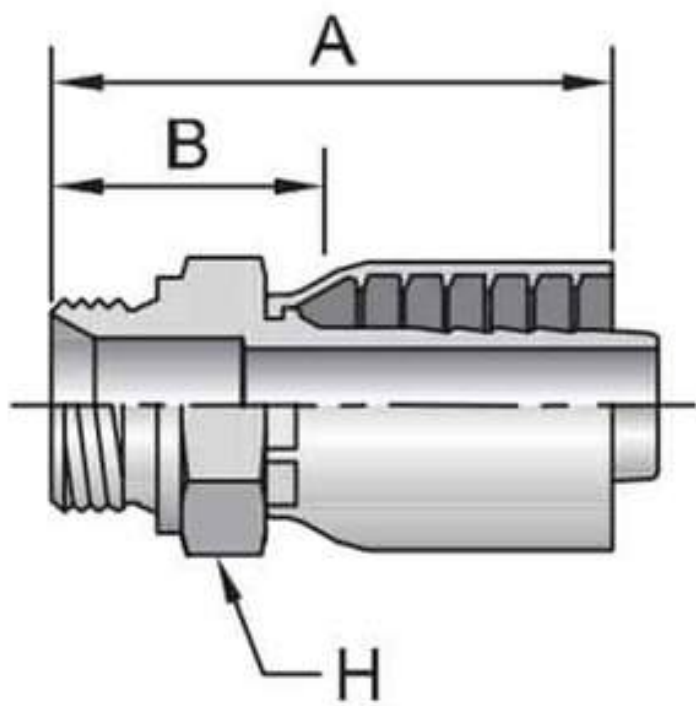


BSP



191GM BSPT Male - Fixed (60° Cone)

Part No	Thread	Hose I.D	A		B		H
	Inch		Inch	mm	Inch	mm	Inch
191GM-2-4	1/8" x 28	1/4"	1.65	42	0.83	21	12
191GM-4-4	1/4" x 19	1/4"	1.89	48	1.02	26	19
191GM-4-6	1/4" x 19	3/8"	2.13	54	1.02	26	22
191GM-6-4	3/8" x 19	1/4"	1.93	49	1.06	27	22
191GM-6-6	3/8" x 19	3/8"	2.2	56	1.06	27	22
191GM-6-8	3/8" x 19	1/2"	2.4	61	1.06	27	27
191GM-8-6	1/2" x 14	3/8"	2.44	62	1.3	33	27
191GM-8-8	1/2" x 14	1/2"	2.64	67	1.3	33	27
191GM-10-10	5/8" x 14	5/8"	2.76	70	1.26	32	24
191GM-12-12	3/4" x 14	3/4"	2.99	76	1.5	38	32
191GM-16-12	1" x 11	3/4"	3.54	90	1.77	45	36
191GM-16-16	1" x 11	1"	3.54	90	1.77	45	36
191GM-20-20	1.1/4" x 11	1.1/4"	4.37	111	1.97	50	46
191GM-24-24	1.1/2" x 11	1.1/2"	4.49	114	1.97	50	50
191GM-32-32	2" x 11	2"	4.84	123	2.28	58	65



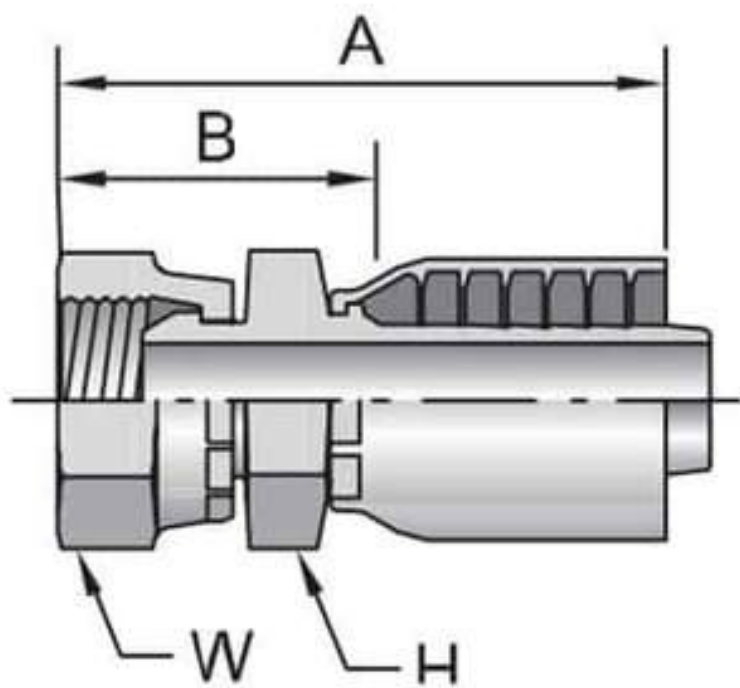
1D9GM BSPP Male - Fixed (60° Cone)

Part No	Thread	Hose I.D	A		B		H
	Inch		Inch	mm	Inch	mm	Inch
1D9GM-4-4	1/4" x 19	1/4"	1.77	45	0.91	23	19
1D9GM-6-5	3/8" x 19	5/16"	2.13	54	1.22	31	22
1D9GM-6-6	3/8" x 19	3/8"	2.13	54	1.22	31	22
1D9GM-8-6	1/2" x 14	3/8"	2.36	60	1.22	31	27
1D9GM-8-8	1/2" x 14	1/2"	2.44	62	1.1	28	27
1D9GM-12-12	3/4" x 14	3/4"	2.76	70	1.18	30	32
1D9GM-16-16	1" x 11	1"	3.23	82	1.38	35	41

USE WITH: R1S, R2S, R2SC, R2HT, R4K

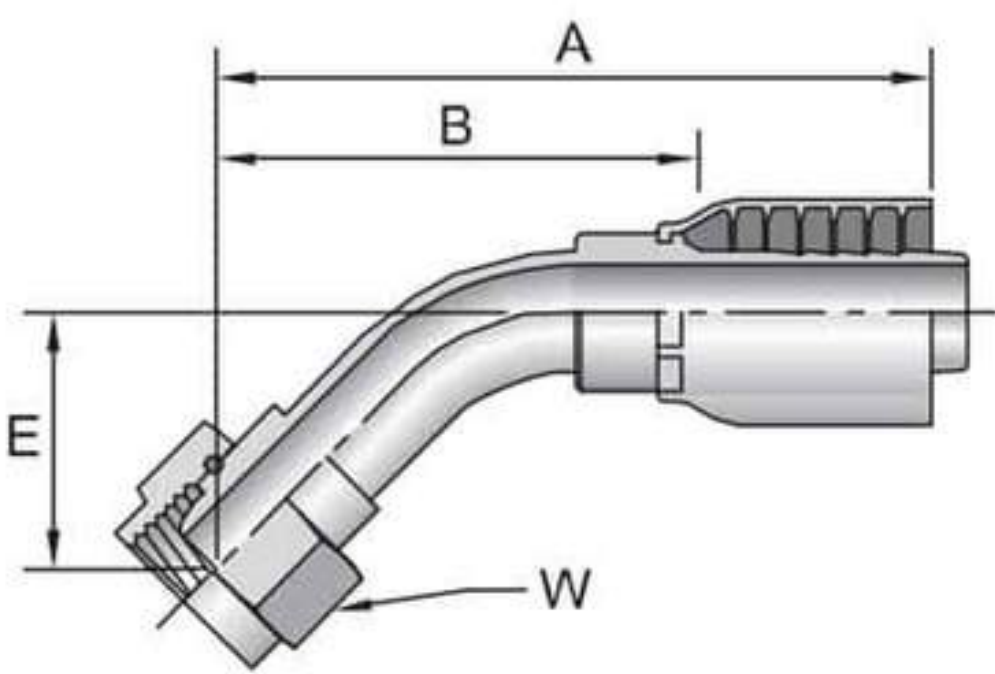
BSP

192GM BSPP Female - Swivel
(60° Cone)



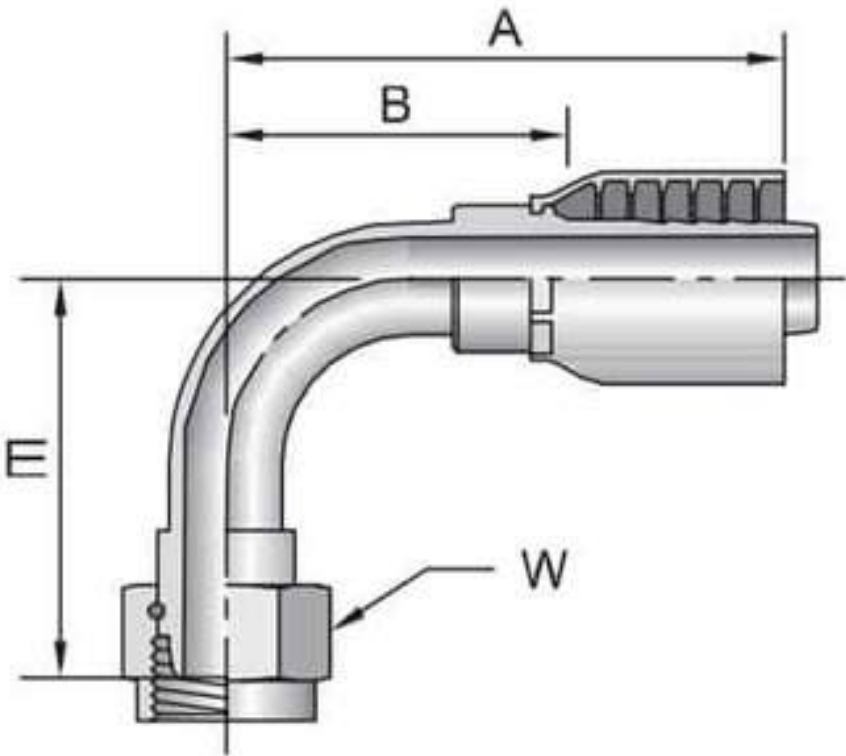
Part No	Thread	Hose I.D	A		B		H	W
	Inch		Inch	mm	Inch	mm	mm	mm
192GM-2-4	1/8" x 28	1/4"	1.97	50	1.1	28	19	19
192GM-4-4	1/4" x 19	1/4"	1.97	50	1.1	28	19	19
192GM-4-6	1/4" x 19	3/8"	2.24	57	1.1	28	22	22
192GM-6-4	3/8" x 19	1/4"	2.05	52	1.18	30	22	22
192GM-6-6	3/8" x 19	3/8"	2.56	65	1.18	30	22	22
192GM-6-8	3/8" x 19	1/2"	2.56	65	1.18	30	27	27
192GM-8-6	1/2" x 14	3/8"	2.48	63	1.38	35	27	27
192GM-8-8	1/2" x 14	1/2"	2.72	69	1.38	35	27	27
192GM-10-10	5/8" x 14	5/8"	2.99	76	1.5	38	27	27
192GM-12-8	3/4" x 14	1/2"	3.03	77	1.65	42	32	32
192GM-12-12	3/4" x 14	3/4"	3.24	82	1.73	44	32	32
192GM-16-16	1" x 11	1"	3.62	92	1.85	47	36	36
192GM-20-20	1.1/4" x 11	1.1/4"	4.53	115	2.13	54	46	46
192GM-24-24	1.1/2" x 11	1.1/2"	4.96	126	2.44	62	56	56
192GM-32-32	2" x 11	2"	5.16	131	2.6	66	61	61

1B1GM BSPP Female - 45 °
Elbow Swivel (60° Cone)



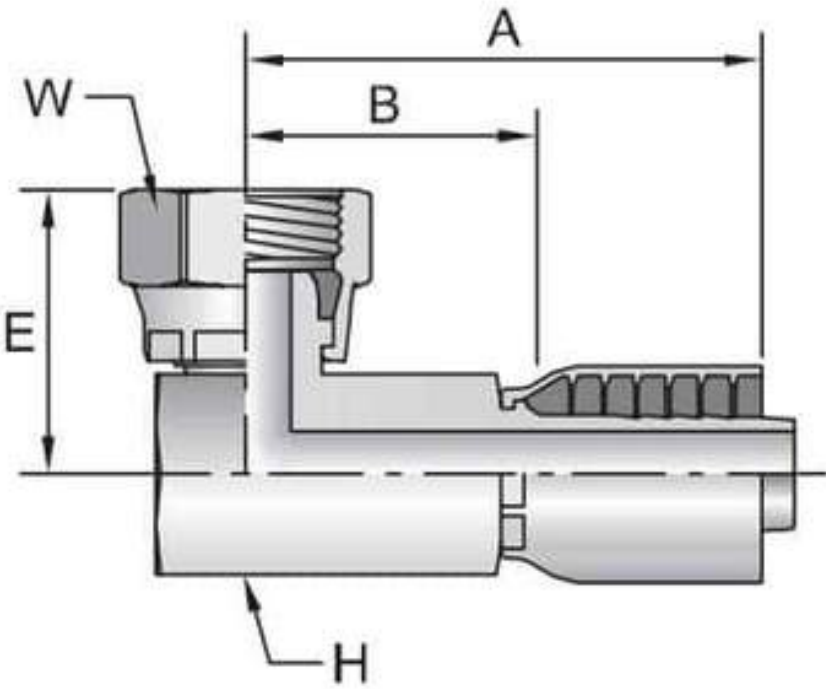
Part No	Thread	Hose I.D	A		B		E	W
	Inch		Inch	mm	Inch	mm	Inch	mm
1B1GM-4-4	1/4" x 19	1/4"	2.28	58	1.42	36	0.67	19
1B1GM-6-4	3/8" x 19	1/4"	2.28	58	1.42	36	0.67	19
1B1GM-6-6	3/8" x 19	3/8"	2.8	71	1.65	42	0.79	22
1B1GM-8-8	1/2" x 14	1/2"	3.35	85	2.01	51	0.94	27
1B1GM-10-10	5/8" x 14	5/8"	3.74	95	2.24	57	1.06	30
1B1GM-12-12	3/4" x 14	3/4"	4.25	108	2.76	70	1.22	32
1B1GM-16-16	1" x 11	1"	5.12	130	3.35	85	1.34	41
1B1GM-20-20	1.1/4" x 11	1.1/4"	6.3	160	3.9	99	1.58	50

BSP



1B2GM BSPP Female - 90° Elbow Swivel (60° Cone)

Part No	Thread	Hose I.D	A		B		E	W
	Inch		Inch	mm	Inch	mm	Inch	mm
1B2GM-4-4	1/4" x 19	1/4"	1.93	49	1.06	27	1.26	19
1B2GM-6-4	3/8" x 19	1/4"	1.89	48	1.02	26	1.33	22
1B2GM-6-6	3/8" x 19	3/8"	2.44	62	1.3	33	1.54	22
1B2GM-8-6	1/2" x 14	3/8"	2.44	62	1.3	33	1.61	27
1B2GM-8-8	1/2" x 14	1/2"	2.95	75	1.61	41	1.89	27
1B2GM-10-10	5/8" x 14	5/8"	3.35	85	1.85	47	2.13	30
1B2GM-12-12	3/4" x 14	3/4"	3.86	98	2.36	60	2.52	32
1B2GM-16-16	1" x 11	1"	4.76	121	2.99	76	2.91	41
1B2GM-20-20	1.1/4" x 11	1.1/4"	5.94	151	3.54	90	3.43	50
1B2GM-24-24	1.1/2" x 11	1.1/2"	6.1	155	3.74	95	3.42	55

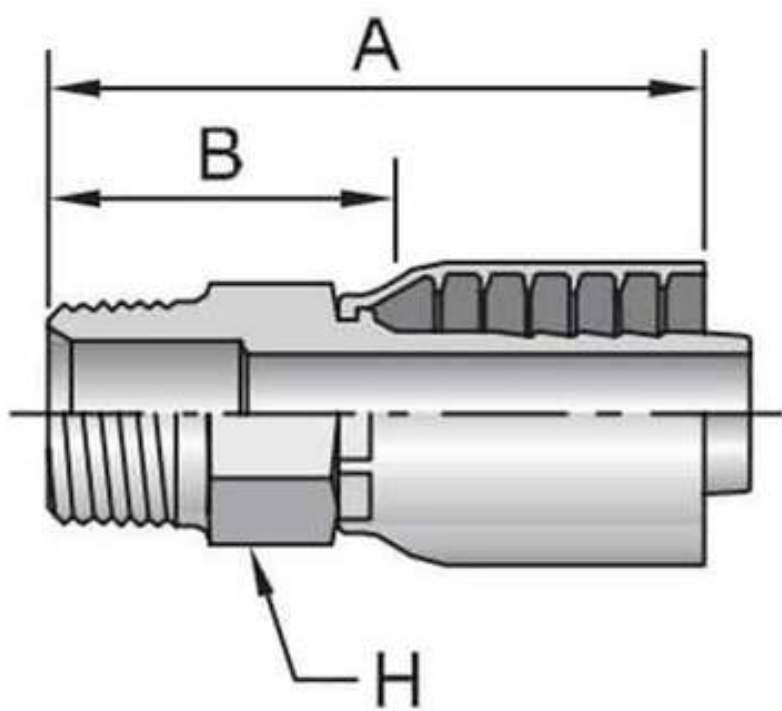


1B4GM BSPP Female - 90° Block Type Elbow Swivel (60° Cone)

Part No	Thread	Hose I.D	A		B		E	W	H
	Inch		Inch	mm	Inch	mm	Inch	Inch	Inch
1B4GM-4-4	1/4" x 19	1/4"	2.2	56	1.18	30	1.1	0.87	0.67
1B4GM-6-6	3/8" x 19	3/8"	2.75	70	1.5	38	1.34	1.1	0.79
1B4GM-8-8	1/2" x 14	1/2"	3	76	1.65	42	1.5	1.26	0.87
1B4GM-12-12	3/4" x 14	3/4"	3.3	84	1.81	46	1.61	1.26	0.9
1B4GM-16-16	1" x 11	1"	3.04	77	1.3	33	1.8	1.61	1.3

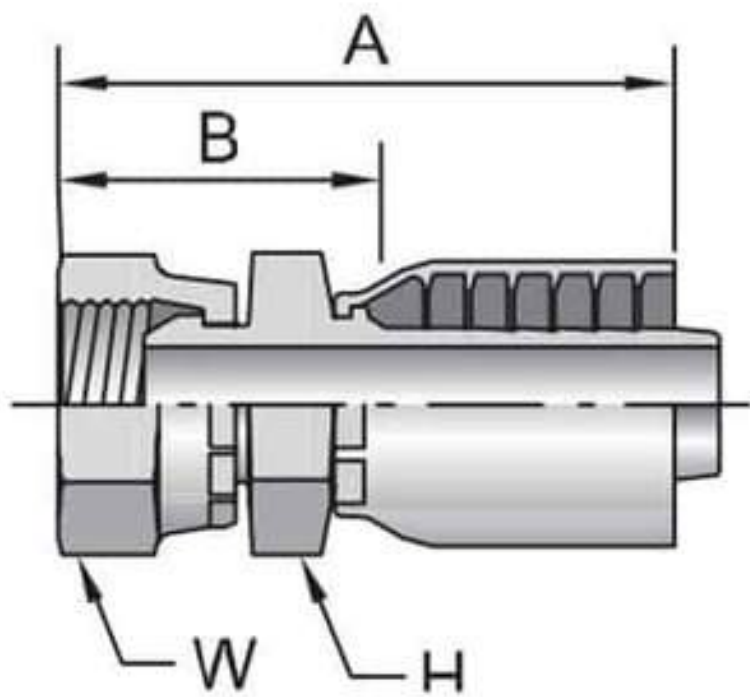
USE WITH: R1S, R2S, R2SC, R2HT, R4K

NPT



101GM Male NPT Pipe - Fixed

Part No	Thread	Hose I.D	A		B		H
	Inch		Inch	mm		mm	Inch
101GM-4-4	1/4" x 27	1/4"	2.01	51	1.26	32	9/16"
101GM-6-4	3/8" x 18	1/4"	1.86	47	1.11	28	11/16"
101GM-6-6	3/8" x 18	3/8"	2.37	60	1.34	34	3/4"
101GM-8-6	1/2" x 14	3/8"	2.39	61	1.36	35	7/8"
101GM-8-8	1/2" x 14	1/2"	2.84	72	1.58	40	7/8"
101GM-12-8	3/4" x 14	1/2"	2.68	68	1.42	36	1.1/16"
101GM-12-12	3/4" x 14	3/4"	3.09	78	1.65	42	1.1/16"
101GM-16-12	1" x 11.1/2	3/4"	3.09	78	1.65	42	1.3/8"
101GM-16-16	1" x 11.1/2	1"	2.59	66	1.97	50	1.3/8"
101GM-20-20	1.1/4" x 11.1/2	1.1/4"	4.08	104	2.39	61	1.3/4"
101GM-24-24	1.1/2" x 11.1/2	1.1/2"	3.5	89	2.13	54	2"
101GM-32-32	2" x 11.1/2	2"	4.05	103	2.27	58	2.1/2"

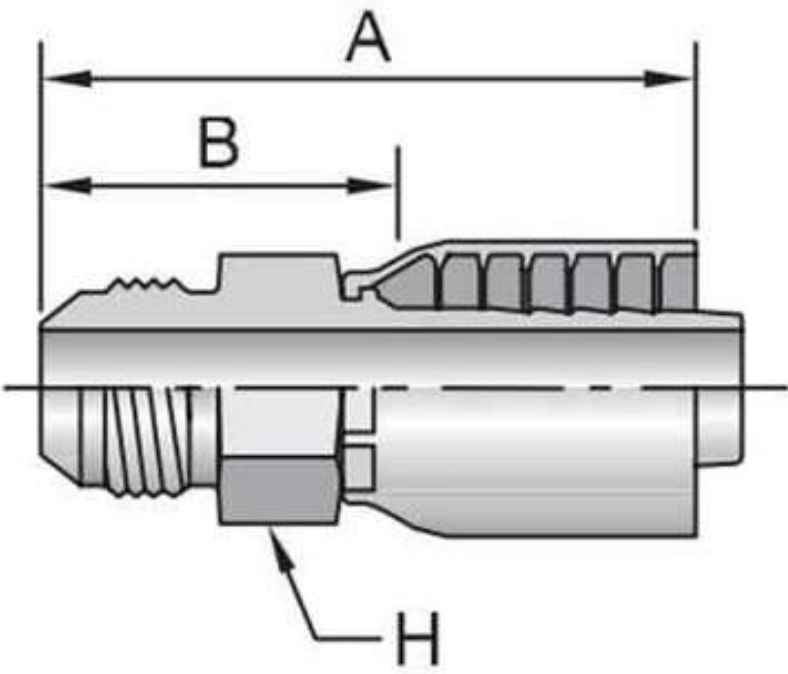


102GM Female NPT Pipe - Swivel

Part No	Thread	Hose I.D	A		B		H
	Inch		Inch	mm	Inch	mm	Inch
102GM-4-4	1/4" x 27	1/4	2.01	51	1.26	32	9/16"
102GM-6-4	3/8" x 18	1/4	1.86	47	1.11	28	11/16"
102GM-6-6	3/8" x 18	3/8	2.37	60	1.34	34	3/4"
102GM-8-6	1/2" x 14	3/8	2.39	61	1.36	35	7/8"
102GM-8-8	1/2" x 14	1/2	2.84	72	1.58	40	7/8"
101GM-12-12	3/4" x 14	3/4	2.68	68	1.42	36	1.1/16"

JIC

USE WITH: R1S, R2S, R2SC, R2HT, R4K



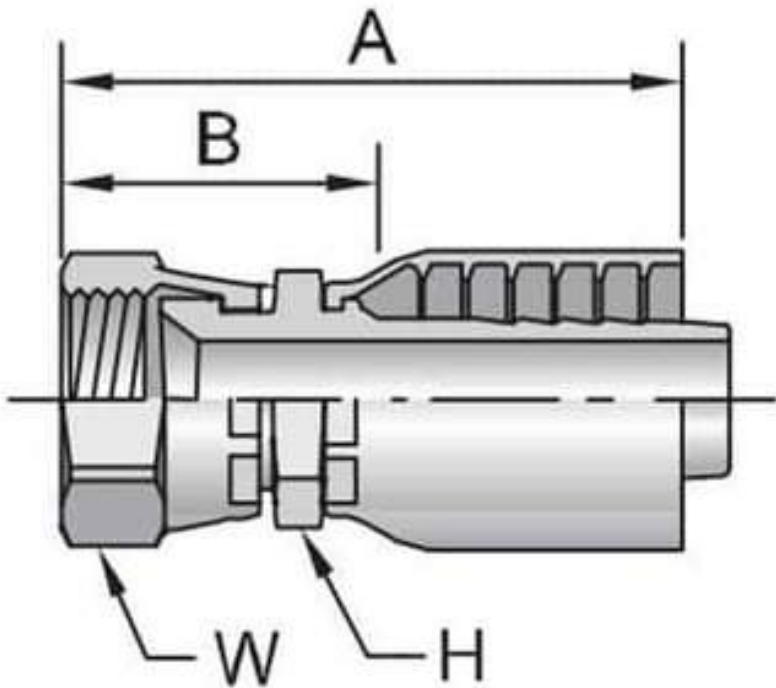
103GM Male JIC 37° - Fixed

Part No	Thread	Hose I.D	A		B		H
	Inch		Inch	mm	Inch	mm	Inch
103GM-4-4	7/16" x 20	1/4"	1.99	51	1.24	31	9/16"
103GM-5-4	1/2" x 20	1/4"	1.83	46	1.08	27	9/16"
103GM-6-4	9/16" x 18	1/4"	1.84	47	1.09	28	11/16"
103GM-6-6	9/16" x 18	3/8"	2.36	60	1.33	34	3/4"
103GM-8-6	3/4" x 16	3/8"	2.3	58	1.27	32	7/8"
103GM-8-8	3/4" x 16	1/2"	2.68	68	1.42	36	7/8"
103GM-10-8	7/8" x 14	1/2"	2.62	67	1.36	35	15/16"
103GM-10-10	7/8" x 14	5/8"	3.03	77	1.59	40	15/16"
103GM-12-12	1.1/16" x 12	3/4"	3.19	81	1.75	44	1.1/8"
103GM-16-16	1.5/16" x 12	1"	3.63	92	2.01	51	1.3/8"
103GM-20-20	1.5/8" x 12	1.1/4"	3.96	101	2.27	58	1.7/8"



JIC

USE WITH: R1S, R2S, R2SC, R2HT, R4K

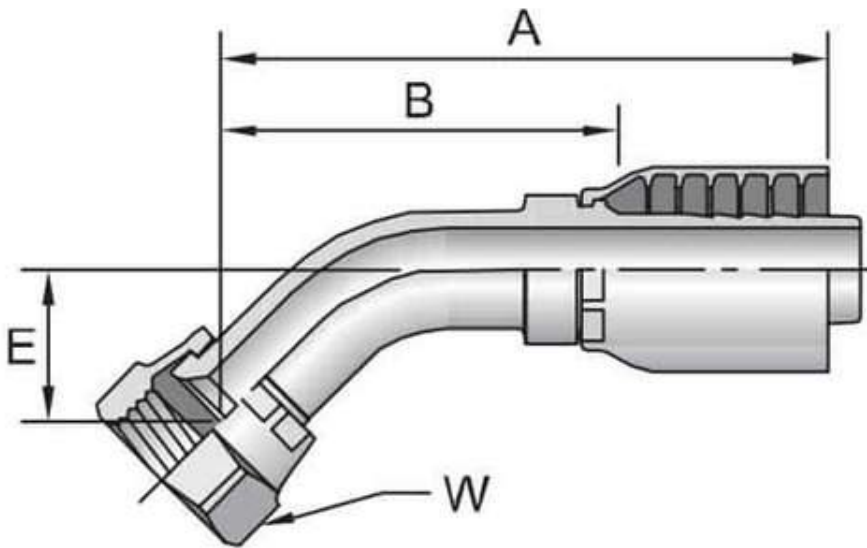


106GM Female JIC 37° - Swivel

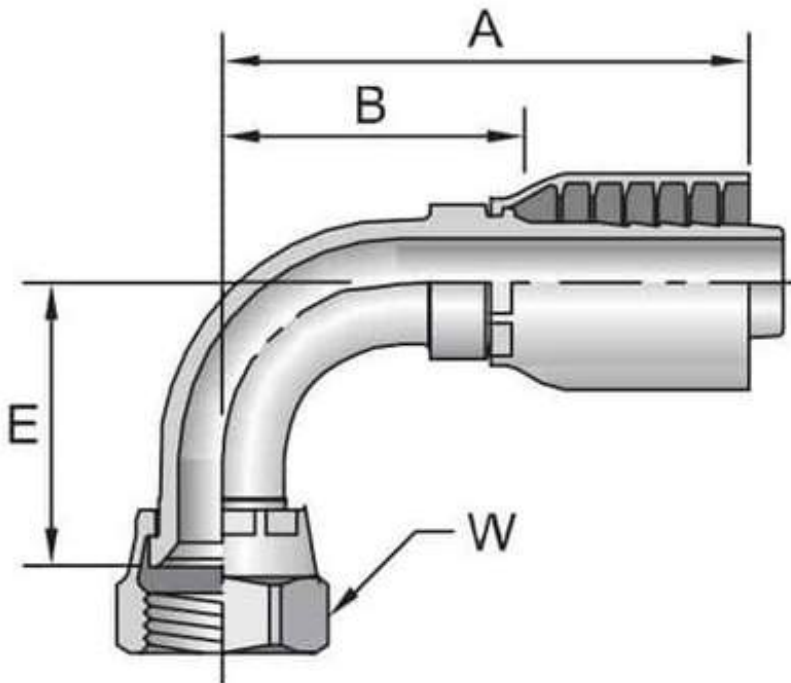
Part No	Thread	Hose I.D	A		B		H	W
	Inch		Inch	mm	Inch	mm	Inch	Inch
106GM-4-4	7/16" x 20	1/4"	1.94	49	1.19	30	9/16"	9/16"
106GM-4-6	7/16" x 20	3/8"	2.2	56	1.17	30	11/16"	9/16"
106GM-5-4	1/2" x 20	1/4"	2.03	52	1.28	33	9/16"	5/8"
106GM-5-6	1/2" x 20	3/8"	2.26	57	1.23	31	11/16"	5/8"
106GM-6-4	9/16" x 18	1/4"	2.05	52	1.3	33	9/16"	1.1/16"
106GM-6-5	9/16" x 18	5/16"	2.1	53	1.35	34	11/16"	1.1/16"
106GM-6-6	9/16" x 18	3/8"	2.29	58	1.26	32	11/16"	1.1/16"
106GM-6-8	9/16" x 18	1/2"	2.51	64	1.25	32	13/16"	1.1/16"
106GM-8-6	3/4" x 16	3/8"	2.49	63	1.46	37	11/16"	7/8"
106GM-8-8	3/4" x 16	1/2"	2.77	67	1.51	35	13/16"	7/8"
106GM-8-10	3/4" x 16	5/8"	2.85	72	1.38	35	15/16"	7/8"
106GM-8-12	3/4" x 16	3/4"	2.83	72	1.39	35	1.1/16"	7/8"
106GM-10-6	7/8" x 14	3/8"	2.51	64	1.48	38	7/8"	1"
106GM-10-8	7/8" x 14	1/2"	2.85	72	1.59	40	7/8"	1"
106GM-10-10	7/8" x 14	5/8"	2.93	74	1.49	38	15/16"	1"
106GM-10-12	7/8" x 14	3/4"	2.93	74	1.49	38	1.1/16"	1"
106GM-12-8	1.1/16" x 12	1/2"	2.78	71	1.52	39	1.1/16"	1.1/4"
106GM-12-10	1.1/16" x 12	5/8"	3.1	79	1.66	42	1.1/16"	1.1/4"
106GM-12-12	1.1/16" x 12	3/4"	3.17	81	1.73	44	1.1/16"	1.1/4"
106GM-12-16	1.1/16" x 12	1"	3.29	84	1.67	42	1.3/8"	1.1/4"
106GM-14-12	1.3/16" x 12	3/4"	3.18	81	1.74	44	1.1/4"	1.3/8"
106GM-16-12	1.5/16" x 12	3/4"	3.31	84	1.87	47	1.1/4"	1.1/2"
106GM-16-16	1.5/16" x 12	1"	3.62	92	2	51	1.3/8"	1.1/2"
106GM-16-20	1.5/16" x 12	1.1/4"	3.62	92	2	51	1.3/8"	2"
106GM-20-16	1.5/8" x 12	1"	3.81	97	2.19	56	1.5/8"	2"
106GM-20-20	1.5/8" x 12	1.1/4"	3.94	100	2.25	57	1.7/8"	2"
106GM-24-20	1.7/8" x 12	1.1/4"	3.84	98	2.47	63	1.7/8"	2.1/4"
106GM-24-24	1.7/8" x 12	1.1/2"	3.84	98	2.47	63	2.1/8"	2.1/4"
106GM-32-32	2.1/2" x 12	2"	4.73	120	2.95	75	2.1/2"	2.7/8"

JIC

137GM Female JIC 37° - 45°
Swivel Elbow



Part No	Thread	Hose I.D	A		B		E	W
	Inch		Inch	mm	Inch	mm	Inch	Inch
137GM-4-4	7/16" x 20	1/4"	1.93	49	1.06	27	0.47	9/16"
137GM-6-4	9/16" x 18	1/4"	1.97	50	1.1	28	0.47	11/16"
137GM-6-6	9/16" x 18	3/8"	2.39	61	1.26	32	0.51	11/16"
137GM-8-6	3/4" x 16	3/8"	2.48	63	1.34	34	0.59	7/8"
137GM-8-8	3/4" x 16	1/2"	2.91	74	1.57	40	0.67	7/8"
137GM-10-8	7/8" x 14	1/2"	2.95	75	1.61	41	0.71	1"
137GM-10-10	7/8" x 14	5/8"	3.35	85	1.85	47	0.79	1"
137GM-12-12	1.1/16" x 12	3/4"	3.86	98	2.36	60	0.94	1.1/4"
137GM-16-12	1.5/16" x 12	3/4"	4.69	119	2.91	74	1.10	1.1/2"
137GM-16-16	1.5/16" x 12	1"	4.69	119	2.91	74	1.10	1.1/2"
137GM-20-20	1.5/8" x 12	1.1/4"	5.75	146	3.35	85	1.30	2"
137GM-24-24	1.7/8" x 12	1.1/2"	6.81	173	4.29	109	1.65	2.1/4"
137GM-32-32	2.1/2" x 12	2"	7.95	202	5	127	51	2.7/8"



139GM Female JIC 37° - 90°
Swivel Elbow

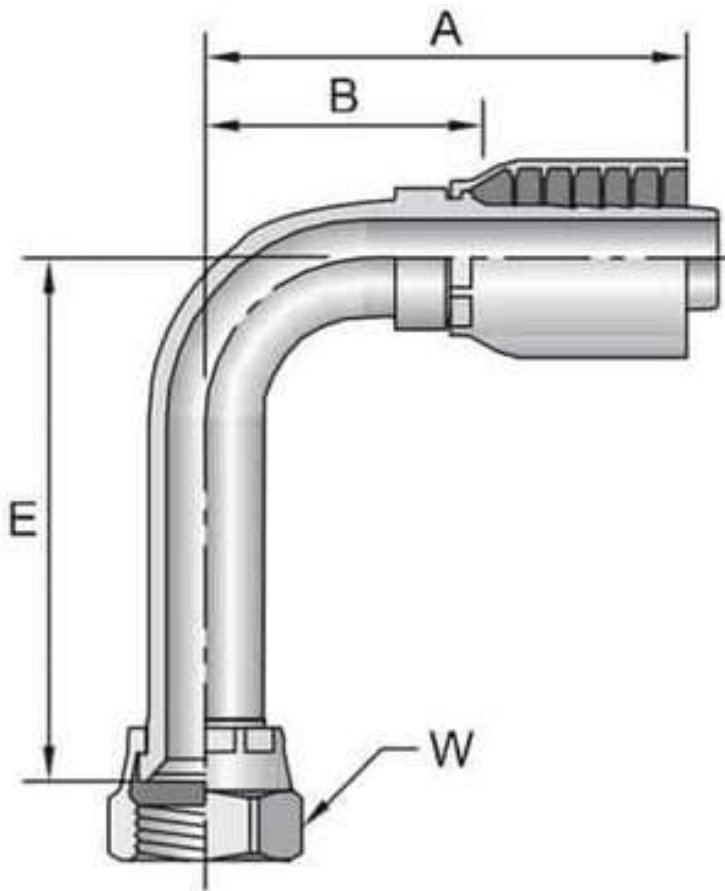
Part No	Thread	Hose I.D	A		B		E	W
	Inch		Inch	mm	Inch	mm	Inch	Inch
139GM-4-4	7/16" x 20	1/4"	1.69	43	0.83	21	0.91	9/16"
139GM-6-4	9/16" x 18	1/4"	1.69	43	0.83	21	0.91	11/16"
139GM-6-6	9/16" x 18	3/8"	2.17	55	1.02	26	1.02	11/16"
139GM-8-6	3/4" x 16	3/8"	2.17	55	1.02	26	1.1	7/8"
139GM-8-8	3/4" x 16	1/2"	2.64	67	1.3	33	1.3	7/8"
139GM-10-8	7/8" x 14	1/2"	2.64	67	1.3	33	1.38	1"
139GM-10-10	7/8" x 14	5/8"	3.07	78	1.57	40	1.61	1"
139GM-12-12	1.1/16" x 12	3/4"	3.58	91	2.09	53	2.09	1.1/4"
139GM-16-16	1.5/16" x 12	1"	4.45	113	2.68	68	2.44	1.1/2"
139GM-16-20	1.5/16" x 12	1.1/4"	4.45	113	2.68	68	2.44	1.1/2"
139GM-20-20	1.5/8" x 12	1.1/4"	5.43	138	3.03	77	2.8	2"
139GM-24-24	1.7/8" x 12	1.1/2"	6.77	172	4.25	108	2.86	2.1/4"
139GM-32-32	2.1/2" x 12	2"	7.99	203	5.43	138	4.69	2.7/8"



JIC

USE WITH: R1S, R2S, R2SC, R2HT, R4K

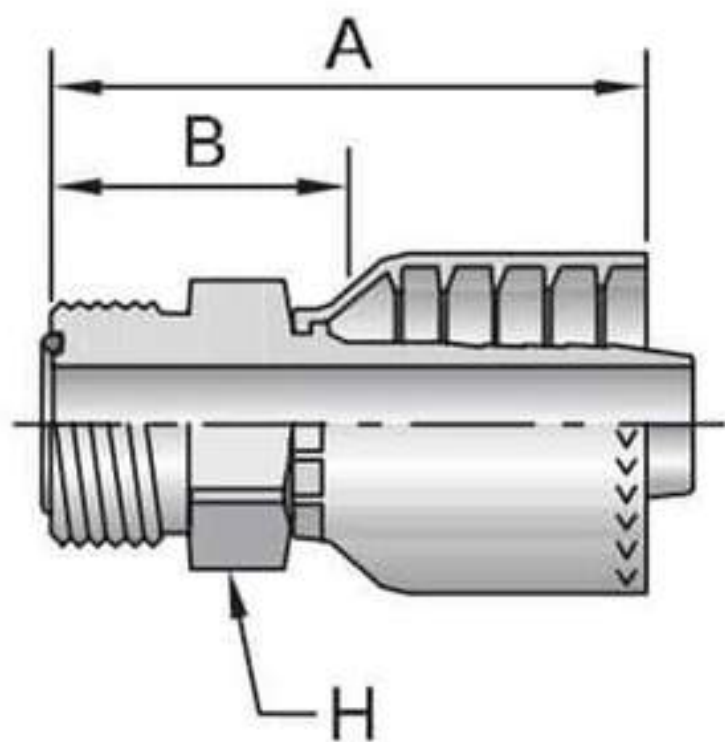
141GM Female JIC 37° - 90°
Swivel Long Drop Elbow



Part No	Thread	Hose I.D	A		B		E	W
	Inch		Inch	mm	Inch	mm	Inch	Inch
141GM-4-4	7/16" x 20	1/4"	1.69	43	0.83	21	1.81	9/16"
141GM-6-4	9/16" x 18	1/4"	1.69	43	0.83	21	2.18	11/16"
141GM-6-6	9/16" x 18	3/8"	2.17	55	1.02	26	2.43	11/16"
141GM-8-6	3/4" x 16	3/8"	2.17	55	1.02	26	2.52	7/8"
141GM-8-8	3/4" x 16	1/2"	2.64	67	1.3	33	2.58	7/8"
141GM-10-8	7/8" x 14	1/2"	2.64	67	1.3	33	2.58	1"
141GM-10-10	7/8" x 14	5/8"	3.07	78	1.57	40	3.74	1"
141GM-12-12	1.1/16" x 12	3/4"	3.58	91	2.09	53	4.32	1.1/4"
141GM-16-16	1.5/16" x 12	1"	4.45	113	2.68	68	5.28	1.1/2"
141GM-20-20	1.5/8" x 12	1.1/4"	5.2	132	3.15	80	6.05	1.5/8"
141GM-24-24	1.7/8" x 12	1.1/2"	6.1	155	3.74	95	7.1	1.7/8"
141GM-32-32	2.1/2" x 12	2"	7.25	184	4.45	113	8.45	2.3/8"

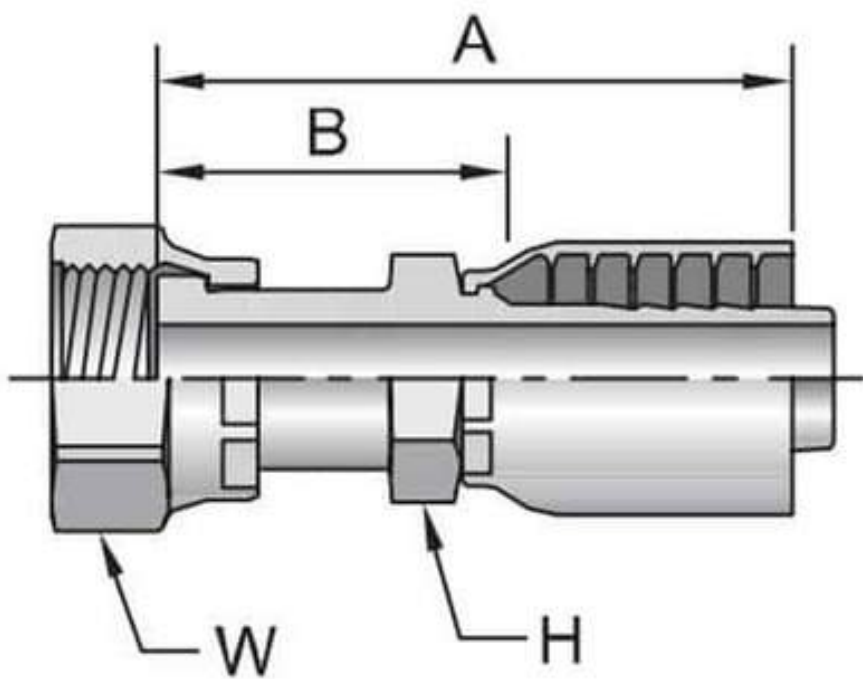
ORFS

1J0GM Male ORFS Flat Face - Fixed



Part No	Thread	Hose I.D	A		B		H
	Inch		Inch	mm	Inch	mm	Inch
1J0GM-4-4	9/16" x 18	1/4"	1.73	44	0.98	25	5/8"
1J0GM-6-6	11/16" x 16	3/8"	2.08	53	1.05	27	3/4"
1J0GM-8-6	13/16" x 16	3/8"	2.2	56	1.17	30	7/8"
1J0GM-8-8	13/16" x 16	1/2"	2.42	61	1.17	30	7/8"
1J0GM-10-8	1" x 14	1/2"	2.61	66	1.35	34	1.1/16"
1J0GM-10-10	1" x 14	5/8"	2.73	69	1.34	34	1.1/16"
1J0GM-12-10	1.3/16 x 12	5/8"	2.89	73	1.45	37	1.1/4"
1J0GM-12-12	1.3/16 x 12	3/4"	2.9	74	1.46	37	1.1/4"
1J0GM-16-12	1.7/16" x 12	3/4"	2.93	74	1.49	38	1.1/2"
1J0GM-16-16	1.7/16" x 12	1"	3.29	84	1.67	42	1.1/2"

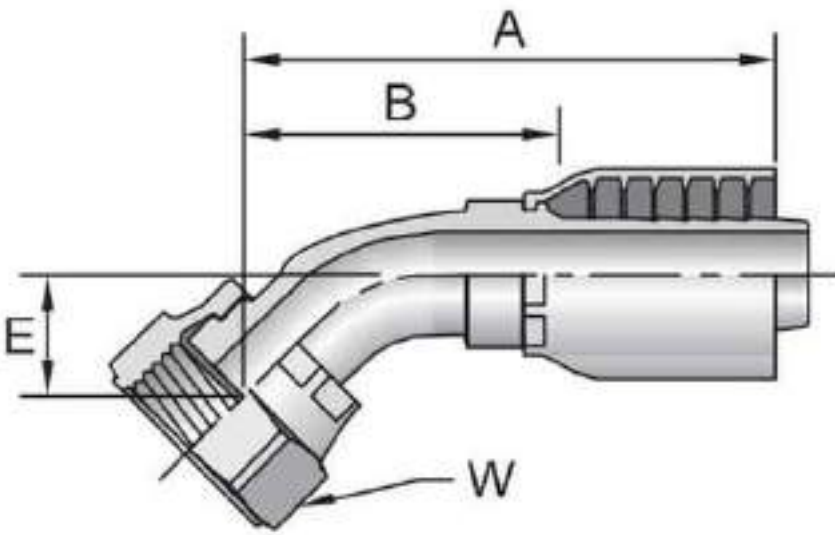
1JSGM Female ORFS Flat Face - Swivel



Part No	Thread	Hose I.D	A		B		H	W
	Inch		Inch	mm	Inch	mm	Inch	Inch
1JSGM-4-4	9/16" x 18	1/4"	2.09	53	1.22	31	9/16"	11/16"
1JSGM-6-4	11/16" x 16	1/4"	2.13	54	1.26	27	9/16"	13/16"
1JSGM-6-6	11/16" x 16	3/8"	2.32	59	1.18	30	11/16"	13/16"
1JSGM-8-6	13/16" x 16	3/8"	2.52	64	1.38	35	11/16"	15/16"
1JSGM-8-8	13/16" x 16	1/2"	2.64	67	1.3	33	13/16"	15/16"
1JSGM-10-8	1" x 14	1/2"	2.91	74	1.57	40	13/16"	1.1/8"
1JSGM-10-10	1" x 14	5/8"	3.15	80	1.65	42	15/16"	1.1/8"
1JSGM-12-10	1.3/16" x 12	5/8"	3.15	80	1.65	42	1.1/8"	1.3/8"
1JSGM-12-12	1.3/16" x 12	3/4"	3.31	84	1.81	46	1.1/8"	1.3/8"
1JSGM-16-12	1.7/16" x 12	3/4"	3.39	86	1.89	48	1.3/8"	1.5/8"
1JSGM-16-16	1.7/16" x 12	1"	3.66	93	1.89	48	1.3/8"	1.5/8"
1JSGM-20-20	1.11/16" x 12	1.1/4"	4.37	111	1.97	50	1.3/4"	1.7/8"
1JSGM-24-20	2" x 12	1.1/4"	4.49	114	2.09	53	1.3/4"	2.1/4"

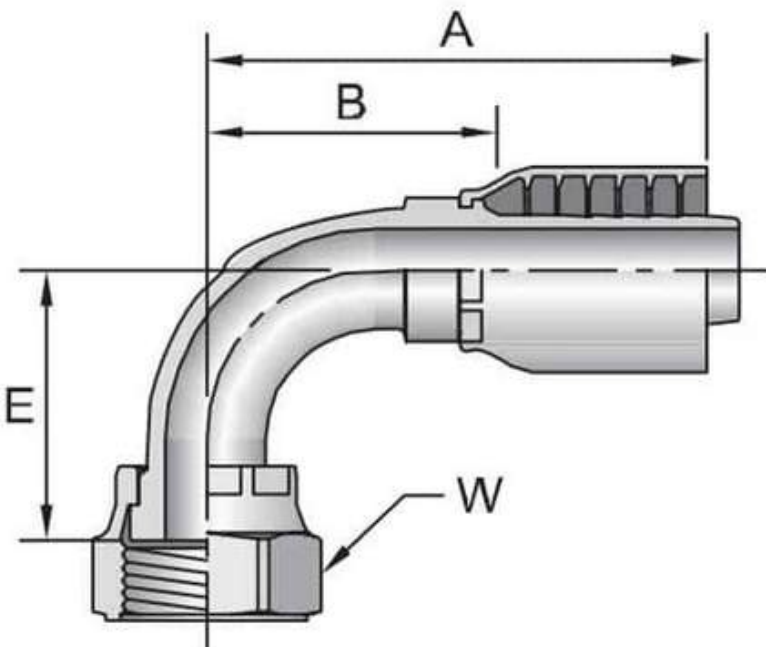
USE WITH: R1S, R2S, R2SC, R2HT, R4K

ORFS



1J7GM Female ORFS Flat Face
- 45° Elbow Swivel

Part No	Thread	Hose I.D	A		B		E	W
	Inch		Inch	mm	Inch	mm	Inch	Inch
1J7GM-4-4	9/16" x 18	1/4"	1.97	50	1.1	28	0.51	11/16"
1J7GM-6-4	11/16" x 16	1/4"	2.08	53	1.33	34	0.43	13/16"
1J7GM-6-6	11/16" x 16	3/8"	2.4	61	1.26	32	0.55	13/16"
1J7GM-8-6	13/16" x 16	3/8"	2.53	64	1.5	38	0.59	15/16"
1J7GM-8-8	13/16" x 16	1/2"	2.83	72	2.5	38	0.63	15/16"
1J7GM-10-8	1" x 14	1/2"	2.99	76	1.65	42	0.75	1.1/8"
1J7GM-10-10	1" x 14	5/8"	3.39	86	1.89	48	0.83	1.1/8"
1J7GM-12-10	1.3/16" x 12	5/8"	3.5	89	2.01	51	0.83	1.1/8"
1J7GM-10-12	1" x 14	3/4"	3.43	87	1.93	49	0.83	1.3/8"
1J7GM-12-12	1.3/16" x 12	3/4"	3.86	98	2.36	60	0.98	1.3/8"
1J7GM-16-16	1.7/16" x 12	1"	4.65	118	2.87	73	1.10	1.5/8"
1J7GM-20-20	1.11/16" x 12	1.1/4"	5.75	146	3.35	85	1.26	1.7/8"
1J7GM-24-24	2" x 12	1.1/2"	6.73	171	4.21	107	1.50	2.1/4"



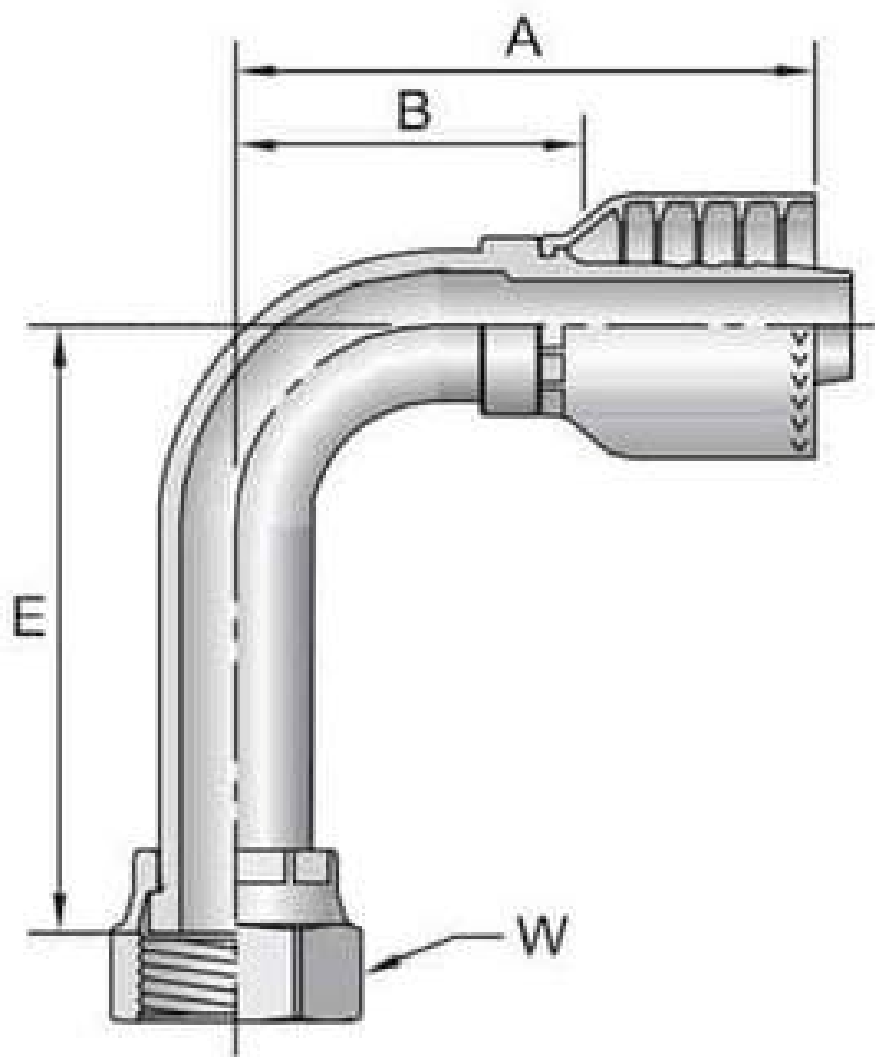
1J9GM Female ORFS Flat Face
- 90° Elbow Swivel

Part No	Thread	Hose I.D	A		B		E	W
	Inch		Inch	mm	Inch	mm	Inch	Inch
1J9GM-4-4	9/16" x 18	1/4"	1.69	43	0.83	21	0.94	11/16"
1J9GM-6-4	11/16" x 16	1/4"	1.69	43	0.83	21	1.14	13/16"
1J9GM-6-6	11/16" x 16	3/8"	2.13	54	0.98	25	1.06	13/16"
1J9GM-8-6	13/16" x 16	3/8"	2.13	54	0.98	25	1.22	15/16"
1J9GM-8-8	13/16" x 16	1/2"	2.6	66	1.26	32	1.3	15/16"
1J9GM-10-8	1" x 14	1/2"	2.64	67	1.3	33	1.42	1.1/8"
1J9GM-10-10	1" x 14	5/8"	3.07	78	1.57	40	1.65	1.1/8"
1J9GM-10-12	1.3/16" x 12	5/8"	3.07	78	1.57	40	1.69	1.1/8"
1J9GM-12-10	1" x 14	3/4"	3.19	81	1.69	43	1.65	1.3/8"
1J9GM-12-12	1.3/16" x 12	3/4"	3.58	91	2.09	53	2.09	1.3/8"
1J9GM-16-16	1.7/16" x 12	1"	4.41	112	2.64	67	2.44	1.5/8"
1J9GM-20-20	1.11/16" x 12	1.1/4"	5.43	138	3.03	77	2.76	1.7/8"
1J9GM-24-24	2" x 12	1.1/2"	6.73	171	4.21	107	3.66	2.1/4"

ORFS

USE WITH: R1S, R2S, R2SC, R2HT, R4K

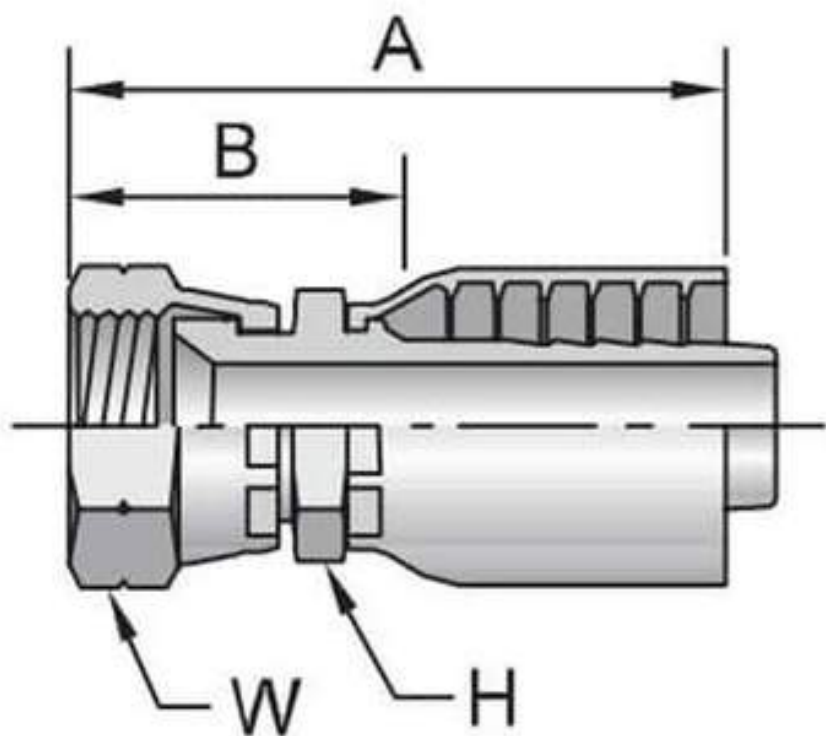
1J1GM Female ORFS Flat Face -
90° Long Drop Elbow Swivel



Part No	Thread	Hose I.D	A		B		E	W
	Inch		Inch	mm	Inch	mm	Inch	Inch
1J1GM-4-4	9/16" x 18	1/4"	1.89	48	1.02	26	1.81	11/16"
1J1GM-6-6	11/16" x 16	3/8"	2.44	62	1.3	33	2.13	13/16"
1J1GM-8-8	13/16" x 16	1/2"	2.99	76	1.65	42	2.52	15/16"
1J1GM-10-10	1" x 14	5/8"	3.35	85	1.85	47	2.76	1.1/8"
1J1GM-12-12	1.3/16" x 12	3/4"	3.9	99	2.4	61	3.78	1.3/8"
1J1GM-16-16	1.7/16" x 12	1"	4.76	121	2.99	76	4.48	1.5/8"
1J1GM-20-20	1.11/16" x 12	1.1/4"	5.94	151	3.54	90	5.09	1.7/8"

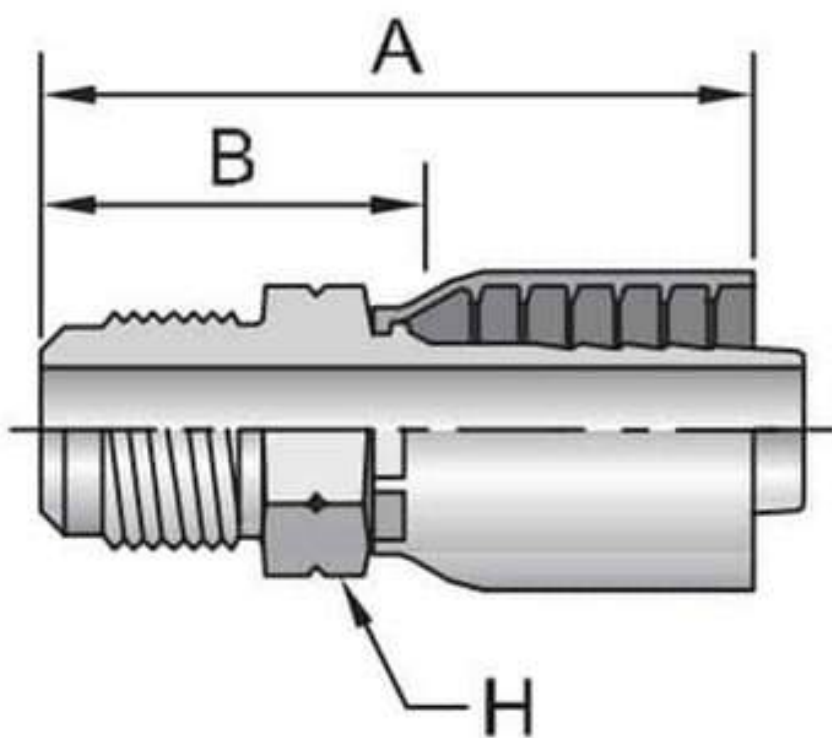
USE WITH: R1S, R2S, R2SC, R2HT, R4K

SAE



108GM Female SAE 45° - Swivel

Part No	Thread	Hose I.D	A		B		H	W
	Inch		Inch	mm	Inch	mm	Inch	Inch
108GM-6-6	5/8" x 18	3/8"	2.4	54	1.26	32	3/4"	3/4"
108GM-12-12	1.1/16" x 14	3/4"	3.23	82	1.73	44	1.1/16"	1.1/4"

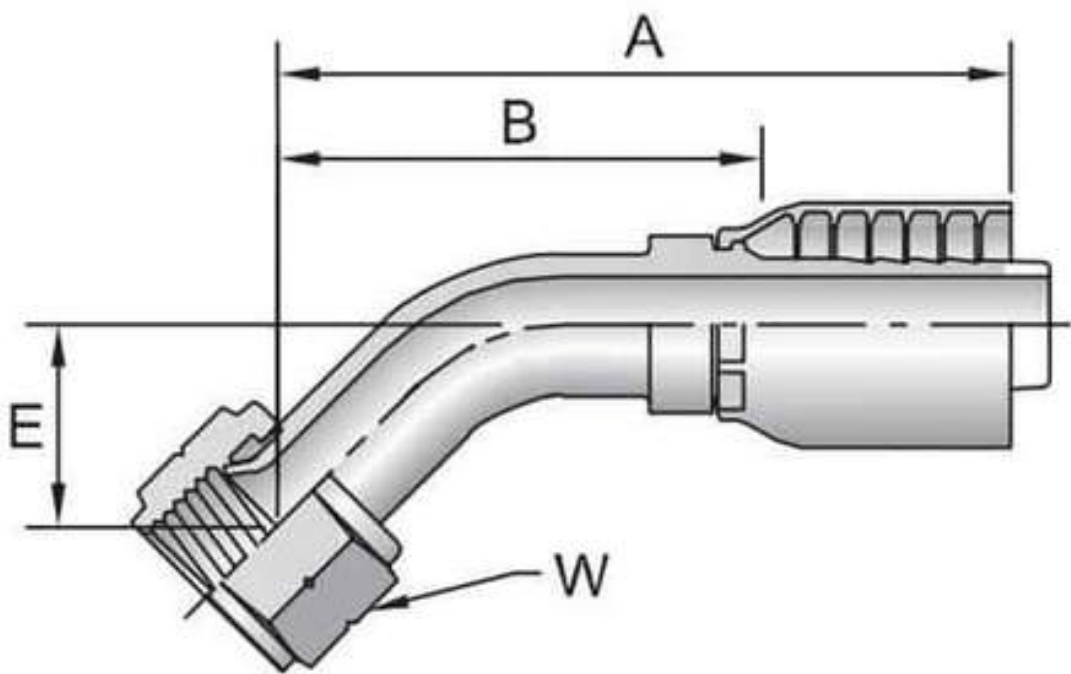


104GM Male SAE 45° - Fixed

Part No	Thread	Hose I.D	A		B		H
	Inch		Inch	mm	Inch	mm	Inch
104GM-6-6	5/8" x 18	3/8"	2.4	54	1.26	31	3/4"
104GM-12-12	1.1/16" x 14	3/4"	3.23	82	1.73	45	1.1/16"

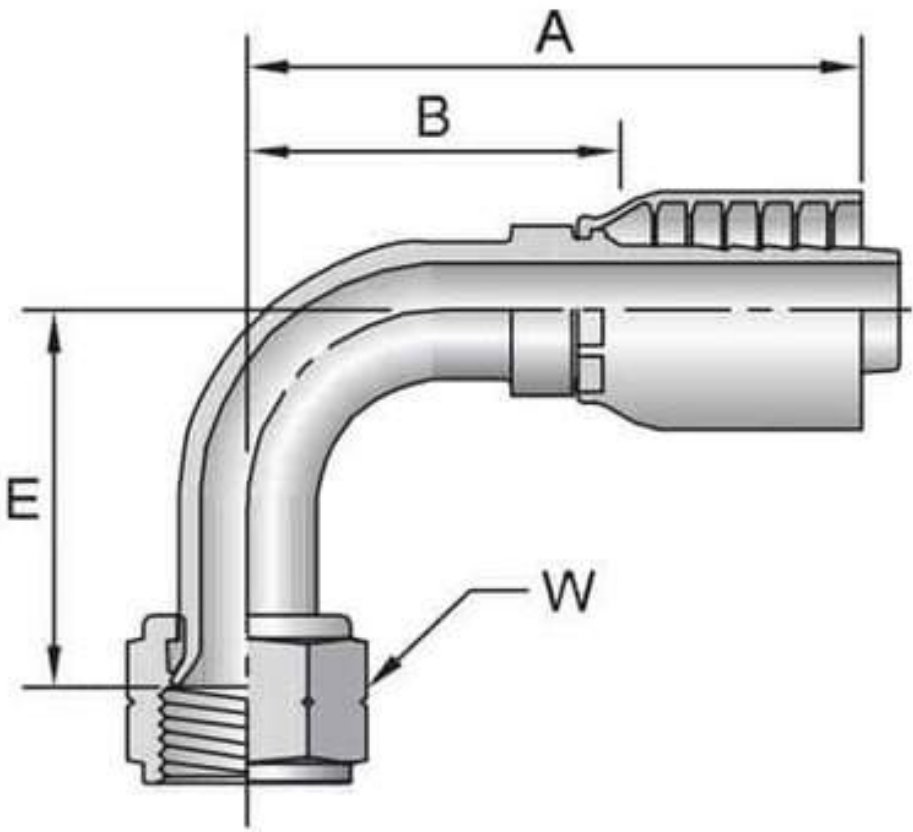
USE WITH: R1S, R2S, R2SC, R2HT, R4K

SAE



177GM Female SAE 45° -
45° Swivel Elbow

Part No	Thread	Hose I.D	A		B		E	W
	Inch		Inch	mm	Inch	mm	Inch	Inch
177GM-6-6	5/8" x 18	3/8"	2.88	58	1.25	32	0.33	9/16"

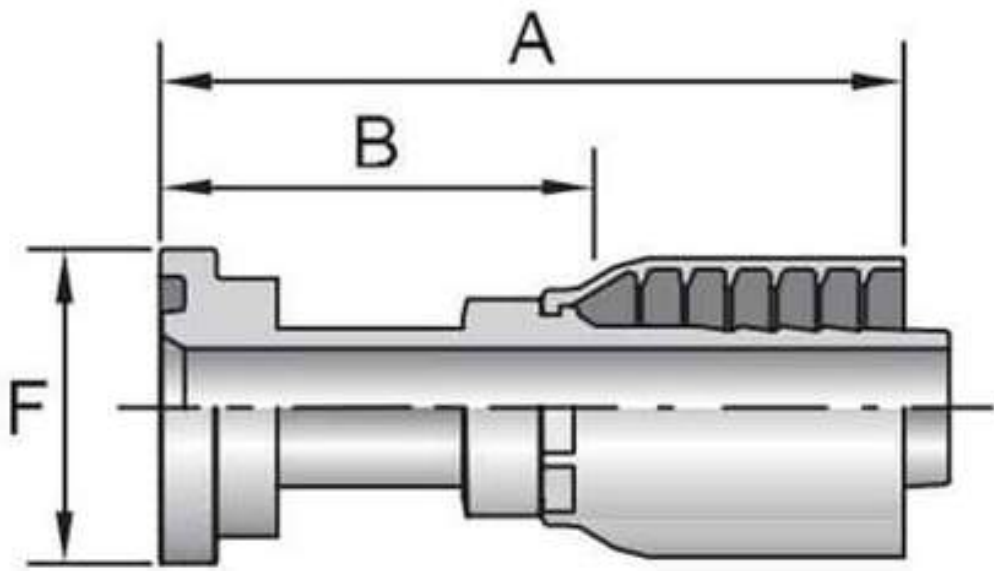


179GM Female SAE 45° -
90° Swivel Elbow

Part No	Thread	Hose I.D	A		B		E	W
	Inch		Inch	mm	Inch	mm	Inch	Inch
179GM-6-6	5/8" x 18	3/8"	2.13	54	1.13	29	0.85	3/4"

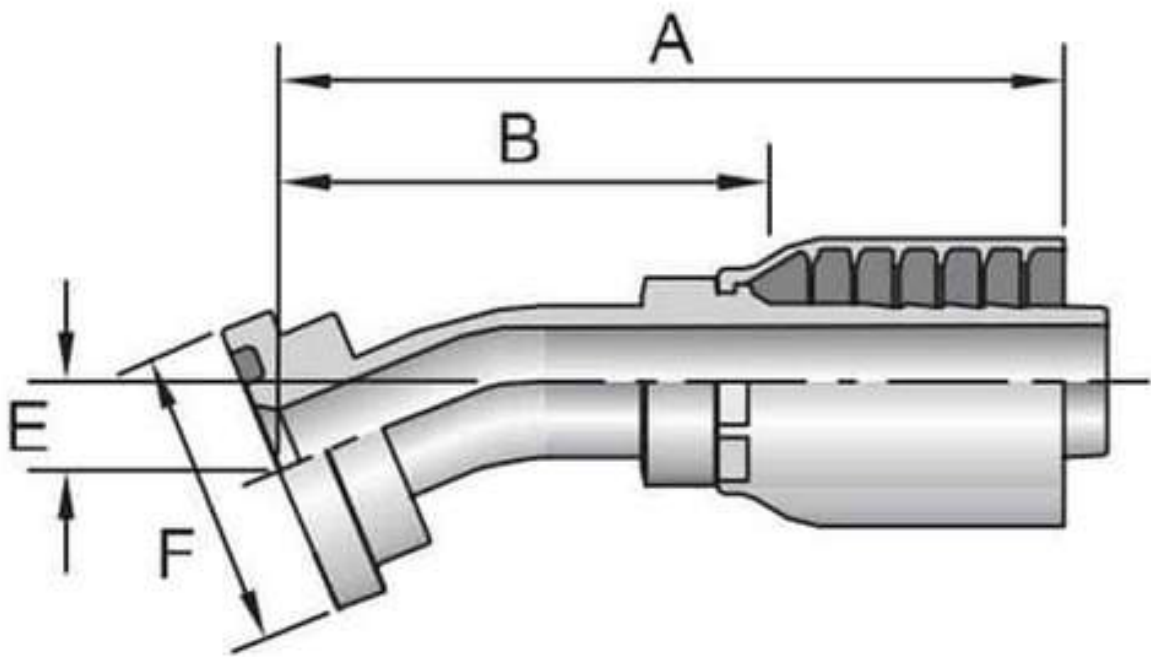
USE WITH: R1S, R2S, R2SC, R2HT, R4K

CODE 61



115GM SAE Code 61
Flange Head - Straight

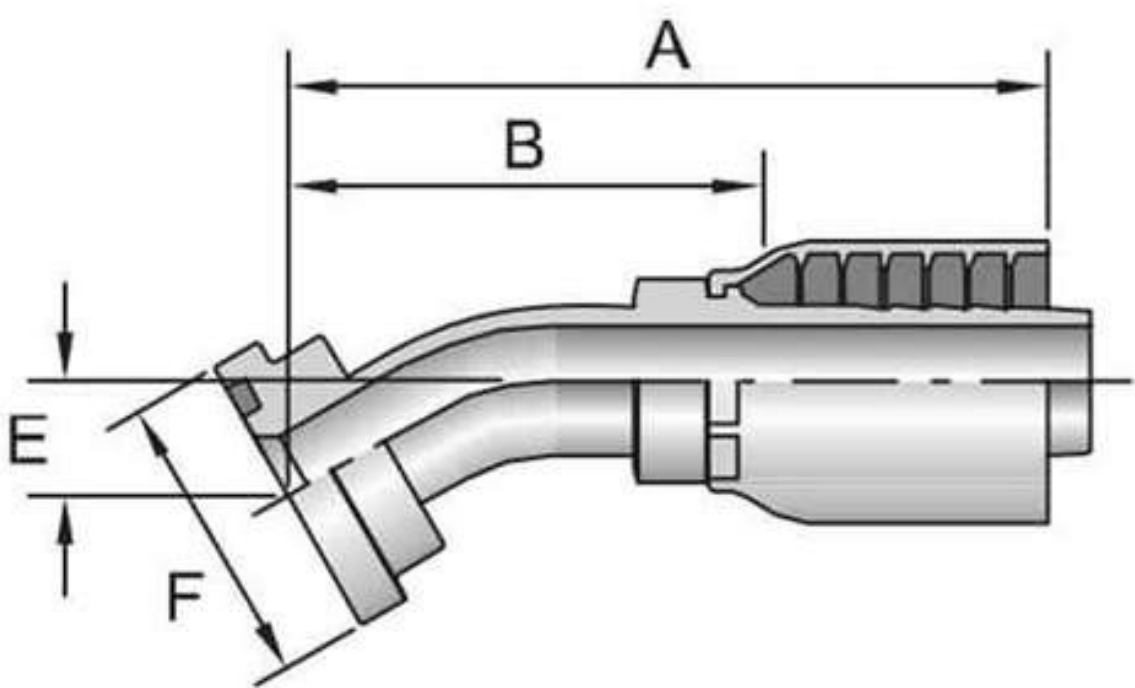
Part No	Flange	Hose I.D	A		B		F
	Inch		Inch	mm	Inch	mm	Inch
115GM-8-8	1/2"	1/2"	3.46	88	2.13	54	1.3/16"
115GM-12-8	3/4"	1/2"	3.66	93	2.32	59	1.1/2"
115GM-12-12	3/4"	3/4"	3.54	90	2.05	52	1.1/2"
115GM-16-12	1"	3/4"	2.8	71	1.3	33	1.3/4"
115GM-16-16	1"	1"	4.21	107	2.44	62	1.3/4"
115GM-20-16	1.1/4"	1"	3.78	96	2.01	51	2"
115GM-20-20	1.1/4"	1.1/4"	5.31	135	2.91	74	2"
115GM-24-20	1.1/2"	1.1/4"	5.08	135	2.68	68	2.3/8"
115GM-24-24	1.1/2"	1.1/2"	5.31	135	2.8	71	2.3/8"
115GM-32-24	2"	1.1/2"	5.94	151	3.43	87	2.7/8"
115GM-32-32	2"	2"	5.94	151	3.35	85	2.13/16"



116GM SAE Code 61
Flange Head 22-1/2°
Elbow

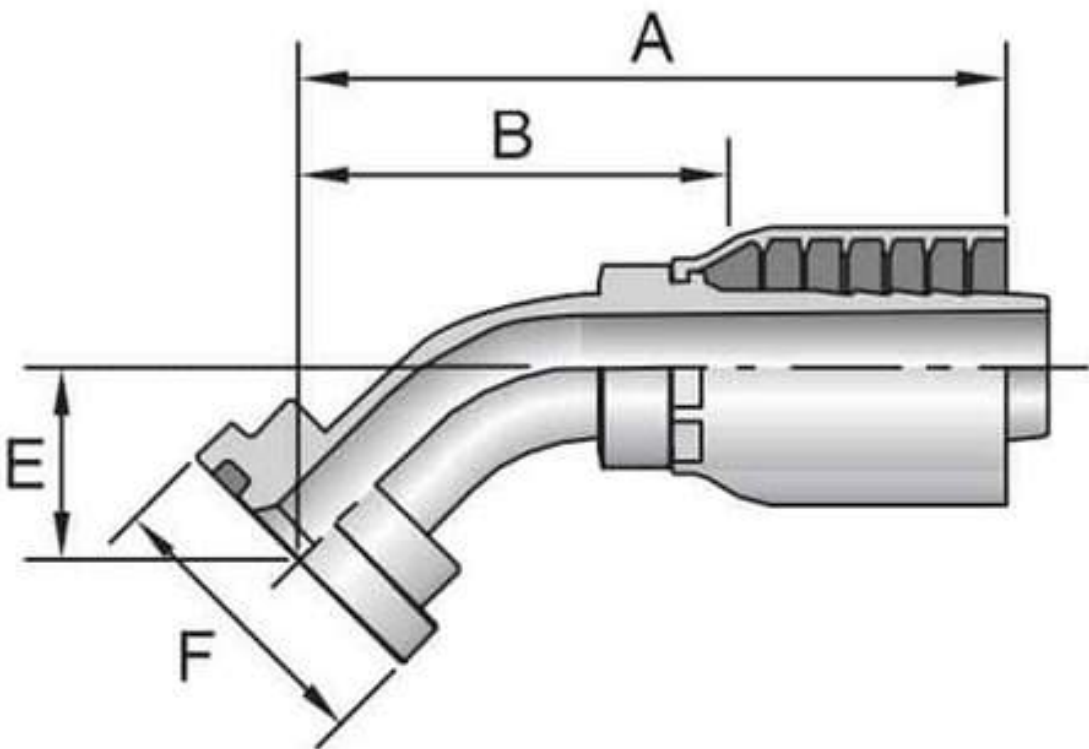
Part No	Flange	Hose I.D	A		B		F	E
	Inch		Inch	mm	Inch	mm	Inch	Inch
116GM-12-12	3/4"	3/4"	4.02	102	2.52	64	1.1/2"	0.47
116GM-16-12	1"	3/4"	3.9	99	2.4	61	1.3/4"	0.47
116GM-16-16	1"	1"	4.76	120	2.99	76	1.3/4"	0.51
116GM-20-16	1.1/4"	1"	4.72	120	2.95	75	2"	0.51
116GM-20-20	1.1/4"	1.1/4"	5.87	149	3.46	88	2"	0.55

CODE 61



126GM SAE Code 61
Flange Head 30° Elbow

Part No	Flange	Hose I.D	A		B		F	E
	Inch		Inch	mm	Inch	mm	Inch	Inch
126GM-12-12	3/4"	3/4"	4.13	105	2.64	67	1.1/2"	0.67
126GM-16-12	1"	3/4"	4.88	105	2.64	67	1.1/2"	0.67
126GM-16-16	1"	1"	4.88	124	3.11	79	1.3/4"	0.71
126GM-20-16	1.1/4"	1"	5.39	137	3.62	92	2"	0.75
126GM-20-20	1.1/4"	1.1/4"	6.06	154	3.66	93	2"	0.79

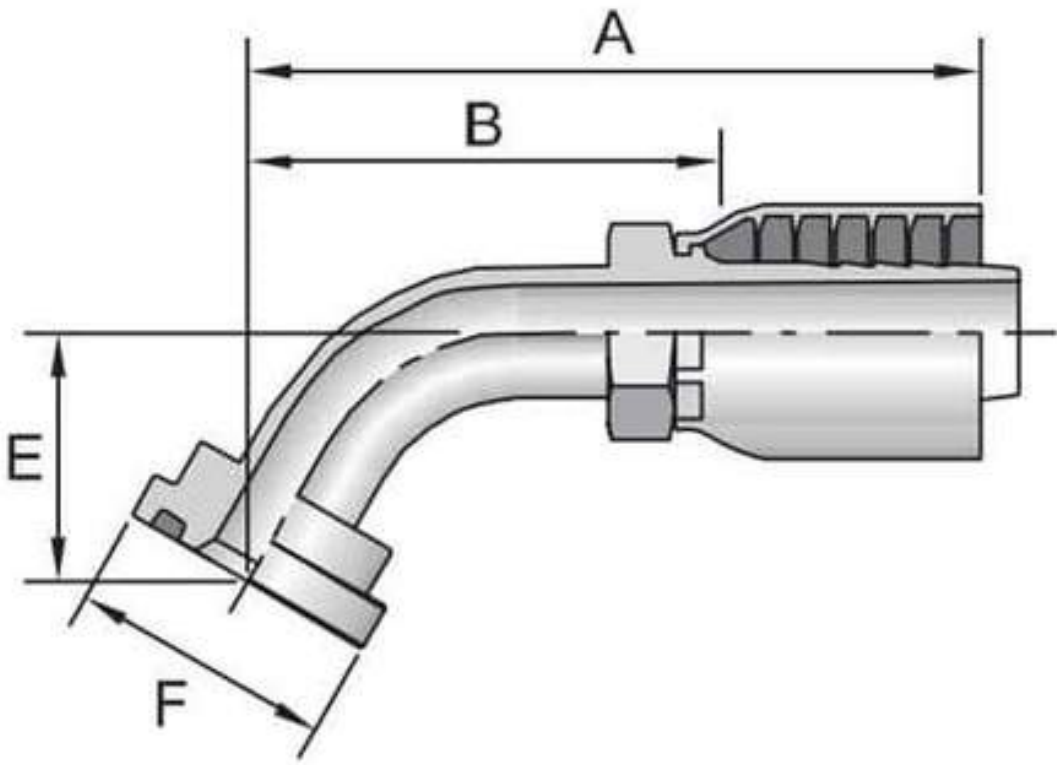


117GM SAE Code 61
Flange Head 45° Elbow

Part No	Flange	Hose I.D	A		B		F	E
	Inch		Inch	mm	Inch	mm	Inch	Inch
117GM-8-8	1/2"	1/2"	3.43	87	2.09	53	1.3/16"	0.91
117GM-12-8	3/4"	1/2"	3.43	87	2.09	53	1.1/2"	0.91
117GM-12-12	3/4"	3/4"	4.29	109	2.8	71	1.1/2"	1.1
117GM-16-12	1"	3/4"	4.33	110	2.83	72	1.3/4"	1.1
117GM-16-16	1"	1"	5.08	129	3.31	84	1.3/4"	1.22
117GM-20-16	1"	1"	5.12	130	3.35	85	2"	1.22
117GM-20-20	1.1/4"	1.1/4"	6.38	162	3.98	101	2"	1.38
117GM-24-20	1.1/2"	1.1/4"	7.05	179	4.53	115	2.3/8"	1.57
117GM-24-24	1.1/2"	1.1/2"	7.05	179	4.53	115	2.3/8"	1.57
117GM-32-24	2"	1.1/2"	7.58	193	5.04	128	2.13/16"	1.73
117GM-32-32	2"	2"	8.11	206	5.55	141	2.13/16"	1.89

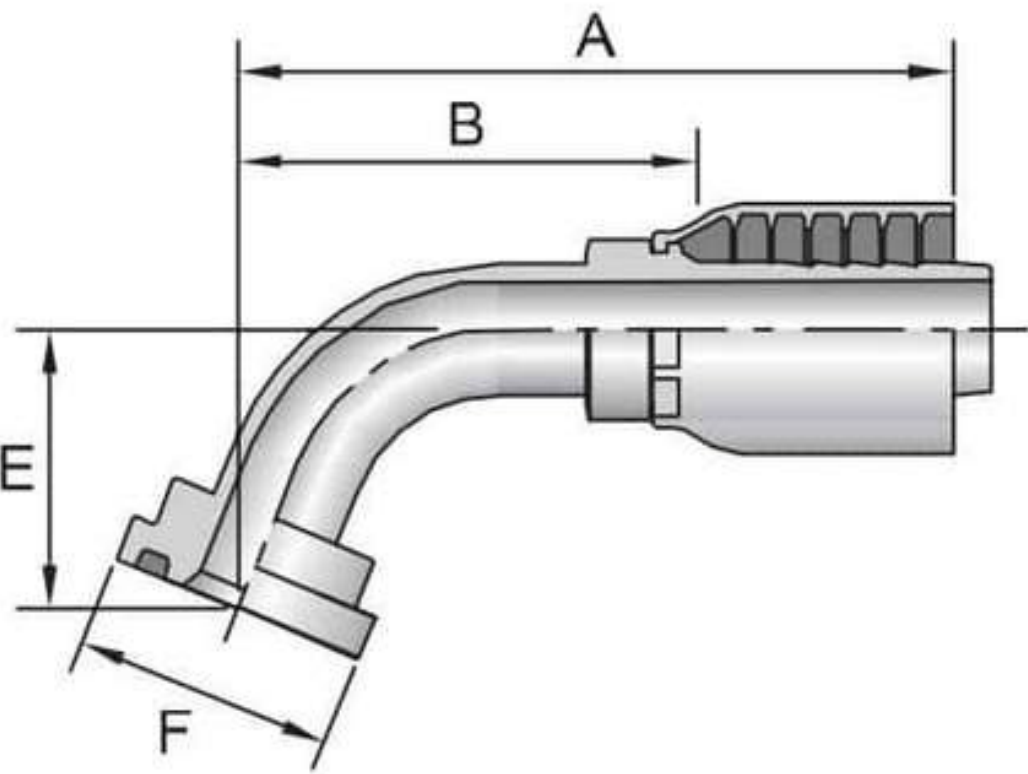
USE WITH: R1S, R2S, R2SC, R2HT, R4K

CODE 61



127GM SAE Code 61
Flange Head 60° Elbow

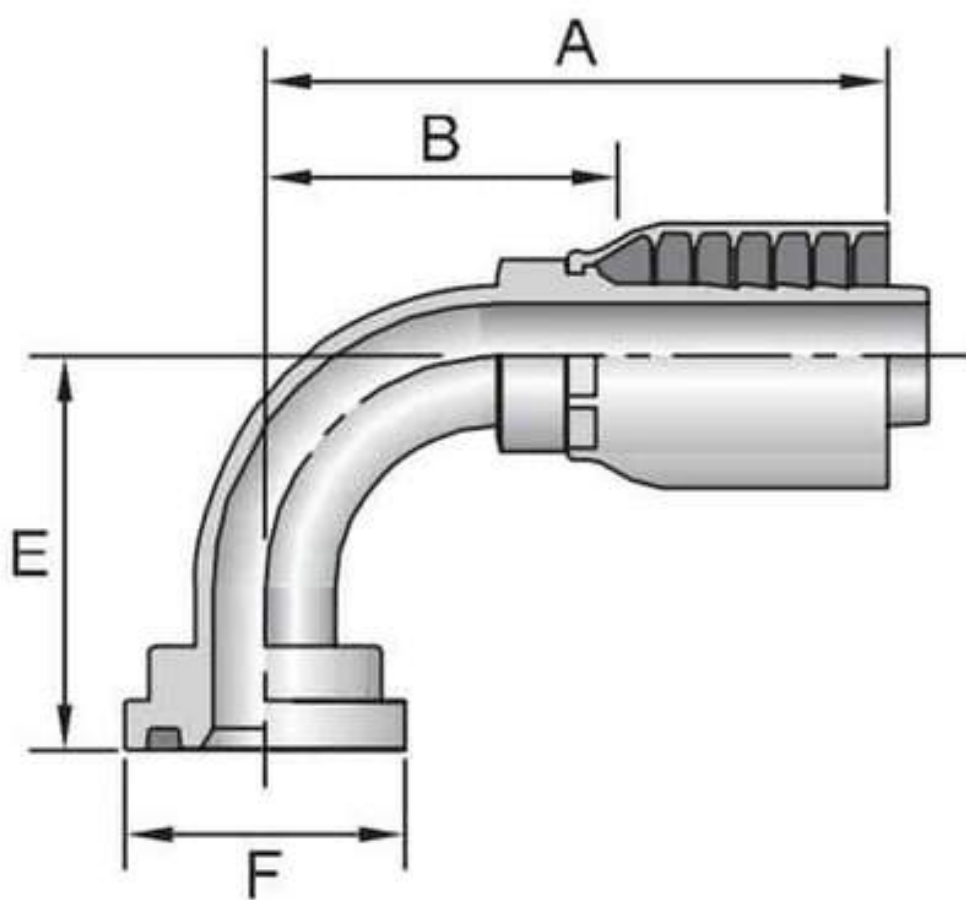
Part No	Flange	Hose I.D	A		B		F	E
	Inch		Inch	mm	Inch	mm	Inch	Inch
127GM-12-12	3/4"	3/4"	4.29	109	2.8	71	1.1/2"	1.57
127GM-16-12	1"	3/4"	5	127	3.5	89	1.3/4"	1.57
127GM-16-16	1"	1"	5.16	131	3.39	86	1.3/4"	1.73
127GM-20-16	1.1/4"	1"	6.46	131	3.39	86	2"	1.73
127GM-20-20	1.1/4"	1.1/4"	6.46	164	4.06	103	2"	1.97



118GM SAE Code 61
Flange Head 67-1/2° Elbow

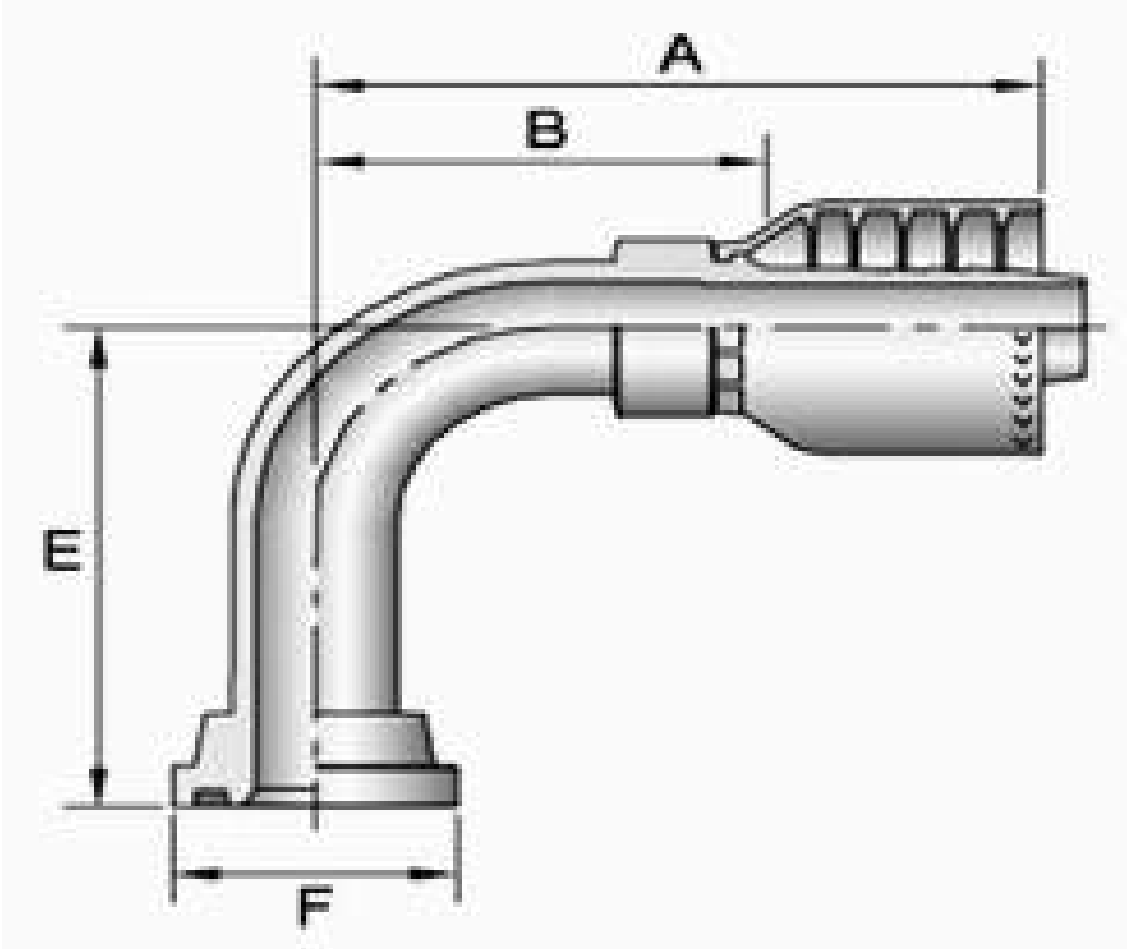
Part No	Flange	Hose I.D	A		B		F	E
	Inch		Inch	mm	Inch	mm	Inch	Inch
118GM-12-12	3/4"	3/4"	4.69	119	3.15	80	1.1/2"	1.57
118GM-16-12	1"	3/4"	4.84	123	3.31	84	1.3/4"	1.57
118GM-16-16	1"	1"	5.51	141	3.79	86	1.3/4"	1.73
118GM-20-16	1.1/4"	1"	5.83	148	4.09	104	2"	1.73
118GM-20-20	1.1/4"	1.1/4"	7.01	178	4.61	114	2"	1.97

CODE 61



119GM SAE Code 61
Flange Head 90° Elbow

Part No	Flange	Hose I.D	A		B		F	E
	Inch		Inch	mm	Inch	mm	Inch	Inch
119GM-12-12	3/4"	3/4"	4.02	102	2.52	64	1.1/2"	2.4
119GM-16-12	1"	3/4"	3.98	101	2.48	63	1.3/4"	2.4
119GM-16-16	1"	1"	4.88	124	3.11	79	1.3/4"	2.72
119GM-16-20	1"	1.1/4"	4.88	124	3.11	79	2"	2.76
119GM-20-16	1.1/4"	1.1/4"	4.88	124	3.11	79	2"	2.76
119GM-20-20	1.1/4"	1.1/4"	6.22	158	3.82	97	2"	3.15
119GM-24-24	1.1/2"	1.1/2"	7.01	178	4.49	114	2.3/8"	3.74
119GM-32-24	2"	1.1/2"	7.01	178	4.49	114	2.13/16"	3.78
119GM-32-32	2"	2"	8.15	207	5.59	142	2.13/16"	5.59

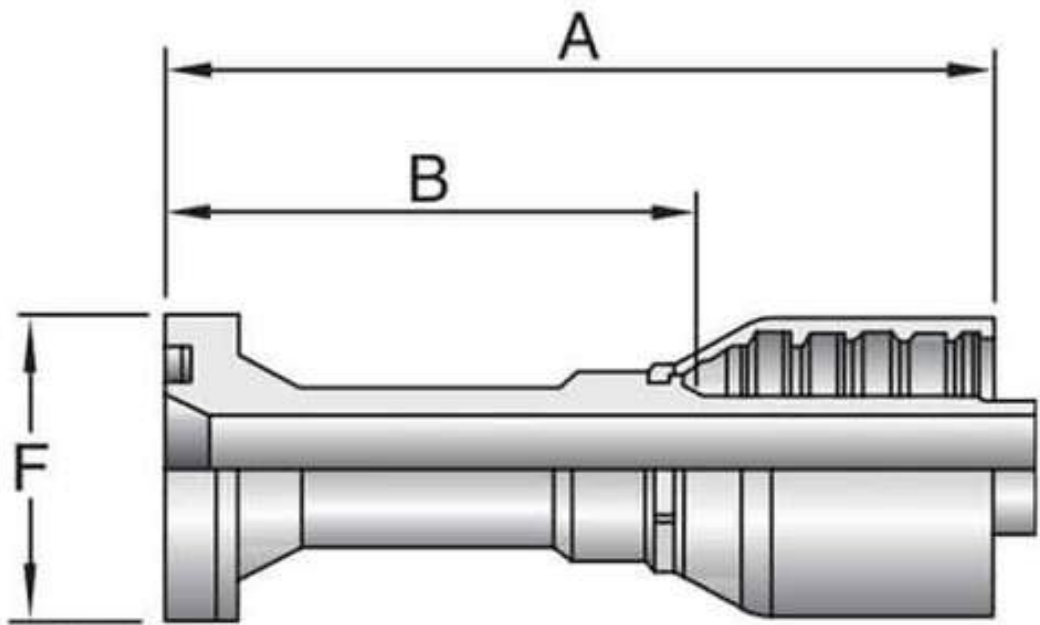


189GM SAE Code 61 Flange
Head 90° Long Drop Elbow

Part No	Flange	Hose I.D	A		B		F	E
	Inch		Inch	mm	Inch	mm	Inch	Inch
189GM-12-12	3/4"	3/4"	4.01	102	2.51	64	1.1/2"	3.03
189GM-16-12	1"	3/4"	3.94	100	2.44	62	1.3/4"	4.61
189GM-16-16	1"	1"	5.16	131	3.11	79	1.3/4"	4.61
189GM-20-16	1.1/4"	1"	5.18	132	3.11	79	2"	4.61

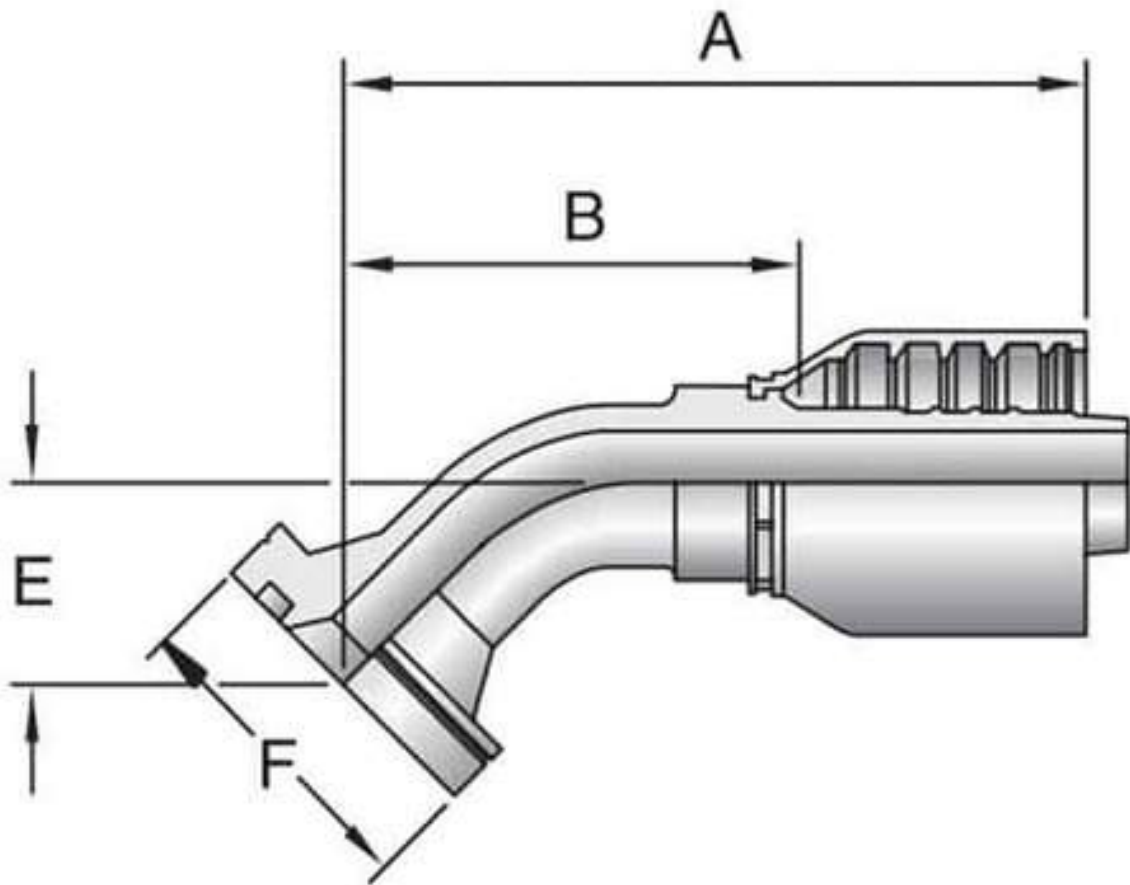
USE WITH: R1S, R2S, R2SC, R2HT, R4K

CODE 62



16AGM SAE Code 62 Flange Head - Straight

Part No	Flange	Hose I.D	A		B		F
	Inch		Inch	mm	Inch	mm	Inch
16AGM-12-12	3/4"	3/4"	4.12	104.6	2.68	68	1.5/8"
16AGM-16-12	1"	3/4"	3.1	78.7	1.66	42.2	1.7/8"
16AGM-16-16	1"	1"	4.81	122.2	3.19	81	1.7/8"
16AGM-20-16	1.1/4"	1"	3.61	91.7	1.99	50.5	2.1/8"
16AGM-20-20	1.1/4"	1.1/4"	5.01	127.3	3.32	84.3	2.1/8"

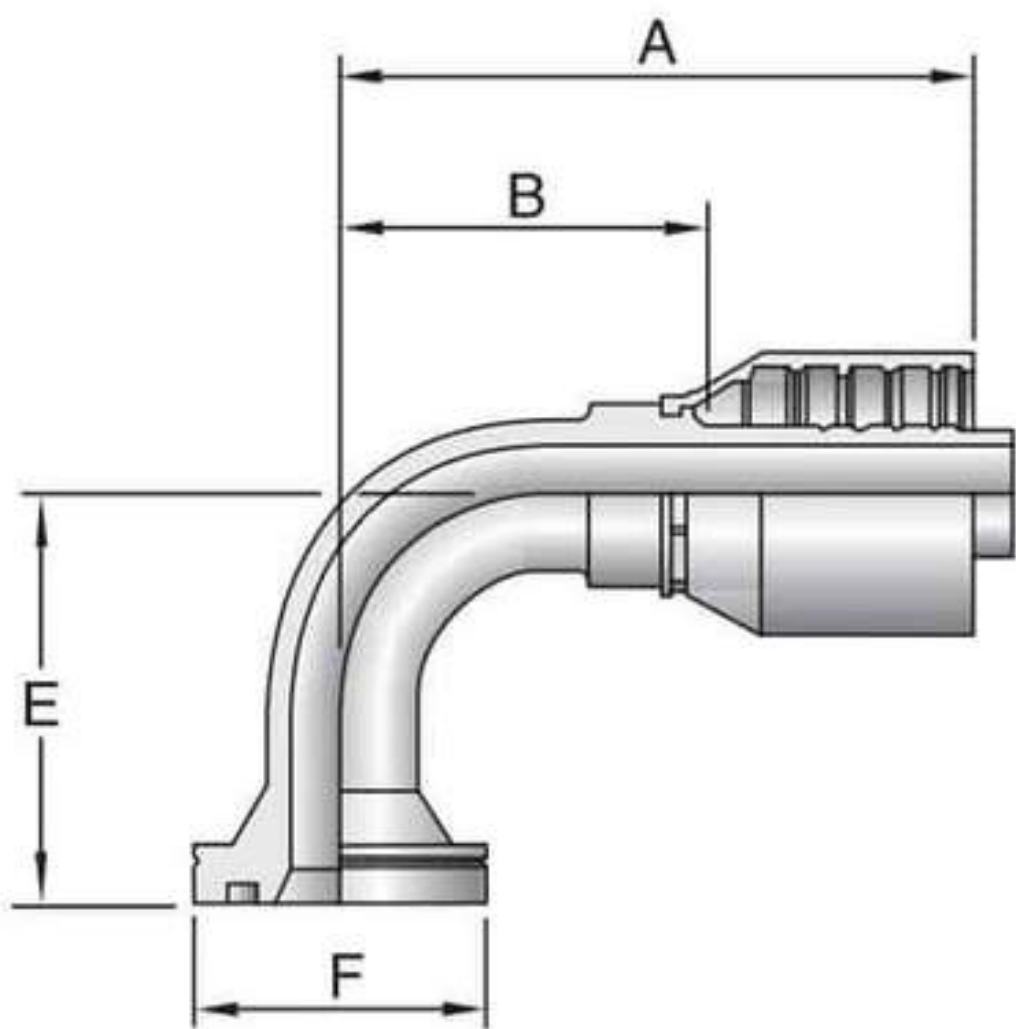


16FGM SAE Code 62 Flange Head - 45° Elbow

Part No	Flange	Hose I.D	A		B		F	E
	Inch		Inch	mm	Inch	mm	Inch	Inch
16FGM-12-12	3/4"	3/4"	3.82	60.5	2.38	60.5	1.5/8"	1.02
16FGM-16-12	1"	3/4"	3.82	60.5	2.38	60.5	1.7/8"	1.02
16FGM-16-16	1"	1"	4.66	118.4	3.04	77.2	1.7/8"	1.26
16FGM-20-16	1.1/4"	1"	4.57	116.1	2.95	74.9	2.1/8"	1.06
16FGM-20-20	1.1/4"	1.1/4"	6.38	162	3.98	101	2.1/8"	1.06

CODE 62

USE WITH: R1S, R2S, R2SC, R2HT, R4K



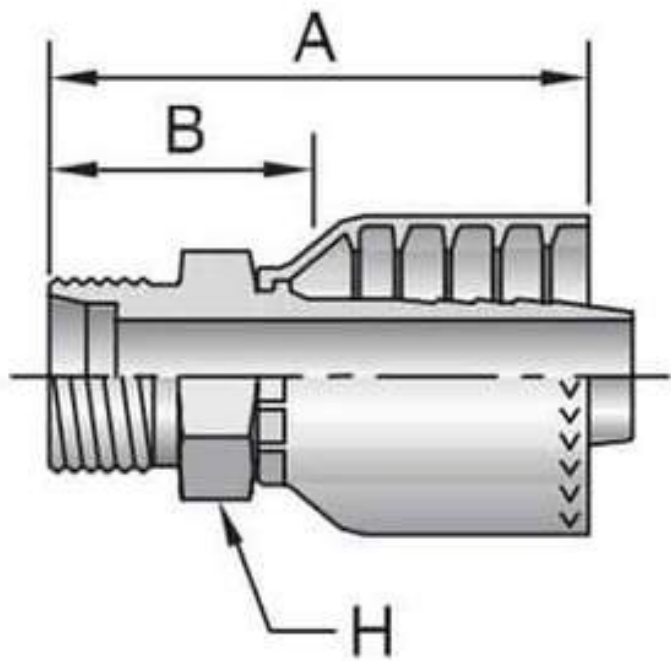
16NGM SAE Code 62 Flange Head - 90° Elbow

Part No	Flange	Hose I.D	A		B		F	E
	Inch		Inch	mm	Inch	mm	Inch	Inch
16NGM-12-12	3/4"	3/4"	3.51	89.2	2.07	52.6	1.5/8"	2.28
16NGM-16-12	1"	3/4"	3.49	88.6	2.05	52.1	1.7/8"	2.28
16NGM-16-16	1"	1"	4.28	108.7	2.66	67.6	1.7/8"	2.76
16NGM-20-16	1.1/4"	1"	4.28	108.7	2.66	67.6	1.7/8"	2.76
16NGM-20-20	1.1/4"	1.1/4"	5.09	129.3	3.4	86.4	2.1/8"	3.54

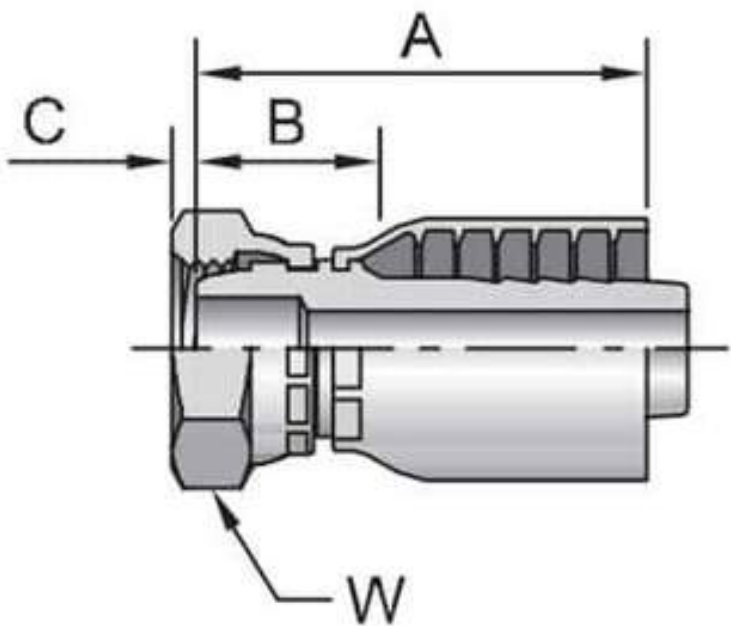
USE WITH: R1S, R2S, R2SC, R2HT, R4K

METRIC LIGHT

1D0GM Metric L Male - Fixed
(24° Cone with O-Ring)



Part No	Thread	Hose I.D	A		B		H
	mm		Inch	mm	Inch	mm	Inch
1D0GM-6-4	M12 x 1.5	1/4"	1.73	44	0.93	24	14
1D0GM-8-4	M14 x 1.5	1/4"	1.61	41	0.93	24	14
1D0GM-8-6	M14 x 1.5	3/8"	1.61	41	0.93	24	14
1D0GM-10-4	M16 x 1.5	1/4"	1.97	50	0.83	21	19
1D0GM-10-6	M16 x 1.5	3/8"	1.97	50	0.83	21	19
1D0GM-12-4	M18 x 1.5	1/4"	1.97	50	0.83	21	19
1D0GM-12-6	M18 x 1.5	3/8"	1.97	50	0.83	21	19
1D0GM-12-8	M18 x 1.5	1/2"	1.97	50	0.83	21	19
1D0GM-15-6	M22 x 1.5	3/8"	1.93	49	1.02	26	22
1D0GM-15-8	M22 x 1.5	1/2"	2.28	58	0.94	24	22
1D0GM-18-8	M26 x 1.5	1/2"	2.28	58	0.94	24	22
1D0GM-22-12	M30 x 2	3/4"	2.72	69	1.22	31	30
1D0GM-28-12	M36 x 2	3/4"	2.72	69	1.22	31	30
1D0GM-28-16	M36 x 2	1"	3.11	79	1.3	33	36

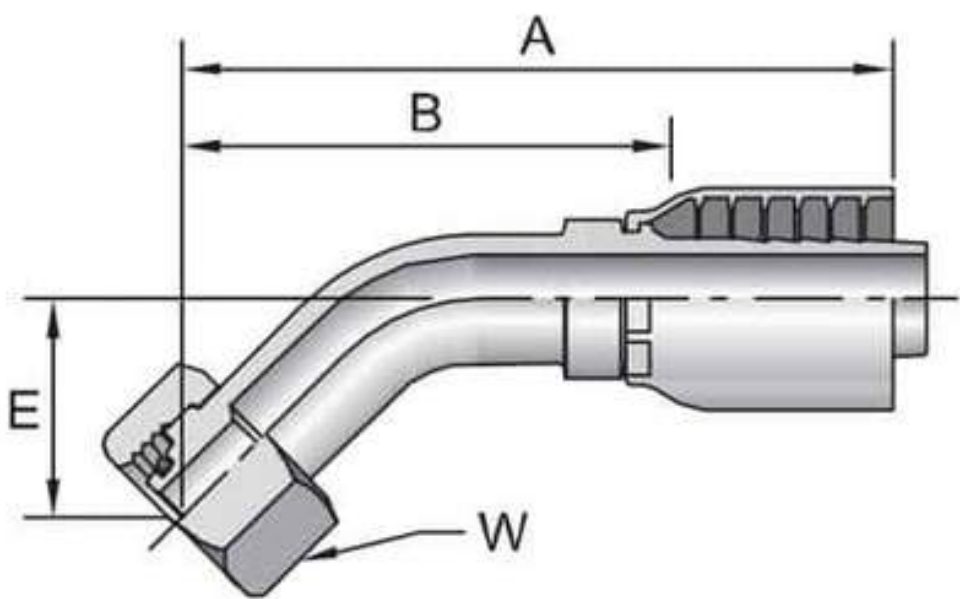


1CAGM Metric L Female -
Swivel (24° Cone with O-Ring)

Part No	Thread	Hose I.D	A		B		C	W
	mm		Inch	mm	Inch	mm	Inch	mm
1CAGM-6-4	M12 x 1.5	1/4"	1.73	44	0.88	22	0.02	14
1CAGM-8-4	M14 x 1.5	1/4"	1.65	42	0.79	17	0.01	14
1CAGM-8-6	M14 x 1.5	3/8"	1.65	42	0.79	17	0.01	14
1CAGM-10-4	M16 x 1.5	1/4"	1.69	43	0.83	21	0.04	19
1CAGM-10-6	M16 x 1.5	3/8"	2.09	53	0.94	24	0.02	19
1CAGM-12-4	M18 x 1.5	1/4"	1.97	50	0.83	22	0.03	22
1CAGM-12-6	M18 x 1.5	3/8"	1.97	50	0.83	22	0.03	22
1CAGM-12-8	M18 x 1.5	1/2"	2.17	55	0.83	21	0.07	27
1CAGM-15-6	M22 x 1.5	3/8"	1.97	50	0.83	22	0.03	22
1CAGM-15-8	M22 x 1.5	1/2"	2.17	55	0.83	21	0.07	27
1CAGM-18-8	M26 x 1.5	1/2"	2.28	58	0.94	24	0.02	32
1CAGM-22-12	M30 x 2	3/4"	2.52	64	1.02	26	0.13	36
1CAGM-28-12	M36 x 2	3/4"	2.52	64	1.02	26	0.13	36
1CAGM-28-16	M36 x 2	1"	2.87	73	1.1	28	0.14	41

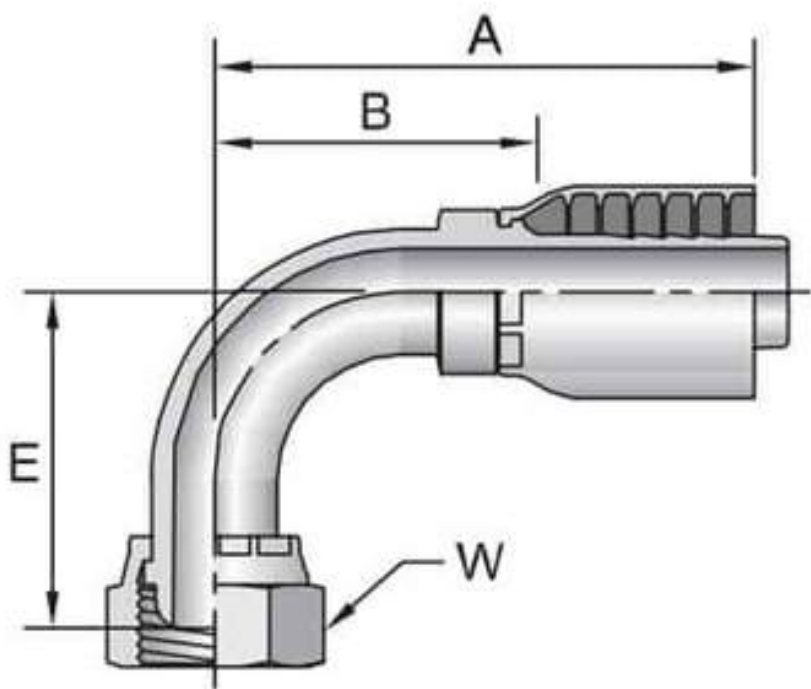
METRIC LIGHT

1CEGM Metric L Female -
45° Elbow Swivel (24° Cone
with O-Ring)



Part No	Thread	Hose I.D	A		B		E	W
	mm		Inch	mm	Inch	mm	Inch	mm
1CEGM-6-4	M12 x 1.5	1/4"	2.68	68	1.77	45	0.75	14
1CEGM-8-4	M14 x 1.5	1/4"	2.32	59	1.46	37	0.75	17
1CEGM-10-4	M16 x 1.5	1/4"	2.68	68	1.77	45	0.75	14
1CEGM-10-6	M16 x 1.5	3/8"	2.95	75	1.81	46	0.91	23
1CEGM-12-6	M18 x 1.5	3/8"	2.91	74	1.77	45	0.87	22
1CEGM-15-8	M22 x 1.5	1/2"	3.5	89	2.17	55	1.06	27
1CEGM-18-6	M26 x 1.5	3/8"	2.91	74	1.77	45	0.87	22
1CEGM-18-8	M26 x 1.5	1/2"	3.5	89	2.17	55	1.06	27
1CEGM-18-10	M26 x 1.5	5/8"	3.5	89	1.93	49	0.91	32
1CEGM-22-12	M30 x 2	3/4"	4.45	113	2.95	75	1.38	36
1CEGM-28-16	M36 x 2	1"	4.92	125	3.35	85	1.34	41

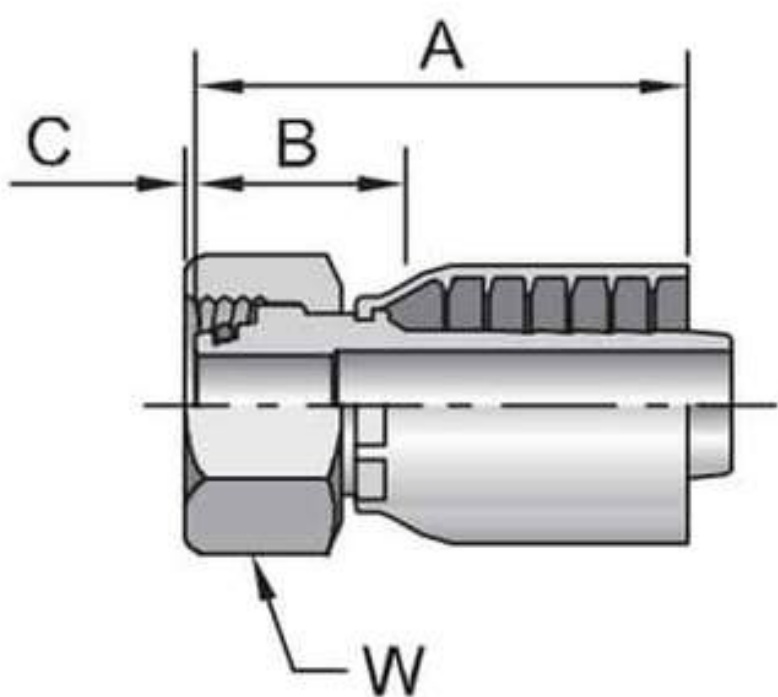
1CFGM Metric L Female - 90°
Elbow Swivel (24° Cone with
O-Ring)



Part No	Thread	Hose I.D	A		B		E	W
	mm		Inch	mm	Inch	mm	Inch	mm
1CFGM-6-4	M12 x 1.5	1/4"	2.68	68	1.77	45	0.75	14
1CFGM-8-4	M14 x 1.5	1/4"	2.32	59	1.46	37	0.75	17
1CFGM-10-4	M16 x 1.5	1/4"	2.68	68	1.77	45	0.75	14
1CFGM-10-6	M16 x 1.5	3/8"	2.95	75	1.81	46	0.91	23
1CFGM-12-4	M18 x 1.5	1/4"	2.91	74	1.77	45	0.87	22
1CFGM-12-6	M18 x 1.5	3/8"	2.91	74	1.77	45	0.87	22
1CFGM-15-6	M22 x 1.5	3/8"	2.95	75	1.57	40	1.57	40
1CFGM-15-8	M22 x 1.5	1/2"	2.95	75	1.57	40	1.57	40
1CFGM-18-6	M26 x 1.5	3/8"	2.91	74	1.77	45	0.87	22
1CFGM-18-8	M26 x 1.5	1/2"	3.5	89	2.17	55	1.06	27
1CFGM-18-10	M26 x 1.5	5/8"	3.5	89	1.93	49	0.91	32
1CFGM-22-12	M30 x 2	3/4"	4.45	113	2.95	75	1.38	36
1CFGM-28-16	M36 x 2	1"	4.92	125	3.35	85	1.34	41

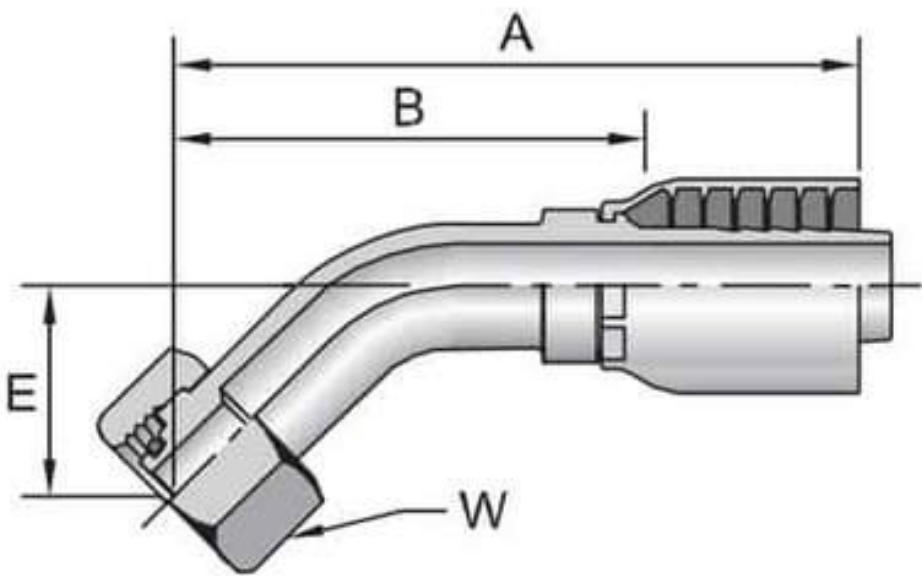
USE WITH: R1S, R2S, R2SC, R2HT, R4K

METRIC HEAVY



1C9GM Metric H Female - Swivel (24° Cone with O-Ring)

Part No	Thread	Hose I.D	A		B		C	W
	mm		Inch	mm	Inch	mm	Inch	mm
1C9GM-6-4	M14 x 1.5	1/4"	1.89	48	1.02	26	0.01	17
1C9GM-8-4	M16 x 1.5	1/4"	1.77	45	0.91	23	0.01	19
1C9GM-10-4	M18 x 1.5	1/4"	1.81	46	0.87	22	0.01	22
1C9GM-10-6	M18 x 1.5	3/8"	1.97	50	0.83	21	0.01	22
1C9GM-12-6	M20 x 1.5	3/8"	2.05	52	0.87	22	0.03	24
1C9GM-14-6	M22 x 1.5	3/8"	1.97	50	0.83	21	0.03	27
1C9GM-16-8	M24 x 1.5	1/2"	2.33	59	0.94	24	0.09	24
1C9GM-20-10	M30 x 2	5/8"	2.59	66	1.06	27	0.05	36
1C9GM-20-12	M30 x 2	3/4"	2.59	66	1.06	27	0.05	36
1C9GM-25-12	M36 x 2	3/4"	2.67	68	1.1	28	0.1	46
1C9GM-30-16	M42 x 10	1"	3.03	77	1.26	32	0.19	50

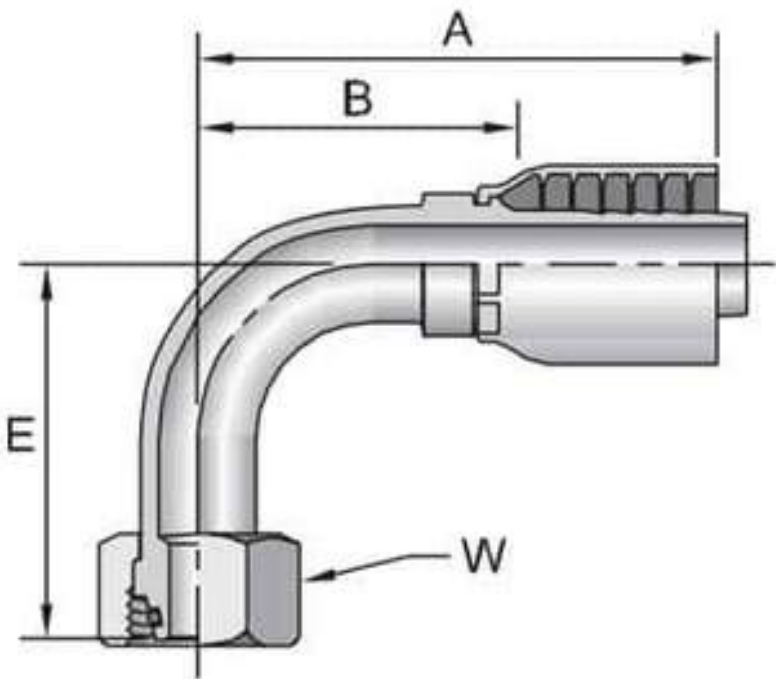


1C0GM Metric H Female - 45° Swivel (24° Cone with O-Ring)

Part No	Thread	Hose I.D	A		B		E	W
	mm		Inch	mm	Inch	mm	Inch	mm
1C0GM-8-4	M16 x 1.5	1/4"	2.32	59	1.38	35	0.63	19
1C0GM-12-6	M20 x 1.5	3/8"	2.72	69	1.57	40	0.79	24
1C0GM-16-8	M24 x 1.5	1/2"	3.23	82	1.89	48	0.94	30
1C0GM-20-10	M30 x 2	5/8"	3.58	91	2.05	52	0.98	36
1C0GM-20-12	M30 x 2	3/4"	3.94	100	2.36	60	1.14	36
1C0GM-25-12	M36 x 2	3/4"	3.97	101	2.4	61	1.18	46
1C0GM-30-16	M42 x 2	1"	4.96	126	3.11	79	1.42	50

USE WITH: R1S, R2S, R2SC, R2HT, R4K

METRIC HEAVY



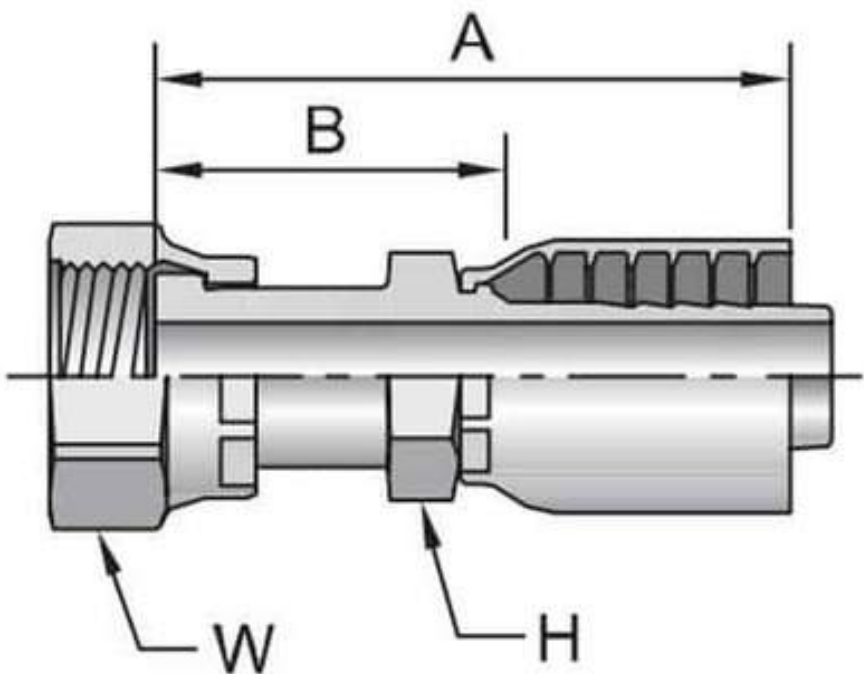
11CGM Metric H Female - 90° Swivel (24° Cone with O-Ring)

Part No	Thread	Hose I.D	A		B		E	W
	mm		Inch	mm	Inch	mm	Inch	mm
11CGM-8-4	M16 x 1.5	1/4"	1.89	48	1.02	26	1.14	19
11CGM-10-4	M18 x 1.5	1/4"	1.97	50	1.02	26	1.14	22
11CGM-12-6	M20 x 1.5	3/8"	2.56	65	1.38	35	1.46	24
11CGM-14-6	M22 x 1.5	3/8"	2.56	65	1.38	35	1.46	27
11CGM-16-6	M24 x 1.5	3/8"	2.83	72	1.46	37	1.77	30
11CGM-20-10	M30 x 2	5/8"	3.11	79	1.57	40	1.89	36
11CGM-25-12	M36 x 2	3/4"	3.35	85	1.9	48	2.03	46
11CGM-30-16	M42 x 2	1"	4.53	115	2.68	68	2.99	50



USE WITH: R1S, R2S, R2SC, R2HT, R4K

CHINESE METRIC

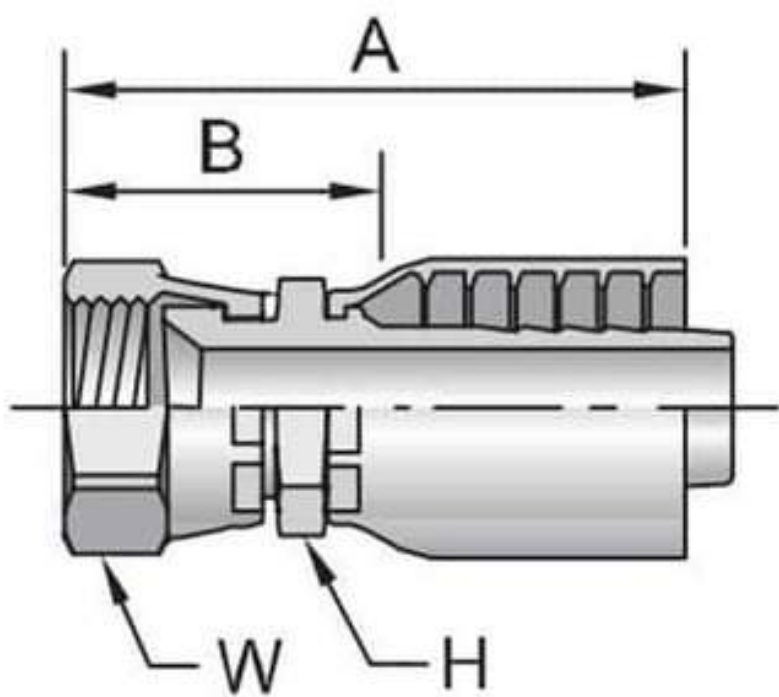


1CMGM Chinese Metric Flat Face Female - Swivel

Part No	Thread	Hose I.D	A		B		H	W
	mm		Inch	mm	Inch	mm	Inch	mm
1CMGM-14-4	14	1/4"	2.2	56	1.1	28	0.63	16.9
1CMGM-16-4	16	1/4"	2.24	57	1.14	29	0.67	18.9
1CMGM-16-6	16	3/8"	2.4	61.3	1.2	30.6	0.68	22
1CMGM-18-6	18	3/8"	2.52	64	1.26	32	0.71	21.7
1CMGM-22-8	22	1/2"	2.83	72	1.38	35	0.79	26.8
1CMGM-27-10	27	5/8"	3.07	78	1.54	39	0.91	31.5
1CMGM-30-12	30	3/4"	3.39	86	1.69	43	1.02	35.7
1CMGM-36-12	36	3/4"	3.62	92	1.81	46	1.1	40.8
1CMGM-36-16	36	1"	3.86	98	1.97	50	1.18	40.8
1CMGM-39-16	39	1"	4.13	105	2.09	53	1.26	54.4
1CMGM-42-16	42	1"	4.33	110	2.2	56	1.3	49.7

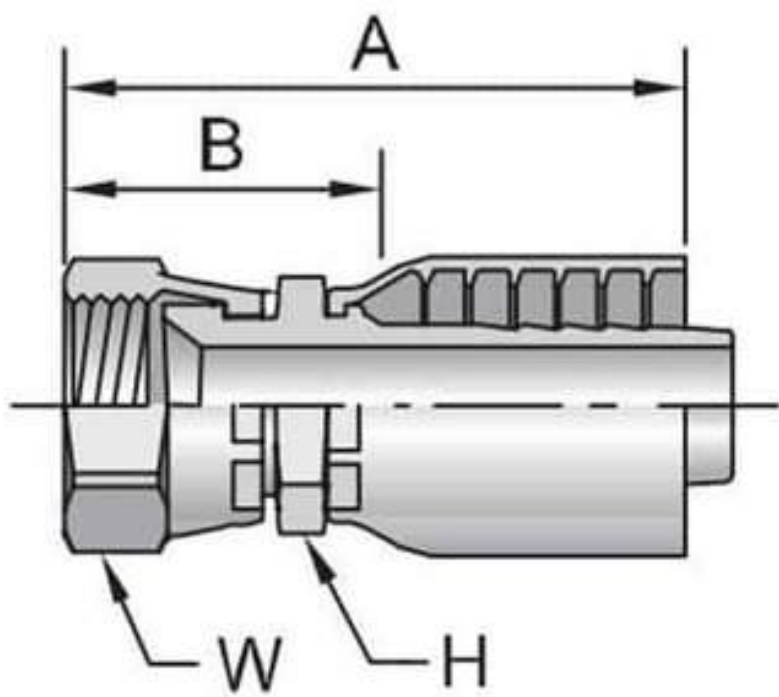
USE WITH: R1S, R2S, R2SC, R2HT, R4K

METRIC KOMATSU



1MUGM Female Metric
Komatsu - Swivel (30° Flare)

Part No	Thread	Hose I.D	A		B		H	W
	mm		Inch	mm	Inch	mm	Inch	mm
1MUGM-4-4	M14 x 1.5	1/4"	2.07	53	1.32	34	19	19
1MUGM-6-4	M18 x 1.5	1/4"	2.18	55	1.43	36	24	24
1MUGM-6-6	M18 x 1.5	3/8"	2.45	62	1.42	36	24	24
1MUGM-8-8	M22 x 1.5	1/2"	2.84	72	1.58	40	27	27



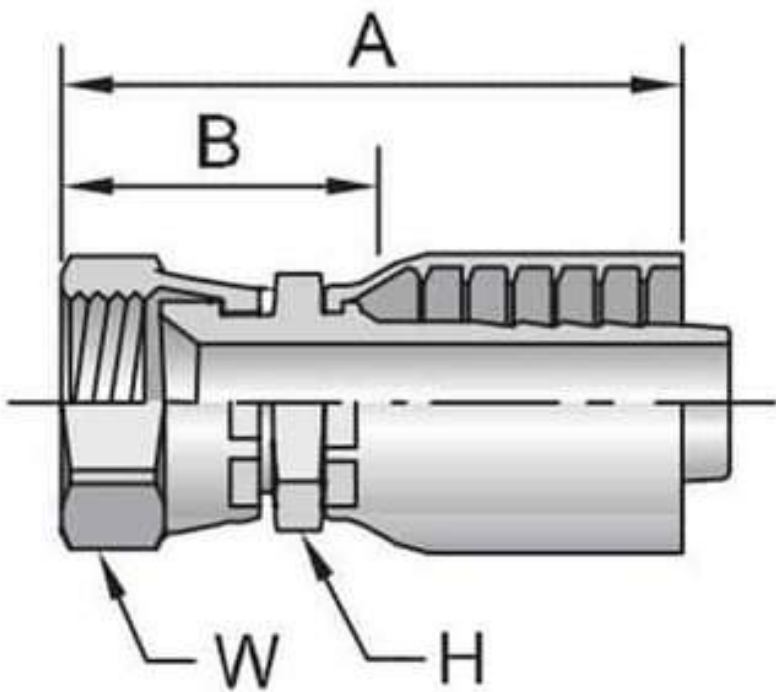
1XUGM Female Metric
Komatsu - Swivel (30° Flare)

Part No	Thread	Hose I.D	A		B		H	W
	mm		Inch	mm	Inch	mm	Inch	mm
1XUGM-10-10	M24 x 1.5	5/8"	3.25	83	1.81	46	30	32
1XUGM-12-12	M30 x 1.5	3/4"	3.4	86	1.96	50	32	36
1XUGM-16-16	M33 x 1.5	1"	4.03	102	2.41	61	36	41
1XUGM-20-20	M36 x 1.5	1.1/4"	4.19	106	2.5	64	46	46
1XUGM-24-24	M42 x 1.5	1.1/2"	1.12	105	2.75	70	50	55



USE WITH: R1S, R2S, R2SC, R2HT, R4K

JIS

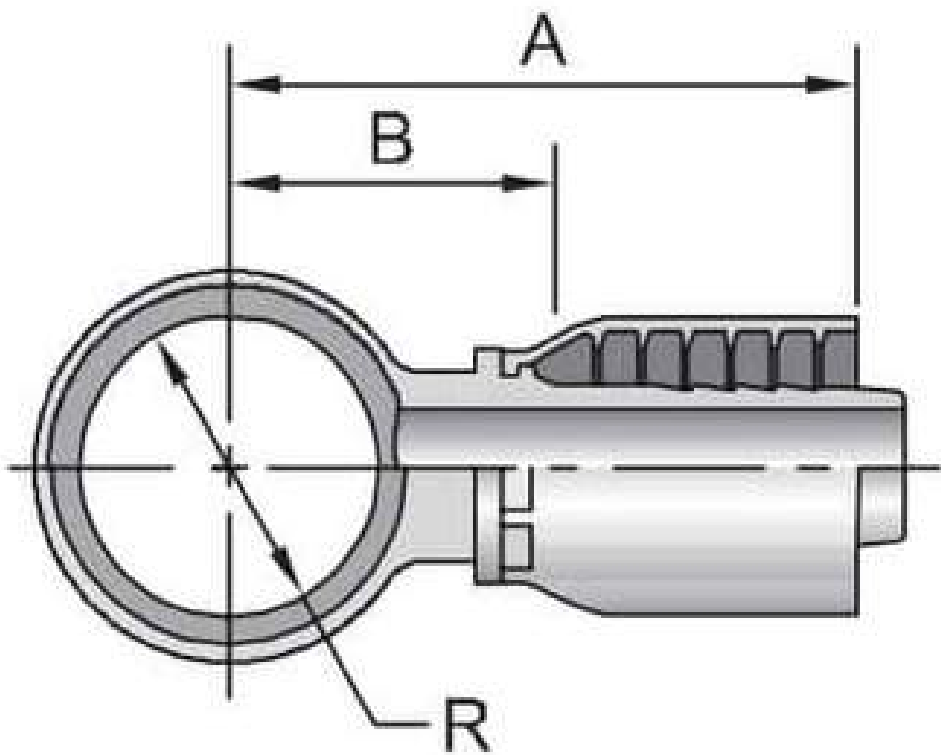


1FUGM Female JIS - Swivel
(30° Flare)

Part No	Thread	Hose I.D	A		B		H	W
	Inch		Inch	mm	Inch	mm	Inch	mm
1FUGM-4-4	1/4" x 19	1/4"	1.9	48	1.15	29	19	19
1FUGM-6-6	3/8" x 19	3/8"	2.32	59	1.29	33	22	22
1FUGM-8-8	1/2" x 14	1/2"	2.66	68	1.4	36	27	27
1FUGM-12-12	3/4" 14	3/4"	3.06	78	1.62	41	36	36
1FUGM-16-16	1" x 11	1"	3.53	90	1.91	49	41	41
1FUGM-20-20	1.1/4" x 11	1.1/4"	3.87	98	2.18	55	50	50

BANJO

USE WITH: R1S, R2S, R2SC, R2HT, R4K



149GM DIN Metric Banjo

Part No	Thread	Hose I.D	A		B	
	mm		Inch	mm	Inch	mm
149GM-10-4	10	1/4"	1.85	47	0.94	24
149GM-12-4	12	1/4"	1.85	47	0.98	25
149GM-14-4	14	1/4"	1.85	47	0.98	25
149GM-14-5	14	5/16"	2.01	51	1.06	27
149GM-14-6	14	3/8"	2.16	55	1.1	28
149GM-16-6	16	3/8"	2.28	58	1.14	29
149GM-18-6	18	3/8"	2.44	62	1.18	30
149GM-18-8	18	1/2"	2.6	66	1.22	31
149GM-22-8	22	1/2"	2.75	70	1.3	33
149GM-22-10	22	5/8"	2.91	74	1.38	35
149GM-26-12	26	3/4"	3.07	78	1.54	39

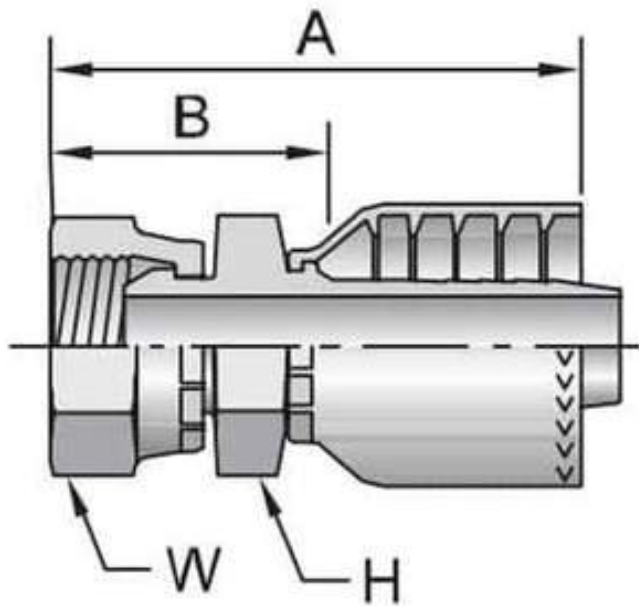
MASTERHOSE **MH** FITTINGS

USE WITH: R1S, R2S, R2SC, R2HT, R4K



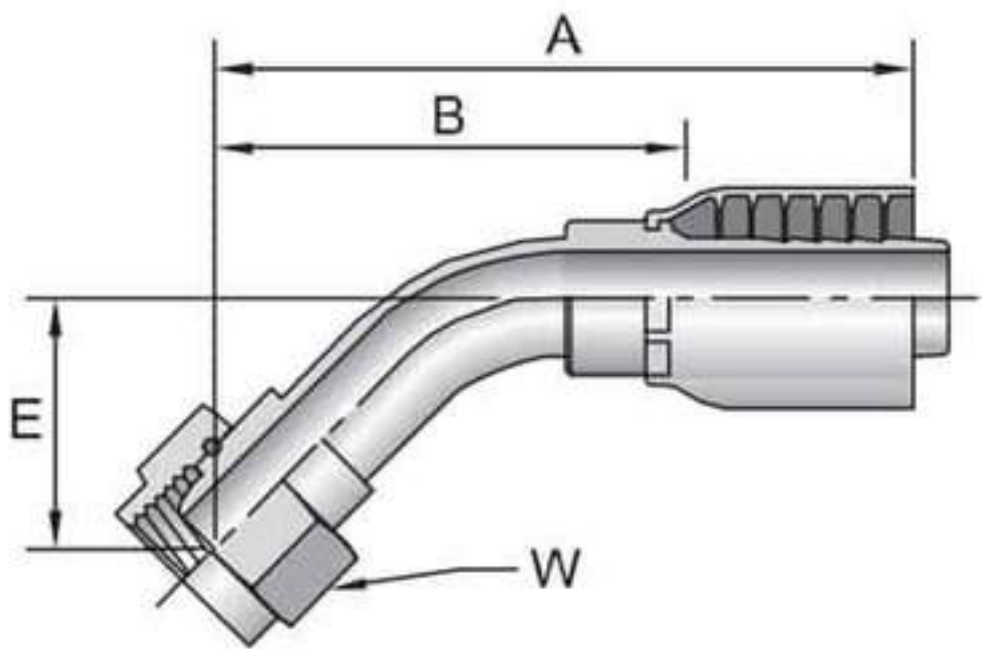
BSP

192MH Female BSPP -
Swivel (60° Cone)



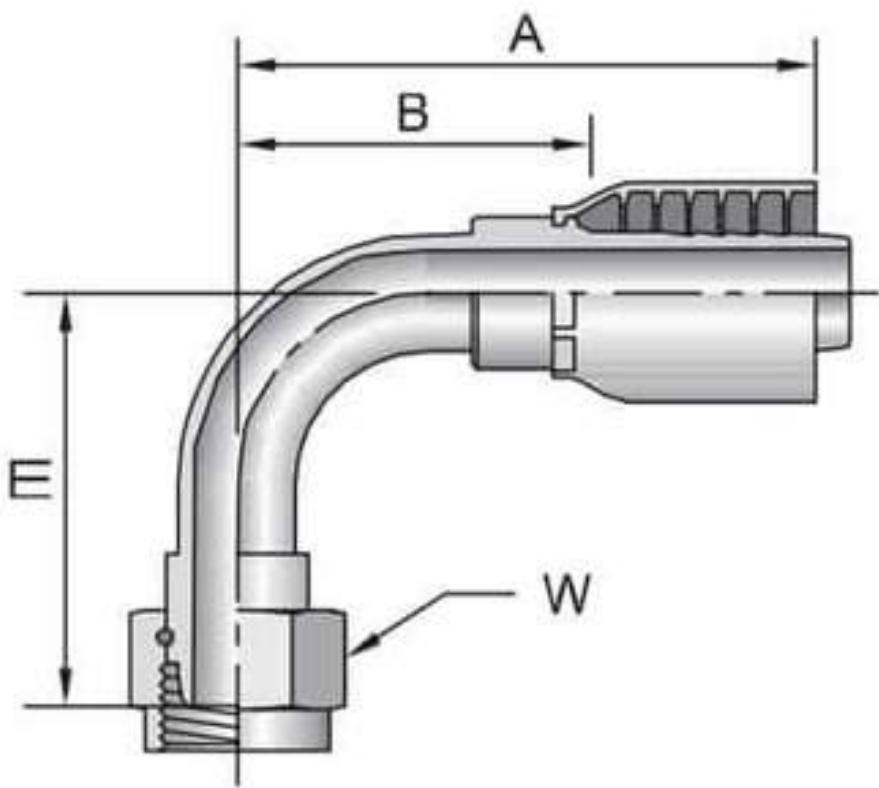
Part No	Thread	Hose I.D	A		B		H	W
	Inch		Inch	mm	Inch	mm	Inch	Inch
192MH-12-12	3/4" x 14	3/4"	3.74	95	1.81	46	32	36
192MH-16-16	1" x 11	1"	3.98	101	1.97	50	36	41
192MH-20-20	1.1/4" x 11	1.1/4"	4.8	122	2.2	56	46	50

1B1MH Female BSPP - 45°
Elbow Swivel (60° Cone)



Part No	Thread	Hose I.D	A		B		E	W
	Inch		Inch	mm	Inch	mm	Inch	Inch
1B1MH-12-12	3/4" x 14	3/4"	4.76	121	2.83	72	1.22	32
1B1MH-16-16	1" x 11	1"	5.31	135	3.43	87	1.34	41
1B1MH-20-20	1.1/4" x 11	1.1/4"	6.81	173	3.94	100	1.58	50

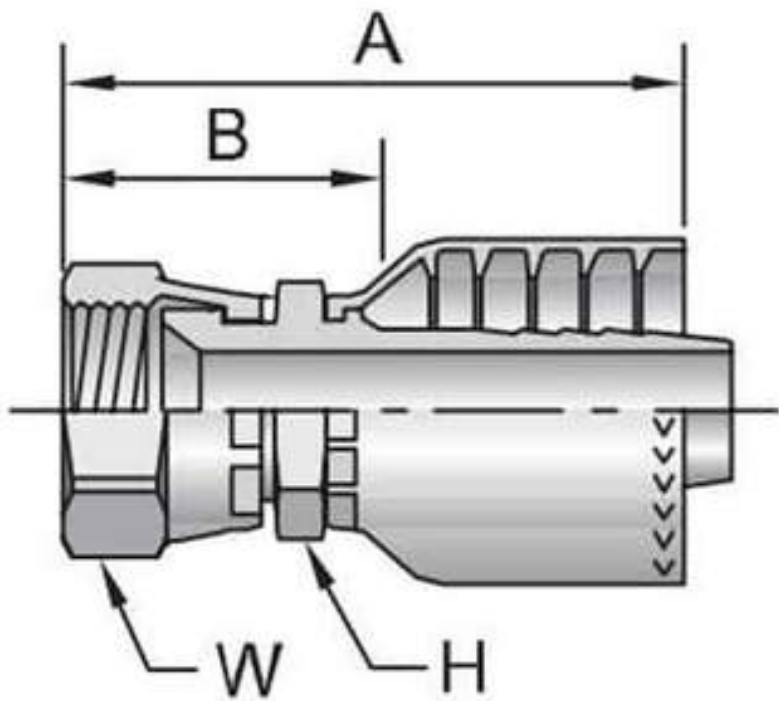
1B2MH Female BSPP - 90°
Elbow Swivel (60° Cone)



Part No	Thread	Hose I.D	A		B		E	W
	Inch		Inch	mm	Inch	mm	Inch	Inch
1B2MH-12-12	3/4" x 14	3/4"	4.37	111	2.44	62	2.52	32
1B2MH-16-16	1" x 11	1"	5.08	129	3.07	78	2.91	41
1B2MH-20-20	1.1/4" x 11	1.1/4"	6.18	157	3.58	91	3.43	50

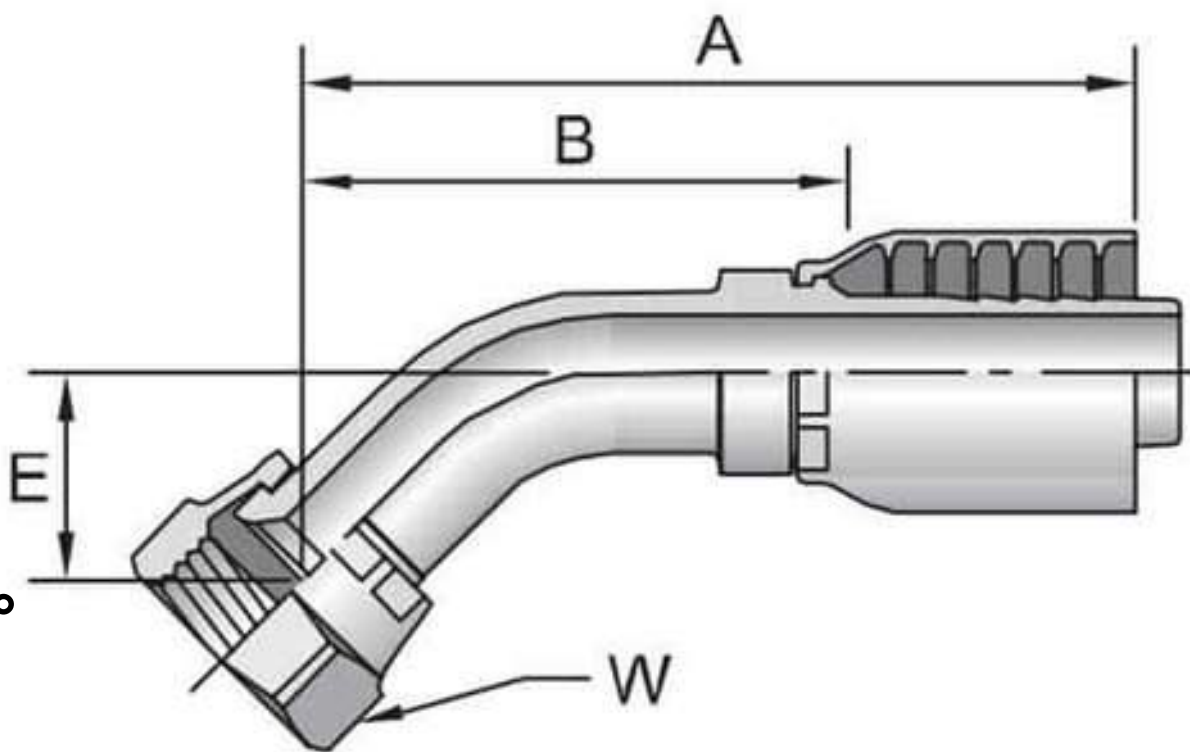
USE WITH: R6K

JIC



106MH Female JIC 37° - Swivel

Part No	Thread	Hose I.D	A		B		H	W
	Inch		Inch	mm	Inch	mm	Inch	Inch
106MH-12-12	1.1/16" x 12	3/4"	3.74	95	1.85	47	1.1/8"	1.1/4"
106MH-16-16	1.5/16" x 12	1"	4.03	102	2.01	51	1.3/8"	1.1/2"
106MH-20-20	1.5/8" x 12	1.1/4"	4.8	122	2.17	55	1.3/4"	2"
106MH-24-24	1.7/8" x 12	1.1/2"	4.96	126	2.7	68.5	2"	2.1/4"
106MH-32-32	2.1/2" x 12	2"	5.83	148	3.03	77	2.1/2"	2.7/8"

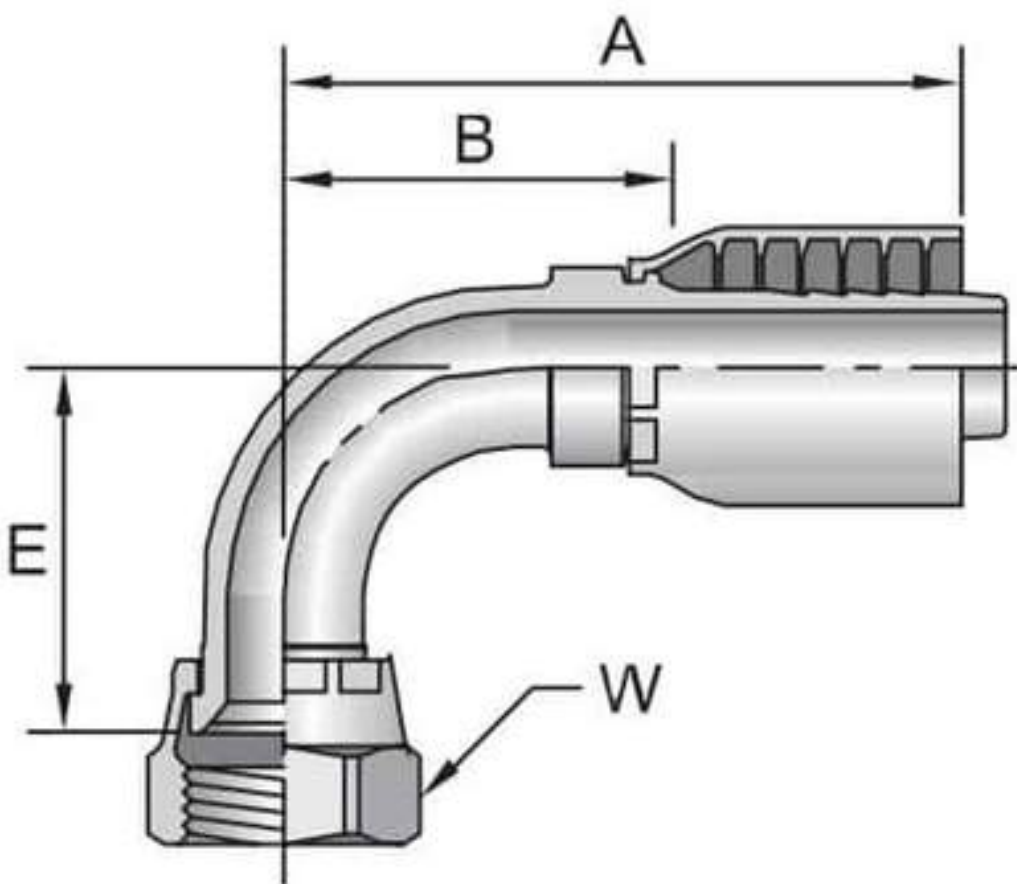


137MH Female JIC 37° - 45°
Elbow Swivel

Part No	Thread	Hose I.D	A		B		E	W
	Inch		Inch	mm	Inch	mm	Inch	Inch
137MH-12-12	1.1/16" x 12	3/4"	4.37	111	2.44	62	0.94	1.1/4"
137MH-16-16	1.5/16" x 12	1"	5	127	2.99	76	1.1	1.1/2"
137MH-20-20	1.5/8" x 12	1.1/4"	6.02	153	3.43	87	1.3	2"
137MH-24-24	1.7/8" x 12	1.1/2"	6.93	176	4.45	113	1.65	2.1/4"
137MH-32-32	2.1/2" x 12	2"	8.66	200	5.63	143	1.96	2.7/8"

USE WITH: R6K

JIC

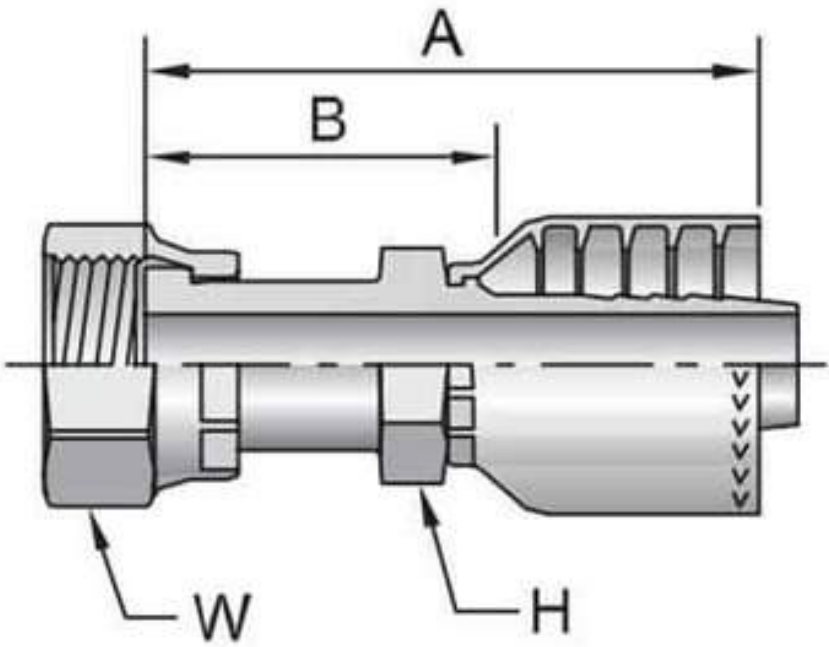


139MH Female JIC 37° - 90° Elbow Swivel

Part No	Thread	Hose I.D	A		B		E	W
	Inch		Inch	mm	Inch	mm	Inch	Inch
139MH-12-12	1.1/16" x 12	3/4"	4.06	103	2.17	55	2.09	1.1/4"
139MH-16-16	1.5/16" x 12	1"	4.76	121	2.76	70	2.44	1.1/2"
139MH-20-20	1.5/8" x 12	1.1/4"	5.71	145	3.07	78	2.8	2"
139MH-24-24	1.7/8" x 12	1.1/2"	6.81	173	4.33	110	3.86	2.1/4"
139MH-32-32	2.1/2" x 12	2"	8.39	213	5.59	142	4.69	2.7/8"

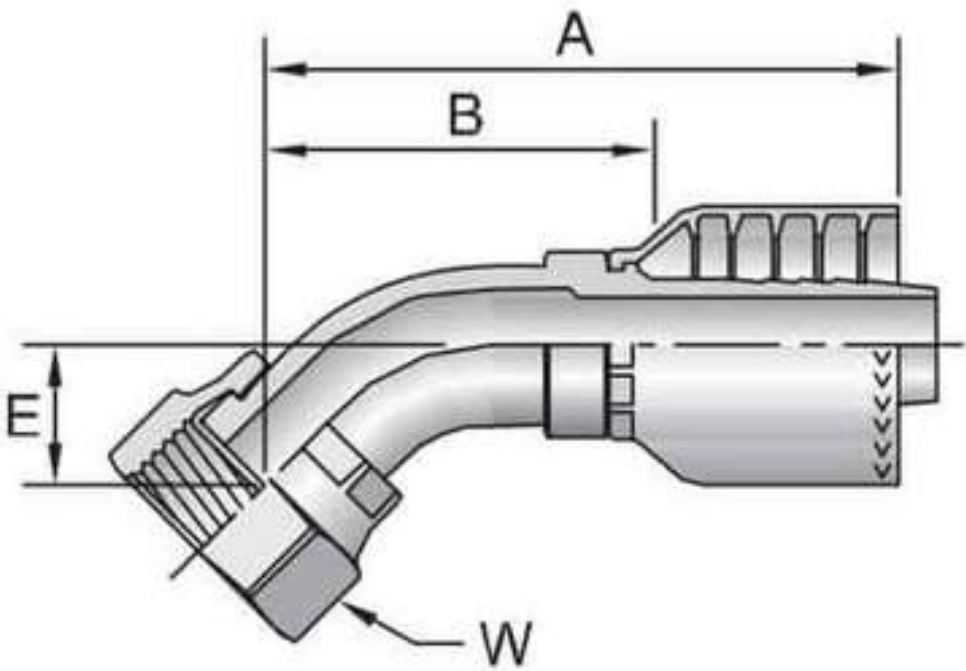
USE WITH: R6K

ORFS



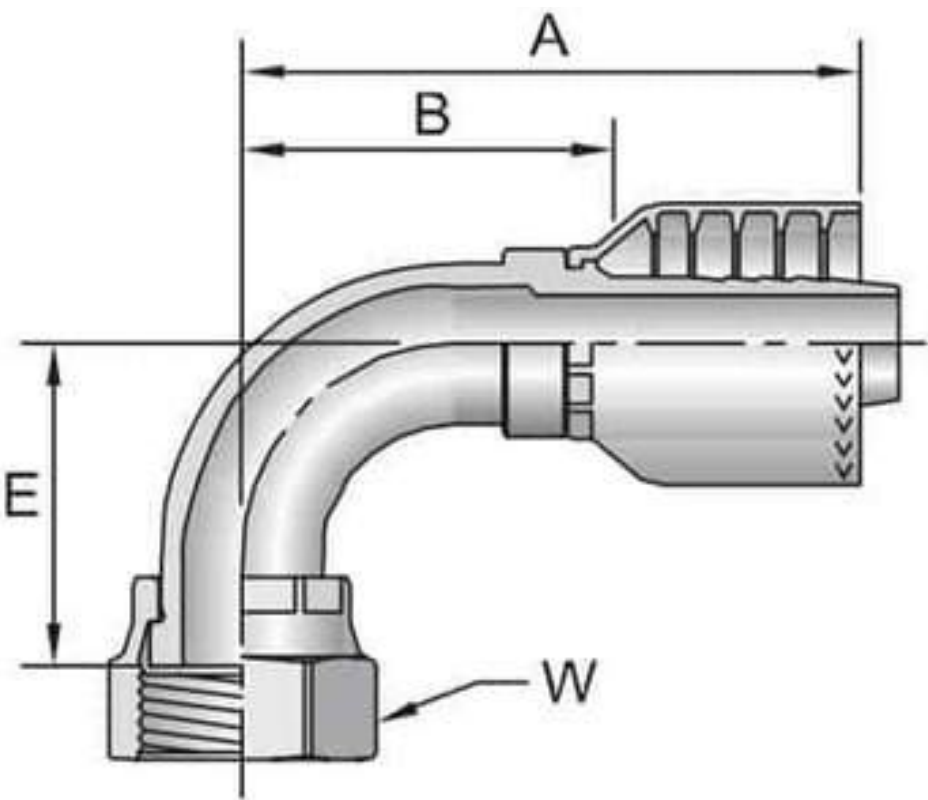
1JSMH ORFS Female Flat Face - Swivel

Part No	Thread	Hose I.D	A		B		H	W
	Inch		Inch	mm	Inch	mm	Inch	Inch
1JSMH-12-12	1.3/16" x 12	3/4"	3.78	96	1.81	46	1.1/8"	1.3/8"
1JSMH-16-16	1.7/16" x 12	1"	4.03	102	2.01	51	1.3/8"	1.5/8"
1JSMH-20-20	11/16" x 12	1.1/4"	4.62	117	2.01	51	1.3/4"	1.7/8"
1JSMH-24-24	2" x 12	1.1/2"	4.69	119	2.2	56	2"	2.1/2"



1J7MH ORFS Female Flat Face - 45° Elbow Swivel

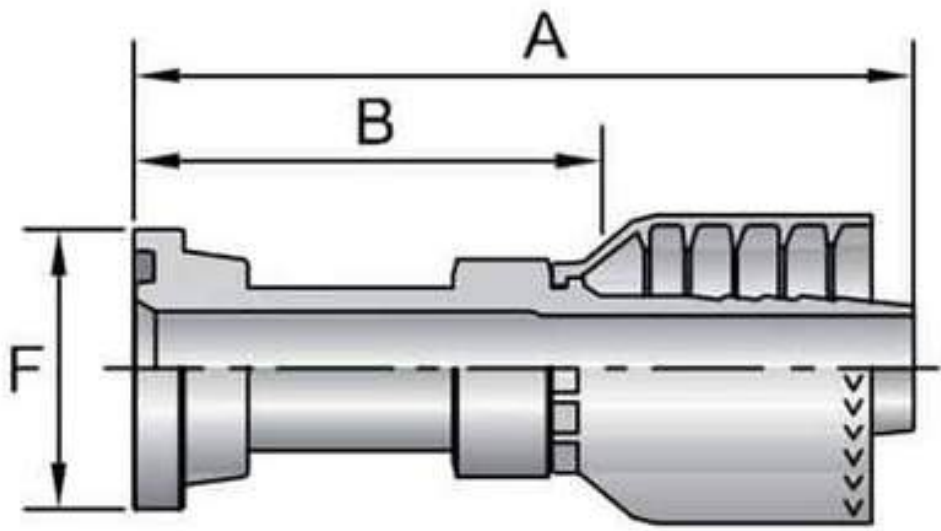
Part No	Thread	Hose I.D	A		B		E	W
	Inch		Inch	mm	Inch	mm	Inch	Inch
1J7MH-12-12	1.3/16" x 12	3/4"	4.41	112	2.44	62	0.98	1.3/8"
1J7MH-16-16	1.7/16" x 12	1"	4.98	126	2.95	75	1.1	1.5/8"



1J9MH ORFS Female Flat Face - 90° Elbow Swivel

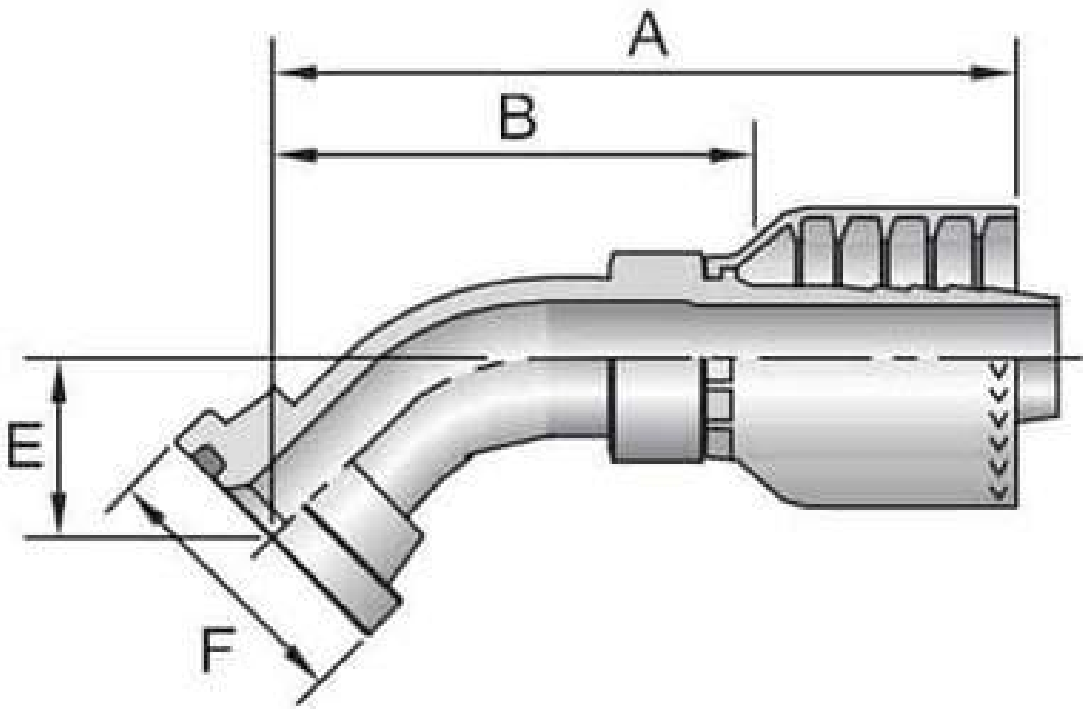
Part No	Thread	Hose I.D	A		B		E	W
	Inch		Inch	mm	Inch	mm	Inch	Inch
1J9MH-12-12	1.3/16" x 12	3/4"	4.13	105	2.17	55	2.09	1.3/8"
1J9MH-16-16	1.7/16" x 12	1"	4.76	121	2.76	70	2.44	1.5/8"

CODE 61



115MH SAE Code 61 Flange Head - Straight

Part No	Flange	Hose I.D	A		B		F
	Inch		Inch	mm	Inch	mm	Inch
115MH-12-12	3/4"	3/4"	4.02	102	2.13	54	1.1/2"
115MH-16-12	1"	3/4"	3.31	84	1.38	35	1.3/4"
115MH-16-16	1"	1"	4.57	116	2.56	65	1.3/4"
115MH-20-16	1.1/4"	1"	4.09	104	2.09	53	2"
115MH-20-20	1.1/4"	1.1/4"	5.55	141	2.95	75	2"
115MH-24-20	1.1/2"	1.1/4"	5.31	135	2.72	69	2.3/8"
115MH-24-24	1.1/2"	1.1/2"	5.39	137	2.91	74	2.3/8"
115MH-32-24	2"	1.1/2"	5.98	152	3.5	89	2.7/8"
115MH-32-32	2"	2"	6.3	160	3.5	89	2.13/16"

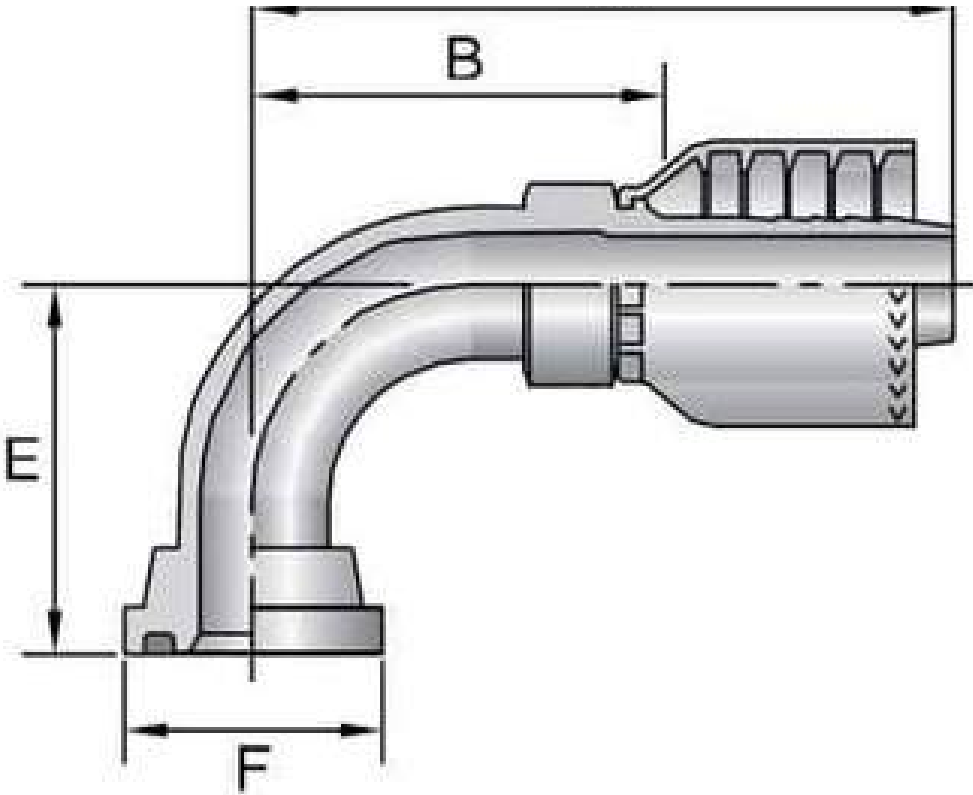


117MH SAE Code 61 Flange Head - 45° Elbow

Part No	Thread	Hose I.D	A		B		F	E
	Inch		Inch	mm	Inch	mm	Inch	Inch
117MH-12-12	3/4"	3/4"	4.76	121	2.87	73	1.1/2"	1.1
117MH-16-12	1"	3/4"	4.84	123	2.91	74	1.3/4"	1.1
117MH-16-16	1"	1"	5.43	138	3.43	87	1.3/4"	1.22
117MH-20-16	1.1/4"	1"	5.47	139	3.46	88	2"	1.22
117MH-20-20	1.1/4"	1.1/4"	6.61	168	4.02	102	2"	1.38
117MH-24-20	1.1/2"	1.1/4"	6.69	170	4.09	104	2.3/8"	1.42
117MH-24-24	1.1/2"	1.1/2"	7.05	179	4.57	116	2.3/8"	1.57
117MH-32-24	2"	1.1/2"	7.09	180	4.61	117	2.7/8"	1.61
117MH-32-32	2"	2"	8.46	215	5.67	144	2.13/16"	1.89

USE WITH: R6K

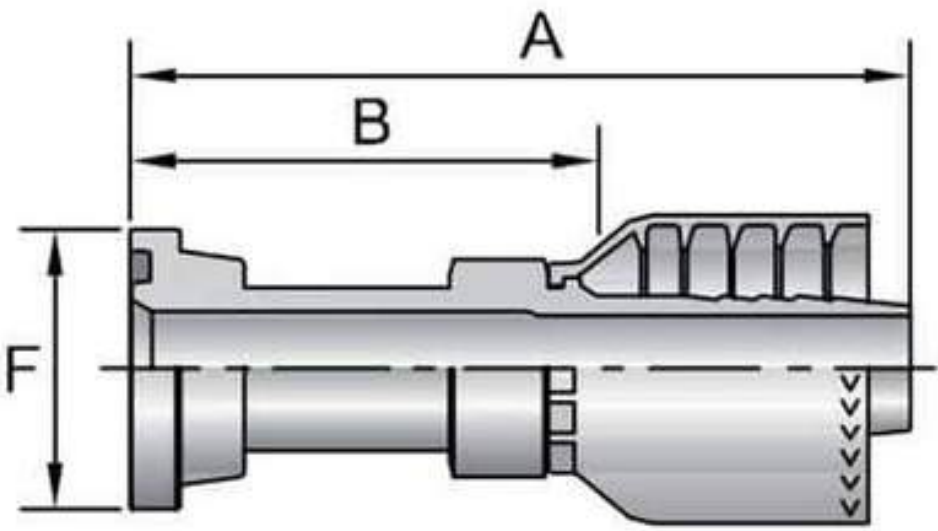
CODE 61



119MH SAE Code 61 Flange Head - 90° Elbow

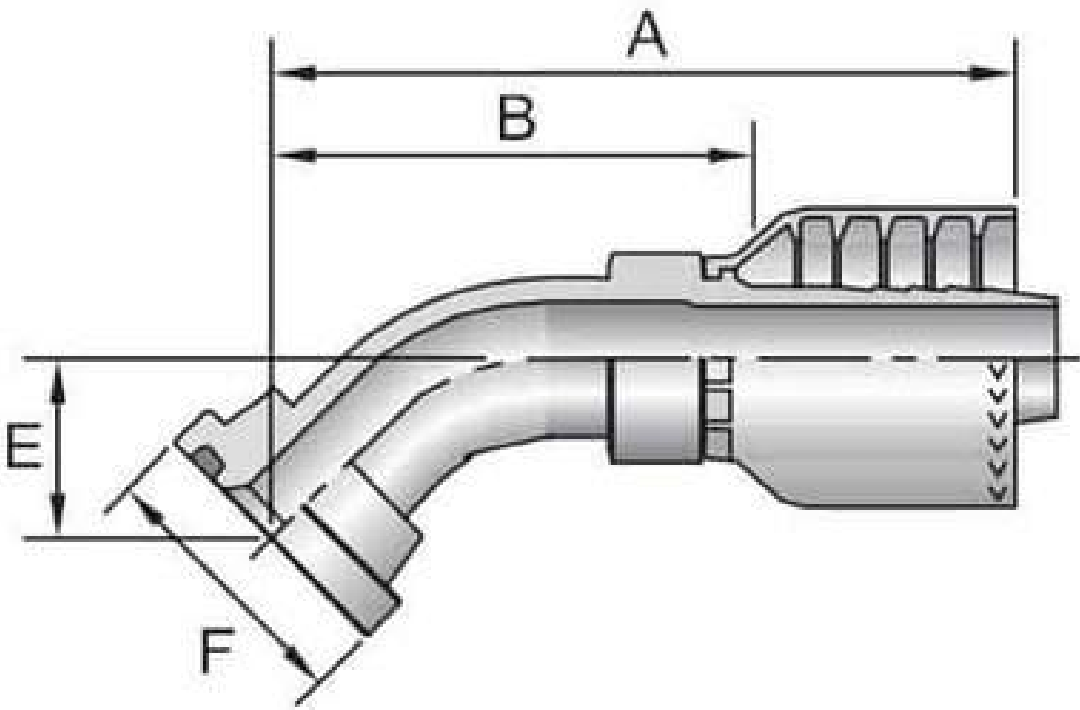
Part No	Flange	Hose I.D	A		B		F	E
	Inch		Inch	mm	Inch	mm	Inch	Inch
119MH-12-12	3/4"	3/4"	4.61	117	2.64	67	1.1/2"	2.4
119MH-16-12	1"	3/4"	4.49	114	2.56	65	1.3/4"	2.4
119MH-16-16	1"	1"	5.24	133	3.23	82	1.3/4"	2.72
119MH-20-16	1.1/4"	1"	5.24	133	3.23	82	2"	2.76
119MH-20-20	1.1/4"	1.1/4"	6.46	164	3.86	98	2"	3.15
119MH-24-20	1.1/2"	1.1/4"	6.5	165	3.9	99	2.3/8"	3.23
119MH-24-24	1.1/2"	1.1/2"	7.01	178	4.53	115	2.3/8"	3.74
119MH-32-24	2"	1.1/2"	7.01	178	4.53	115	2.13/16"	3.74
119MH-32-32	2"	2"	8.5	216	5.71	145	2.13/16"	4.57

CODE 62



16AMH SAE Code 62
Flange Head - Straight

Part No	Flange	Hose I.D	A		B		F
	Inch		Inch	mm	Inch	mm	Inch
16AMH-12-12	3/4"	3/4"	4.65	118	2.68	68	1.5/8"
16AMH-16-12	1"	3/4"	4.45	113	2.48	63	1.7/8"
16AMH-16-16	1"	1"	5.2	132	3.19	81	1.7/8"
16AMH-16-20	1"	1.1/4"	5.91	150	3.31	84	1.7/8"
16AMH-20-16	1.1/4"	1"	4.8	122	2.8	71	2.1/8"
16AMH-20-20	1.1/4"	1.1/4"	5.71	145	3.11	79	2.1/8"
16AMH-24-20	1.1/2"	1.1/4"	6.26	159	3.66	93	2.1/2"
16AMH-24-24	1.1/2"	1.1/2"	6.54	166	4.06	103	2.1/2"
16AMH-32-24	2"	1.1/2"	5.98	152	3.5	89	3.1/8"
16AMH-32-32	2"	2"	6.42	163	3.66	93	3.1/8"

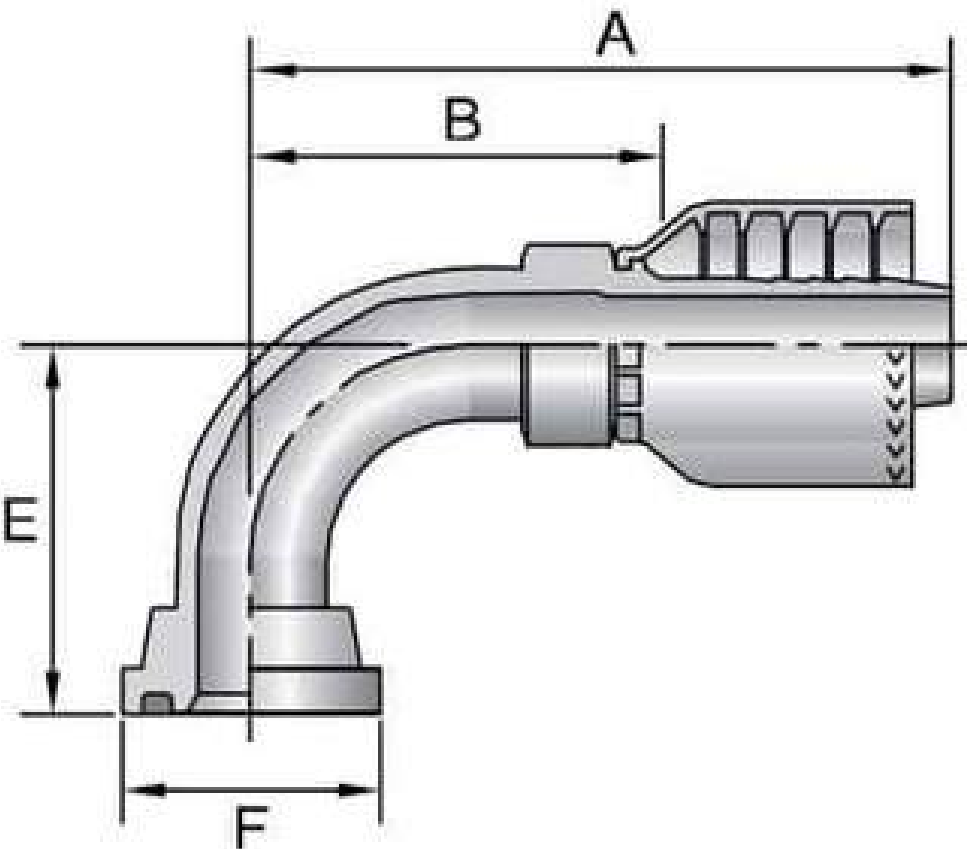


16FMH SAE Code 62
Flange Head - 45° Elbow

Part No	Flange	Hose I.D	A		B		F	E	
	Inch		Inch	mm	Inch	mm	Inch	Inch	mm
16FMH-12-12	3/4"	3/4"	4.96	126	2.99	76	1.5/8"	1.26	32
16FMH-16-12	1"	3/4"	5	127	3.03	77	1.7/8"	1.3	33
16FMH-16-16	1"	1"	5.67	144	3.66	93	1.7/8"	1.38	35
16FMH-20-16	1.1/4"	1"	5.75	146	3.74	95	2.1/8"	1.5	38
16FMH-20-20	1.1/4"	1.1/4"	6.77	172	4.17	106	2.1/8"	1.65	42
16FMH-24-24	1.1/2"	1.1/2"	7.24	184	4.76	121	2.1/2"	1.93	49
16FMH-32-32	2"	2"	8.98	228	6.22	158	3.1/8"	2.48	63

USE WITH: R6K

CODE 62

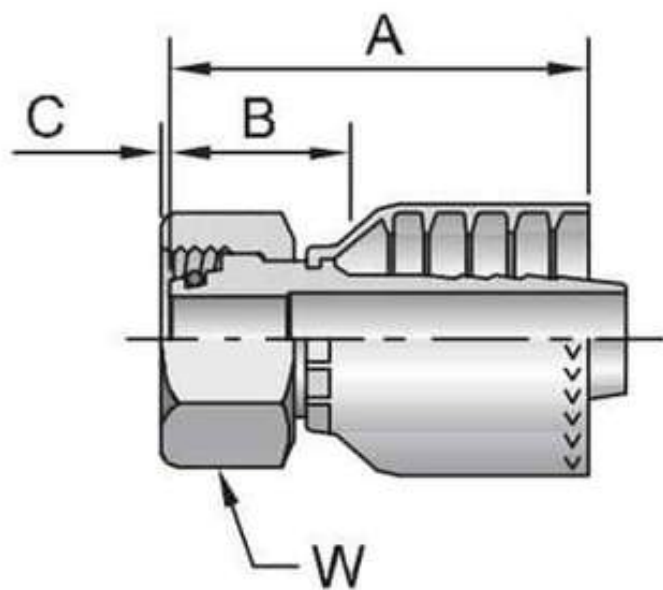


16NMH SAE Code 62
Flange Head - 90° Elbow

Part No	Flange	Hose I.D	A		B		F	E	
	Inch		Inch	mm	Inch	mm	Inch	Inch	mm
16NMH-12-12	3/4"	3/4"	4.53	115	2.56	65	1.5/8"	2.6	66
16NMH-16-12	1"	3/4"	4.61	117	2.56	65	1.7/8"	2.68	68
16NMH-16-16	1"	1"	5.28	134	3.27	83	1.7/8"	2.99	76
16NMH-16-20	1"	1.1/4"	5.79	147	3.15	80	1.7/8"	2.99	76
16NMH-20-16	1.1/4"	1"	5.24	133	3.23	82	2.1/8"	3.15	80
16NMH-20-20	1.1/2"	1.1/4"	6.34	161	3.74	95	2.1/8"	3.58	91
16NMH-24-24	1.1/2"	1.1/2"	6.85	174	4.37	111	2.1/2"	4.25	108
16NMH-32-24	2"	1.1/2"	6.85	174	4.37	111	3.1/8"	4.65	118
16NMH-32-32	2"	2"	8.43	214	5.63	143	3.1/8"	5.43	138

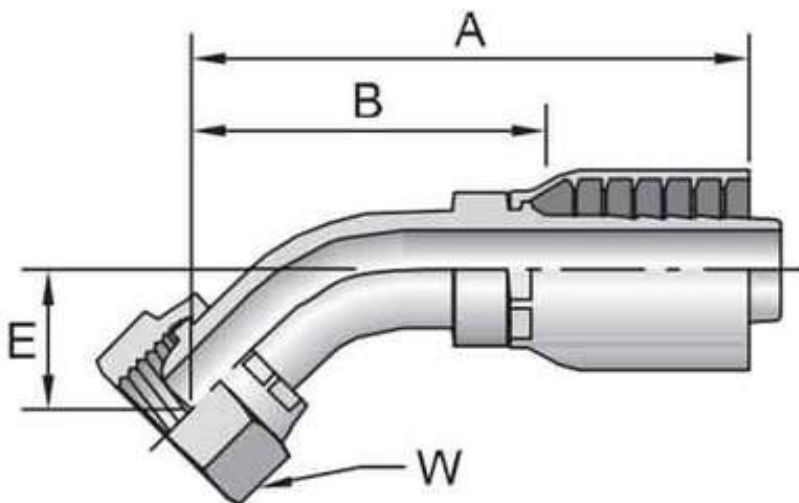
METRIC HEAVY

1C9MH Metric H Female - Swivel (24° Cone with O-Ring)



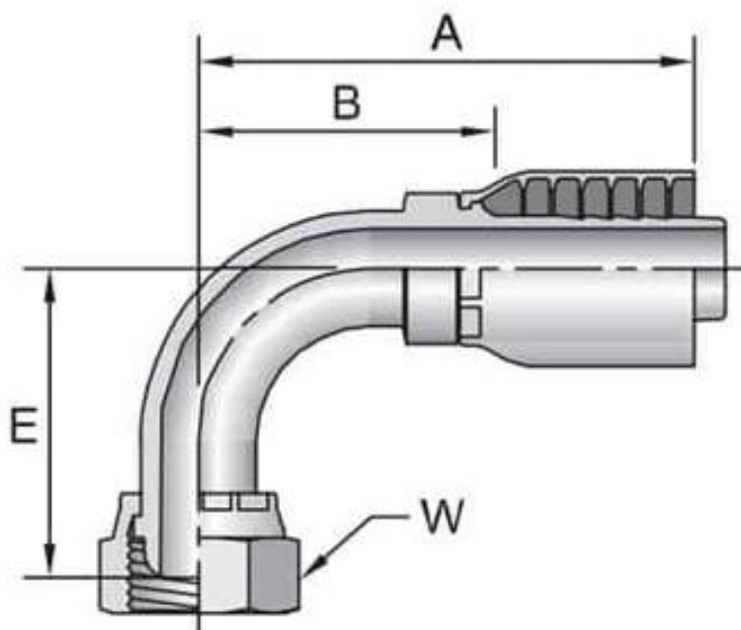
Part No	Thread	Hose I.D	A		B		C	W
	mm		Inch	mm	Inch	mm	Inch	Inch
1C9MH-20-12	M30 x 2	3/4"	3.12	79	1.36	35	0.1	46
1C9MH-25-12	M36 x 2	3/4"	3.12	79	1.36	35	0.1	46
1C9MH-25-16	M42 x 2	1"	3.4	86	1.55	39	0.19	50
1C9MH-30-20	M42 x 2	1.1/4"	4.61	117	1.65	42	1.15	1.97
1C9MH-38-24	M52 x 2	1.1/2"	3.98	101	1.46	37	0.177	2.36

1C0MH Metric H Female - 45° Elbow Swivel (24° Cone with O-Ring)



Part No	Thread	Hose I.D	A		B		E	W
	mm		Inch	mm	Inch	mm	Inch	Inch
1C0MH-20-12	M30 x 2	3/4"	4.45	113	2.56	65	1.14	46
1C0MH-25-12	M36 x 2	3/4"	4.45	113	2.56	65	1.14	46
1C0MH-30-16	M42 x 2	1"	5.16	131	3.19	81	1.34	50
1C0MH-30-20	M42 x 2	1.1/4"	6.57	167	3.58	91	1.5	1.97
1C0MH-38-24	M52 x 2	1.1/2"	6.18	157	3.7	94	1.77	2.36

11CMH Metric H Female - 90° Elbow Swivel (24° Cone with O-Ring)

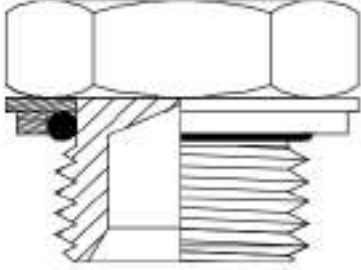
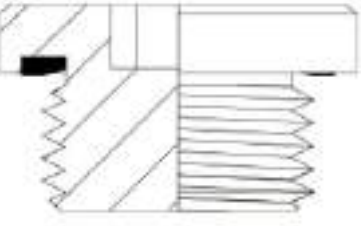
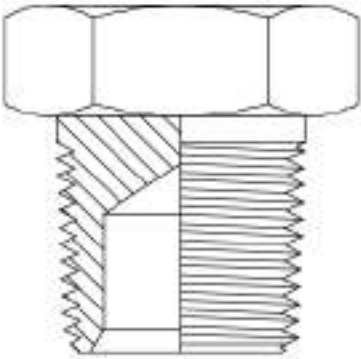


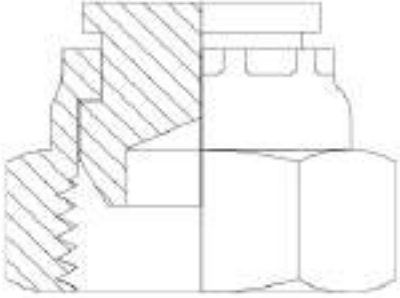
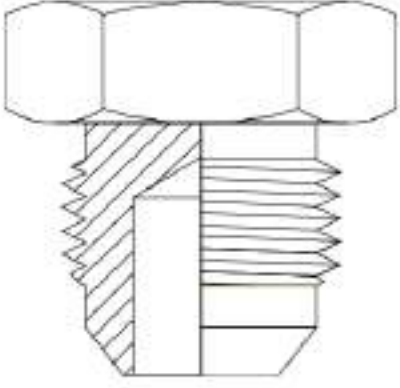
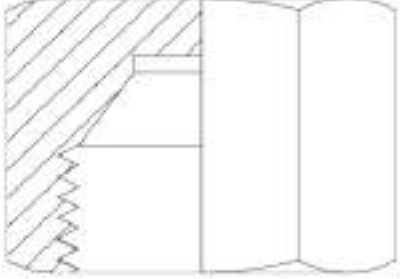
Part No	Thread	Hose I.D	A		B		E	W
	mm		Inch	mm	Inch	mm	Inch	Inch
11CMH-20-12	M30 x 2	3/4"	4.12	105	2.36	60	2.32	1.42
11CMH-25-12	M36 x 2	3/4"	4.12	105	2.36	60	2.32	1.81
11CMH-30-16	M42 x 2	1"	4.71	120	2.86	73	2.68	1.97
11CMH-30-20	M42 x 2	1.1/4"	6.14	156	3.15	80	3.11	1.97
11CMH-38-24	M52 x 2	1.1/2"	6.61	168	4.13	105	4.05	2.36

HYDRAULIC ADAPTORS

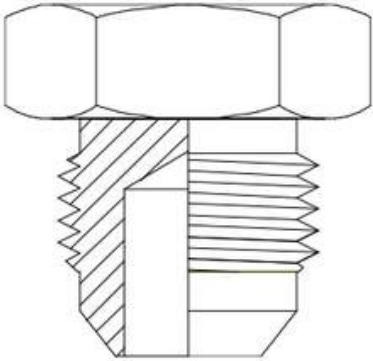
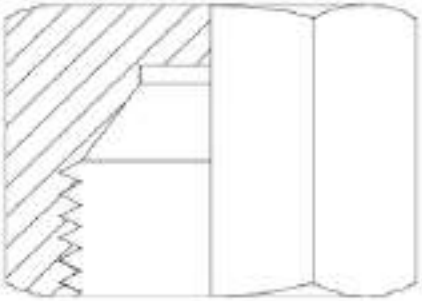
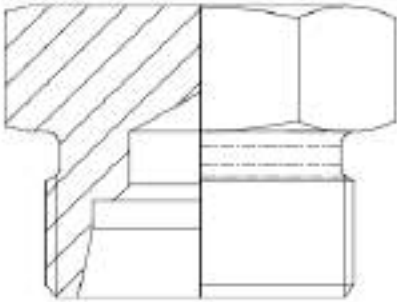
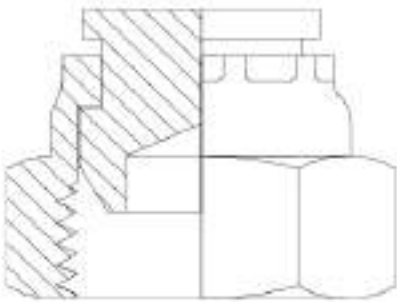


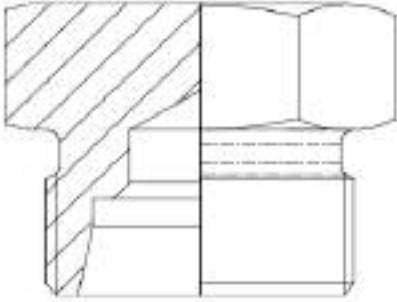
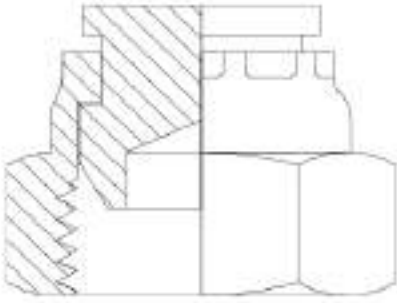
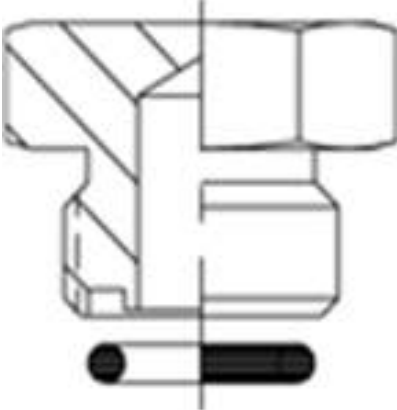


PLUGS & CAPS		
BSPP MALE		
	PART NUMBER	DESCRIPTION
	BPM-02	1/8 BSPP Plug
	BPM-04	1/4 BSPP Plug
	BPM-06	3/8 BSPP Plug
	BPM-08	1/2 BSPP Plug
	BPM-10	5/8 BSPP Plug
	BPM-12	3/4 BSPP Plug
	BPM-16	1-0 BSPP Plug
	BPM-20	1-1/4 BSPP Plug
	BPM-24	1-1/2 BSPP Plug
	BPM-32	2-0 BSPP Plug
PLUGS & CAPS		
BSPP MALE C/S		
	PART NUMBER	DESCRIPTION
	BPM-CS-02	1/8 BSPP Plug C/S Hex
	BPM-CS-04	1/4 BSPP Plug C/S Hex
	BPM-CS-06	3/8 BSPP Plug C/S Hex
	BPM-CS-08	1/2 BSPP Plug C/S Hex
	BPM-CS-12	3/4 BSPP Plug C/S Hex
	BPM-CS-16	1-0 BSPP Plug C/S Hex
	BPM-CS-20	1-1/4 BSPP Plug C/S Hex
	BPM-CS-24	1-1/2 BSPP Plug C/S Hex
PLUGS & CAPS		
BSPT MALE		
	PART NUMBER	DESCRIPTION
	BTM-02	1/8 BSPTM Plug
	BTM-04	1/4 BSPTM Plug
	BTM-06	3/8 BSPTM Plug
	BTM-08	1/2 BSPTM Plug
	BTM-10	5/8 BSPTM Plug
	BTM-12	3/4 BSPTM Plug
	BTM-16	1-0 BSPTM Plug
	BTM-20	1-1/4 BSPTM Plug
	BTM-24	1-1/2 BSPTM Plug
	BTM-32	2-0 BSPTM Plug
PLUGS & CAPS		
BSPT MALE C/S		
	PART NUMBER	DESCRIPTION
	BTM-CS-02	1/8 BSPTM Plug C/S Hex
	BTM-CS-04	1/4 BSPTM Plug C/S Hex
	BTM-CS-06	3/8 BSPTM Plug C/S Hex
	BTM-CS-08	1/2 BSPTM Plug C/S Hex
	BTM-CS-12	3/4 BSPTM Plug C/S Hex
	BTM-CS-16	1-0 BSPTM Plug C/S Hex
	BTM-CS-20	1-1/4 BSPT Plug C/S Hex
	BTM-CS-24	1-1/2 BSPT Plug C/S Hex

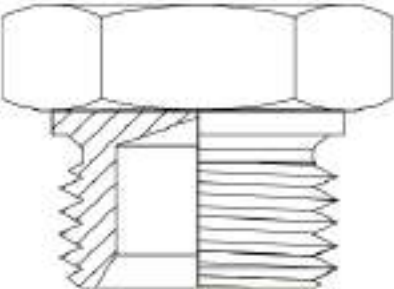
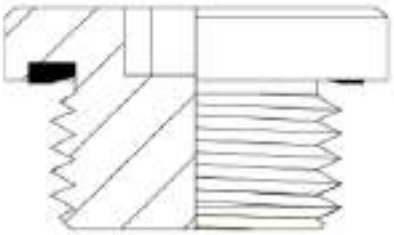
PLUGS & CAPS		
BSPP FEMALE SWIVEL		
	PART NUMBER	DESCRIPTION
	BSF-02	1/8 BSPFS Cap
	BSF-04	1/4 BSPFS Cap
	BSF-06	3/8 BSPFS Cap
	BSF-08	1/2 BSPFS Cap
	BSF-10	5/8 BSPFS Cap
	BSF-12	3/4 BSPFS Cap
	BSF-16	1-0 BSPFS Cap
	BSF-20	1-1/4 BSPFS Cap
	BSF-24	1-1/2 BSPFS Cap
	BSF-32	2-0 BSPFS Cap
PLUGS & CAPS		
JIC MALE		
	PART NUMBER	DESCRIPTION
	JIM-06	3/8 JIC Male Plug
	JIM-07	7/16 JIC Male Plug
	JIM-08	1/2 JIC Male Plug
	JIM-09	9/16 JIC Male Plug
	JIM-12	3/4 JIC Male Plug
	JIM-14	7/8 JIC Male Plug
	JIM-17	1-1/16 JIC Male Plug
	JIM-19	1-3/16 JIC Male Plug
	JIM-21	1-5/16 JIC Male Plug
	JIM-26	1-5/8 JIC Male Plug
	JIM-30	1-7/8 JIC Male Plug
	JIM-40	2-1/2 JIC Male Plug
PLUGS & CAPS		
JIC FEMALE		
	PART NUMBER	DESCRIPTION
	JIF-06	3/8 JIC Female Cap
	JIF-07	7/16 JIC Female Cap
	JIF-08	1/2 JIC Female Cap
	JIF-09	9/16 JIC Female Cap
	JIF-12	3/4 JIC Female Cap
	JIF-14	7/8 JIC Female Cap
	JIF-17	1-1/16 JIC Female Cap
	JIF-19	1-3/16 JIC Female Cap
	JIF-21	1-5/16 JIC Female Cap
	JIF-26	1-5/8 JIC Female Cap
	JIF-30	1-7/8 JIC Female Cap
	JIF-40	2-1/2 JIC Female Cap

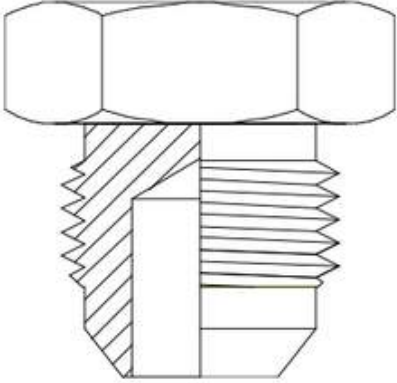
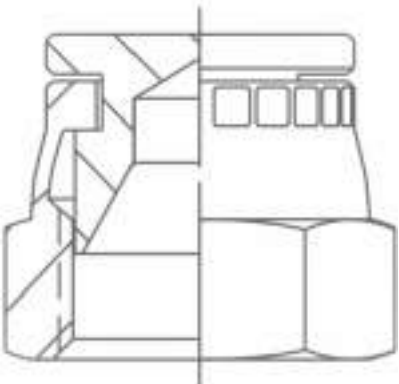
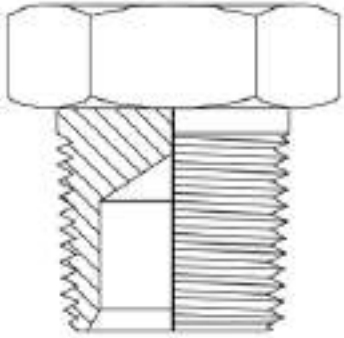


PLUGS & CAPS		
JIS MALE		
	PART NUMBER	DESCRIPTION
	BJM-02	1/8 JIS Male Plug
	BJM-04	1/4 JIS Male Plug
	BJM-06	3/8 JIS Male Plug
	BJM-08	1/2 JIS Male Plug
	BJM-12	3/4 JIS Male Plug
	BJM-16	1-0 JIS Male Plug
PLUGS & CAPS		
JIS FEMALE		
	PART NUMBER	DESCRIPTION
	BJF-04	1/4 JIS Female Cap
	BJF-06	3/8 JIS Female Cap
	BJF-08	1/2 JIS Female Cap
	BJF-12	3/4 JIS Female Cap
	BJF-16	1-0 JIS Female Cap
	BJF-20	1-1/4 JIS Female Cap
PLUGS & CAPS		
METRIC LIGHT MALE		
	PART NUMBER	DESCRIPTION
	MLLM-10	10x1.0 6LL MetLghtLghtMalePlug
	MLM-12	12x1.5 6L Met Light Male Plug
	MLM-14	14x1.5 8L Met Light Male Plug1
	MLM-16	16x1.5 10L Met Light Male Plug
	MLM-18	18x1.5 12L Met Light Male Plug
	MLM-22	22x1.5 15L Met Light Male Plug
	MLM-26	26x1.5 18L Met Light Male Plug
	MLM-30	30x2.0 22L Met Light Male Plug
	MLM-36	36x2.0 28L Met Light Male Plug
	MLM-45	45x2.0 35L Met Light Male Plug
	MLM-52	52x2.0 42L Met Light Male Plug
PLUGS & CAPS		
METRIC LIGHT FEMALE SWIVEL		
	PART NUMBER	DESCRIPTION
	MLLF-10	10x1.0 6L MetLghtLght Cap
	MLF-12	12x1.5 6L MetLight Cap
	MLF-14	14x1.5 8L MetLight Cap
	MLF-16	16x1.5 10L MetLight Cap
	MLF-18	18x1.5 12L MetLight Cap
	MLF-22	22x1.5 15L MetLight Cap
	MLF-26	26x1.5 18L MetLight Cap
	MLF-30	30x2.0 22L MetLight Cap
	MLF-36	36x2.0 28L MetLight Cap
	MLF-45	45x2.0 35L MetLight Cap
	MLF-52	52x2.0 42L MetLight Cap

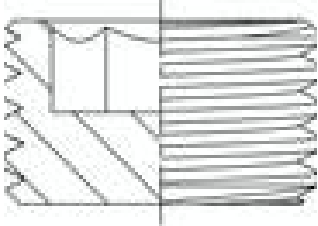
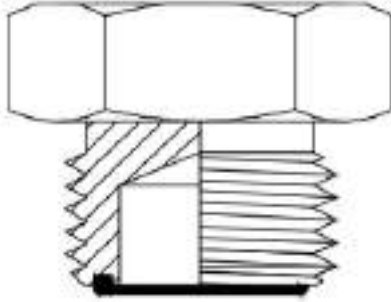
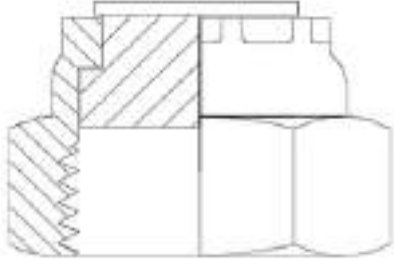
PLUGS & CAPS		
METRIC HEAVY MALE		
	PART NUMBER	DESCRIPTION
	MHM-14	14x1.5 6S Met Heavy Male Plug
	MHM-16	16x1.5 8S Met Heavy Male Plug
	MHM-18	18x1.5 10S Met Heavy Male Plug
	MHM-20	20x1.5 12S Met Heavy Male Plug
	MHM-22	22x1.5 14S Met Heavy Male Plug
	MHM-24	24x1.5 16S Met Heavy Male Plug
	MHM-30	30x2.0 20S Met Heavy Male Plug
	MHM-36	36x2.0 25S Met Heavy Male Plug
	MHM-42	42x2.0 30S Met Heavy Male Plug
	MHM-52	52x2.0 38S Met Heavy Male Plug
PLUGS & CAPS		
METRIC HEAVY FEMALE SWIVEL		
	PART NUMBER	DESCRIPTION
	MHF-14	14x1.5 6S MetHeavy Cap Insert
	MHF-16	16x1.5 8S MetHeavy Cap Insert
	MHF-18	18x1.5 10S MetHeavy Cap Insert
	MHF-20	20x1.5 12S MetHeavy Cap Insert
	MHF-22	22x1.5 14S MetHeavy Cap Insert
	MHF-24	24x1.5 16S MetHeavy Cap Insert
	MHF-30	30x2.0 20S MetHeavy Cap Insert
	MHF-36	36x2.0 25S MetHeavy Cap Insert
	MHF-42	42x2.0 30S MetHeavy Cap Insert
	MHF-52	52x2.0 38S MetHeavy Cap Insert
PLUGS & CAPS		
CHINESE METRIC MALE		
	PART NUMBER	DESCRIPTION
	MCM-14	14mm Chinese Flat Face PLUG
	MCM-16	16mm Chinese Flat Face PLUG
	MCM-18	18mm Chinese Flat Face PLUG
	MCM-22	22mm Chinese Flat Face PLUG
	MCM-27	27mm Chinese Flat Face PLUG
	MCM-30	30mm Chinese Flat Face PLUG
	MCM-36	36mm Chinese Flat Face PLUG
PLUGS & CAPS		
CHINESE METRIC FEMALE		
	PART NUMBER	DESCRIPTION
	MCM-14	14mm Chinese Flat Face PLUG
	MCM-16	16mm Chinese Flat Face PLUG
	MCM-18	18mm Chinese Flat Face PLUG
	MCM-22	22mm Chinese Flat Face PLUG
	MCM-27	27mm Chinese Flat Face PLUG
	MCM-30	30mm Chinese Flat Face PLUG
	MCM-36	36mm Chinese Flat Face PLUG

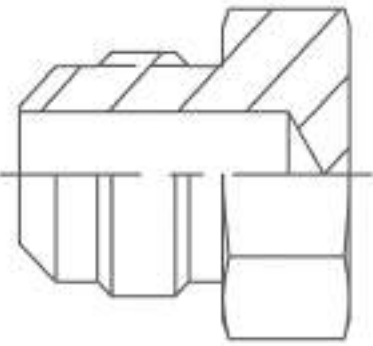
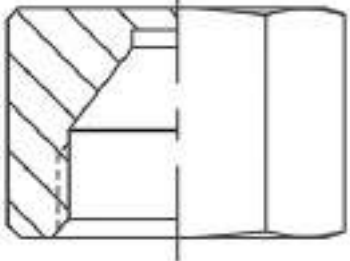
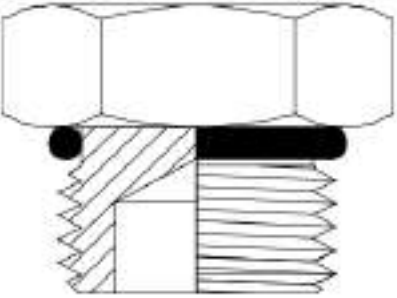


PLUGS & CAPS		
METRIC PORT MALE		
	PART NUMBER	DESCRIPTION
	MSM-10	10x1.0 Metric Stud Male
	MSM-10 x 1.5	10x1.5 Metric Stud Male
	MSM-12	12x1.5 Metric Stud Male
	MSM-12 x 1.25	12x1.25 Metric Stud Male
	MSM-14	14x1.5 Metric Stud Male
	MSM-16	16x1.5 Metric Stud Male
	MSM-18	18x1.5 Metric Stud Male
	MSM-20	20x1.5 Metric Stud Male
	MSM-22	22x1.5 Metric Stud Male
	MSM-24	24x1.5 Metric Stud Male
	MSM-26	26x1.5 Metric Stud Male
	MSM-27	27x2.0 Metric Stud Male
	MSM-27 x 1.5	27x1.5 Metric Stud Male
	MSM-28	28x1.5 Metric Stud Male
	MSM-30	30x2.0 Metric Stud Male
	MSM-30 x 1.5	30x1.5 Metric Stud Male
	MSM-33	33x2.0 Metric Stud Male
	MSM-33 x 1.5	33x1.5 Metric Stud Male
	MSM-38	38x2.0 Metric Stud Male
	MSM-38 x 1.5	38x1.5 Metric Stud Male
	MSM-42	42x2.0 Metric Stud Male
PLUGS & CAPS		
METRIC PORT MALE C/S		
	PART NUMBER	DESCRIPTION
	MSM-CS-10	10x1.0 Met Stud Male C/S Hex
	MSM-CS-12	12x1.5 Met Stud Male C/S Hex
	MSM-CS-14	14x1.5 Met Stud Male C/S Hex
	MSM-CS-16	16x1.5 Met Stud Male C/S Hex
	MSM-CS-18	18x1.5 Met Stud Male C/S Hex
	MSM-CS-20	20x1.5 Met Stud Male C/S Hex
	MSM-CS-22	22x1.5 Met Stud Male C/S Hex
	MSM-CS-24	24x1.5 Met Stud Male C/S Hex
	MSM-CS-26	26x1.5 Met Stud Male C/S Hex
	MSM-CS-27	27x2.0 Met Stud Male C/S Hex
	MSM-CS-30x1.5	30x1.5 Met Stud Male C/S Hex
	MSM-CS-33	33x2.0 Met Stud Male C/S Hex
	MSM-CS-42	42x2.0 Met Stud Male C/S Hex
	MSM-CS-48	48x2.0 Met Stud Male C/S Hex

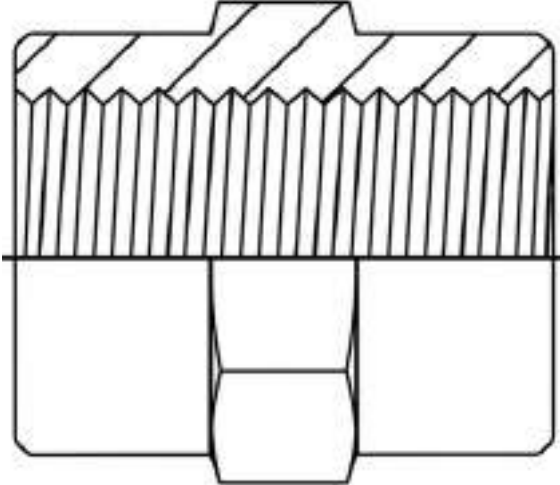
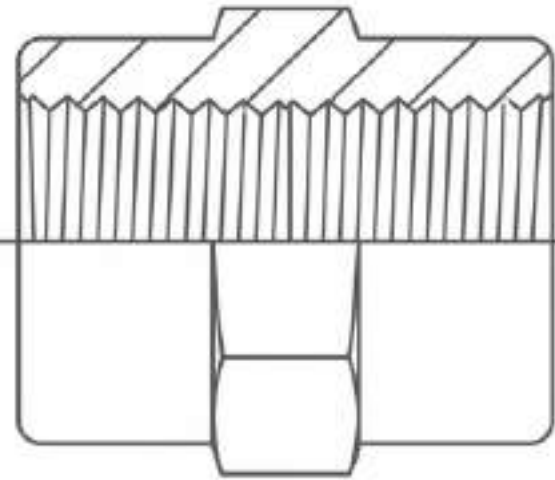
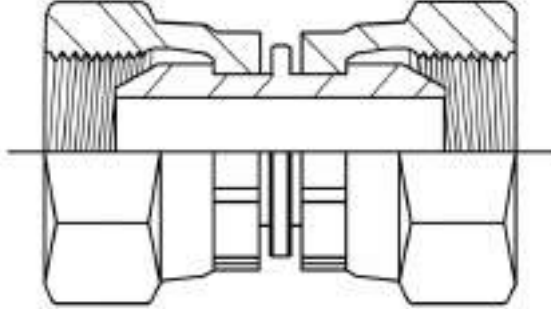
PLUGS & CAPS		
METRIC KOMATSU MALE		
	PART NUMBER	DESCRIPTION
	MKM-12	12x1.5mm Komatsu Plug
	MKM-14	14x1.5mm Komatsu Plug
	MKM-16	16x1.5mm Komatsu Plug
	MKM-18	18x1.5mm Komatsu Plug
	MKM-20	20x1.5mm Komatsu Plug
	MKM-22	22x1.5mm Komatsu Plug
	MKM-24	24x1.5mm Komatsu Plug
	MKM-26	26x1.5mm Komatsu Plug
	MKM-30	30x1.5mm Komatsu Plug
	MKM-33	33x1.5mm Komatsu Plug
	MKM-36	36x1.5mm Komatsu Plug
PLUGS & CAPS		
METRIC KOMATSU FEMALE SWIVEL		
	PART NUMBER	DESCRIPTION
	MKF-12	12x1.5mm Komatsu Cap
	MKF-14	14x1.5mm Komatsu Cap
	MKF-16	16x1.5mm Komatsu Cap
	MKF-18	18x1.5mm Komatsu Cap
	MKF-20	20x1.5mm Komatsu Cap
	MKF-22	22x1.5mm Komatsu Cap
	MKF-24	24x1.5mm Komatsu Cap
	MKF-26	26x1.5mm Komatsu Cap
	MKF-30	30x1.5mm Komatsu Cap
	MKF-33	33x1.5mm Komatsu Cap
	MKF-36	36x1.5mm Komatsu Cap
PLUGS & CAPS		
NPT MALE		
	PART NUMBER	DESCRIPTION
	NTM-04	1/4 NPT Male Plug
	NTM-06	3/8 NPT Male Plug
	NTM-08	1/2 NPT Male Plug
	NTM-12	3/4 NPT Male Plug
	NTM-16	1-0 NPT Male Plug
	NTM-20	1-1/4 NPT Male Plug
	NTM-24	1-1/2 NPT Male Plug
	NTM-32	2-0 NPT Male Plug

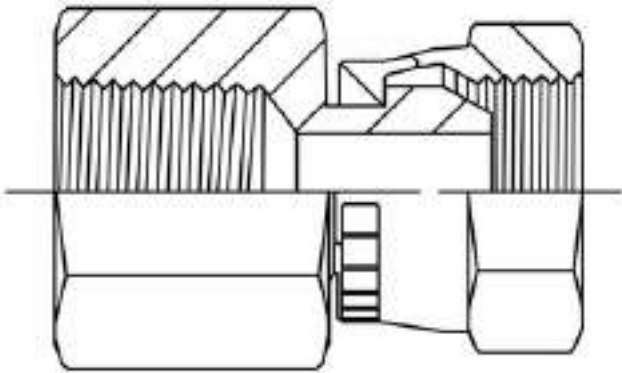
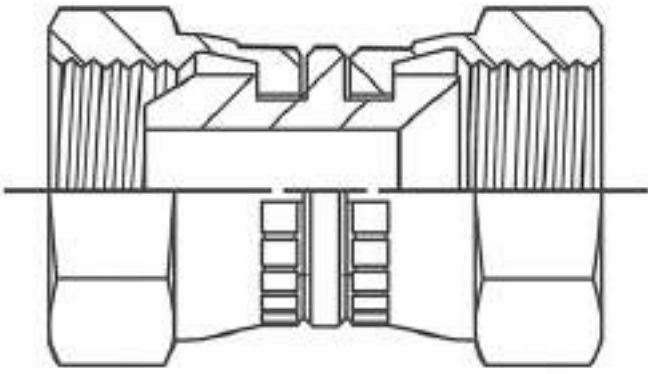
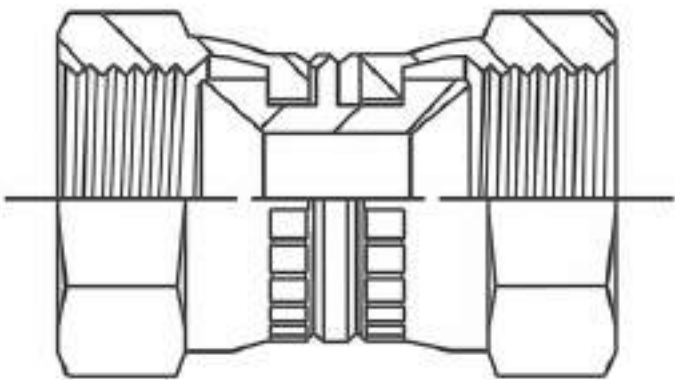


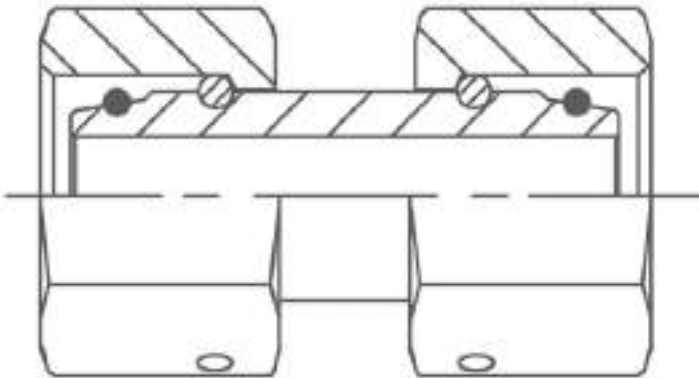
PLUGS & CAPS		
NPT MALE C/S		
	PART NUMBER	DESCRIPTION
	NTM-CS-01	1/16 NPTM C/Sunk Plug
	NTM-CS-02	1/8 NPTM C/Sunk Plug
	NTM-CS-04	1/4 NPTM C/Sunk Plug
	NTM-CS-06	3/8 NPTM C/Sunk Plug
	NTM-CS-08	1/2 NPTM C/Sunk Plug
	NTM-CS-12	3/4 NPTM C/Sunk Plug
	NTM-CS-16	1-0 NPTM C/Sunk Plug
	NTM-CS-20	1-1/4 NPTM C/Sunk Plug
	NTM-CS-24	1-1/2 NPTM C/Sunk Plug
PLUGS & CAPS		
ORFS MALE		
	PART NUMBER	DESCRIPTION
	ORM-09	9/16 ORFS Plug
	ORM-11	11/16 ORFS Plug
	ORM-13	13/16 ORFS Plug
	ORM-16	1-0 ORFS Plug
	ORM-19	1-3/16 ORFS Plug
	ORM-23	1-7/16 ORFS Plug
	ORM-27	1-11/16 ORFS Plug
	ORM-32	2-0 ORFS Plug
PLUGS & CAPS		
ORFS FEMALE SWIVEL		
	PART NUMBER	DESCRIPTION
	ORF-09	9/16 ORFS Cap
	ORF-11	11/16 ORFS Cap
	ORF-13	13/16 ORFS Cap
	ORF-16	1-0 ORFS Cap
	ORF-19	1-3/16 ORFS Cap
	ORF-23	1-7/16 ORFS Cap
	ORF-27	1-11/16 ORFS Cap
	ORF-32	2-0 ORFS Cap

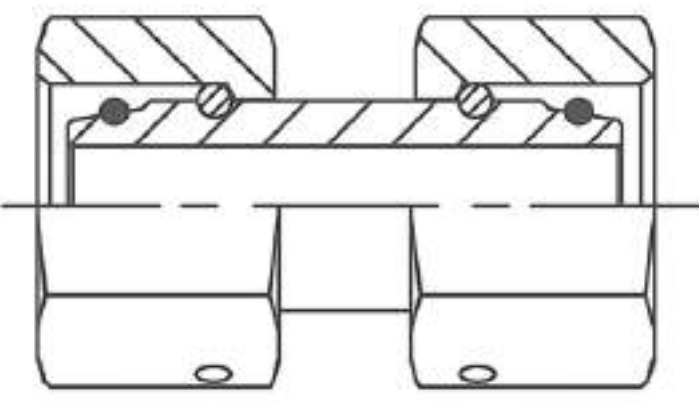
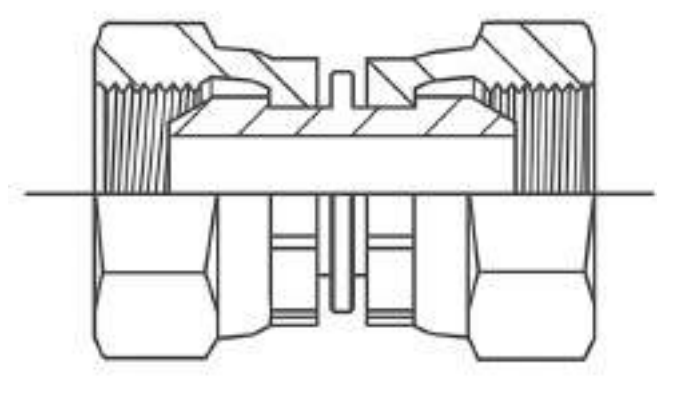
PLUGS & CAPS		
SAE MALE		
	PART NUMBER	DESCRIPTION
	SAM-07	7/16 SAEM Plug
	SAM-10	5/8 SAEM Plug
	SAM-12	3/4 SAEM Plug
	SAM-17	1-1/16 SAEM Plug
PLUGS & CAPS		
SAE FEMALE		
	PART NUMBER	DESCRIPTION
	SAF-07	7/16 SAE Female
	SAF-10	5/8 SAE Female
	SAF-12	3/4 SAE Female
	SAF-17	1-1/16 SAE Female
PLUGS & CAPS		
UNO MALE		
	PART NUMBER	DESCRIPTION
	UNM-05	5/16 UNO M Plug
	UNM-06	3/8 UNO M Plug
	UNM-07	7/16 UNO M Plug
	UNM-08	1/2 UNO M Plug
	UNM-09	9/16 UNO M Plug
	UNM-12	3/4 UNO M Plug
	UNM-14	7/8 UNO M Plug
	UNM-17	1-1/16 UNO M Plug
	UNM-19	1-3/16 UNO M Plug
	UNM-21	1-5/16 UNO M Plug
	UNM-26	1-5/8 UNO M Plug
	UNM-30	1-7/8 UNO M Plug
	UNM-40	2-1/2 UNO M Plug
PLUGS & CAPS		
UNO MALE C/S		
	PART NUMBER	DESCRIPTION
	UNM-CS-05	5/16 UNO M Plug C/S Hex
	UNM-CS-06	3/8 UNO M Plug C/S Hex
	UNM-CS-07	7/16 UNO M Plug C/S Hex
	UNM-CS-08	1/2 UNO M Plug C/S Hex
	UNM-CS-09	9/16 UNO M Plug C/S Hex
	UNM-CS-12	3/4 UNO M Plug C/S Hex
	UNM-CS-14	7/8 UNO M Plug C/S Hex
	UNM-CS-17	1-1/16 UNO M Plug Hex
	UNM-CS-19	1-3/16 UNO M Plug Hex
	UNM-CS-21	1-5/16 UNO M Plug C/S Hex
	UNM-CS-26	1-5/8 UNO M Plug C/S Hex
	UNM-CS-30	1-7/8 UNO M Plug C/S Hex
	UNM-CS-40	2-1/2 UNO M Plug C/S Hex

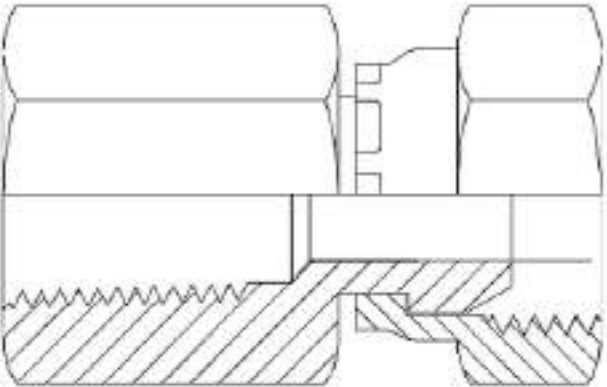
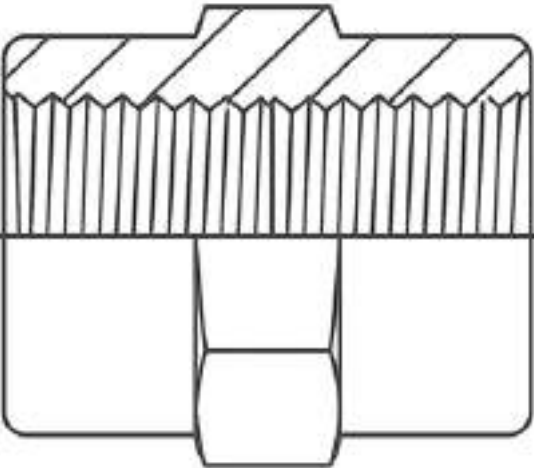


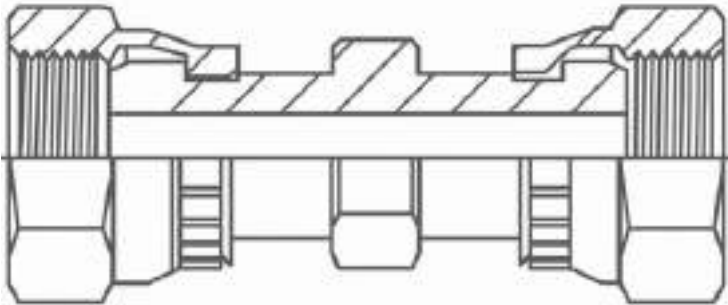
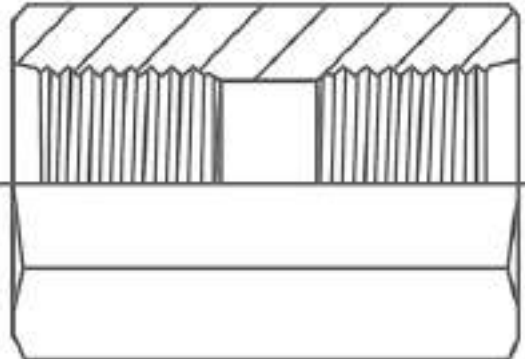
F x F ADAPTORS		
BSPP SOCKET		
	PART NUMBER	DESCRIPTION
	BPF-BPF-0202	1/8 BSPPF x 1/8 BSPPF
	BPF-BPF-0204	1/8 BSPPF x 1/4 BSPPF
	BPF-BPF-0206	1/8 BSPPF x 3/8 BSPPF
	BPF-BPF-0404	1/4 BSPPF x 1/4 BSPPF
	BPF-BPF-0406	1/4 BSPPF x 3/8 BSPPF
	BPF-BPF-0408	1/4 BSPPF x 1/2 BSPPF
	BPF-BPF-0412	1/4 BSPPF x 3/4 BSPPF
	BPF-BPF-0606	3/8 BSPPF x 3/8 BSPPF
	BPF-BPF-0808	1/2 BSPPF x 1/2 BSPPF
	BPF-BPF-1010	5/8 BSPPF x 5/8 BSPPF
	BPF-BPF-1212	3/4 BSPPF x 3/4 BSPPF
	BPF-BPF-1616	1-0 BSPPF x 1-0 BSPPF
	BPF-BPF-2020	1-1/4 BSPPF x 1-1/4 BSPPF
	BPF-BPF-2424	1-1/2 BSPPF x 1-1/2 BSPPF
	BPF-BPF-3232	2-0 BSPPF x 2-0 BSPPF
F x F ADAPTORS		
BSPT SOCKET		
	PART NUMBER	DESCRIPTION
	BTF-BTF-0202	1/8 BSPTF Socket
	BTF-BTF-0204	1/8 BSPTF 1/4 Step Socket
	BTF-BTF-0206	1/8 BSPTF 3/8 Step Socket
	BTF-BTF-0404	1/4 BSPTF Socket
	BTF-BTF-0406	1/4 BSPTF 3/8 Step Socket
	BTF-BTF-0408	1/4 BSPTF 1/2 Step Socket
	BTF-BTF-0606	3/8 BSPTF Socket
	BTF-BTF-0608	3/8 BSPTF 1/2 Step Socket
	BTF-BTF-0808	1/2 BSPTF Socket
	BTF-BTF-0812	1/2 BSPTF 3/4 Step Socket
	BTF-BTF-1212	3/4 BSPTF Socket
	BTF-BTF-1216	3/4 BSPTF 1-0 Step Socket
	BTF-BTF-1616	1-0 BSPTF Socket
	BTF-BTF-1620	1-0 BSPTF 1-1/4 Step Socket
	BTF-BTF-2020	1-1/4 BSPTF Socket
	BTF-BTF-2424	1-1/2 BSPTF Socket
	BTF-BTF-3232	2-0 BSPTF Socket
F x F ADAPTORS		
BSPP SWIVEL X BSPP SWIVEL		
	PART NUMBER	DESCRIPTION
	BSF-BSF-0404	1/4 BSPFS x 1/4 BSPFS
	BSF-BSF-0606	3/8 BSPFS x 3/8 BSPFS
	BSF-BSF-0808	1/2 BSPFS x 1/2 BSPFS
	BSF-BSF-1212	3/4 BSPFS x 3/4 BSPFS
	BSF-BSF-1616	1-0 BSPFS x 1-0 BSPFS

F x F ADAPTORS		
BSPT x BSPP SWIVEL		
	PART NUMBER	DESCRIPTION
	BTF-BSF-0404	1/4 BSPTF x 1/4 BSPFS
	BTF-BSF-0606	3/8 BSPTF x 3/8 BSPFS
	BTF-BSF-0808	1/2 BSPTF x 1/2 BSPFS
	BTF-BSF-1212	3/4 BSPTF x 3/4 BSPFS
	BTF-BSF-1616	1-0 BSPTF x 1-0 BSPFS
	BTF-BSF-2020	1-1/4 BSPTF x 1-1/4 BSPFS
F x F ADAPTORS		
BSPP SWIVEL x JIC SWIVEL		
	PART NUMBER	DESCRIPTION
	BSF-JIF-0407	1/4 BSPFS x 7/16 JICFS
	BSF-JIF-0609	3/8 BSPFS x 9/16 JICFS
	BSF-JIF-0812	1/2 BSPFS x 3/4 JICFS
	BSF-JIF-1217	3/4 BSPFS x 1-1/16 JICFS
	BSF-JIF-1621	1-0 BSPFS x 1-5/16 JICFS
F x F ADAPTORS		
JIC SWIVEL x JIC SWIVEL		
	PART NUMBER	DESCRIPTION
	JIF-JIF-0707	7/16 JICFS Joiner
	JIF-JIF-0909	9/16 JICFS Joiner
	JIF-JIF-1212	3/4 JICFS Joiner
	JIF-JIF-1414	7/8 JICFS Joiner
	JIF-JIF-1717	1-1/16 JICFS Joiner
	JIF-JIF-2121	1-5/16 JICFS Joiner
	JIF-JIF-2626	1-5/8 JICFS Joiner
	JIF-JIF-3030	1-7/8 JICFS Joiner

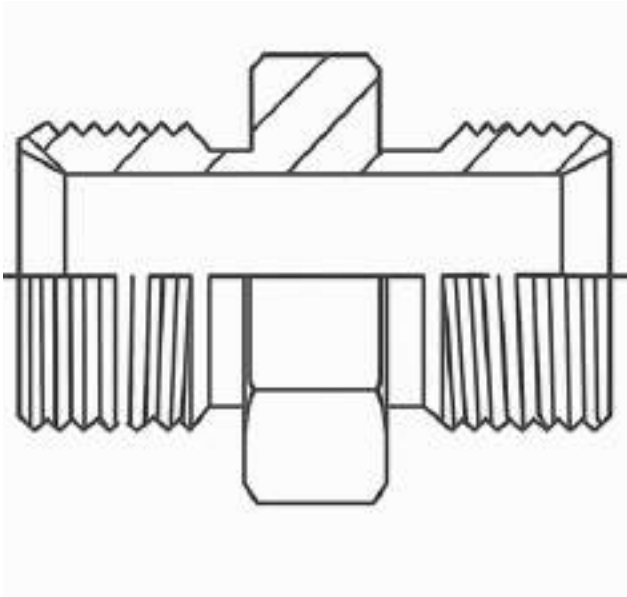
F x F ADAPTORS		
METRIC HEAVY x METRIC HEAVY		
	PART NUMBER	DESCRIPTION
	MHF-MHF-1414	14x1.5 MHF x 14x1.5 MHF
	MHF-MHF-1416	14x1.5 MHF x 16x1.5 MHF
	MHF-MHF-1418	14x1.5 MHF x 18x1.5 MHF
	MHF-MHF-1420	14x1.5 MHF x 20x1.5 MHF
	MHF-MHF-1616	16x1.5 MHF x 16x1.5 MHF
	MHF-MHF-1618	16x1.5 MHF x 18x1.5 MHF
	MHF-MHF-1620	16x1.5 MHF x 20x1.5 MHF
	MHF-MHF-1818	18x1.5 MHF x 18x1.5 MHF
	MHF-MHF-1820	18x1.5 MHF x 20x1.5 MHF
	MHF-MHF-1824	18x1.5 MHF x 24x1.5 MHF
	MHF-MHF-2020	20x1.5 MHF x 20x1.5 MHF
	MHF-MHF-2024	20x1.5 MHF x 24x1.5 MHF
	MHF-MHF-2030	20x1.5 MHF x 30x2.0 MHF
	MHF-MHF-2222	22x1.5 MHF x 22x1.5 MHF
	MHF-MHF-2424	24x1.5 MHF x 24x1.5 MHF
	MHF-MHF-2430	24x1.5 MHF x 30x2.0 MHF
	MHF-MHF-2436	24x1.5 MHF x 36x2.0 MHF
	MHF-MHF-2442	24x1.5 MHF x 42x2.0 MHF
	MHF-MHF-3030	30x2.0 MHF x 30x2.0 MHF
	MHF-MHF-3036	30x2.0 MHF x 36x2.0 MHF
	MHF-MHF-3042	30x2.0 MHF x 42x2.0 MHF
	MHF-MHF-3052	30x2.0 MHF x 52x2.0 MHF
	MHF-MHF-3636	36x2.0 MHF x 36x2.0 MHF
	MHF-MHF-3642	36x2.0 MHF x 42x2.0 MHF
	MHF-MHF-3652	36x2.0 MHF x 52x2.0 MHF
	MHF-MHF-4242	42x2.0 MHF x 42x2.0 MHF
	MHF-MHF-4252	42x2.0 MHF x 52x2.0 MHF
	MHF-MHF-5252	52x2.0 MHF x 52x2.0 MHF

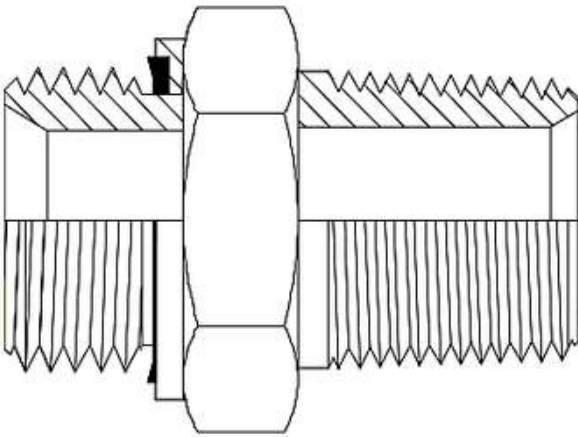
F x F ADAPTORS		
METRIC LIGHT x METRIC LIGHT		
	PART NUMBER	DESCRIPTION
	MLF-MLF-1212	12x1.5 MLF x 12x1.5 MLF
	MLF-MLF-1214	12x1.5 MLF x 14x1.5 MLF
	MLF-MLF-1216	12x1.5 MLF x 16x1.5 MLF
	MLF-MLF-1218	12x1.5 MLF x 18x1.5 MLF
	MLF-MLF-1414	14x1.5 MLF x 14x1.5 MLF
	MLF-MLF-1416	14x1.5 MLF x 16x1.5 MLF
	MLF-MLF-1418	14x1.5 MLF x 18x1.5 MLF
	MLF-MLF-1422	14x1.5 MLF x 22x1.5 MLF
	MLF-MLF-1616	16x1.5 MLF x 16x1.5 MLF
	MLF-MLF-1618	16x1.5 MLF x 18x1.5 MLF
	MLF-MLF-1622	16x1.5 MLF x 22x1.5 MLF
	MLF-MLF-1626	16x1.5 MLF x 26x1.5 MLF
	MLF-MLF-1818	18x1.5 MLF x 18x1.5 MLF
	MLF-MLF-1822	18x1.5 MLF x 22x1.5 MLF
	MLF-MLF-1826	18x1.5 MLF x 26x1.5 MLF
	MLF-MLF-1830	18x1.5 MLF x 30x2.0 MLF
	MLF-MLF-2222	22x1.5 MLF x 22x1.5 MLF
	MLF-MLF-2226	22x1.5 MLF x 26x1.5 MLF
	MLF-MLF-2230	22x1.5 MLF x 30x2.0 MLF
	MLF-MLF-2236	22x1.5 MLF x 36x2.0 MLF
	MLF-MLF-2626	26x1.5 MLF x 26x1.5 MLF
	MLF-MLF-2630	26x1.5 MLF x 30x2.0 MLF
	MLF-MLF-2636	26x1.5 MLF x 36x2.0 MLF
	MLF-MLF-2645	26x1.5 MLF x 45x2.0 MLF
	MLF-MLF-3030	30x2.0 MLF x 30x2.0 MLF
	MLF-MLF-3036	30x2.0 MLF x 36x2.0 MLF
	MLF-MLF-3045	30x2.0 MLF x 45x2.0 MLF
	MLF-MLF-3052	30x2.0 MLF x 52x2.0 MLF
	MLF-MLF-3636	36x2.0 MLF x 36x2.0 MLF
	MLF-MLF-3645	36x2.0 MLF x 45x2.0 MLF
	MLF-MLF-3652	36x2.0 MLF x 52x2.0 MLF
	MLF-MLF-4545	45x2.0 MLF x 45x2.0 MLF
	MLF-MLF-4552	45x2.0 MLF x 52x2.0 MLF
	MLF-MLF-5252	52x2.0 MLF x 52x2.0 MLF
F x F ADAPTORS		
NPT SWIVEL x NPT SWIVEL		
	PART NUMBER	DESCRIPTION
	NSF-NSF-0404	1/4 NPTFS x 1/4 NPTFS
	NSF-NSF-0606	3/8 NPTFS x 3/8 NPTFS
	NSF-NSF-0808	1/2 NPTFS x 1/2 NPTFS
	NSF-NSF-1212	3/4 NPTFS x 3/4 NPTFS
	NSF-NSF-1616	1-0 NPTFS x 1-0 NPTFS

F x F ADAPTORS		
NPT x JIC SWIVEL		
	PART NUMBER	DESCRIPTION
	NTF-JIF-0207	1/8 NPTF x 7/16 JICFS
	NTF-JIF-0407	1/4 NPTF x 7/16 JICFS
	NTF-JIF-0409	1/4 NPTF x 9/16 JICFS
	NTF-JIF-0609	3/8 NPTF x 9/16 JICFS
	NTF-JIF-0612	3/8 NPTF x 3/4 JICFS
	NTF-JIF-0812	1/2 NPTF x 3/4 JICFS
	NTF-JIF-0814	1/2 NPTF x 7/8 JICFS
	NTF-JIF-1217	3/4 NPTF x 1-1/16 JICFS
	NTF-JIF-1621	1-0 NPTFF x 1-5/16 JICFS
	NTF-JIF-2026	1-1/4 NPTFF x 1-5/8 JICFS
F x F ADAPTORS		
NPT SOCKET		
	PART NUMBER	DESCRIPTION
	NTF-NTF-0202	1/8 NPTF x 1/8 NPTF
	NTF-NTF-0204	1/8 NPTF x 1/4 NPTF
	NTF-NTF-0206	1/8 NPTF x 3/8 NPTF
	NTF-NTF-0404	1/4 NPTF x 1/4 NPTF
	NTF-NTF-0406	1/4 NPTF x 3/8 NPTF
	NTF-NTF-0408	1/4 NPTF x 1/2 NPTF
	NTF-NTF-0606	3/8 NPTF x 3/8 NPTF
	NTF-NTF-0608	3/8 NPTF x 1/2 NPTF
	NTF-NTF-0808	1/2 NPTF x 1/2 NPTF
	NTF-NTF-0812	1/2 NPTF x 3/4 NPTF
	NTF-NTF-1212	3/4 NPTF x 3/4 NPTF
	NTF-NTF-1216	3/4 NPTF x 1-0 NPTF
	NTF-NTF-1616	1-0 NPTF x 1-0 NPTF
	NTF-NTF-1620	1-0 NPTF x 1-1/4 NPTF
	NTF-NTF-2020	1-1/4 NPTF x 1-1/4 NPTF
	NTF-NTF-2424	1-1/2 NPTF x 1-1/2 NPTF
	NTF-NTF-3232	2-0 NPTF x 2-0 NPTF

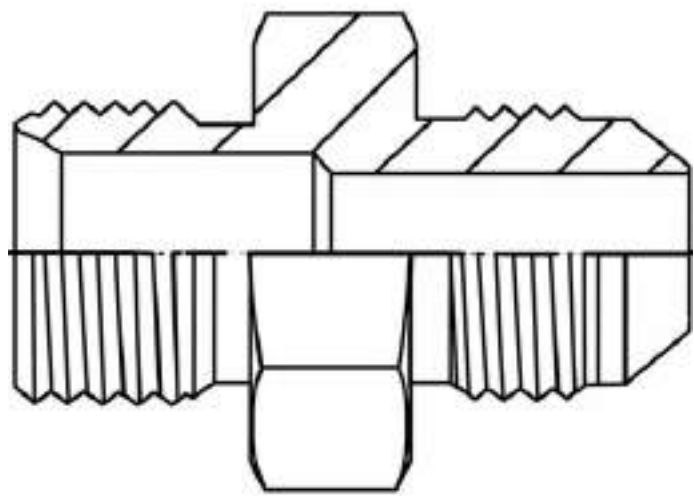
F x F ADAPTORS		
ORFS SWIVEL x ORFS SWIVEL		
	PART NUMBER	DESCRIPTION
	ORF-ORF-0909	9/16 ORFS - 9/16 ORFS
	ORF-ORF-1111	11/16 ORFS - 11/16 ORFS
	ORF-ORF-1313	13/16 ORFS - 13/16 ORFS
	ORF-ORF-1616	1-0 ORFS - 1-0 ORFS
	ORF-ORF-1919	1-3/16 ORFS - 1-3/16 ORFS
	ORF-ORF-2323	1-7/16 ORFSFS x 1-7/16 ORFSFS
	ORF-ORF-2727	1-11/16 ORFS - 1-11/16 ORFS
F x F ADAPTORS		
ORFS SWIVEL x ORFS SWIVEL		
	PART NUMBER	DESCRIPTION
	UNF-UNF-0707	7/16 UNO F x 7/16 UNO F
	UNF-UNF-0909	9/16 UNO F x 9/16 UNO F
	UNF-UNF-1212	3/4 UNO F x 3/4 UNO F
	UNF-UNF-1414	7/8 UNO F x 7/8 UNO F
	UNF-UNF-1717	1-1/16 UNO F x 1-1/16 UNO F
	UNF-UNF-2121	1-5/16 UNO F x 1-5/16 UNO F
	UNF-UNF-2626	1-5/8 UNO F x 1-5/8 UNO F

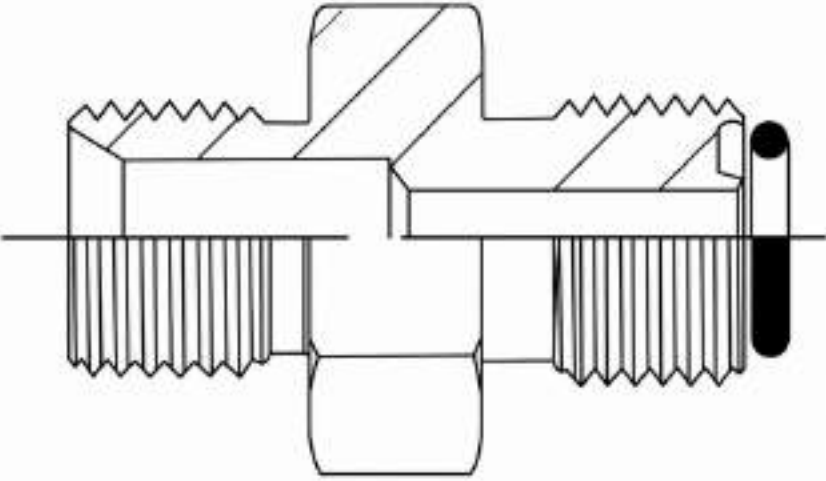
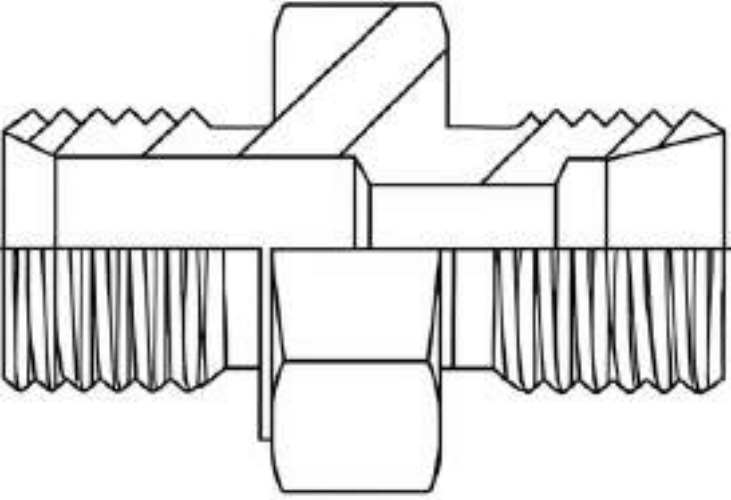


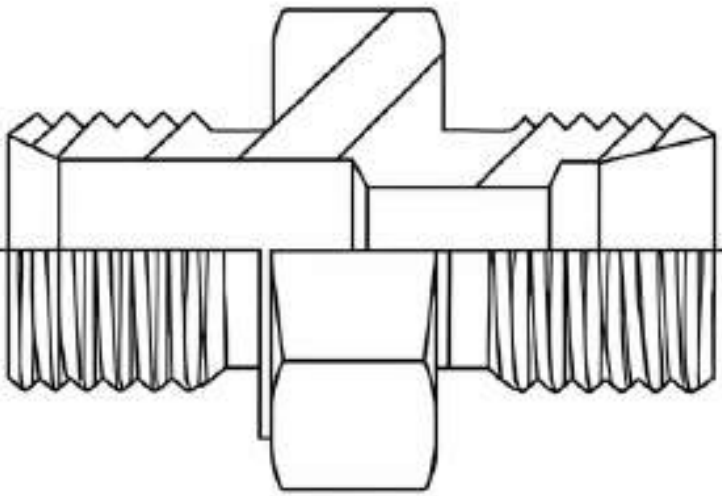
M x M ADAPTORS		
BSPP NIPPLE		
	PART NUMBER	DESCRIPTION
	BPM-BPM-0202	1/8 BSPPM x 1/8 BSPPM
	BPM-BPM-0204	1/8 BSPPM x 1/4 BSPPM
	BPM-BPM-0404	1/4 BSPPM x 1/4 BSPPM
	BPM-BPM-0406	1/4 BSPPM x 3/8 BSPPM
	BPM-BPM-0408	1/4 BSPPM x 1/2 BSPPM
	BPM-BPM-0412	1/4 BSPPM x 3/4 BSPPM
	BPM-BPM-0606	3/8 BSPPM x 3/8 BSPPM
	BPM-BPM-0608	3/8 BSPPM x 1/2 BSPPM
	BPM-BPM-0612	3/8 BSPPM x 3/4 BSPPM
	BPM-BPM-0808	1/2 BSPPM x 1/2 BSPPM
	BPM-BPM-0810	1/2 BSPPM x 5/8 BSPPM
	BPM-BPM-0812	1/2 BSPPM x 3/4 BSPPM
	BPM-BPM-0816	1/2 BSPPM x 1-0 BSPPM
	BPM-BPM-1010	5/8 BSPPM x 5/8 BSPPM
	BPM-BPM-1212	3/4 BSPPM x 3/4 BSPPM
	BPM-BPM-1216	3/4 BSPPM x 1-0 BSPPM
	BPM-BPM-1220	3/4 BSPPM x 1-1/4 BSPPM
	BPM-BPM-1616	1-0 BSPPM x 1-0 BSPPM
	BPM-BPM-1620	1-0 BSPPM x 1-1/4 BSPPM
	BPM-BPM-1624	1-0 BSPPM x 1-1/2 BSPPM
	BPM-BPM-1632	1-0 BSPPM x 2-0 BSPPM
	BPM-BPM-2020	1-1/4 BSPPM x 1-1/4 BSPPM
	BPM-BPM-2024	1-1/4 BSPPM x 1-1/2 BSPPM
	BPM-BPM-2424	1-1/2 BSPPM x 1-1/2 BSPPM
	BPM-BPM-2432	1-1/2 BSPPM x 2-0 BSPPM
	BPM-BPM-3232	2-0 BSPPM x 2-0 BSPPM

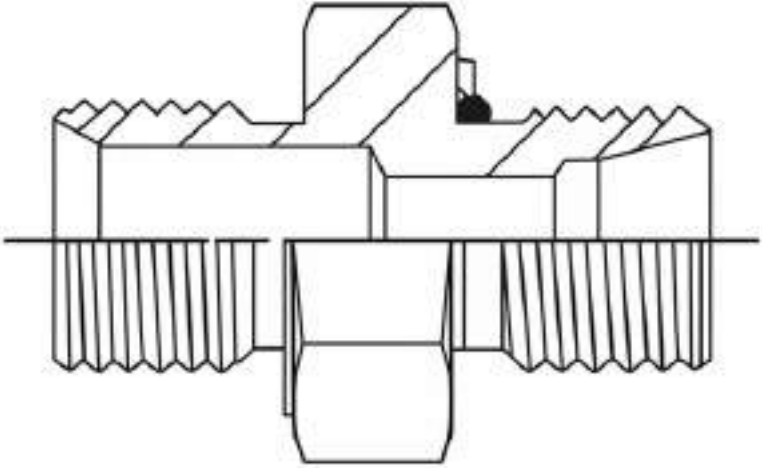
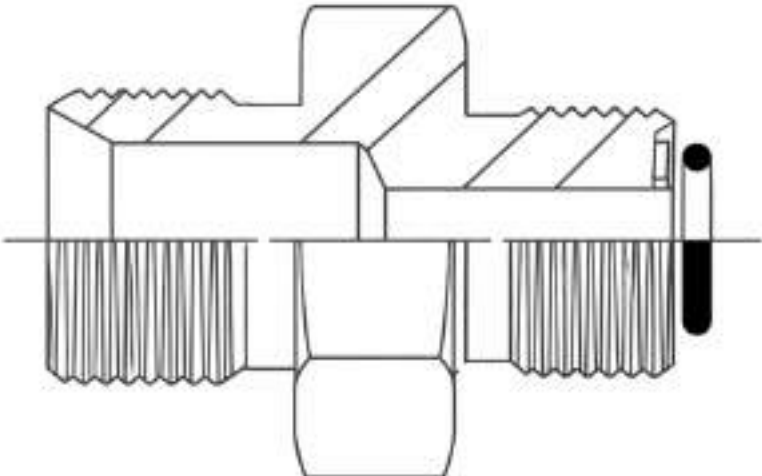
M x M ADAPTORS		
BSPP x BSPT NIPPLE		
	PART NUMBER	DESCRIPTION
	BPM-BTM-0202	1/8 BSPPM x 1/8 BSPTM
	BPM-BTM-0204	1/8 BSPPM x 1/4 BSPTM
	BPM-BTM-0402	1/4 BSPPM x 1/8 BSPTM
	BPM-BTM-0404	1/4 BSPPM x 1/4 BSPTM
	BPM-BTM-0406	1/4 BSPPM x 3/8 BSPTM
	BPM-BTM-0408	1/4 BSPPM x 1/2 BSPTM
	BPM-BTM-0604	3/8 BSPPM x 1/4 BSPTM
	BPM-BTM-0606	3/8 BSPPM x 3/8 BSPTM
	BPM-BTM-0608	3/8 BSPPM x 1/2 BSPTM
	BPM-BTM-0612	3/8 BSPPM x 3/4 BSPTM
	BPM-BTM-0804	1/2 BSPPM x 1/4 BSPTM
	BPM-BTM-0806	1/2 BSPPM x 3/8 BSPTM
	BPM-BTM-0808	1/2 BSPPM x 1/2 BSPTM
	BPM-BTM-0812	1/2 BSPPM x 3/4 BSPTM
	BPM-BTM-0816	1/2 BSPPM x 1-0 BSPTM
	BPM-BTM-1010	5/8 BSPPM x 5/8 BSPTM
	BPM-BTM-1206	3/4 BSPPM x 3/8 BSPTM
	BPM-BTM-1208	3/4 BSPPM x 1/2 BSPTM
	BPM-BTM-1212	3/4 BSPPM x 3/4 BSPTM
	BPM-BTM-1216	3/4 BSPPM x 1-0 BSPTM
	BPM-BTM-1220	3/4 BSPPM x 1-1/4 BSPTM
	BPM-BTM-1608	1-0 BSPPM x 1/2 BSPTM
	BPM-BTM-1612	1-0 BSPPM x 3/4 BSPTM
	BPM-BTM-1616	1-0 BSPPM x 1-0 BSPTM
	BPM-BTM-1620	1-0 BSPPM x 1-1/4 BSPTM
	BPM-BTM-1624	1-0 BSPPM x 1-1/2 BSPTM
	BPM-BTM-2012	1-1/4 BSPPM x 3/4 BSPTM
	BPM-BTM-2016	1-1/4 BSPPM x 1-0 BSPTM
	BPM-BTM-2020	1-1/4 BSPPM x 1-1/4 BSPTM
	BPM-BTM-2024	1-1/4 BSPPM x 1-1/2 BSPTM
	BPM-BTM-2032	1-1/4 BSPPM x 2-0 BSPTM
	BPM-BTM-2420	1-1/2 BSPPM x 1-1/4 BSPTM
	BPM-BTM-2424	1-1/2 BSPPM x 1-1/2 BSPTM
	BPM-BTM-2432	1-1/2 BSPPM x 2-0 BSPTM
	BPM-BTM-3232	2-0 BSPPM x 2-0 BSPTM

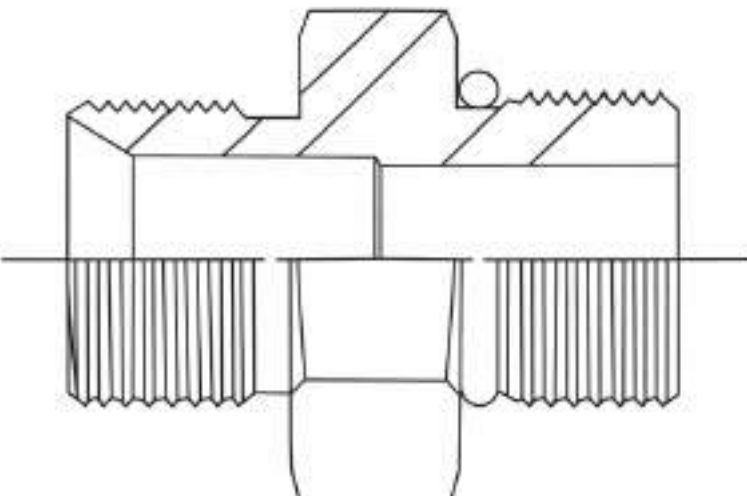


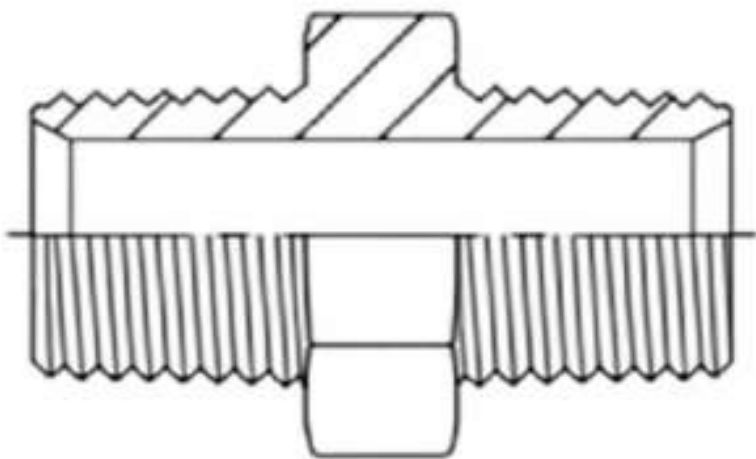
M x M ADAPTORS		
BSPP x JIC		
	PART NUMBER	DESCRIPTION
	BPM-JIM-0205	1/8 BSPPM x 5/16 JICM
	BPM-JIM-0207	1/8 BSPPM x 7/16 JICM
	BPM-JIM-0208	1/8 BSPPM x 1/2 JICM
	BPM-JIM-0209	1/8 BSPPM x 9/16 JICM
	BPM-JIM-0407	1/4 BSPPM x 7/16 JICM
	BPM-JIM-0408	1/4 BSPPM x 1/2 JICM
	BPM-JIM-0409	1/4 BSPPM x 9/16 JICM
	BPM-JIM-0412	1/4 BSPPM x 3/4 JICM
	BPM-JIM-0607	3/8 BSPPM x 7/16 JICM
	BPM-JIM-0608	3/8 BSPPM x 1/2 JICM
	BPM-JIM-0609	3/8 BSPPM x 9/16 JICM
	BPM-JIM-0612	3/8 BSPPM x 3/4 JICM
	BPM-JIM-0614	3/8 BSPPM x 7/8 JICM
	BPM-JIM-0617	3/8 BSPPM x 1-1/16 JICM
	BPM-JIM-0807	1/2 BSPPM x 7/16 JICM
	BPM-JIM-0809	1/2 BSPPM x 9/16 JICM
	BPM-JIM-0812	1/2 BSPPM x 3/4 JICM
	BPM-JIM-0814	1/2 BSPPM x 7/8 JICM
	BPM-JIM-0817	1/2 BSPPM x 1-1/16 JICM
	BPM-JIM-0821	1/2 BSPPM x 1-5/16 JICM
	BPM-JIM-1014	5/8 BSPPM x 7/8 JICM
	BPM-JIM-1017	5/8 BSPPM x 1-1/16 JICM
	BPM-JIM-1207	3/4 BSPPM x 7/16 JICM
	BPM-JIM-1209	3/4 BSPPM x 9/16 JICM
	BPM-JIM-1212	3/4 BSPPM x 3/4 JICM
	BPM-JIM-1214	3/4 BSPPM x 7/8 JICM
	BPM-JIM-1217	3/4 BSPPM x 1-1/16 JICM
	BPM-JIM-1219	3/4 BSPPM x 1-3/16 JICM
	BPM-JIM-1221	3/4 BSPPM x 1-5/16 JICM
	BPM-JIM-1612	1-0 BSPPM x 3/4 JICM
	BPM-JIM-1614	1-0 BSPPM x 7/8 JICM
	BPM-JIM-1617	1-0 BSPPM x 1-1/16 JICM
	BPM-JIM-1619	1-0 BSPPM x 1-3/16 JICM
	BPM-JIM-1621	1-0 BSPPM x 1-5/16 JICM
	BPM-JIM-1626	1-0 BSPPM x 1-5/8 JICM
	BPM-JIM-1630	1-0 BSPPM x 1-7/8 JICM
	BPM-JIM-2017	1-1/4 BSPPM x 1-1/16 JICM
	BPM-JIM-2021	1-1/4 BSPPM x 1-5/16 JICM
	BPM-JIM-2026	1-1/4 BSPPM x 1-5/8 JICM
	BPM-JIM-2030	1-1/4 BSPPM x 1-7/8 JICM
	BPM-JIM-2417	1-1/2 BSPPM x 1-1/16 JICM
	BPM-JIM-2421	1-1/2 BSPPM x 1-5/16 JICM
	BPM-JIM-2426	1-1/2 BSPPM x 1-5/8 JICM
	BPM-JIM-2430	1-1/2 BSPPM x 1-7/8 JICM
	BPM-JIM-3226	2-0 BSPPM x 1-5/8 JICM
	BPM-JIM-3230	2-0 BSPPM x 1-7/8 JICM
	BPM-JIM-3240	2-0 BSPPM x 2-1/2 JICM

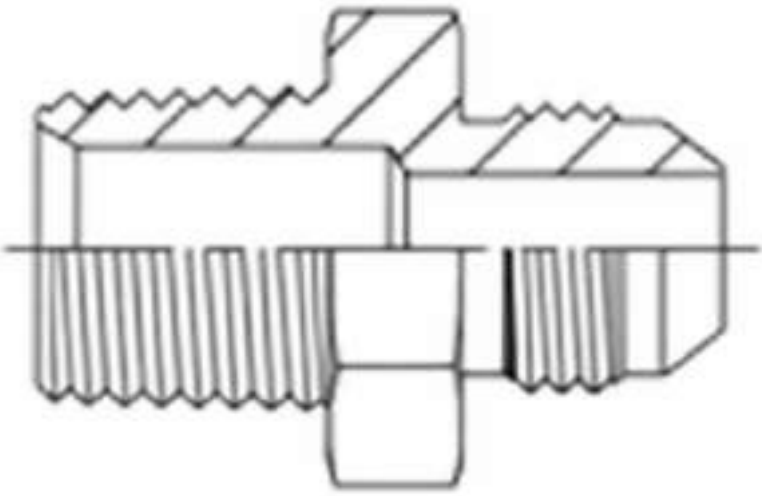
M x M ADAPTORS		
BSPP x CHINESE METRIC		
	PART NUMBER	DESCRIPTION
	BPM-MCM-0414	1/4 BSPPM x 14x1.5 MetChineseM
	BPM-MCM-0416	1/4 BSPPM x 16x1.5 MetChineseM
	BPM-MCM-0616	3/8 BSPPM x 16x1.5 MetChineseM
	BPM-MCM-0618	3/8 BSPPM x 18x1.5 MetChineseM
	BPM-MCM-0820	1/2 BSPPM x 20x1.5 MetChineseM
	BPM-MCM-0822	1/2 BSPPM x 22x1.5 MetChineseM
	BPM-MCM-1230	3/4 BSPPM x 30x1.5 MetChineseM
	BPM-MCM-1636	1-0 BSPPM x 36x2.0 MetChineseM
	BPM-MCM-1639	1-0 BSPPM x 39x2.0 MetChineseM
M x M ADAPTORS		
BSPP x METRIC HEAVY		
	PART NUMBER	DESCRIPTION
	BPM-MHM-0414	1/4 BSPPM x 14x1.5 MHM
	BPM-MHM-0416	1/4 BSPPM x 16x1.5 MHM
	BPM-MHM-0418	1/4 BSPPM x 18x1.5 MHM
	BPM-MHM-0420	1/4 BSPPM x 20x1.5 MHM
	BPM-MHM-0616	3/8 BSPPM x 16x1.5 MHM
	BPM-MHM-0618	3/8 BSPPM x 18x1.5 MHM
	BPM-MHM-0620	3/8 BSPPM x 20x1.5 MHM
	BPM-MHM-0622	3/8 BSPPM x 22x1.5 MHM
	BPM-MHM-0624	3/8 BSPPM x 24x1.5 MHM
	BPM-MHM-0816	1/2 BSPPM x 16x1.5 MHM
	BPM-MHM-0818	1/2 BSPPM x 18x1.5 MHM
	BPM-MHM-0820	1/2 BSPPM x 20x1.5 MHM
	BPM-MHM-0822	1/2 BSPPM x 22x1.5 MHM
	BPM-MHM-0824	1/2 BSPPM x 24x1.5 MHM
	BPM-MHM-0830	1/2 BSPPM x 30x2.0 MHM
	BPM-MHM-0836	1/2 BSPPM x 36x2.0 MHM
	BPM-MHM-1224	3/4 BSPPM x 24x1.5 MHM
	BPM-MHM-1230	3/4 BSPPM x 30x2.0 MHM
	BPM-MHM-1236	3/4 BSPPM x 36x2.0 MHM
	BPM-MHM-1242	3/4 BSPPM x 42x2.0 MHM
	BPM-MHM-1630	1-0 BSPPM x 30x2.0 MHM
	BPM-MHM-1636	1-0 BSPPM x 36x2.0 MHM
	BPM-MHM-1642	1-0 BSPPM x 42x2.0 MHM
	BPM-MHM-1652	1-0 BSPPM x 52x2.0 MHM
	BPM-MHM-2042	1-1/4 BSPPM x 42x2.0 MHM
	BPM-MHM-2052	1-1/4 BSPPM x 52x2.0 MHM
	BPM-MHM-2452	1-1/2 BSPPM x 52x2.0 MHM

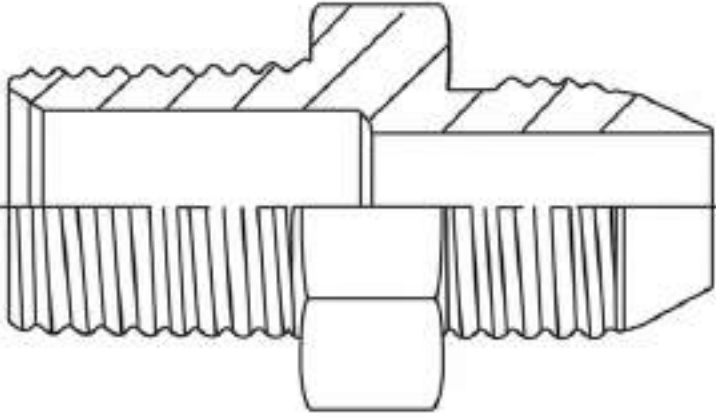
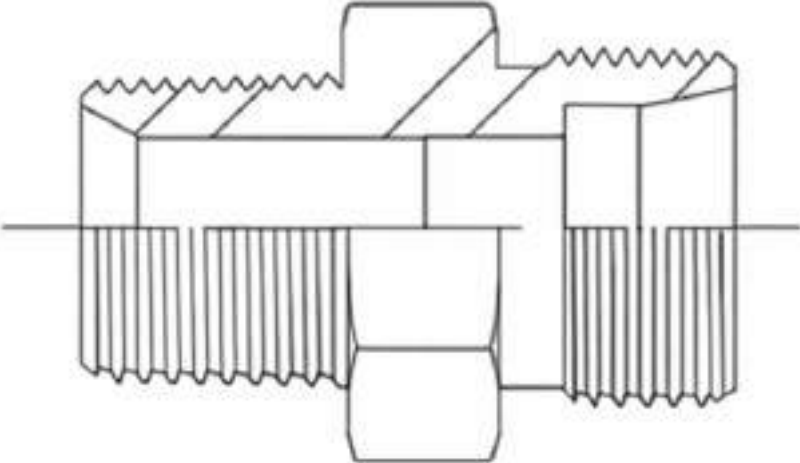
M x M ADAPTORS		
BSPP x METRIC LIGHT		
	PART NUMBER	DESCRIPTION
	BPM-MLLM-0208	1/8 BSPP x 8x1.0 MLLM
	BPM-MLLM-0210	1/8 BSPP x 10x1.0 MLLM
	BPM-MLLM-0212	1/8 BSPP x 12x1.0 MLLM
	BPM-MLM-0212	1/8 BSPPM x 12x1.5 MLM
	BPM-MLM-0214	1/8 BSPPM x 14x1.5 MLM
	BPM-MLM-0216	1/8 BSPPM x 16x1.5 MLM
	BPM-MLM-0412	1/4 BSPPM x 12x1.5 MLM
	BPM-MLM-0414	1/4 BSPPM x 14x1.5 MLM
	BPM-MLM-0416	1/4 BSPPM x 16x1.5 MLM
	BPM-MLM-0418	1/4 BSPPM x 18x1.5 MLM
	BPM-MLM-0612	3/8 BSPPM x 12x1.5 MLM
	BPM-MLM-0614	3/8 BSPPM x 14x1.5 MLM
	BPM-MLM-0616	3/8 BSPPM x 16x1.5 MLM
	BPM-MLM-0618	3/8 BSPPM x 18x1.5 MLM
	BPM-MLM-0622	3/8 BSPPM x 22x1.5 MLM
	BPM-MLM-0626	3/8 BSPPM x 26x1.5 MLM
	BPM-MLM-0812	1/2 BSPPM x 12x1.5 MLM
	BPM-MLM-0814	1/2 BSPPM x 14x1.5 MLM
	BPM-MLM-0816	1/2 BSPPM x 16x1.5 MLM
	BPM-MLM-0818	1/2 BSPPM x 18x1.5 MLM
	BPM-MLM-0822	1/2 BSPPM x 22x1.5 MLM
	BPM-MLM-0826	1/2 BSPPM x 26x1.5 MLM
	BPM-MLM-0830	1/2 BSPPM x 30x2.0 MLM
	BPM-MLM-0836	1/2 BSPPM x 36x2.0 MLM
	BPM-MLM-1218	3/4 BSPPM x 18x1.5 MLM
	BPM-MLM-1222	3/4 BSPPM x 22x1.5 MLM
	BPM-MLM-1226	3/4 BSPPM x 26x1.5 MLM
	BPM-MLM-1230	3/4 BSPPM x 30x2.0 MLM
	BPM-MLM-1236	3/4 BSPPM x 36x2.0 MLM
	BPM-MLM-1630	1-0 BSPPM x 30x2.0 MLM
	BPM-MLM-1636	1-0 BSPPM x 36x2.0 MLM
	BPM-MLM-1645	1-0 BSPPM x 45x2.0 MLM
	BPM-MLM-2045	1-1/4 BSPPM x 45x2.0 MLM
	BPM-MLM-2052	1-1/4 BSPPM x 52x2.0 MLM
	BPM-MLM-2452	1-1/2 BSPPM x 52x2.0 MLM

M x M ADAPTORS		
BSPP x METRIC PORT		
	PART NUMBER	DESCRIPTION
	BPM-MSM-0412	1/4 BSPPM x 12x1.5 MetStud
	BPM-MSM-0414	1/4 BSPPM x 14x1.5 MetStud
	BPM-MSM-0416	1/4 BSPPM x 16x1.5 MetStud
	BPM-MSM-0418	1/4 BSPPM x 18x1.5 MetStud
	BPM-MSM-0614	3/8 BSPPM x 14x1.5 MetStud
	BPM-MSM-0616	3/8 BSPPM x 16x1.5 MetStud
	BPM-MSM-0618	3/8 BSPPM x 18x1.5 MetStud
	BPM-MSM-0620	3/8 BSPPM x 20x1.5 MetStud
	BPM-MSM-0622	3/8 BSPPM x 22x1.5 MetStud
	BPM-MSM-0626	3/8 BSPPM x 26x1.5 MetStud
	BPM-MSM-0814	1/2 BSPPM x 14x1.5 MetStud
	BPM-MSM-0816	1/2 BSPPM x 16x1.5 MetStud
	BPM-MSM-0818	1/2 BSPPM x 18x1.5 MetStud
	BPM-MSM-0820	1/2 BSPPM x 20x1.5 MetStud
	BPM-MSM-0822	1/2 BSPPM x 22x1.5 MetStud
	BPM-MSM-0827	1/2 BSPPM x 27x2.0 MetStud
	BPM-MSM-0833 x1.5	1/2 BSPPM x 33x1.5 MetStud
	BPM-MSM-1222	3/4 BSPPM x 22x1.5 MetStud
	BPM-MSM-1226	3/4 BSPPM x 26x1.5 MetStud
	BPM-MSM-1227	3/4 BSPPM x 27x2.0 MetStud
	BPM-MSM-1230	3/4 BSPPM x 30x2.0 MetStud
	BPM-MSM-1233	3/4 BSPPM x 33x2.0 MetStud
	BPM-MSM-1237	3/4 BSPPM x 37x2.0 MetStud
M x M ADAPTORS		
BSPP x ORFS		
	PART NUMBER	DESCRIPTION
	BPM-ORM-0209	1/8 BSPPM x 9/16 ORFSM
	BPM-ORM-0409	1/4 BSPPM x 9/16 ORFSM
	BPM-ORM-0411	1/4 BSPPM x 11/16 ORFSM
	BPM-ORM-0609	3/8 BSPPM x 9/16 ORFSM
	BPM-ORM-0611	3/8 BSPPM x 11/16 ORFSM
	BPM-ORM-0613	3/8 BSPPM x 13/16 ORFSM
	BPM-ORM-0811	1/2 BSPPM x 11/16 ORFSM
	BPM-ORM-0813	1/2 BSPPM x 13/16 ORFSM
	BPM-ORM-0816	1/2 BSPPM x 1-0 ORFSM
	BPM-ORM-0819	1/2 BSPPM x 1-3/16 ORFSM
	BPM-ORM-1213	3/4 BSPPM x 13/16 ORFSM
	BPM-ORM-1216	3/4 BSPPM x 1-0 ORFSM
	BPM-ORM-1219	3/4 BSPPM x 1-3/16 ORFSM
	BPM-ORM-1223	3/4 BSPPM x 1-7/16 ORFSM
	BPM-ORM-1619	1-0 BSPPM x 1-3/16 ORFSM
	BPM-ORM-1623	1-0 BSPPM x 1-7/16 ORFSM
	BPM-ORM-1627	1-0 BSPPM x 1-11/16 ORFSM
	BPM-ORM-2023	1-1/4 BSPPM x 1-7/16 ORFSM
	BPM-ORM-2027	1-1/4 BSPPM x 1-11/16 ORFSM
	BPM-ORM-2427	1-1/2 BSPPM x 1-11/16 ORFSM
	BPM-ORM-2432	1-1/2 BSPPM x 2-0 ORFSM

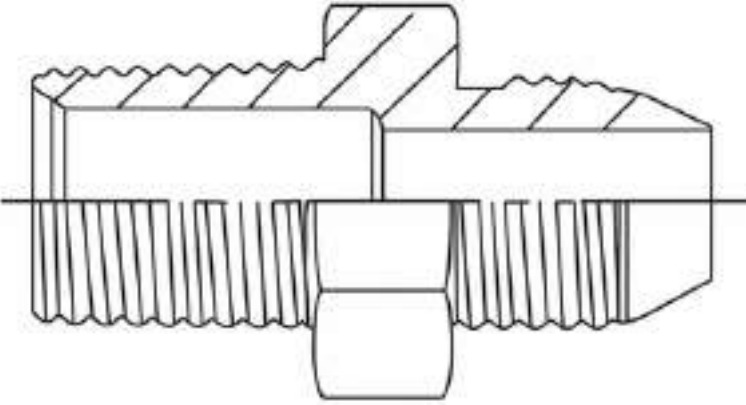
M x M ADAPTORS		
BSPP x UNO		
	PART NUMBER	DESCRIPTION
	BPM-UNM-0209	1/8 BSPPM x 9/16 UNO M
	BPM-UNM-0407	1/4 BSPPM x 7/16 UNO M
	BPM-UNM-0408	1/4 BSPPM x 1/2 UNO M
	BPM-UNM-0409	1/4 BSPPM x 9/16 UNO M
	BPM-UNM-0412	1/4 BSPPM x 3/4 UNO M
	BPM-UNM-0414	1/4 BSPPM x 7/8 UNO M
	BPM-UNM-0607	3/8 BSPPM x 7/16 UNO M
	BPM-UNM-0608	3/8 BSPPM x 1/2 UNO M
	BPM-UNM-0609	3/8 BSPPM x 9/16 UNO M
	BPM-UNM-0612	3/8 BSPPM x 3/4 UNO M
	BPM-UNM-0614	3/8 BSPPM x 7/8 UNO M
	BPM-UNM-0619	3/8 BSPPM x 1-3/16 UNO M
	BPM-UNM-0809	1/2 BSPPM x 9/16 UNO M
	BPM-UNM-0812	1/2 BSPPM x 3/4 UNO M
	BPM-UNM-0814	1/2 BSPPM x 7/8 UNO M
	BPM-UNM-0817	1/2 BSPPM x 1-1/16 UNO M
	BPM-UNM-0819	1/2 BSPPM x 1-3/16 UNO M
	BPM-UNM-0821	1/2 BSPPM x 1-5/16 UNO M
	BPM-UNM-1212	3/4 BSPPM x 3/4 UNO M
	BPM-UNM-1214	3/4 BSPPM x 7/8 UNO M
	BPM-UNM-1217	3/4 BSPPM x 1-1/16 UNO M
	BPM-UNM-1219	3/4 BSPPM x 1-3/16 UNO M
	BPM-UNM-1221	3/4 BSPPM x 1-5/16 UNO M
	BPM-UNM-1226	3/4 BSPPM x 1-5/8 UNO M
	BPM-UNM-1612	1-0 BSPPM x 3/4 UNO M
	BPM-UNM-1614	1-0 BSPPM x 7/8 UNO M
	BPM-UNM-1617	1-0 BSPPM x 1-1/16 UNO M
	BPM-UNM-1619	1-0 BSPPM x 1-3/16 UNO M
	BPM-UNM-1621	1-0 BSPPM x 1-5/16 UNO M
	BPM-UNM-1626	1-0 BSPPM x 1-5/8 UNO M
	BPM-UNM-2021	1-1/4 BSPPM x 1-5/16 UNO M
	BPM-UNM-2026	1-1/4 BSPPM x 1-5/8 UNO M
	BPM-UNM-2421	1-1/2 BSPPM x 1-5/16 UNO M

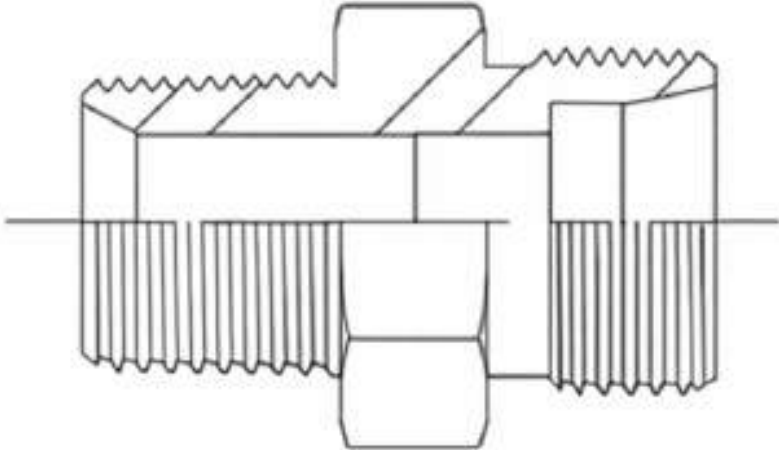
M x M ADAPTORS		
BSPT NIPPLE		
	PART NUMBER	DESCRIPTION
	BTM-BTM-0202	1/8 BSPTM x 1/8 BSPTM
	BTM-BTM-0204	1/8 BSPTM x 1/4 BSPTM
	BTM-BTM-0206	1/8 BSPTM x 3/8 BSPTM
	BTM-BTM-0404	1/4 BSPTM x 1/4 BSPTM
	BTM-BTM-0406	1/4 BSPTM x 3/8 BSPTM
	BTM-BTM-0408	1/4 BSPTM x 1/2 BSPTM
	BTM-BTM-0412	1/4 BSPTM x 3/4 BSPTM
	BTM-BTM-0606	3/8 BSPTM x 3/8 BSPTM
	BTM-BTM-0608	3/8 BSPTM x 1/2 BSPTM
	BTM-BTM-0612	3/8 BSPTM x 3/4 BSPTM
	BTM-BTM-0616	3/8 BSPTM x 1-0 BSPTM
	BTM-BTM-0808	1/2 BSPTM x 1/2 BSPTM
	BTM-BTM-0810	1/2 BSPTM x 5/8 BSPTM
	BTM-BTM-0812	1/2 BSPTM x 3/4 BSPTM
	BTM-BTM-0816	1/2 BSPTM x 1-0 BSPTM
	BTM-BTM-1010	5/8 BSPTM x 5/8 BSPTM
	BTM-BTM-1012	5/8 BSPTM x 3/4 BSPTM
	BTM-BTM-1212	3/4 BSPTM x 3/4 BSPTM
	BTM-BTM-1216	3/4 BSPTM x 1-0 BSPTM
	BTM-BTM-1220	3/4 BSPTM x 1-1/4 BSPTM
	BTM-BTM-1616	1-0 BSPTM x 1-0 BSPTM
	BTM-BTM-1620	1-0 BSPTM x 1-1/4 BSPTM
	BTM-BTM-1624	1-0 BSPTM x 1-1/2 BSPTM
	BTM-BTM-2020	1-1/4 BSPTM x 1-1/4 BSPTM
	BTM-BTM-2024	1-1/4 BSPTM x 1-1/2 BSPTM
	BTM-BTM-2032	1-1/4 BSPTM x 2-0 BSPTM
	BTM-BTM-2424	1-1/2 BSPTM x 1-1/2 BSPTM
	BTM-BTM-2432	1-1/2 BSPTM x 2-0 BSPTM
	BTM-BTM-3232	2-0 BSPTM x 2-0 BSPTM

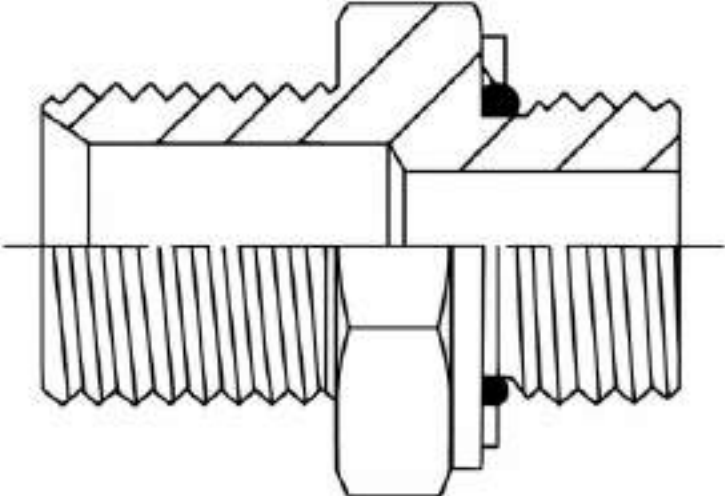
M x M ADAPTORS		
BSPT x JIC		
	PART NUMBER	DESCRIPTION
	BTM-JIM-0206	1/8 BSPTM x 3/8 JICM
	BTM-JIM-0207	1/8 BSPTM x 7/16 JICM
	BTM-JIM-0208	1/8 BSPTM x 1/2 JICM
	BTM-JIM-0209	1/8 BSPTM x 9/16 JICM
	BTM-JIM-0407	1/4 BSPTM x 7/16 JICM
	BTM-JIM-0408	1/4 BSPTM x 1/2 JICM
	BTM-JIM-0409	1/4 BSPTM x 9/16 JICM
	BTM-JIM-0412	1/4 BSPTM x 3/4 JICM
	BTM-JIM-0607	3/8 BSPTM x 7/16 JICM
	BTM-JIM-0608	3/8 BSPTM x 1/2 JICM
	BTM-JIM-0609	3/8 BSPTM x 9/16 JICM
	BTM-JIM-0612	3/8 BSPTM x 3/4 JICM
	BTM-JIM-0614	3/8 BSPTM x 7/8 JICM
	BTM-JIM-0617	3/8 BSPTM x 1-1/16 JICM
	BTM-JIM-0807	1/2 BSPTM x 7/16 JICM
	BTM-JIM-0809	1/2 BSPTM x 9/16 JICM
	BTM-JIM-0812	1/2 BSPTM x 3/4 JICM
	BTM-JIM-0814	1/2 BSPTM x 7/8 JICM
	BTM-JIM-0817	1/2 BSPTM x 1-1/16 JICM
	BTM-JIM-0821	1/2 BSPTM x 1-5/16 JICM
	BTM-JIM-1209	3/4 BSPTM x 9/16 JICM
	BTM-JIM-1212	3/4 BSPTM x 3/4 JICM
	BTM-JIM-1214	3/4 BSPTM x 7/8 JICM
	BTM-JIM-1217	3/4 BSPTM x 1-1/16 JICM
	BTM-JIM-1219	3/4 BSPTM x 1-3/16 JICM
	BTM-JIM-1221	3/4 BSPTM x 1-5/16 JICM
	BTM-JIM-1612	1-0 BSPTM x 3/4 JICM
	BTM-JIM-1614	1-0 BSPTM x 7/8 JICM
	BTM-JIM-1617	1-0 BSPTM x 1-1/16 JICM
	BTM-JIM-1619	1-0 BSPTM x 1-3/16 JICM
	BTM-JIM-1621	1-0 BSPTM x 1-5/16 JICM
	BTM-JIM-1626	1-0 BSPTM x 1-5/8 JICM
	BTM-JIM-2017	1-1/4 BSPTM x 1-1/16 JICM
	BTM-JIM-2021	1-1/4 BSPTM x 1-5/16 JICM
	BTM-JIM-2026	1-1/4 BSPTM x 1-5/8 JICM
	BTM-JIM-2030	1-1/4 BSPTM x 1-7/8 JICM
	BTM-JIM-2417	1-1/2 BSPTM x 1-1/16 JICM
	BTM-JIM-2421	1-1/2 BSPTM x 1-5/16 JICM
	BTM-JIM-2426	1-1/2 BSPTM x 1-5/8 JICM
	BTM-JIM-2430	1-1/2 BSPTM x 1-7/8 JICM
	BTM-JIM-3226	2-0 BSPTM x 1-5/8 JICM
	BTM-JIM-3230	2-0 BSPTM x 1-7/8 JICM
	BTM-JIM-3240	2-0 BSPTM x 2-1/2 JICM

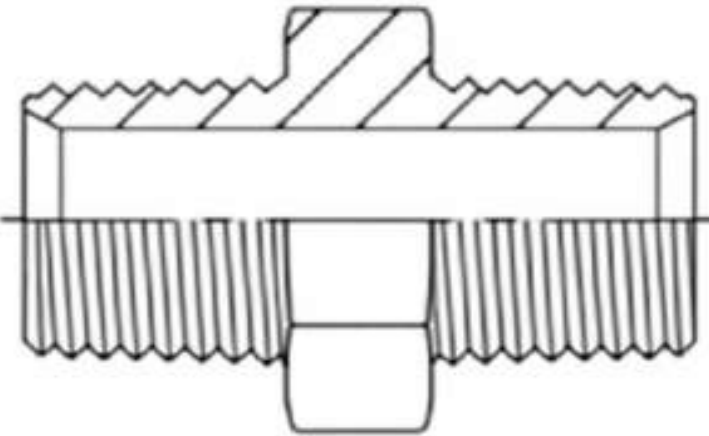
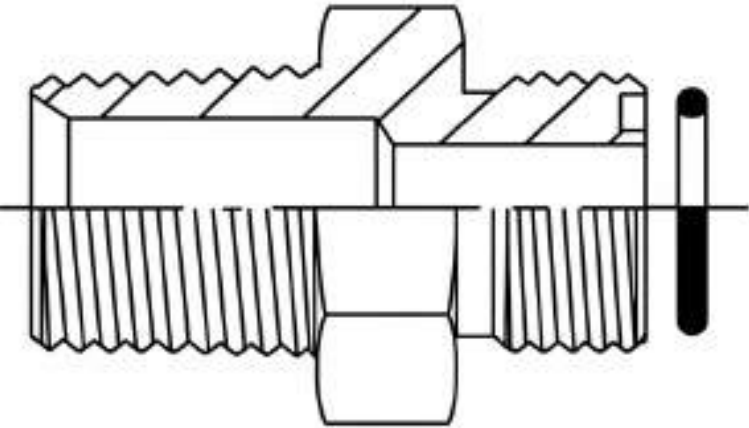
M x M ADAPTORS		
BSPT x JIS		
	PART NUMBER	DESCRIPTION
	BTM-BJM-0202	1/8 BSPTM x 1/8 JIS M
	BTM-BJM-0204	1/8 BSPTM x 1/4 JIS M
	BTM-BJM-0404	1/4 BSPTM x 1/4 JIS M
	BTM-BJM-0606	3/8 BSPTM x 3/8 JIS M
	BTM-BJM-0808	1/2 BSPTM x 1/2 JIS M
	BTM-BJM-1212	3/4 BSPTM x 3/4 JIS M
	BTM-BJM-1616	1-0 BSPTM x 1-0 JIS M
M x M ADAPTORS		
BSPT x METRIC HEAVY		
	PART NUMBER	DESCRIPTION
	BTM-MHM-0414	1/4 BSPTM x 14x1.5 MHM
	BTM-MHM-0416	1/4 BSPTM x 16x1.5 MHM
	BTM-MHM-0618	3/8 BSPTM x 18x1.5 MHM
	BTM-MHM-0620	3/8 BSPTM x 20x1.5 MHM
	BTM-MHM-0622	3/8 BSPTM x 22x1.5 MHM
	BTM-MHM-0624	3/8 BSPTM x 24x1.5 MHM
	BTM-MHM-0816	1/2 BSPTM x 16x1.5 MHM
	BTM-MHM-0818	1/2 BSPTM x 18x1.5 MHM
	BTM-MHM-0820	1/2 BSPTM x 20x1.5 MHM
	BTM-MHM-0822	1/2 BSPTM x 22x1.5 MHM
	BTM-MHM-0824	1/2 BSPTM x 24x1.5 MHM
	BTM-MHM-0830	1/2 BSPTM x 30x2.0 MHM
	BTM-MHM-1224	3/4 BSPTM x 24x1.5 MHM
	BTM-MHM-1230	3/4 BSPTM x 30x2.0 MHM
	BTM-MHM-1236	3/4 BSPTM x 36x2.0 MHM
	BTM-MHM-1636	1-0 BSPTM x 36x2.0 MHM
	BTM-MHM-1642	1-0 BSPTM x 42x2.0 MHM
	BTM-MHM-2042	1-1/4 BSPTM x 42x2.0 MHM
	BTM-MHM-2452	1-1/2 BSPTM x 52x2.0 MHM



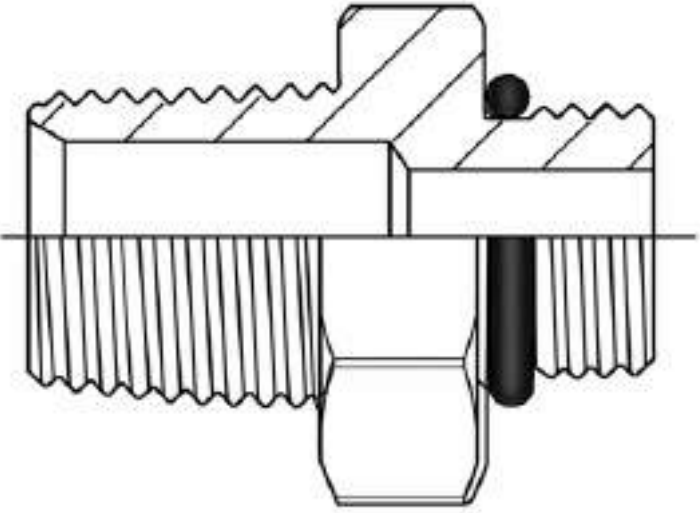
M x M ADAPTORS		
BSPT x KOMATSU		
	PART NUMBER	DESCRIPTION
	BTM-MKM-0212	1/8 BSPTM x 12x1.5mm Komatsu M
	BTM-MKM-0214	1/8 BSPTM x 14x1.5mm Komatsu M
	BTM-MKM-0412	1/4 BSPTM x 12x1.5mm Komatsu M
	BTM-MKM-0414	1/4 BSPTM x 14x1.5mm Komatsu M
	BTM-MKM-0616	3/8 BSPTM x 16x1.5mm Komatsu M
	BTM-MKM-0618	3/8 BSPTM x 18x1.5mm Komatsu M
	BTM-MKM-0620	3/8 BSPTM x 20x1.5mm Komatsu M
	BTM-MKM-0622	3/8 BSPTM x 22x1.5mm Komatsu M
	BTM-MKM-0818	1/2 BSPTM x 18x1.5mm Komatsu M
	BTM-MKM-0820	1/2 BSPTM x 20x1.5mm Komatsu M
	BTM-MKM-0822	1/2 BSPTM x 22x1.5mm Komatsu M
	BTM-MKM-0824	1/2 BSPTM x 24x1.5mm Komatsu M
	BTM-MKM-0830	1/2 BSPTM x 30x1.5mm Komatsu M
	BTM-MKM-1224	3/4 BSPTM x 24x1.5mm Komatsu M
	BTM-MKM-1230	3/4 BSPTM x 30x1.5mm Komatsu M
	BTM-MKM-1633	1-0 BSPTM x 33x1.5mm Komatsu M

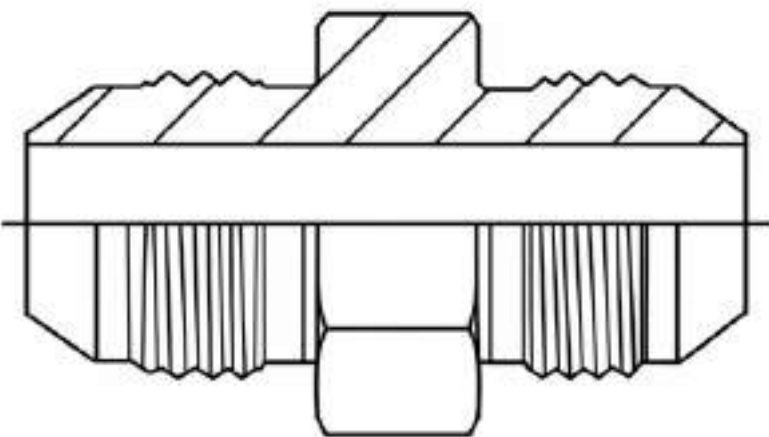
M x M ADAPTORS		
BSPT x METRIC LIGHT		
	PART NUMBER	DESCRIPTION
	BTM-MLLM-0208	1/8 BSPTM x 8x1.0 MLLM
	BTM-MLLM-0210	1/8 BSPTM x 10x1.0 MLLM
	BTM-MLLM-0212	1/8 BSPTM x 12x1.0 MLLM
	BTM-MLLM-0410	1/4 BSPTM x 10x1.0 MLLM
	BTM-MLM-0212	1/8 BSPTM x 12x1.5 6L
	BTM-MLM-0214	1/8 BSPTM x 14x1.5 8L
	BTM-MLM-0216	1/8 BSPTM x 16x1.5 10L
	BTM-MLM-0412	1/4 BSPTM x 12x1.5 6L
	BTM-MLM-0414	1/4 BSPTM x 14x1.5 8L
	BTM-MLM-0416	1/4 BSPTM x 16x1.5 10L
	BTM-MLM-0418	1/4 BSPTM x 18x1.5 12L
	BTM-MLM-0614	3/8 BSPTM x 14x1.5 8L
	BTM-MLM-0616	3/8 BSPTM x 16x1.5 10L
	BTM-MLM-0618	3/8 BSPTM x 18x1.5 12L
	BTM-MLM-0622	3/8 BSPTM x 22x1.5 15L
	BTM-MLM-0814	1/2 BSPTM x 14x1.5 8L
	BTM-MLM-0816	1/2 BSPTM x 16x1.5 10L
	BTM-MLM-0818	1/2 BSPTM x 18x1.5 12L
	BTM-MLM-0822	1/2 BSPTM x 22x1.5 15L
	BTM-MLM-0826	1/2 BSPTM x 26x1.5 18L
	BTM-MLM-0830	1/2 BSPTM x 30x2.0 22L
	BTM-MLM-1222	3/4 BSPTM x 22x1.5 15L
	BTM-MLM-1226	3/4 BSPTM x 26x1.5 18L
	BTM-MLM-1230	3/4 BSPTM x 30x2.0 22L
	BTM-MLM-1236	3/4 BSPTM x 36x2.0 28L
	BTM-MLM-1636	1-0 BSPTM x 36x2.0 28L
	BTM-MLM-2045	1-1/4 BSPTM x 45x2.0 35L
	BTM-MLM-2452	1-1/2 BSPTM x 52x2.0 42L

M x M ADAPTORS		
BSPT x METRIC PORT		
	PART NUMBER	DESCRIPTION
	BTM-MSM-0210	1/8 BSPTM x 10x1.0 MetStud
	BTM-MSM-0212	1/8 BSPTM x 12x1.5 MetStud
	BTM-MSM-0410	1/4 BSPTM x 10x1.0 MetStud
	BTM-MSM-0412	1/4 BSPTM x 12x1.5 MetStud
	BTM-MSM-0414	1/4 BSPTM x 14x1.5 MetStud
	BTM-MSM-0416	1/4 BSPTM x 16x1.5 MetStud
	BTM-MSM-0612	3/8 BSPTM x 12x1.5 MetStud
	BTM-MSM-0614	3/8 BSPTM x 14x1.5 MetStud
	BTM-MSM-0616	3/8 BSPTM x 16x1.5 MetStud
	BTM-MSM-0618	3/8 BSPTM x 18x1.5 MetStud
	BTM-MSM-0620	3/8 BSPTM x 20x1.5 MetStud
	BTM-MSM-0622	3/8 BSPTM x 22x1.5 MetStud
	BTM-MSM-0818	1/2 BSPTM x 18x1.5 MetStud
	BTM-MSM-0820	1/2 BSPTM x 20x1.5 MetStud
	BTM-MSM-0822	1/2 BSPTM x 22x1.5 MetStud
	BTM-MSM-0824	1/2 BSPTM x 24x1.5 MetStud
	BTM-MSM-0826	1/2 BSPTM x 26x1.5 MetStud
	BTM-MSM-0827	1/2 BSPTM x 27x2.0 MetStud
	BTM-MSM-0830	1/2 BSPTM x 30x2.0MetStud
	BTM-MSM-0830 X 1.5	1/2 BSPTM x 30x1.5 MetStud
	BTM-MSM-0833	1/2 BSPTM x 33x2.0 MetStud
	BTM-MSM-1222	3/4 BSPTM x 22 x1.5 MetStud
	BTM-MSM-1224	3/4 BSPTM x 24x1.5 MetStud
	BTM-MSM-1226	3/4 BSPTM x 26x1.5 MetStud
	BTM-MSM-1227	3/4 BSPTM x 27x2.0 MetStud
	BTM-MSM-1230	3/4 BSPTM x 30x2.0MetStud
	BTM-MSM-1627	1-0 BSPTM x 27x2.0 MetStud
	BTM-MSM-1642	1-0 BSPTM x 42x2.0 MetStud
	BTM-MSM-2042	1-1/4 BSPTM x 42x2.0 MetStud

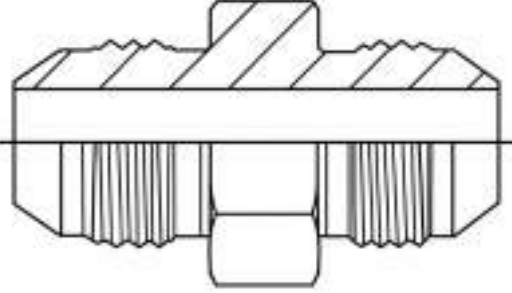
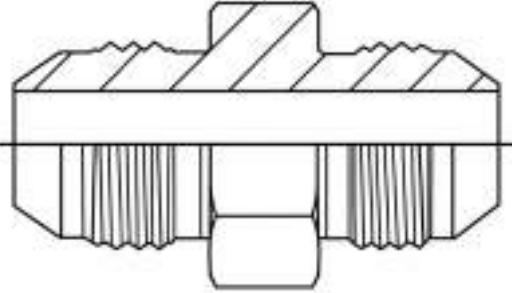
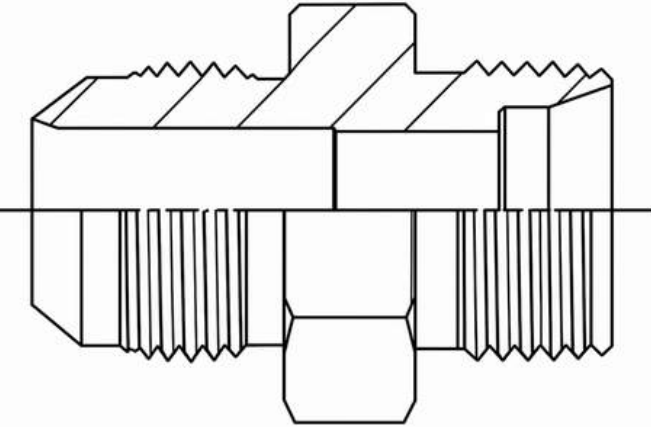
M x M ADAPTORS		
BSPT x NPT		
	PART NUMBER	DESCRIPTION
	BTM-NTM-0202	1/8 BSPTM x 1/8 NPTM
	BTM-NTM-0404	1/4 BSPTM x 1/4 NPTM
	BTM-NTM-0406	1/4 BSPTM x 3/8 NPTM
	BTM-NTM-0606	3/8 BSPTM x 3/8 NPTM
	BTM-NTM-0808	1/2 BSPTM x 1/2 NPTM
	BTM-NTM-1212	3/4 BSPTM x 3/4 NPTM
	BTM-NTM-1216	3/4 BSPTM x 1-0 NPTM
	BTM-NTM-1616	1-0 BSPTM x 1-0 NPTM
	BTM-NTM-2020	1-1/4 BSPM x 1-1/4 NPTM
	BTM-NTM-2424	1-1/2 BSPM x 1-1/2 NPTM
	BTM-NTM-3232	2-0 BSPTM x 2-0 NPTM
M x M ADAPTORS		
BSPT x ORFS		
	PART NUMBER	DESCRIPTION
	BTM-ORM-0209	1/8 BSPTM x 9/16 ORFS M
	BTM-ORM-0409	1/4 BSPTM x 9/16 ORFS M
	BTM-ORM-0411	1/4 BSPTM x 11/16 ORFS M
	BTM-ORM-0611	3/8 BSPTM x 11/16 ORFS M
	BTM-ORM-0613	3/8 BSPTM x 13/16 ORFS M
	BTM-ORM-0811	1/2 BSPTM x 11/16 ORFSM
	BTM-ORM-0813	1/2 BSPTM x 13/16 ORFS M
	BTM-ORM-0816	1/2 BSPTM x 1-0 ORFS M
	BTM-ORM-0819	1/2 BSPTM x 1-3/16 ORFS M
	BTM-ORM-1219	3/4 BSPTM x 1-3/16 ORFS M
	BTM-ORM-1223	3/4 BSPTM x 1-7/16 ORFS M
	BTM-ORM-1619	1-0 BSPTM x 1-3/16 ORFS M
	BTM-ORM-1623	1-0 BSPTM x 1-7/16 ORFS M

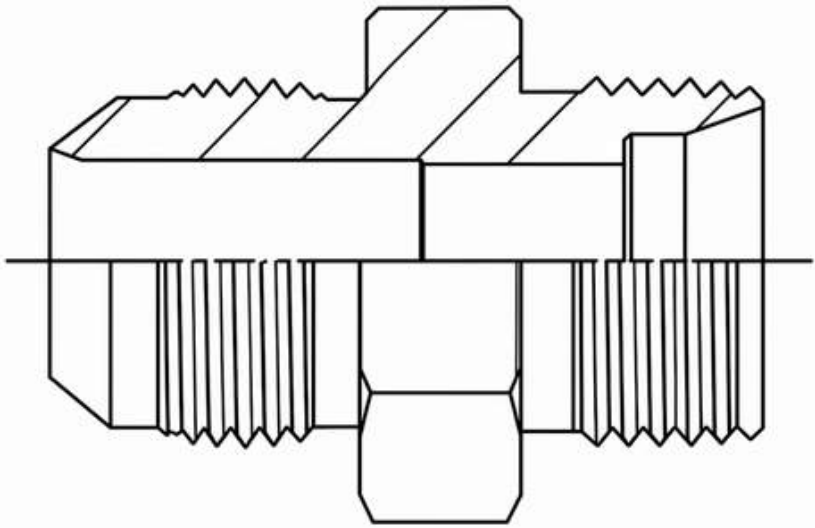


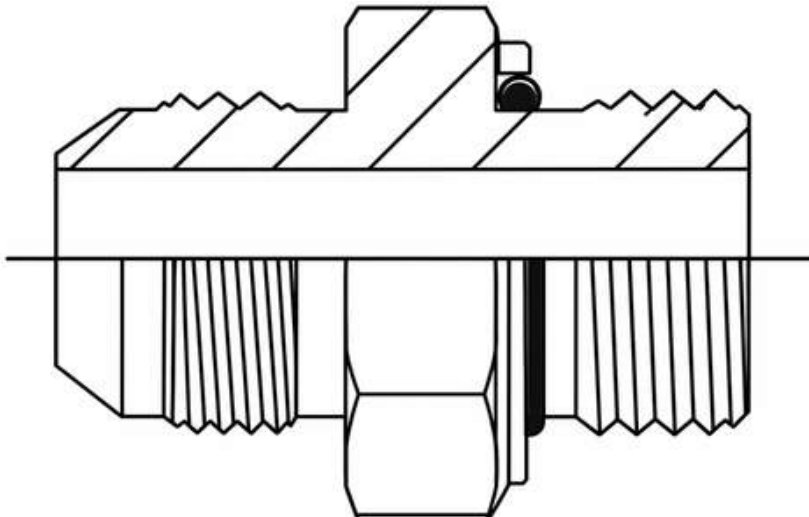
M x M ADAPTORS		
BSPT x UNO		
	PART NUMBER	DESCRIPTION
	BTM-UNM-0407	1/4 BSPTM x 7/16 UNO M
	BTM-UNM-0408	1/4 BSPTM x 1/2 UNO M
	BTM-UNM-0409	1/4 BSPTM x 9/16 UNO M
	BTM-UNM-0412	1/4 BSPTM x 3/4 UNO M
	BTM-UNM-0414	1/4 BSPTM x 7/8 UNO M
	BTM-UNM-0607	3/8 BSPTM x 7/16 UNO M
	BTM-UNM-0609	3/8 BSPTM x 9/16 UNO M
	BTM-UNM-0612	3/8 BSPTM x 3/4 UNO M
	BTM-UNM-0614	3/8 BSPTM x 7/8 UNO M
	BTM-UNM-0809	1/2 BSPTM x 9/16 UNO M
	BTM-UNM-0812	1/2 BSPTM x 3/4 UNO M
	BTM-UNM-0814	1/2 BSPTM x 7/8 UNO M
	BTM-UNM-0817	1/2 BSPTM x 1-1/16 UNO M
	BTM-UNM-0821	1/2 BSPTM x 1-5/16 UNO M
	BTM-UNM-1212	3/4 BSPTM x 3/4 UNO M
	BTM-UNM-1214	3/4 BSPTM x 7/8 UNO M
	BTM-UNM-1217	3/4 BSPTM x 1-1/16 UNO M
	BTM-UNM-1219	3/4 BSPTM x 1-3/16 UNO M
	BTM-UNM-1221	3/4 BSPTM x 1-5/16 UNO M
	BTM-UNM-1226	3/4 BSPTM x 1-5/8 UNO M
	BTM-UNM-1617	1-0 BSPTM x 1-1/16 UNO M
	BTM-UNM-1621	1-0 BSPTM x 1-5/16 UNO M
	BTM-UNM-1626	1-0 BSPTM x 1-5/8 UNO M
	BTM-UNM-2021	1-1/4 BSPTM x 1-5/16 UNO M
	BTM-UNM-2026	1-1/4 BSPTM x 1-5/8 UNO M
	BTM-UNM-2030	1-1/4 BSPTM x 1-7/8 UNO M
	BTM-UNM-2426	1-1/2 BSPTM x 1-5/8 UNO M
	BTM-UNM-2430	1-1/2 BSPTM x 1-7/8 UNO M

M x M ADAPTORS		
JIC NIPPLE		
	PART NUMBER	DESCRIPTION
	JIM-JIM-0606	3/8 JICM x 3/8 JICM
	JIM-JIM-0707	7/16 JICM x 7/16 JICM
	JIM-JIM-0708	7/16 JICM x 1/2 JICM
	JIM-JIM-0709	7/16 JICM x 9/16 JICM
	JIM-JIM-0712	7/16 JICM x 3/4 JICM
	JIM-JIM-0714	7/16 JICM x 7/8 JICM
	JIM-JIM-0717	7/16 JICM x 1-1/16 JICM
	JIM-JIM-0808	1/2 JICM x 1/2 JICM
	JIM-JIM-0809	1/2 JICM x 9/16 JICM
	JIM-JIM-0909	9/16 JICM x 9/16 JICM
	JIM-JIM-0912	9/16 JICM x 3/4 JICM
	JIM-JIM-0914	9/16 JICM x 7/8 JICM
	JIM-JIM-0917	9/16 JICM x 1-1/16 JICM
	JIM-JIM-0921	9/16 JICM x 1-5/16 JICM
	JIM-JIM-1212	3/4 JICM x 3/4 JICM
	JIM-JIM-1214	3/4 JICM x 7/8 JICM
	JIM-JIM-1217	3/4 JICM x 1-1/16 JICM
	JIM-JIM-1221	3/4 JICM x 1-5/16 JICM
	JIM-JIM-1414	7/8 JICM x 7/8 JICM
	JIM-JIM-1417	7/8 JICM x 1-1/16 JICM
	JIM-JIM-1421	7/8 JICM x 1-5/16 JICM
	JIM-JIM-1717	1-1/16 JICM x 1-1/16 JICM
	JIM-JIM-1719	1-1/16 JICM x 1-3/16 JICM
	JIM-JIM-1721	1-1/16 JICM x 1-5/16 JICM
	JIM-JIM-1919	1-3/16 JICM x 1-3/16 JICM
	JIM-JIM-1921	1-3/16 JICM x 1-5/16 JICM
	JIM-JIM-2121	1-5/16 JICM x 1-5/16 JICM
	JIM-JIM-2126	1-5/16 JICM x 1-5/8 JICM
	JIM-JIM-2130	1-5/16 JICM x 1-7/8 JICM
	JIM-JIM-2626	1-5/8 JICM x 1-5/8 JICM
	JIM-JIM-2630	1-5/8 JICM x 1-7/8 JICM
	JIM-JIM-3030	1-7/8 JICM x 1-7/8 JICM
	JIM-JIM-3040	1-7/8 JICM x 2-1/2 JICM
	JIM-JIM-4040	2-1/2 JICM x 2-1/2 JICM

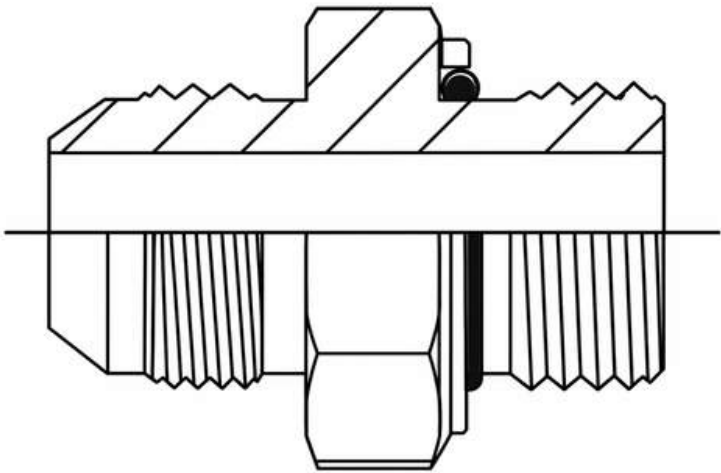


M x M ADAPTORS		
JIS NIPPLE		
	PART NUMBER	DESCRIPTION
	BJM-BJM-0404	1/4 JIS Male x 1/4 JIS Male
	BJM-BJM-0606	3/8 JIS Male x 3/8 JIS Male
	BJM-BJM-0808	1/2 JIS Male x 1/2 JIS Male
M x M ADAPTORS		
JIS x JIC		
	PART NUMBER	DESCRIPTION
	BJM-JIM-0407	1/4 JIS Male x 7/16 JICM
	BJM-JIM-0409	1/4 JIS Male x 9/16 JICM
	BJM-JIM-0609	3/8 JIS Male x 9/16 JICM
M x M ADAPTORS		
JIC x METRIC HEAVY		
	PART NUMBER	DESCRIPTION
	JIM-MHM-0714	7/16 JICM x 14mm MetHeavyM
	JIM-MHM-0914	9/16 JICM x 14mm MetHeavyM
	JIM-MHM-0916	9/16 JICM x 16mm MetHeavyM
	JIM-MHM-0922	9/16 JICM x 22mm MetHeavyM
	JIM-MHM-1216	3/4 JICM x 16mm MetHeavyM
	JIM-MHM-1218	3/4 JICM x 18mm MetHeavyM
	JIM-MHM-1220	3/4 JICM x 20mm MetHeavyM
	JIM-MHM-1222	3/4 JICM x 22mm MetHeavyM
	JIM-MHM-1224	3/4 JICM x 24mm MetHeavyM
	JIM-MHM-1422	7/8 JICM x 22mm MetHeavyM
	JIM-MHM-1424	7/8 JICM x 24mm MetHeavyM
	JIM-MHM-1430	7/8 JICM x 30mm MetHeavyM
	JIM-MHM-1724	1-1/16 JICM x 24mm MetHeavyM
	JIM-MHM-1730	1-1/16 JICM x 30mm MetHeavyM
	JIM-MHM-1736	1-1/16 JICM x 36mm MetHeavyM
	JIM-MHM-2136	1-5/16 JICM x 36mm MetHeavyM
	JIM-MHM-2142	1-5/16 JICM x 42mm MetHeavyM

M x M ADAPTORS		
JIC x METRIC LIGHT		
	PART NUMBER	DESCRIPTION
	JIM-MLM-0712	7/16 JICM x 12mm MetLightM
	JIM-MLM-0714	7/16 JICM x 14mm MetLightM
	JIM-MLM-0912	9/16 JICM x 12mm MetLightM
	JIM-MLM-0914	9/16 JICM x 14mm MetLightM
	JIM-MLM-0916	9/16 JICM x 16mm MetLightM
	JIM-MLM-0918	9/16 JICM x 18mm MetLightM
	JIM-MLM-1216	3/4 JICM x 16mm MetLightM
	JIM-MLM-1218	3/4 JICM x 18mm MetLightM
	JIM-MLM-1222	3/4 JICM x 22mm MetLightM
	JIM-MLM-1226	3/4 JICM x 26mm MetLightM
	JIM-MLM-1422	7/8 JICM x 22mm MetLightM
	JIM-MLM-1426	7/8 JICM x 26mm MetLightM
	JIM-MLM-1722	1-1/16 JICM x 22mm MetLightM
	JIM-MLM-1726	1-1/16 JICM x 26mm MetLightM
	JIM-MLM-1730	1-1/16 JICM x 30mm MetLightM
	JIM-MLM-2122	1-5/16 JICM x 22mm MetLightM
	JIM-MLM-2130	1-5/16 JICM x 30mm MetLightM
	JIM-MLM-2136	1-5/16 JICM x 36mm MetLightM

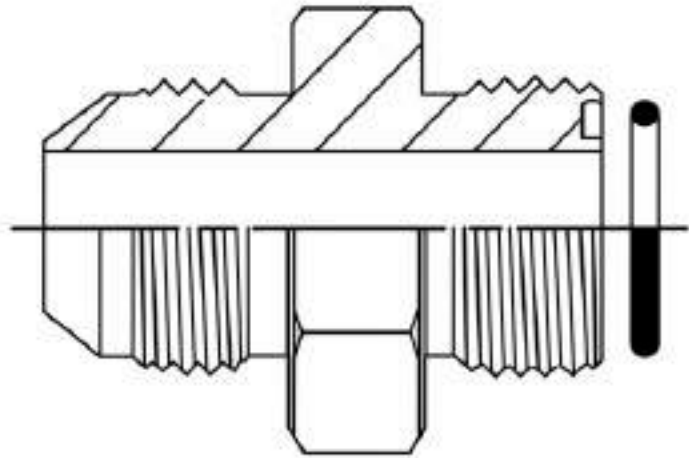
M x M ADAPTORS		
JIC x METRIC PORT		
	PART NUMBER	DESCRIPTION
	JIM-MSM-0612 x 1.5	3/8 JICM x M12 x 1.25 Stud
	JIM-MSM-0706	7/16 JICM x 6x1.0 MetStudM
	JIM-MSM-0708	7/16 JICM x 8x1.0 MetStudM
	JIM-MSM-0708 x 1.25	7/16 JICM x 8x1.25 MetStudM
	JIM-MSM-0710	7/16 JICM x 10x1.0 MetStudM
	JIM-MSM-0710 X 1.25	7/16 JICM x 10x1.25 MetStudM
	JIM-MSM-0710 X 1.5	7/16 JICM x 10x1.5 MetStudM
	JIM-MSM-0712	7/16 JICM x 12x1.5 MetStudM
	JIM-MSM-0712 x 1.0	7/16 JICM x 12x1.0 MetStudM
	JIM-MSM-0712 x 1.25	7/16 JICM x 12x1.25 MetStudM
	JIM-MSM-0714	7/16 JICM x 14x1.5 MetStudM
	JIM-MSM-0716	7/16 JICM x 16x1.5 MetStudM
	JIM-MSM-0718	7/16 JICM x 18x1.5 MetStudM
	JIM-MSM-0812	1/2 JICM x 12 X 1.5 MetStudM
	JIM-MSM-0910	9/16 JICM x 10x1.0 MetStudM
	JIM-MSM-0912	9/16 JICM x 12x1.5 MetStudM
	JIM-MSM-0912 x 1.25	9/16 JICM x 12x1.25 MetStudM
	JIM-MSM-0914	9/16 JICM x 14x1.5 MetStudM
	JIM-MSM-0916	9/16 JICM x 16x1.5 MetStudM
	JIM-MSM-0918	9/16 JICM x 18x1.5 MetStudM
	JIM-MSM-0920	9/16 JICM x 20x1.5 MetStudM
	JIM-MSM-0922	9/16 JICM x 22x1.5 MetStudM
	JIM-MSM-0930	9/16 JICM x 30x2.0 MetStudM
	JIM-MSM-1212	3/4 JICM x 12x1.5 MetStudM
	JIM-MSM-1214	3/4 JICM x 14x1.5 MetStudM
	JIM-MSM-1216	3/4 JICM x 16x1.5 MetStudM
	JIM-MSM-1218	3/4 JICM x 18x1.5 MetStudM
	JIM-MSM-1220	3/4 JICM x 20x1.5 MetStudM
	JIM-MSM-1222	3/4 JICM x 22x1.5 MetStudM
	JIM-MSM-1226	3/4 JICM x 26x1.5 MetStudM
	JIM-MSM-1414	7/8 JICM x 14x1.5 MetStudM
	JIM-MSM-1416	7/8 JICM x 16x1.5 MetStudM
	JIM-MSM-1418	7/8 JICM x 18x1.5 MetStudM
	JIM-MSM-1420	7/8 JICM x 20x1.5 MetStudM
	JIM-MSM-1422	7/8 JICM x 22x1.5 MetStudM

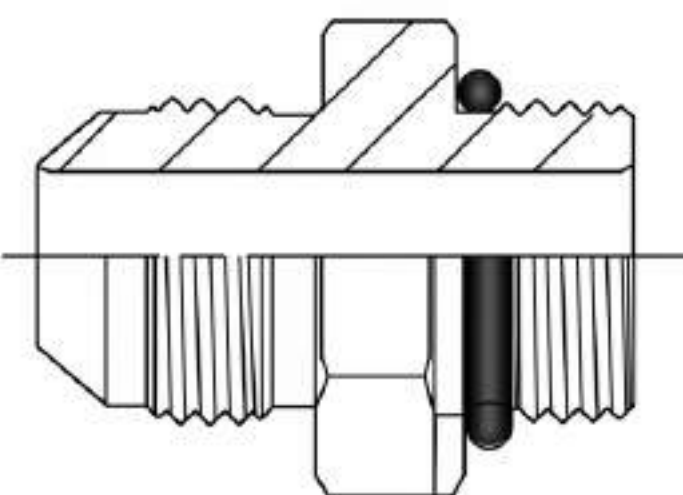


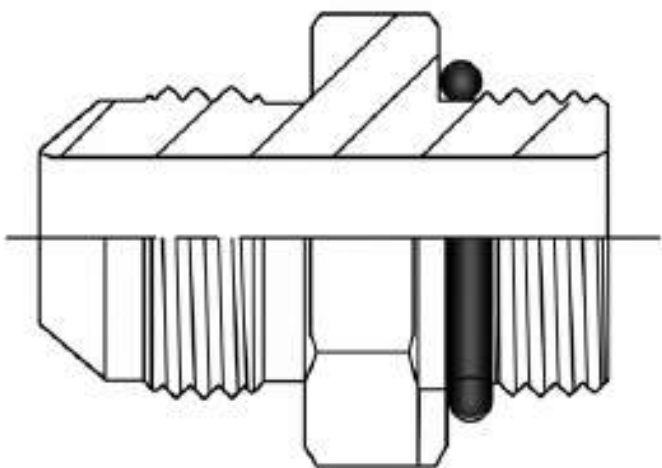
	JIM-MSM-1430	7/8 JICM x 30x2.0 MetStudM
	JIM-MSM-1718	1-1/16 JICM x 18x1.5 MetStudM
	JIM-MSM-1720	1-1/16 JICM x 20x1.5 MetStudM
	JIM-MSM-1722	1-1/16 JICM x 22x1.5 MetStudM
	JIM-MSM-1724	1-1/16 JICM x 24x1.5 MetStudM
	JIM-MSM-1726	1-1/16 JICM x 26x1.5 MetStudM
	JIM-MSM-1727	1-1/16 JICM x 27x2.0 MetStudM
	JIM-MSM-1728	1-1/16 JICM x 28x1.5 MetStudM
	JIM-MSM-1730	1-1/16 JICM x 30x2.0 MetStudM
	JIM-MSM-1730 X 1.5	1-1/16 JICM x 30x1.5 MetStudM
	JIM-MSM-1733	1-1/16 JICM x 33x2.0 MetStudM
	JIM-MSM-1736	1-1/16 JICM x 36x2.0 MetStudM
	JIM-MSM-2122	1-5/16 JICM x 22x1.5 MetStudM
	JIM-MSM-2126	1-5/16 JICM x 26x1.5 MetStudM
	JIM-MSM-2127	1-5/16 JICM x 27x2.0 MetStudM
	JIM-MSM-2130	1-5/16 JICM x 30x2.0 MetStudM
	JIM-MSM-2133	1-5/16 JICM x 33x2.0 MetStudM
	JIM-MSM-2142	1-5/16 JICM x 42x2.0 MetStudM
	JIM-MSM-2642	1-5/8 JICM x 42x2.0 MetStudM
	JIM-MSM-3048	1-7/8 JICM x 48x2.0 MetStudM

M x M ADAPTORS

JIC x ORFS

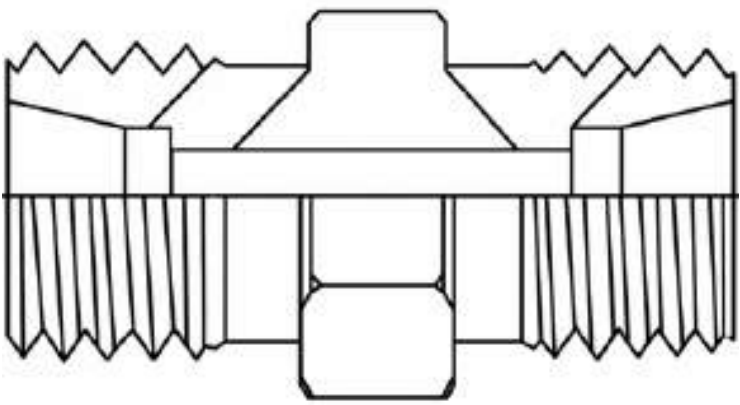
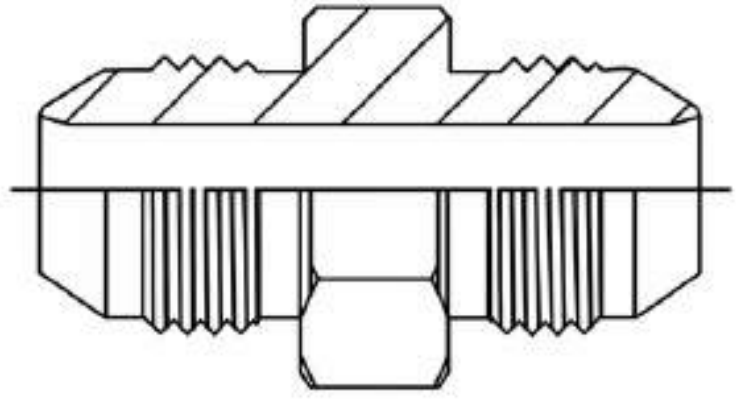
	PART NUMBER	DESCRIPTION
	JIM-ORM-0709	7/16 JICM x 9/16 ORFS M
	JIM-ORM-0711	7/16 JICM x 11/16 ORFS M
	JIM-ORM-0911	9/16 JICM x 11/16 ORFS M
	JIM-ORM-1213	3/4 JICM x 13/16 ORFS M
	JIM-ORM-1413	7/8 JICM x 13/16 ORFS M
	JIM-ORM-1416	7/8 JICM x 1-0 ORFS M
	JIM-ORM-1719	1-1/16 JICM x 1-3/16 ORFS M
	JIM-ORM-2123	1-5/16 JICM x 1-7/16 ORFS M
	JIM-ORM-2627	1-5/8 JICM x 1-11/16 ORFS M

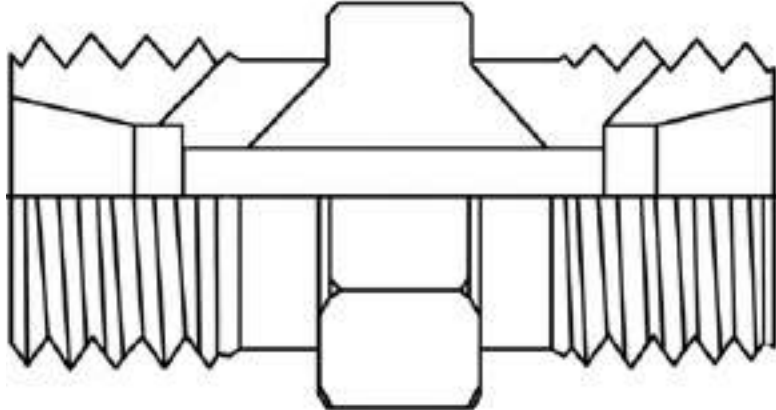
M x M ADAPTORS		
JIC x UNO		
	PART NUMBER	DESCRIPTION
	JIM-UNM-0707	7/16 JICM x 7/16 UNOM
	JIM-UNM-0708	7/16 JICM x 1/2 UNO M
	JIM-UNM-0709	7/16 JICM x 9/16 UNO M
	JIM-UNM-0712	7/16 JICM x 3/4 UNO M
	JIM-UNM-0807	1/2 JICM x 7/16 UNO M
	JIM-UNM-0808	1/2 JICM x 1/2 UNO M
	JIM-UNM-0809	1/2 JICM x 9/16 UNO M
	JIM-UNM-0907	9/16 JICM x 7/16 UNO M
	JIM-UNM-0908	9/16 JICM x 1/2 UNO M
	JIM-UNM-0909	9/16 JICM x 9/16 UNO M
	JIM-UNM-0910	9/16 JICM x 5/8 UNO M
	JIM-UNM-0912	9/16 JICM x 3/4 UNO M
	JIM-UNM-0914	9/16 JICM x 7/8 UNO M
	JIM-UNM-0917	9/16 JICM x 1-1/16 UNO M
	JIM-UNM-0921	9/16 JICM x 1-5/16 UNO M
	JIM-UNM-1207	3/4 JICM x 7/16 UNO M
	JIM-UNM-1208	3/4 JICM x 1/2 UNO M
	JIM-UNM-1209	3/4 JICM x 9/16 UNO M
	JIM-UNM-1212	3/4 JICM x 3/4 UNO M
	JIM-UNM-1214	3/4 JICM x 7/8 UNO M
	JIM-UNM-1217	3/4 JICM x 1-1/16 UNO M
	JIM-UNM-1219	3/4 JICM x 1-3/16 UNO M
	JIM-UNM-1221	3/4 JICM x 1-5/16 UNO M
	JIM-UNM-1409	7/8 JICM x 9/16 UNO M
	JIM-UNM-1412	7/8 JICM x 3/4 UNO M
	JIM-UNM-1414	7/8 JICM x 7/8 UNO M
	JIM-UNM-1417	7/8 JICM x 1-1/16 UNO M
	JIM-UNM-1419	7/8 JICM x 1-3/16 UNO M
	JIM-UNM-1421	7/8 JICM x 1-5/16 UNO M
	JIM-UNM-1712	1-1/16 JICM x 3/4 UNO M
	JIM-UNM-1714	1-1/16 JICM x 7/8 UNO M
	JIM-UNM-1717	1-1/16 JICM x 1-1/16 UNO M
	JIM-UNM-1719	1-1/16 JICM x 1-3/16 UNO M
	JIM-UNM-1721	1-1/16 JICM x 1-5/16 UNO M
	JIM-UNM-1726	1-1/16 JICM x 1-5/8 UNO M
	JIM-UNM-1919	1-3/16 JICM x 1-3/16 UNO M



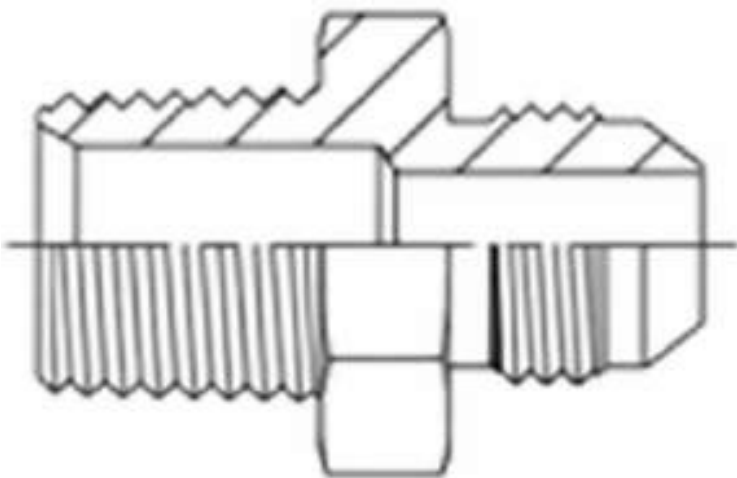
JIM-UNM-1921	1-3/16 JICM x 1-5/16 UNO M
JIM-UNM-2112	1-5/16 JICM x 3/4 UNO M
JIM-UNM-2114	1-5/16 JICM x 7/8 UNO M
JIM-UNM-2117	1-5/16 JICM x 1-1/16 UNO M
JIM-UNM-2119	1-5/16 JICM x 1-3/16 UNO M
JIM-UNM-2121	1-5/16 JICM x 1-5/16 UNO M
JIM-UNM-2126	1-5/16 JICM x 1-5/8 UNO M
JIM-UNM-2130	1-5/16 JICM x 1-7/8 UNO M
JIM-UNM-2617	1-5/8 JICM x 1-1/16 UNO M
JIM-UNM-2621	1-5/8 JICM x 1-5/16 UNO M
JIM-UNM-2626	1-5/8 JICM x 1-5/8 UNO M
JIM-UNM-2630	1-5/8 JICM x 1-7/8 UNO M
JIM-UNM-3026	1-7/8 JICM x 1-5/8 UNO M
JIM-UNM-3030	1-7/8 JICM x 1-7/8 UNO M
JIM-UNM-3040	1-7/8 JICM x 2-1/2 UNO M
JIM-UNM-4030	2-1/2 JICM x 1-7/8 UNO M
JIM-UNM-4040	2 1/2 JICM x 2 1/2 UNO M

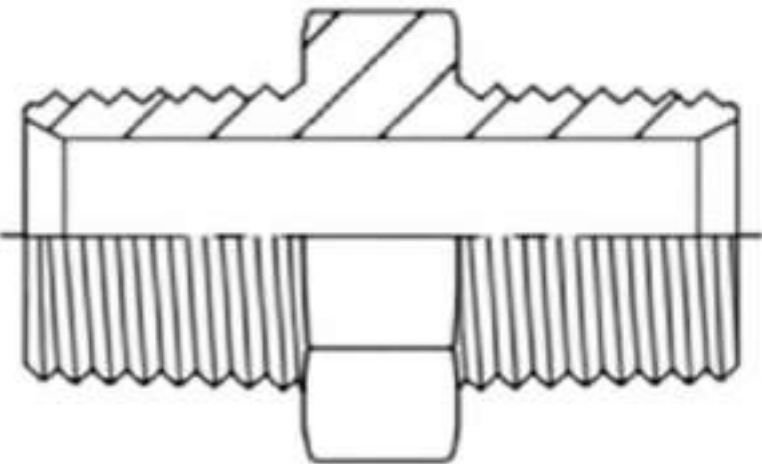
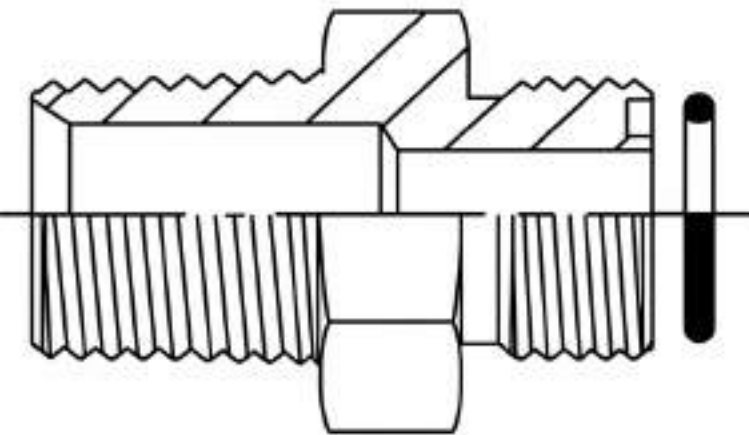


M x M ADAPTORS		
METRIC HEAVY NIPPLE		
	PART NUMBER	DESCRIPTION
	MHM-MHM-1414	14x1.5 MHM x 14x1.5 MHM
	MHM-MHM-1416	14x1.5 MHM x 16x1.5 MHM
	MHM-MHM-1418	14x1.5 MHM x 18x1.5 MHM
	MHM-MHM-1420	14x1.5 MHM x 20x1.5 MHM
	MHM-MHM-1616	16x1.5 MHM x 16x1.5 MHM
	MHM-MHM-1618	16x1.5 MHM x 18x1.5 MHM
	MHM-MHM-1620	16x1.5 MHM x 20x1.5 MHM
	MHM-MHM-1818	18x1.5 MHM x 18x1.5 MHM
	MHM-MHM-1820	18x1.5 MHM x 20x1.5 MHM
	MHM-MHM-1822	18x1.5 MHM x 22x1.5 MHM
	MHM-MHM-1830	18x1.5 MHM x 30x2.0 MHM
	MHM-MHM-2020	20x1.5 MHM x 20x1.5 MHM
	MHM-MHM-2022	20x1.5 MHM x 22x1.5 MHM
	MHM-MHM-2024	20x1.5 MHM x 24x1.5 MHM
	MHM-MHM-2030	20x1.5 MHM x 30x2.0 MHM
	MHM-MHM-2222	22x1.5 MHM x 22x1.5 MHM
	MHM-MHM-2224	22x1.5 MHM x 24x1.5 MHM
	MHM-MHM-2424	24x1.5 MHM x 24x1.5 MHM
	MHM-MHM-2430	24x1.5 MHM x 30x2.0 MHM
	MHM-MHM-2436	24x1.5 MHM x 36x2.0 MHM
	MHM-MHM-3030	30x2.0 MHM x 30x2.0 MHM
	MHM-MHM-3036	30x2.0 MHM x 36x2.0 MHM
	MHM-MHM-3042	30x2.0 MHM x 42x2.0 MHM
	MHM-MHM-3636	36x2.0 MHM x 36x2.0 MHM
	MHM-MHM-3642	36x2.0 MHM x 42x2.0 MHM
	MHM-MHM-4242	42x2.0 MHM x 42x2.0 MHM
	MHM-MHM-4252	42x2.0 MHM x 52x2.0 MHM
	MHM-MHM-5252	52x2.0 MHM x 52x2.0 MHM
M x M ADAPTORS		
KOMATSU NIPPLE		
	PART NUMBER	DESCRIPTION
	MKM-MKM-1212	12x1.5mm Metric Komatsu Nipple
	MKM-MKM-1414	14x1.5mm Metric Komatsu Nipple
	MKM-MKM-1616	16x1.5mm Metric Komatsu Nipple
	MKM-MKM-1818	18x1.5mm Metric Komatsu Nipple
	MKM-MKM-2020	20x1.5mm Metric Komatsu Nipple
	MKM-MKM-2222	22x1.5mm Metric Komatsu Nipple
	MKM-MKM-2424	24x1.5mm Metric Komatsu Nipple
	MKM-MKM-2626	26x1.5mm Metric Komatsu Nipple
	MKM-MKM-3030	30x1.5mm Metric Komatsu Nipple
	MKM-MKM-3333	33x1.5mm Metric Komatsu Nipple

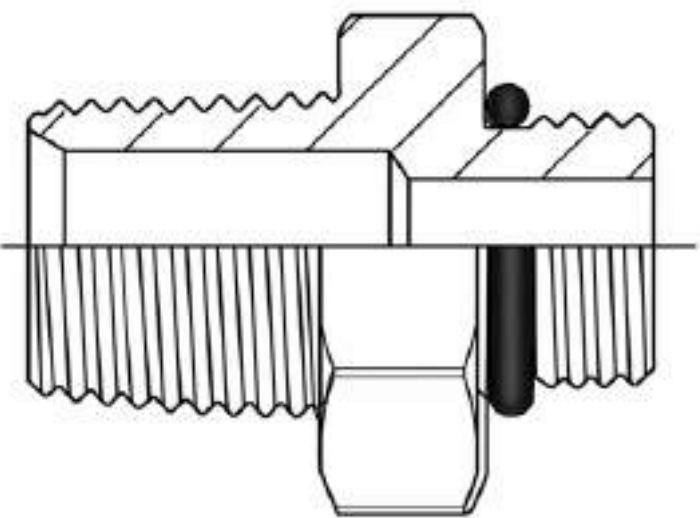
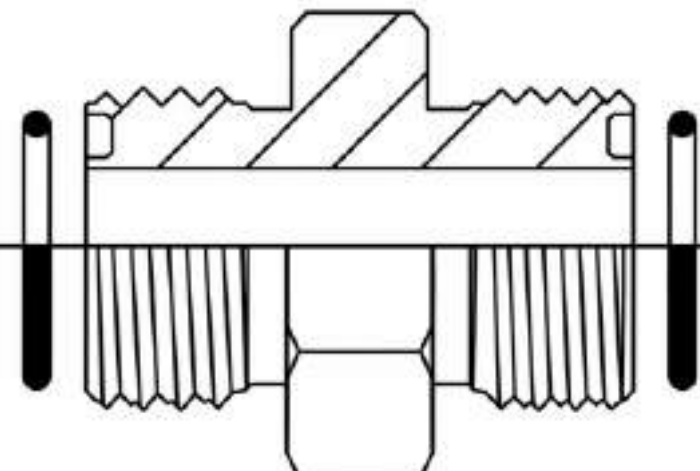
M x M ADAPTORS		
METRIC LIGHT NIPPLE		
	PART NUMBER	DESCRIPTION
	MLLM-MLLM-0808	8x1.0 MLLM x 8x1.0 MLLM
	MLLM-MLLM-1010	10x1.0 MLLM x 10x1.0 MLLM
	MLLM-MLLM-1212	12x1.0 MLLM x 12x1.0 MLLM
	MLM-MLM-1212	12x1.5 MLM x 12x1.5 MLM
	MLM-MLM-1214	12x1.5 MLM x 14x1.5 MLM
	MLM-MLM-1216	12x1.5 MLM x 16x1.5 MLM
	MLM-MLM-1218	12x1.5 MLM x 18x1.5 MLM
	MLM-MLM-1414	14x1.5 MLM x 14x1.5 MLM
	MLM-MLM-1416	14x1.5 MLM x 16x1.5 MLM
	MLM-MLM-1418	14x1.5 MLM x 18x1.5 MLM
	MLM-MLM-1616	16x1.5 MLM x 16x1.5 MLM
	MLM-MLM-1618	16x1.5 MLM x 18x1.5 MLM
	MLM-MLM-1622	16x1.5 MLM x 22x1.5 MLM
	MLM-MLM-1626	16x1.5 MLM x 26x1.5 MLM
	MLM-MLM-1818	18x1.5 MLM x 18x1.5 MLM
	MLM-MLM-1822	18x1.5 MLM x 22x1.5 MLM
	MLM-MLM-1826	18x1.5 MLM x 26x1.5 MLM
	MLM-MLM-2222	22x1.5 MLM x 22x1.5 MLM
	MLM-MLM-2226	22x1.5 MLM x 26x1.5 MLM
	MLM-MLM-2230	22x1.5 MLM x 30x2.0 MLM
	MLM-MLM-2626	26x1.5 MLM x 26x1.5 MLM
	MLM-MLM-2630	26x1.5 MLM x 30x2.0 MLM
	MLM-MLM-2636	26x1.5 MLM x 36x2.0 MLM
	MLM-MLM-3030	30x2.0 MLM x 30x2.0 MLM
	MLM-MLM-3036	30x2.0 MLM x 36x2.0 MLM
	MLM-MLM-3045	30x2.0 MLM x 45x2.0 MLM
	MLM-MLM-3636	36x2.0 MLM x 36x2.0 MLM
	MLM-MLM-3645	36x2.0 MLM x 45x2.0 MLM
	MLM-MLM-4545	45x2.0 MLM x 45x2.0 MLM
	MLM-MLM-5252	52x2.0 MLM x 52x2.0 MLM

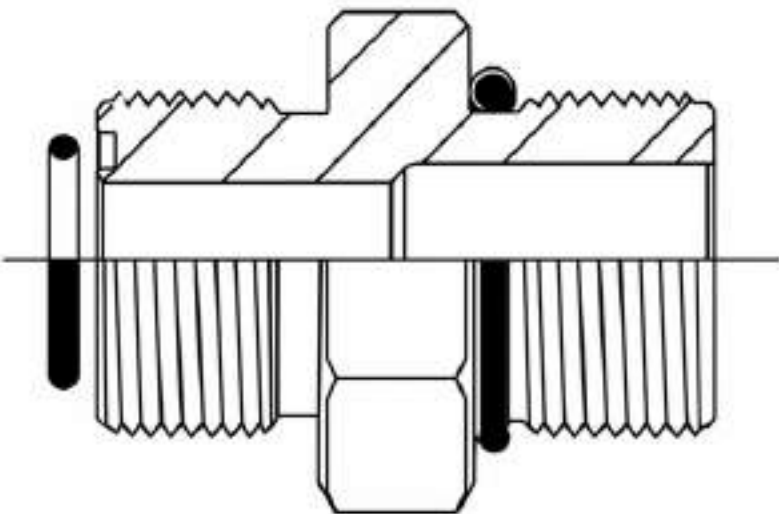
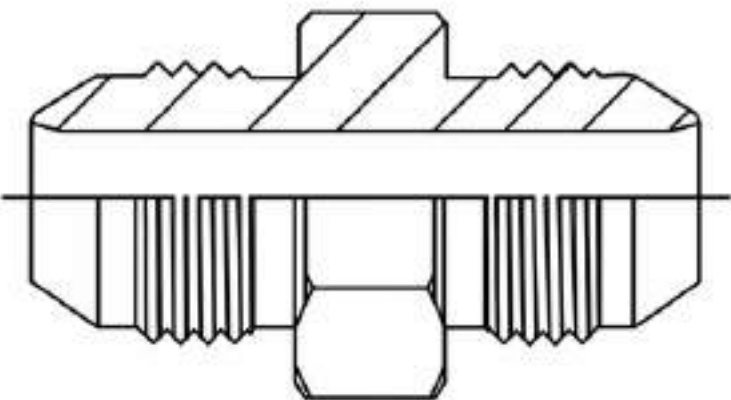


M x M ADAPTORS		
NPT x JIC		
	PART NUMBER	DESCRIPTION
	NTM-JIM-0207	1/8 NPTM x 7/16 JICM
	NTM-JIM-0207 E46	1/8 NPTM x 7/16 JICM 46mm OA
	NTM-JIM-0207 E65	1/8 NPTM x 7/16 JICM 65mm OA
	NTM-JIM-0208	1/8 NPTM x 1/2 JICM
	NTM-JIM-0209	1/8 NPTM x 9/16 JICM
	NTM-JIM-0406	1/4 NPTM x 3/8 JICM
	NTM-JIM-0407	1/4 NPTM x 7/16 JICM
	NTM-JIM-0407 E57	1/4 NPTM x 7/16 JICM 57mm OA
	NTM-JIM-0407 E76	1/4 NPTM x 7/16 JICM 76mm OA
	NTM-JIM-0408	1/4 NPTM x 1/2 JICM
	NTM-JIM-0409	1/4 NPTM x 9/16 JICM
	NTM-JIM-0412	1/4 NPTM x 3/4 JICM
	NTM-JIM-0414	1/4 NPTM x 7/8 JIM M
	NTM-JIM-0607	3/8 NPTM x 7/16 JICM
	NTM-JIM-0608	3/8 NPTM x 1/2 JICM
	NTM-JIM-0609	3/8 NPTM x 9/16 JICM
	NTM-JIM-0609 E102	3/8 NPTM x 9/16 JICM 102mm OA
	NTM-JIM-0612	3/8 NPTM x 3/4 JICM
	NTM-JIM-0614	3/8 NPTM x 7/8 JICM
	NTM-JIM-0617	3/8 NPTM x 1-1/16 JICM
	NTM-JIM-0807	1/2 NPTM x 7/16 JICM
	NTM-JIM-0809	1/2 NPTM x 9/16 JICM
	NTM-JIM-0812	1/2 NPTM x 3/4 JICM
	NTM-JIM-0814	1/2 NPTM x 7/8 JICM
	NTM-JIM-0817	1/2 NPTM x 1-1/16 JICM
	NTM-JIM-0821	1/2 NPTM x 1-5/16 JICM
	NTM-JIM-1207	3/4 NPTM x 7/16 JICM
	NTM-JIM-1209	3/4 NPTM x 9/16 JICM
	NTM-JIM-1212	3/4 NPTM x 3/4 JICM
	NTM-JIM-1214	3/4 NPTM x 7/8 JICM
	NTM-JIM-1217	3/4 NPTM x 1-1/16 JICM
	NTM-JIM-1219	3/4 NPTM x 1-3/16 JICM
	NTM-JIM-1221	3/4 NPTM x 1-5/16 JICM
	NTM-JIM-1612	1-0 NPTM x 3/4 JICM
	NTM-JIM-1614	1-0 NPTM x 7/8 JICM
	NTM-JIM-1617	1-0 NPTM x 1-1/16 JICM
	NTM-JIM-1621	1-0 NPTM x 1-5/16 JICM
	NTM-JIM-1626	1-0 NPTM x 1-5/8 JICM
	NTM-JIM-2017	1-1/4 NPTM x 1-1/16 JICM
	NTM-JIM-2021	1-1/4 NPTM x 1-5/16 JICM
	NTM-JIM-2026	1-1/4 NPTM x 1-5/8 JICM
	NTM-JIM-2030	1-1/4 NPTM x 1-7/8 JICM
	NTM-JIM-2417	1-1/2 NPTM x 1-1/16 JICM
	NTM-JIM-2421	1-1/2 NPTM x 1-5/16 JICM
	NTM-JIM-2426	1-1/2 NPTM x 1-5/8 JICM
	NTM-JIM-2430	1-1/2 NPTM x 1-7/8 JICM
	NTM-JIM-2440	1-1/2 NPTM x 2-0 JICM
	NTM-JIM-3226	2-0 NPTM x 1-5/8 JICM
	NTM-JIM-3230	2-0 NPTM x 1-7/8 JICM
	NTM-JIM-3240	2-0 NPTM x 2-1/2 JICM

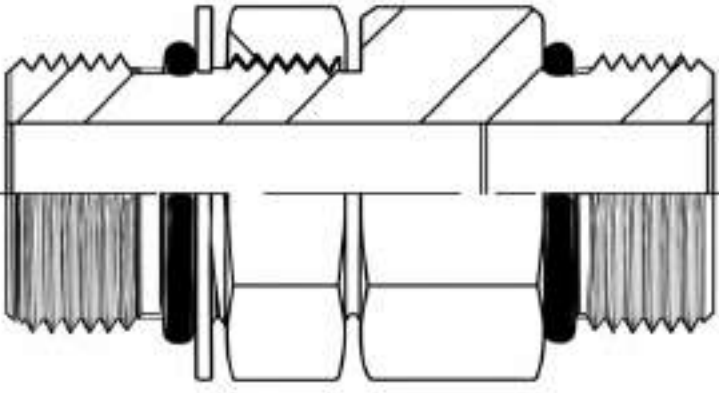
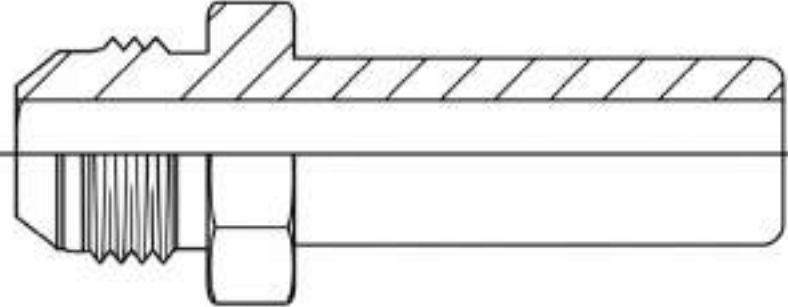
M x M ADAPTORS		
NPT NIPPLE		
	PART NUMBER	DESCRIPTION
	NTM-NTM-0202	1/8 NPTM x 1/8 NPTM
	NTM-NTM-0204	1/8 NPTM x 1/4 NPTM
	NTM-NTM-0206	1/8 NPTM x 3/8 NPTM
	NTM-NTM-0404	1/4 NPTM x 1/4 NPTM
	NTM-NTM-0406	1/4 NPTM x 3/8 NPTM
	NTM-NTM-0408	1/4 NPTM x 1/2 NPTM
	NTM-NTM-0412	1/4 NPTM x 3/4 NPTM
	NTM-NTM-0606	3/8 NPTM x 3/8 NPTM
	NTM-NTM-0608	3/8 NPTM x 1/2 NPTM
	NTM-NTM-0612	3/8 NPTM x 3/4 NPTM
	NTM-NTM-0808	1/2 NPTM x 1/2 NPTM
	NTM-NTM-0812	1/2 NPTM x 3/4 NPTM
	NTM-NTM-0816	1/2 NPTM x 1-0 NPTM
	NTM-NTM-1212	3/4 NPTM x 3/4 NPTM
	NTM-NTM-1216	3/4 NPTM x 1-0 NPTM
	NTM-NTM-1220	3/4 NPTM x 1-1/4 NPTM
	NTM-NTM-1616	1-0 NPTM x 1-0 NPTM
	NTM-NTM-1620	1-0 NPTM x 1-1/4 NPTM
	NTM-NTM-1624	1-0 NPTM x 1-1/2 NPTM
	NTM-NTM-2020	1-1/4 NPTM x 1-1/4 NPTM
	NTM-NTM-2024	1-1/4 NPTM x 1-1/2 NPTM
	NTM-NTM-2424	1-1/2 NPTM x 1-1/2 NPTM
	NTM-NTM-2432	1-1/2 NPTM x 2-0 NPTM
	NTM-NTM-3232	2-0 NPTM x 2-0 NPTM
M x M ADAPTORS		
NPT x ORFS		
	PART NUMBER	DESCRIPTION
	NTM-ORM-0209	1/8 NPTM x 9/16 ORFS M
	NTM-ORM-0409	1/4 NPTM x 9/16 ORFS M
	NTM-ORM-0411	1/4 NPTM x 11/16 ORFS M
	NTM-ORM-0609	3/8 NPTM x 9/16 ORFS M
	NTM-ORM-0611	3/8 NPTM x 11/16 ORFS M
	NTM-ORM-0613	3/8 NPTM x 13/16 ORFS M
	NTM-ORM-0809	1/2 NPTM x 9/16 ORFS M
	NTM-ORM-0811	1/2 NPTM x 11/16 ORFS M
	NTM-ORM-0813	1/2 NPTM x 13/16 ORFS M
	NTM-ORM-0816	1/2 NPTM x 1-0 ORFS M
	NTM-ORM-0819	1/2 NPTM x 1-3/16 ORFS M
	NTM-ORM-1213	3/4 NPTM x 13/16 ORFS M
	NTM-ORM-1216	3/4 NPTM x 1-0 ORFS M
	NTM-ORM-1219	3/4 NPTM x 1-3/16 ORFS M
	NTM-ORM-1223	3/4 NPTM x 1-7/16 ORFS Male
	NTM-ORM-1619	1-0 NPTM x 1-1/16 ORFS M
	NTM-ORM-1623	1-0 NPTM x 1-7/16 ORFS M
	NTM-ORM-2027	1-1/4 NPTM x 1-11/16 ORFS M
	NTM-ORM-2432	1-1/2 NPTM x 2-0 ORFS M

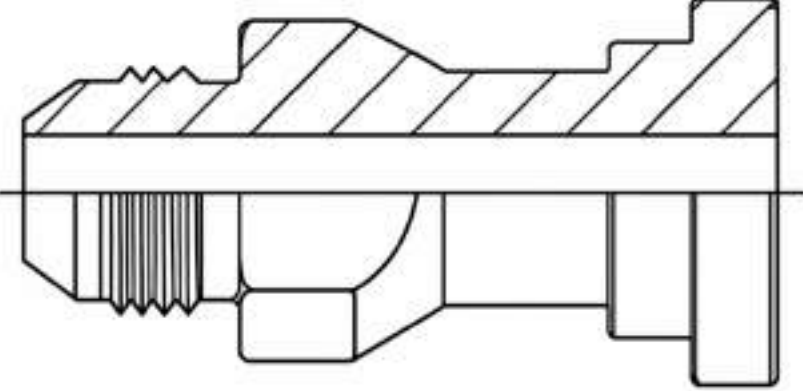
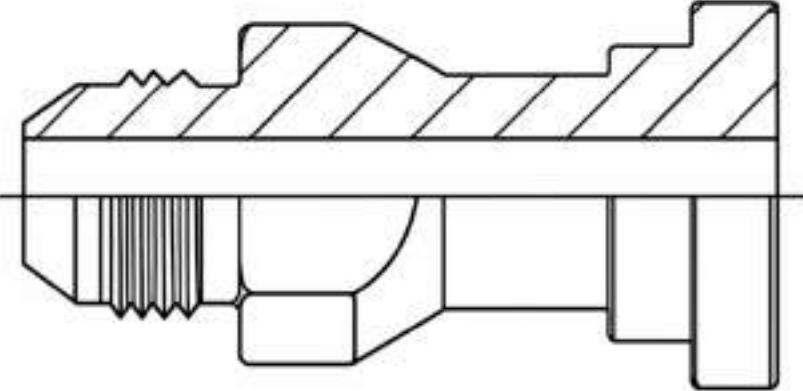


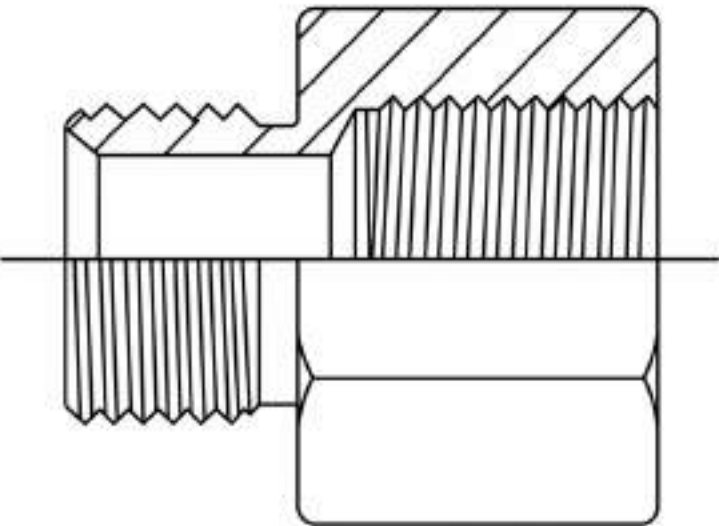
M x M ADAPTORS		
NPT x UNO		
	PART NUMBER	DESCRIPTION
	NTM-UNM-0207	1/8 NPTM x 7/16 UNO M
	NTM-UNM-0407	1/4 NPTM x 7/16 UNO M
	NTM-UNM-0409	1/4 NPTM x 9/16 UNO M
	NTM-UNM-0412	1/4 NPTM x 3/4 UNO M
	NTM-UNM-0609	3/8 NPTM x 9/16 UNO M
	NTM-UNM-0612	3/8 NPTM x 3/4 UNO M
	NTM-UNM-0614	3/8 NPTM x 7/8 UNO
	NTM-UNM-0812	1/2 NPTM x 3/4 UNO M
	NTM-UNM-0814	1/2 NPTM x 7/8 UNO M
	NTM-UNM-0817	1/2 NPTM x 1-1/16 UNO M
	NTM-UNM-1212	3/4 NPTM x 3/4 UNOMale
	NTM-UNM-1214	3/4 NPTM x 7/8 UNO Male
	NTM-UNM-1217	3/4 NPTM x 1-1/16 UNO M
	NTM-UNM-1219	3/4 NPTM x 1-3/16 UNO M
	NTM-UNM-1221	3/4 NPTM x 1-5/16 UNO Male
	NTM-UNM-1617	1-0 NPTM x 1-1/16 UNO Male
	NTM-UNM-1621	1 NPTM x 1-5/16 UNO M
	NTM-UNM-2026	1-1/4 NPTM x 1-5/8 UNO M
	NTM-UNM-2430	1-1/2 NPTM x 1-7/8 UNO Male
M x M ADAPTORS		
ORFS NIPPLE		
	PART NUMBER	DESCRIPTION
	ORM-ORM-0909	9/16 ORFS M x 9/16 ORFS M
	ORM-ORM-0911	9/16 ORFS M x 11/16 ORFS M
	ORM-ORM-1111	11/16 ORFS M x 11/16 ORFS M
	ORM-ORM-1113	11/16 ORFS M x 13/16 ORFS M
	ORM-ORM-1313	13/16 ORFS M x 13/16 ORFS M
	ORM-ORM-1316	13/16 ORFS M x 1-0 ORFS M
	ORM-ORM-1319	13/16 ORFS M x 1-3/16 ORFS M
	ORM-ORM-1616	1-0 ORFS M x 1-0 ORFS M
	ORM-ORM-1619	1-0 ORFS M x 1-3/16 ORFS M
	ORM-ORM-1919	1-3/16 ORFS M x 1-3/16 ORFS M
	ORM-ORM-1923	1-3/16 ORFS M x 1-7/16 ORFS M
	ORM-ORM-2323	1-7/16 ORFS M x 1-7/16 ORFS M
	ORM-ORM-2327	1-7/16 ORFS M x 1-11/16 ORFS M
	ORM-ORM-2727	1-11/16 ORFS M x 1-11/16 ORFSM
	ORM-ORM-2732	1-11/16 ORFS M x 2-0 ORFS M
	ORM-ORM-3232	2-0 ORFS M x 2-0 ORFS M

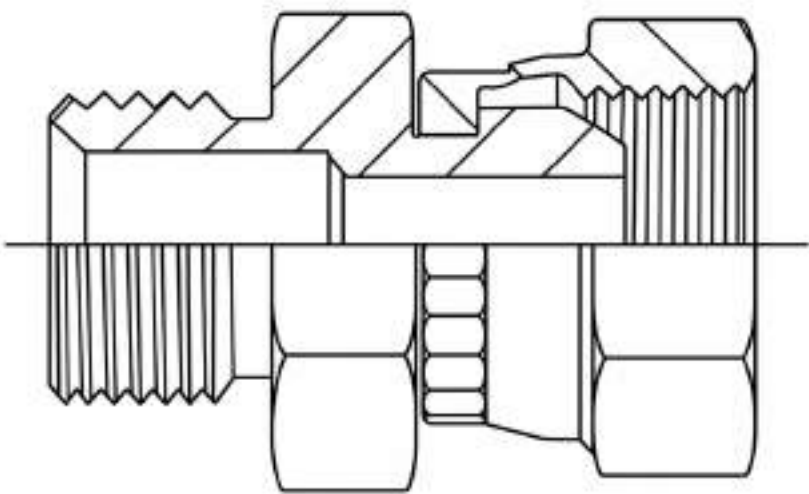
M x M ADAPTORS		
ORFS x UNO		
	PART NUMBER	DESCRIPTION
	ORM-UNM-0907	9/16 ORFS M x 7/16 UNO M
	ORM-UNM-0909	9/16 ORFS M x 9/16 UNO M
	ORM-UNM-0912	9/16 ORFS M x 3/4 UNO M
	ORM-UNM-1107	11/16 ORFS M x 7/16 UNO M
	ORM-UNM-1109	11/16 ORFS M x 9/16 UNO M
	ORM-UNM-1112	11/16 ORFS M x 3/4 UNO M
	ORM-UNM-1114	11/16 ORFS M x 7/8 UNO M
	ORM-UNM-1117	11/16 ORFS M x 1-1/16 UNO M
	ORM-UNM-1307	13/16 ORFS M x 7/16 UNO M
	ORM-UNM-1309	13/16 ORFS M x 9/16 UNO M
	ORM-UNM-1312	13/16 ORFS M x 3/4 UNO M
	ORM-UNM-1314	13/16 ORFS M x 7/8 UNO M
	ORM-UNM-1317	13/16 ORFS M x 1-1/16 UNO M
	ORM-UNM-1612	1-0 ORFS M x 3/4 UNO M
	ORM-UNM-1614	1-0 ORFS M x 7/8 UNO M
	ORM-UNM-1617	1-0 ORFS M x 1-1/16 UNO M
	ORM-UNM-1912	1-3/16 ORFS M x 3/4 UNO M
	ORM-UNM-1914	1-3/16 ORFS M x 7/8 UNO M
	ORM-UNM-1917	1-3/16 ORFS M x 1-1/16 UNO M
	ORM-UNM-1921	1-3/16 ORFS M x 1-5/16 UNO M
	ORM-UNM-2314	1-7/16 ORFS M x 7/8 UNO M
	ORM-UNM-2317	1-7/16 ORFS M x 1-1/16 UNO M
	ORM-UNM-2321	1-7/16 ORFS M x 1-5/16 UNO M
	ORM-UNM-2326	1-7/16 ORFS M x 1-5/8 UNO M
	ORM-UNM-2721	1-11/16 ORFS M x 1-5/16 UNO M
	ORM-UNM-2726	1-11/16 ORFS M x 1-5/8 UNO M
	ORM-UNM-2730	1-11/16 ORFS M x 1-7/8 UNO M
	ORM-UNM-3226	2-0 ORFS M x 1-5/8 UNO M
	ORM-UNM-3230	2-0 ORFS M x 1-7/8 UNO M
M x M ADAPTORS		
SAE NIPPLE		
	PART NUMBER	DESCRIPTION
	SAM-SAM-0509	5/16 SAE x 9/16 SAE
	SAM-SAM-0809	1/2 SAE M x 9/16 SAE M
	SAM-SAM-1010	5/8 SAE M x 5/8 SAE M
	SAM-SAM-1717	1-1/16 SAE M x 1-1/16 SAE M

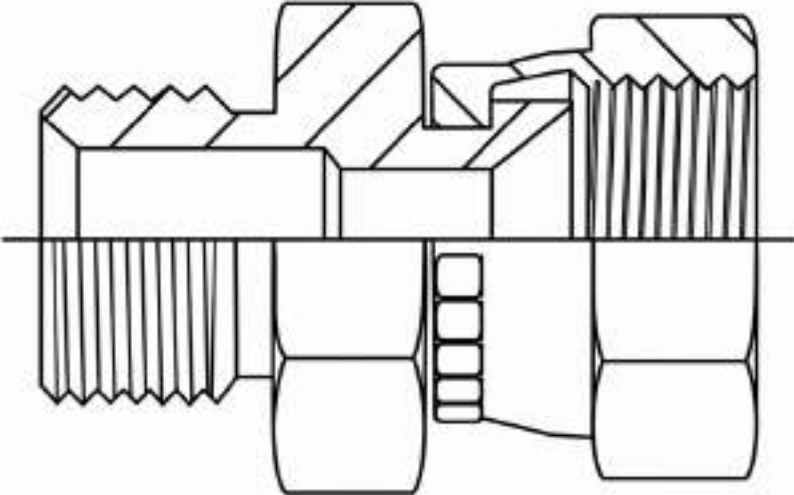


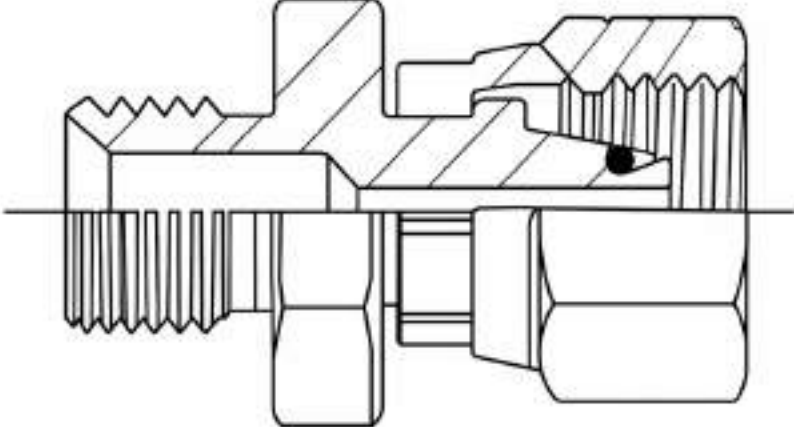
M x M ADAPTORS		
UNO NIPPLE		
	PART NUMBER	DESCRIPTION
	UNM-UNM-0707	7/16 UNO M x 7/16 UNO M
	UNM-UNM-0909	9/16 UNO M x 9/16 UNO M
	UNM-UNM-1212	3/4 UNO M x 3/4 UNO M
	UNM-UNM-1414	7/8 UNO M x 7/8 UNO M
	UNM-UNM-1717	1 1/16 UNO M x 1 1/16 UNO M
	UNM-UNM-2121	1 5/16 UNO M x 1 5/16 UNO M
	UNM-UNM-2626	1 5/8 UNO M x 1 5/8 UNO M
M x M ADAPTORS		
JIC x METRIC STANDPIPE		
	PART NUMBER	DESCRIPTION
	JIM-MSP-0706	7/16 JICM x 6mm Standpipe
	JIM-MSP-0708	7/16 JICM x 8mm Standpipe
	JIM-MSP-0908	9/16 JICM x 08mm Standpipe
	JIM-MSP-0910	9/16 JICM x 10mm Standpipe
	JIM-MSP-0912	9/16 JICM x 12mm Standpipe
	JIM-MSP-1210	3/4 JICM x 10mm Standpipe
	JIM-MSP-1212	3/4 JICM x 12mm Standpipe
	JIM-MSP-1214	3/4 JICM x 14mm Standpipe
	JIM-MSP-1414	7/8 JICM x 14mm Standpipe
	JIM-MSP-1415	7/8 JICM x 15mm Standpipe
	JIM-MSP-1416	7/8 JICM x 16mm Standpipe
	JIM-MSP-1716	1-1/16 JICM x 16mm Standpipe
	JIM-MSP-1718	1-1/16 JICM x 18mm Standpipe
	JIM-MSP-1720	1-1/16 JICM x 20mm Standpipe
	JIM-MSP-1722	1-1/16 JICM x 22mm Standpipe
	JIM-MSP-1725	1-1/16 JIM x 25mm Standpipe
	JIM-MSP-2122	1-5/16 JICM x 22mm Standpipe
	JIM-MSP-2125	1-5/16 JICM x 25mm Standpipe
	JIM-MSP-2128	1-5/16 JICM x 25mm Standpipe
	JIM-MTM-0706	7/16 JICM x 06MetricTaper Male
	JIM-MTM-0706 E60	7/16 JICM x 06MetTaperMale E60
	JIM-MTM-0708	7/16 JICM x 08MetricTaper Male

M x M ADAPTORS		
JIC x F61		
	PART NUMBER	DESCRIPTION
	JIM-F61-1208	3/4 JICM x 1/2 F61 Flange
	JIM-F61-1212	3/4 JICM x 3/4 F61 Flange
	JIM-F61-1412	7/8 JICM x 3/4 F61 Flange
	JIM-F61-1416	7/8 JICM x 1-0 F61 Flange
	JIM-F61-1712	1-1/16 JICM x 3/4 F61 Flange
	JIM-F61-1716	1-1/16 JICM x 1-0 F61 Flange
	JIM-F61-1720	1-1/16 JICM x 1-1/4 F61 Flange
	JIM-F61-1916	1-3/16 JICM x 1-0 F61 Flange
	JIM-F61-2112	1-5/16 JICM x 3/4 F61 Flange
	JIM-F61-2116	1-5/16 JICM x 1-0 F61 Flange
	JIM-F61-2120	1-5/16 JICM x 1-1/4 F61 Flange
	JIM-F61-2124	1-5/16 JICM x 1-1/2 F61 Flange
	JIM-F61-2132	1-5/16 JICM x 2-0 F61 Flange
	JIM-F61-2616	1-5/8 JICM x 1-0 F61 Flange
	JIM-F61-2620	1-5/8 JICM x 1-1/4 F61 Flange
	JIM-F61-2624	1-5/8 JICM x 1-1/2 F61 Flange
	JIM-F61-2632	1-5/8 JICM x 2-0 F61 Flange
	JIM-F61-3020	1-7/8 JICM x 1-1/4 F61 Flange
	JIM-F61-3024	1-7/8 JICM x 1-1/2 F61 Flange
	JIM-F61-3032	1-7/8 JICM x 2-0 F61 Flange
	JIM-F61-4024	2-1/2 JICM x 1-1/2 F61 Flange
	JIM-F61-4032	2-1/2 JICM x 2-0 F61 Flange
M x M ADAPTORS		
JIC x F62		
	PART NUMBER	DESCRIPTION
	JIM-F62-1208	3/4 JICM x 1/2 F62 Flange
	JIM-F62-1212	3/4 JICM x 3/4 F62 Flange
	JIM-F62-1712	1-1/16 JICM x 3/4 F62 Flange
	JIM-F62-1716	1-1/16 JICM x 1-0 F62 Flange
	JIM-F62-1916	1-3/16 JICM x 1-0 F62 Flange
	JIM-F62-2112	1-5/16 JICM x 3/4 F62 Flange
	JIM-F62-2116	1-5/16 JICM x 1-0 F62 Flange
	JIM-F62-2120	1-5/16 JICM x 1-1/4 F62 Flange
	JIM-F62-2124	1-5/16 JICM x 1-1/2 F62 Flange
	JIM-F62-2616	1-5/8 JICM x 1-0 F62 Flange
	JIM-F62-2620	1-5/8 JICM x 1-1/4 F62 Flange
	JIM-F62-2624	1-5/8 JICM x 1-1/2 F62 Flange
	JIM-F62-3020	1-7/8 JICM x 1-1/4 F62 Flange
	JIM-F62-3024	1-7/8 JICM x 1-1/2 F62 Flange
	JIM-F62-3032	1-7/8 JICM x 2-0 F62 Flange
	JIM-F62-4024	2-1/2 JICM x 1-1/2 F62 Flange
	JIM-F62-4032	2-1/2 JICM x 2-0 F62 Flange

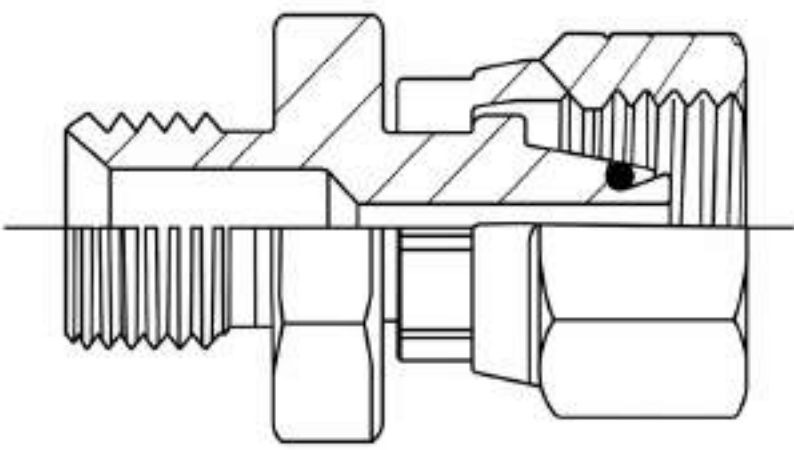
M x F ADAPTORS		
BSPP x BSPP		
	PART NUMBER	DESCRIPTION
	BPM-BPF-0202	1/8 BSPPM x 1/8 BSPPF
	BPM-BPF-0204	1/8 BSPPM x 1/4 BSPPF
	BPM-BPF-0402	1/4 BSPPM x 1/8 BSPPF
	BPM-BPF-0404	1/4 BSPPM x 1/4 BSPPF
	BPM-BPF-0406	1/4 BSPPM x 3/8 BSPPF
	BPM-BPF-0408	1/4 BSPPM x 1/2 BSPPF
	BPM-BPF-0602	3/8 BSPPM x 1/8 BSPPF
	BPM-BPF-0604	3/8 BSPPM x 1/4 BSPPF
	BPM-BPF-0606	3/8 BSPPM x 3/8 BSPPF
	BPM-BPF-0608	3/8 BSPPM x 1/2 BSPPF
	BPM-BPF-0612	3/8 BSPPM x 3/4 BSPPF
	BPM-BPF-0802	1/2 BSPPM x 1/8 BSPPF
	BPM-BPF-0804	1/2 BSPPM x 1/4 BSPPF
	BPM-BPF-0806	1/2 BSPPM x 3/8 BSPPF
	BPM-BPF-0808	1/2 BSPPM x 1/2 BSPPF
	BPM-BPF-0812	1/2 BSPPM x 3/4 BSPPF
	BPM-BPF-0816	1/2 BSPPM x 1-0 BSPPF
	BPM-BPF-1204	3/4 BSPPM x 1/4 BSPPF
	BPM-BPF-1206	3/4 BSPPM x 3/8 BSPPF
	BPM-BPF-1208	3/4 BSPPM x 1/2 BSPPF
	BPM-BPF-1212	3/4 BSPPM x 3/4 BSPPF
	BPM-BPF-1216	3/4 BSPPM x 1-0 BSPPF
	BPM-BPF-1220	3/4 BSPPM x 1-1/4 BSPPF
	BPM-BPF-1604	1-0 BSPPM x 1/4 BSPPF
	BPM-BPF-1606	1-0 BSPPM x 3/8 BSPPF
	BPM-BPF-1608	1-0 BSPPM x 1/2 BSPPF
	BPM-BPF-1612	1-0 BSPPM x 3/4 BSPPF
	BPM-BPF-1616	1-0 BSPPM x 1-0 BSPPF
	BPM-BPF-1620	1-0 BSPPM x 1-1/4 BSPPF
	BPM-BPF-2008	1-1/4 BSPPM x 1/2 BSPPF
	BPM-BPF-2012	1-1/4 BSPPM x 3/4 BSPPF
	BPM-BPF-2016	1-1/4 BSPPM x 1-0 BSPPF
	BPM-BPF-2020	1-1/4 BSPPM x 1-1/4 BSPPF
	BPM-BPF-2412	1-1/2 BSPPM x 3/4 BSPPF
	BPM-BPF-2416	1-1/2 BSPPM x 1-0 BSPPF
	BPM-BPF-2420	1-1/2 BSPPM x 1-1/4 BSPPF
	BPM-BPF-3212	2-0 BSPPM x 3/4 BSPPF
	BPM-BPF-3216	2-0 BSPPM x 1-0 BSPPF
	BPM-BPF-3220	2-0 BSPPM x 1-1/4 BSPPF
	BPM-BPF-3224	2-0 BSPPM x 1-1/2 BSPPF

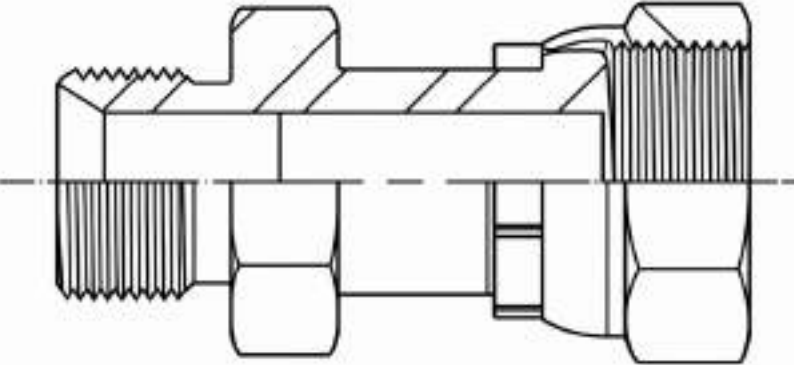
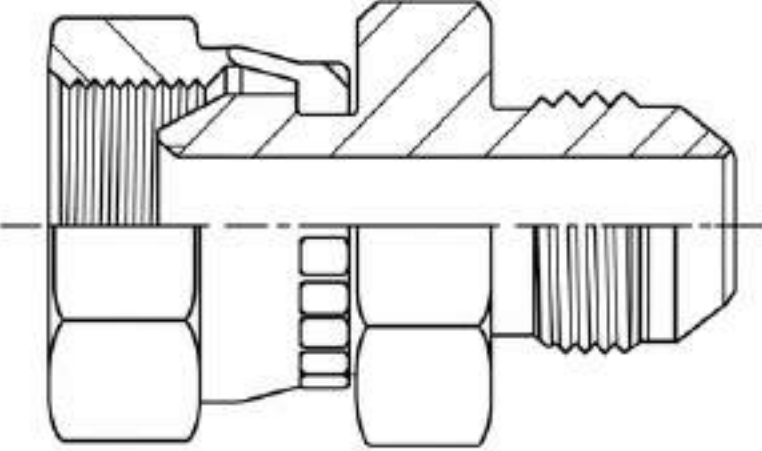
M x F ADAPTORS		
BSPP x BSPP SWIVEL		
	PART NUMBER	DESCRIPTION
	BPM-BSF-0202	1/8 BSPPM x 1/8 BSPFS
	BPM-BSF-0204	1/8 BSPPM x 1/4 BSPFS
	BPM-BSF-0402	1/4 BSPPM x 1/8 BSPFS
	BPM-BSF-0404	1/4 BSPPM x 1/4 BSPFS
	BPM-BSF-0406	1/4 BSPPM x 3/8 BSPFS
	BPM-BSF-0604	3/8 BSPPM x 1/4 BSPFS
	BPM-BSF-0606	3/8 BSPPM x 3/8 BSPFS
	BPM-BSF-0608	3/8 BSPPM x 1/2 BSPFS
	BPM-BSF-0612	3/8 BSPPM x 3/4 BSPFS
	BPM-BSF-0806	1/2 BSPPM x 3/8 BSPFS
	BPM-BSF-0808	1/2 BSPPM x 1/2 BSPFS
	BPM-BSF-0812	1/2 BSPPM x 3/4 BSPFS
	BPM-BSF-0816	1/2 BSPPM x 1-0 BSPFS
	BPM-BSF-0820	1/2 BSPPM x 1-1/4 BSPFS
	BPM-BSF-1208	3/4 BSPPM x 1/2 BSPFS
	BPM-BSF-1212	3/4 BSPPM x 3/4 BSPFS
	BPM-BSF-1216	3/4 BSPPM x 1-0 BSPFS
	BPM-BSF-1612	1-0 BSPPM x 3/4 BSPFS
	BPM-BSF-1616	1-0 BSPPM x 1-0 BSPFS
	BPM-BSF-1620	1-0 BSPPM x 1-1/4 BSPFS
	BPM-BSF-2020	1-1/4 BSPPM x 1-1/4 BSPFS
	BPM-BSF-2424	1-1/2 BSPPM x 1-1/2 BSPFS
	BPM-BSF-3232	2-0 BSPPM x 2-0 BSPFS

M x F ADAPTORS		
BSPP x JIC		
	PART NUMBER	DESCRIPTION
	BPM-JIF-0207	1/8 BSPPM x 7/16 JICFS
	BPM-JIF-0407	1/4 BSPPM x 7/16 JICFS
	BPM-JIF-0408	1/4 BSPPM x 1/2 JICFS
	BPM-JIF-0409	1/4 BSPPM x 9/16 JICFS
	BPM-JIF-0412	1/4 BSPPM x 3/4 JICFS
	BPM-JIF-0607	3/8 BSPPM x 7/16 JICFS
	BPM-JIF-0609	3/8 BSPPM x 9/16 JICFS
	BPM-JIF-0612	3/8 BSPPM x 3/4 JICFS
	BPM-JIF-0614	3/8 BSPPM x 7/8 JICFS
	BPM-JIF-0809	1/2 BSPPM x 9/16 JICFS
	BPM-JIF-0812	1/2 BSPPM x 3/4 JICFS
	BPM-JIF-0814	1/2 BSPPM x 7/8 JICFS
	BPM-JIF-0817	1/2 BSPPM x 1-1/16 JICFS
	BPM-JIF-1212	3/4 BSPPM x 3/4 JICFS
	BPM-JIF-1214	3/4 BSPPM x 7/8 JICFS
	BPM-JIF-1217	3/4 BSPPM x 1-1/16 JICFS
	BPM-JIF-1221	3/4 BSPPM x 1-5/16 JICFS
	BPM-JIF-1614	1-0 BSPPM x 7/8 JICFS
	BPM-JIF-1617	1-0 BSPPM x 1-1/16 JICFS
	BPM-JIF-1621	1-0 BSPPM x 1-5/16 JICFS
	BPM-JIF-1626	1-0 BSPPM x 1-5/8 JICFS
	BPM-JIF-2021	1-1/4 BSPPM x 1-5/16 JICFS
	BPM-JIF-2026	1-1/4 BSPPM x 1-5/8 JICFS
	BPM-JIF-2030	1-1/4 BSPPM x 1-7/8 JICFS
	BPM-JIF-2426	1-1/2 BSPPM x 1-5/8 JICFS
	BPM-JIF-2430	1-1/2 BSPPM x 1-7/8 JICFS
	BPM-JIF-2440	1-1/2 BSPPM x 2-1/2 JICFS
	BPM-JIF-3230	2-0 BSPPM x 1-7/8 JICFS
	BPM-JIF-3240	2-0 BSPPM x 2-1/2 JICFS

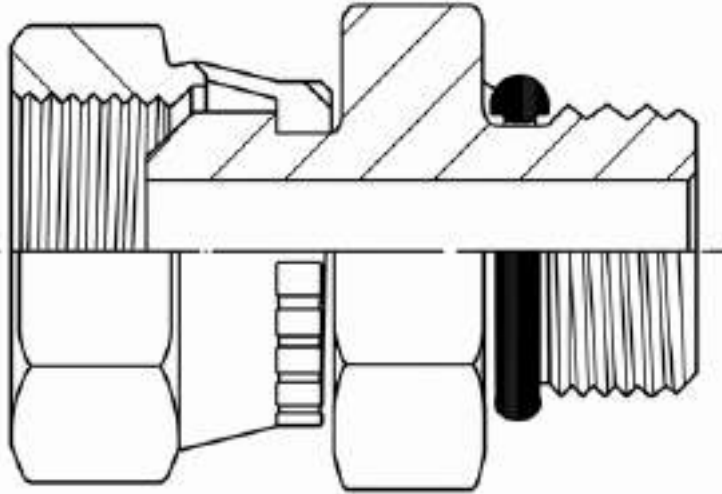
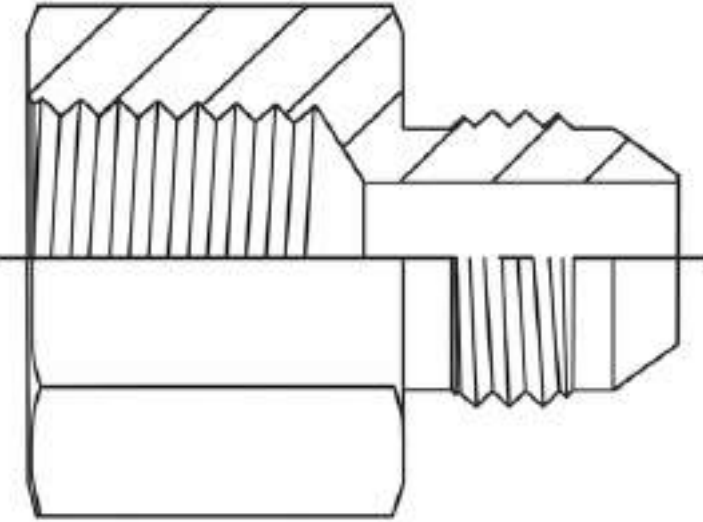
M x F ADAPTORS		
BSPP x METRIC HEAVY		
	PART NUMBER	DESCRIPTION
	BPM-MHF-0214	1/8 BSPPM x 14x1.5 MHF
	BPM-MHF-0414	1/4 BSPPM x 14x1.5 MHF
	BPM-MHF-0416	1/4 BSPPM x 16x1.5 MHF
	BPM-MHF-0418	1/4 BSPPM x 18x1.5 MHF
	BPM-MHF-0420	1/4 BSPPM x 20x1.5 MHF
	BPM-MHF-0616	3/8 BSPPM x 16x1.5 MHF
	BPM-MHF-0618	3/8 BSPPM x 18x1.5 MHF
	BPM-MHF-0620	3/8 BSPPM x 20x1.5 MHF
	BPM-MHF-0622	3/8 BSPPM x 22x1.5 MHF
	BPM-MHF-0624	3/8 BSPPM x 24x1.5 MHF
	BPM-MHF-0818	1/2 BSPPM x 18x 1.5 MHF
	BPM-MHF-0820	1/2 BSPPM x 20x1.5 MHF
	BPM-MHF-0822	1/2 BSPPM x 22x1.5 MHF
	BPM-MHF-0824	1/2 BSPPM x 24x1.5 MHF
	BPM-MHF-0830	1/2 BSPPM x 30x2.0 MHF
	BPM-MHF-0836	1/2 BSPPM x 36x2.0 MHF
	BPM-MHF-1230	3/4 BSPPM x 30x2.0 MHF
	BPM-MHF-1236	3/4 BSPPM x 36x2.0 MHF
	BPM-MHF-1630	1-0 BSPPM x 30x2.0 MHF
	BPM-MHF-1636	1-0 BSPPM x 36x2.0 MHF
	BPM-MHF-1642	1-0 BSPPM x 42x2.0 MHF
	BPM-MHF-2036	1-1/4 BSPPM x 36x2.0 MHF
	BPM-MHF-2042	1-1/4 BSPPM x 42x2.0 MHF
	BPM-MHF-2052	1-1/4 BSPPM x 52x2.0 MHF
	BPM-MHF-2442	1-1/2 BSPPM x 42x2.0 MHF
	BPM-MHF-2452	1-1/2 BSPPM x 52x2.0 MHF

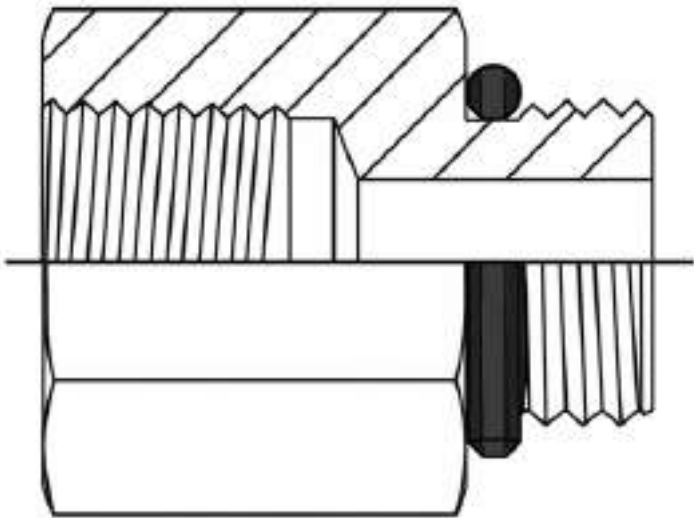
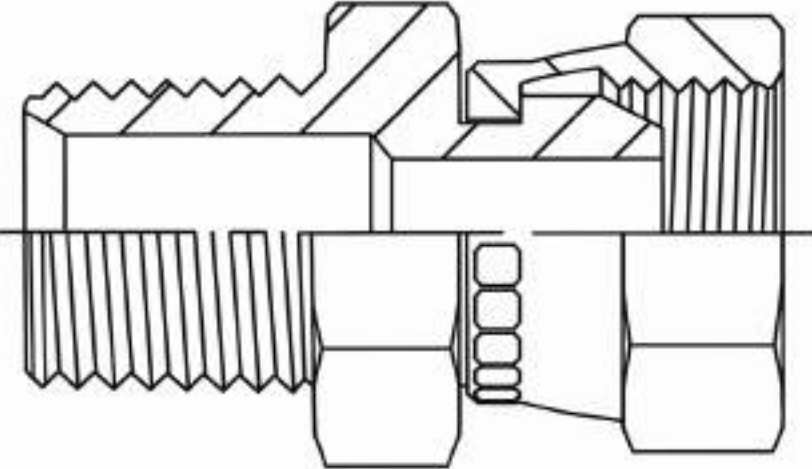


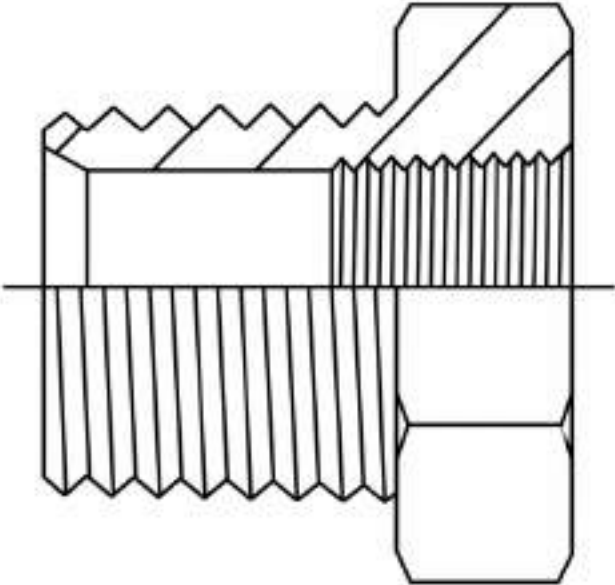
M x F ADAPTORS		
BSPP x METRIC LIGHT		
	PART NUMBER	DESCRIPTION
	BPM-MLF-0212	1/8 BSPPM x 12x1.5 MLF
	BPM-MLF-0412	1/4 BSPPM x 12x1.5 MLF
	BPM-MLF-0414	1/4 BSPPM x 14x1.5 MLF
	BPM-MLF-0416	1/4 BSPPM x 16x1.5 MLF
	BPM-MLF-0418	1/4 BSPPM x 18x1.5 MLF
	BPM-MLF-0616	3/8 BSPPM x 16x1.5 MLF
	BPM-MLF-0618	3/8 BSPPM x 18x1.5 MLF
	BPM-MLF-0622	3/8 BSPPM x 22x1.5 MLF
	BPM-MLF-0818	1/2 BSPPM x 18x1.5 MLF
	BPM-MLF-0822	1/2 BSPPM x 22x1.5 MLF
	BPM-MLF-0826	1/2 BSPPM x 26x1.5 MLF
	BPM-MLF-1222	3/4 BSPPM x 22x1.5 MLF
	BPM-MLF-1226	3/4 BSPPM x 26x1.5 MLF
	BPM-MLF-1230	3/4 BSPPM x 30x2.0 MLF
	BPM-MLF-1236	3/4 BSPPM x 36x2.0 MLF
	BPM-MLF-1630	1-0 BSPPM x 30x2.0 MLF
	BPM-MLF-1636	1-0 BSPPM x 36x2.0 MLF
	BPM-MLF-1645	1-0 BSPPM x 45x2.0 MLF
	BPM-MLF-2045	1-1/4 BSPPM x 45x2.0 MLF
	BPM-MLF-2445	1-1/2 BSPPM x 45x2.0 MLF
	BPM-MLF-2452	1-1/2 BSPPM x 52x2.0 MLF

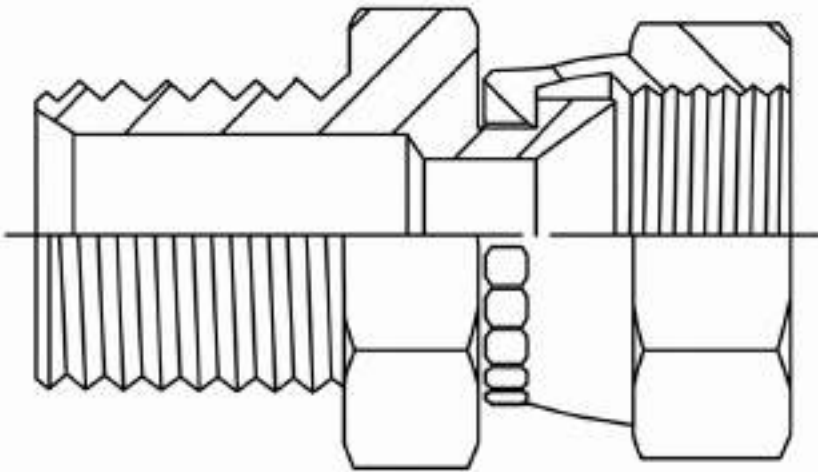
M x F ADAPTORS		
BSPP x ORFS		
	PART NUMBER	DESCRIPTION
	BPM-ORF-0409	1/4 BSPPM x 9/16 ORFS FS
	BPM-ORF-0411	1/4 BSPPM x 11/16 ORFS FS
	BPM-ORF-0609	3/8 BSPPM x 9/16 ORFS FS
	BPM-ORF-0611	3/8 BSPPM x 11/16 ORFS FS
	BPM-ORF-0613	3/8 BSPPM x 13/16 ORFS FS
	BPM-ORF-0811	1/2 BSPPM x 11/16 ORFS FS
	BPM-ORF-0813	1/2 BSPPM x 13/16 ORFS FS
	BPM-ORF-0816	1/2 BSPPM x 1-0 ORFS FS
	BPM-ORF-0819	1/2 BSPPM x 1-3/16 ORFS FS
	BPM-ORF-1213	3/4 BSPPM x 13/16 ORFS FS
	BPM-ORF-1216	3/4 BSPPM x 1-0 ORFS FS
	BPM-ORF-1219	3/4 BSPPM x 1-3/16 ORFS FS
	BPM-ORF-1223	3/4 BSPPM x 1-7/16 ORFS FS
	BPM-ORF-1623	1-0 BSPPM x 1-7/16 ORFS FS
	BPM-ORF-2027	1-1/4 BSPPM x 1-11/16 ORFS FS
M x F ADAPTORS		
BSPP SWIVEL x JIC		
	PART NUMBER	DESCRIPTION
	BSF-JIM-0407	1/4 BSPFS x 7/16 JICM
	BSF-JIM-0409	1/4 BSPFS x 9/16 JICM
	BSF-JIM-0607	3/8 BSPFS x 7/16 JICM
	BSF-JIM-0609	3/8 BSPFS x 9/16 JICM
	BSF-JIM-0612	3/8 BSPFS x 3/4 JICM
	BSF-JIM-0812	1/2 BSPFS x 3/4 JICM
	BSF-JIM-0814	1/2 BSPFS x 7/8 JICM
	BSF-JIM-0817	1/2 BSPFS x 1-1/16 JICM
	BSF-JIM-1212	3/4 BSPFS x 3/4 JICM
	BSF-JIM-1217	3/4 BSPFS x 1-1/16 JICM
	BSF-JIM-1617	1-0 BSPFS x 1-1/16 JICM
	BSF-JIM-1621	1-0 BSPFS x 1-5/16 JICM



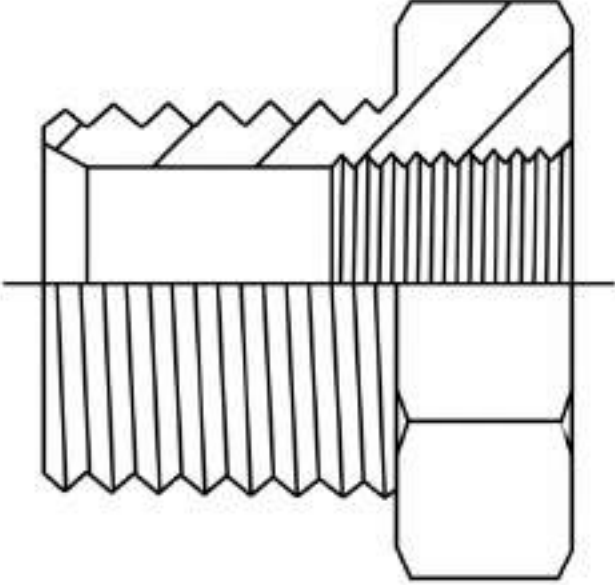
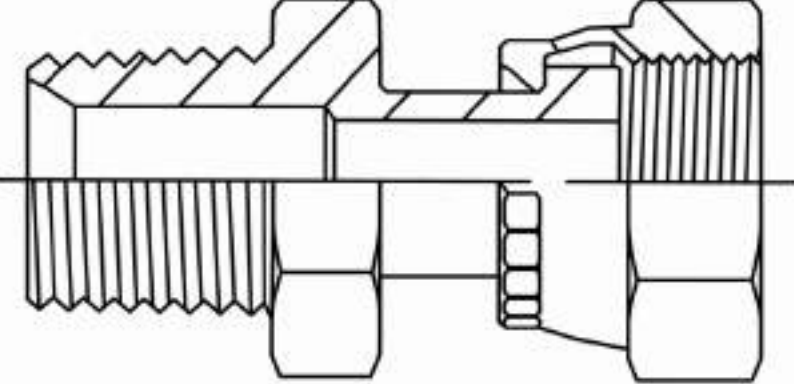
M x F ADAPTORS		
BSPP SWIVEL x UNO		
	PART NUMBER	DESCRIPTION
	BSF-UNM-0407	1/4 BSPFS x 7/16 UNO M
	BSF-UNM-0609	3/8 BSPFS x 9/16 UNO M
	BSF-UNM-0612	3/8 BSPFS x 3/4 UNO M
	BSF-UNM-0812	1/2 BSPFS x 3/4 UNO M
	BSF-UNM-0814	1/2 BSPFS x 7/8 UNO M
	BSF-UNM-1217	3/4 BSPFS x 1-1/16 UNO M
	BSF-UNM-1617	1-0 BSPFS x 1-1/16 UNO M
	BSF-UNM-1621	1-0 BSPFS x 1-5/16 UNO M
	BSF-UNM-2026	1-1/4 BSPFS x 1-5/8 UNO M
M x F ADAPTORS		
BSPT x JIC		
	PART NUMBER	DESCRIPTION
	BTF-JIM-0207	1/8 BSPTF x 7/16 JICM
	BTF-JIM-0209	1/8 BSPTF x 9/16 JICM
	BTF-JIM-0407	1/4 BSPTF x 7/16 JICM
	BTF-JIM-0409	1/4 BSPTF x 9/16 JICM
	BTF-JIM-0609	3/8 BSPTF x 9/16 JICM
	BTF-JIM-0612	3/8 BSPTF x 3/4 JICM
	BTF-JIM-0809	1/2 BSPTF x 9/16 JICM
	BTF-JIM-0812	1/2 BSPTF x 3/4 JICM
	BTF-JIM-0814	1/2 BSPTF x 7/8 JICM
	BTF-JIM-0817	1/2 BSPTF x 1-1/16 JICM
	BTF-JIM-1212	3/4 BSPTF x 3/4 JICM
	BTF-JIM-1214	3/4 BSPTF x 7/8 JICM
	BTF-JIM-1217	3/4 BSPTF x 1-1/16 JICM
	BTF-JIM-1621	1-0 BSPTF x 1-5/16 JICM

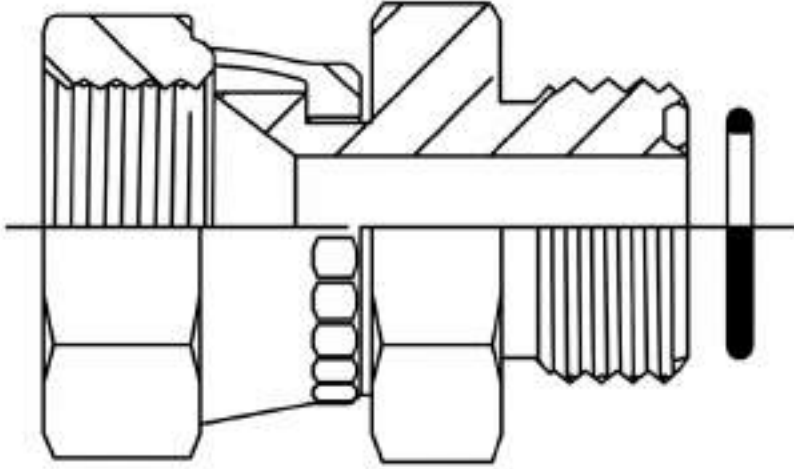
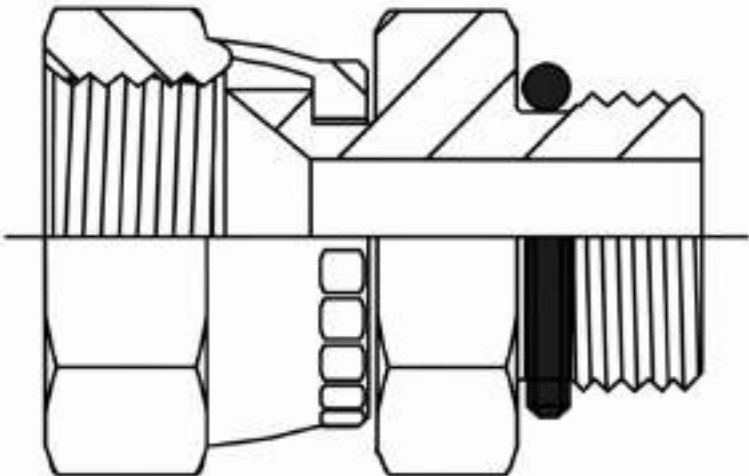
M x F ADAPTORS		
BSPT x UNO		
	PART NUMBER	DESCRIPTION
	BTF-UNM-0409	1/4 BSPTF x 9/16 UNO M
	BTF-UNM-0412	1/4 BSPTF x 3/4 UNO M
	BTF-UNM-0414	1/4 BSPTF x 7/8 UNO M
	BTF-UNM-0609	3/8 BSPTF x 9/16 UNO M
	BTF-UNM-0612	3/8 BSPTF x 3/4 UNO M
	BTF-UNM-0614	3/8 BSPTF x 7/8 UNO M
	BTF-UNM-0617	3/8 BSPTF x 1-1/16 UNO M
	BTF-UNM-0621	3/8 BSPTF x 1-3/16 UNO M
	BTF-UNM-0817	1/2 BSPTF x 1-1/16 UNO M
	BTF-UNM-0821	1/2 BSPTF x 1-5/16 UNO M
	BTF-UNM-0826	1/2 BSPTF x 1-5/8 UNO M
	BTF-UNM-1221	3/4 BSPTF x 1-3/16 UNO M
	BTF-UNM-1226	3/4 BSPTF x 1-5/8 UNO M
	BTF-UNM-1626	1-0 BSPTF x 1-5/8 UNO M
M x F ADAPTORS		
BSPT x BSPP SWIVEL		
	PART NUMBER	DESCRIPTION
	BTM-BSF-0202	1/8 BSPTM x 1/8 BSPFS
	BTM-BSF-0204	1/8 BSPTM x 1/4 BSPFS
	BTM-BSF-0404	1/4 BSPTM x 1/4 BSPFS
	BTM-BSF-0406	1/4 BSPTM x 3/8 BSPFS
	BTM-BSF-0408	1/4 BSPTM x 1/2 BSPFS
	BTM-BSF-0604	3/8 BSPTM x 1/4 BSPFS
	BTM-BSF-0606	3/8 BSPTM x 3/8 BSPFS
	BTM-BSF-0608	3/8 BSPTM x 1/2 BSPFS
	BTM-BSF-0612	3/8 BSPTM x 3/4 BSPFS
	BTM-BSF-0804	1/2 BSPTM x 1/4 BSPFS
	BTM-BSF-0806	1/2 BSPTM x 3/8 BSPFS
	BTM-BSF-0808	1/2 BSPTM x 1/2 BSPFS
	BTM-BSF-0812	1/2 BSPTM x 3/4 BSPFS
	BTM-BSF-1208	3/4 BSPTM x 1/2 BSPFS
	BTM-BSF-1212	3/4 BSPTM x 3/4 BSPFS
	BTM-BSF-1216	3/4 BSPTM x 1-0 BSPFS
	BTM-BSF-1612	1-0 BSPTM x 3/4 BSPFS
	BTM-BSF-1616	1-0 BSPTM x 1-0 BSPFS
	BTM-BSF-1620	1-0 BSPTM x 1-1/4 BSPFS
	BTM-BSF-2020	1-1/4 BSPTM x 1-1/4 BSPFS
	BTM-BSF-2024	1-1/4 BSPTM x 1-1/2 BSPFS
	BTM-BSF-2424	1-1/2 BSPTM x 1-1/2 BSPFS
	BTM-BSF-3232	2-0 BSPTM x 2-0 BSPFS

M x F ADAPTORS		
BSPT x BSPT		
	PART NUMBER	DESCRIPTION
	BTM-BTF-0202	1/8 BSPTM x 1/8 BSPTF Bush
	BTM-BTF-0204	1/8 BSPTM x 1/4 BSPTF Bush
	BTM-BTF-0402	1/4 BSPTM x 1/8 BSPTF R/Bush
	BTM-BTF-0404	1/4 BSPTM x 1/4 BSPTF Bush
	BTM-BTF-0406	1/4 BSPTM x 3/8 BSPTF Bush
	BTM-BTF-0408	1/4 BSPTM x 1/2 BSPTF Bush
	BTM-BTF-0602	3/8 BSPTM x 1/8 BSPTF R/Bush
	BTM-BTF-0604	3/8 BSPTM x 1/4 BSPTF R/Bush
	BTM-BTF-0606	3/8 BSPTM x 3/8 BSPTF Bush
	BTM-BTF-0608	3/8 BSPTM x 1/2 BSPTF Bush
	BTM-BTF-0802	1/2 BSPTM x 1/8 BSPTF R/Bush
	BTM-BTF-0804	1/2 BSPTM x 1/4 BSPTF R/Bush
	BTM-BTF-0806	1/2 BSPTM x 3/8 BSPTF R/Bush
	BTM-BTF-0808	1/2 BSPTM x 1/2 BSPTF Bush
	BTM-BTF-0812	1/2 BSPTM x 3/4 BSPTF Bush
	BTM-BTF-0816	1/2 BSPTM x 1-0 BSPTF Bush
	BTM-BTF-1204	3/4 BSPTM x 1/4 BSPTF R/Bush
	BTM-BTF-1206	3/4 BSPTM x 3/8 BSPTF R/Bush
	BTM-BTF-1208	3/4 BSPTM x 1/2 BSPTF R/Bush
	BTM-BTF-1212	3/4 BSPTM x 3/4 BSPTF Bush
	BTM-BTF-1216	3/4 BSPTM x 1-0 BSPTF Bush
	BTM-BTF-1220	3/4 BSPTM x 1-1/4 BSPTF Bush
	BTM-BTF-1604	1-0 BSPTM x 1/4 BSPTF R/Bush
	BTM-BTF-1606	1-0 BSPTM x 3/8 BSPTF R/Bush
	BTM-BTF-1608	1-0 BSPTM x 1/2 BSPTF R/Bush
	BTM-BTF-1612	1-0 BSPTM x 3/4 BSPTF R/Bush
	BTM-BTF-1616	1-0 BSPTM x 1-0 BSPTF Bush
	BTM-BTF-1620	1-0 BSPTM x 1-1/4 BSPTF Bush
	BTM-BTF-2008	1-1/4 BSPTM x 1/2 BSPTF R/Bush
	BTM-BTF-2012	1-1/4 BSPTM x 3/4 BSPTF R/Bush
	BTM-BTF-2016	1-1/4 BSPTM x 1-0 BSPTF R/Bush
	BTM-BTF-2020	1-1/4 BSPTM x 1-1/4 BSPTF Bush
	BTM-BTF-2024	1-1/4 BSPTM x1-1/2 BSPTF Bush
	BTM-BTF-2408	1-1/2 BSPTM x 1/2 BSPTF R/Bush
	BTM-BTF-2412	1-1/2 BSPTM x 3/4 BSPTF R/Bush
	BTM-BTF-2416	1-1/2 BSPTM x 1-0 BSPTF R/Bush
	BTM-BTF-2420	1-1/2 BSPTMx1-1/4 BSPTF R/Bush
	BTM-BTF-2424	1-1/2 BSPTMx1-1/2 BSPTF R/Bush
	BTM-BTF-3216	2-0 BSPTM x 1-0 BSPTF R/Bush
	BTM-BTF-3220	2-0 BSPTM x 1-1/4 BSPTF R/Bush
	BTM-BTF-3224	2-0 BSPTM x 1-1/2 BSPTF R/Bush

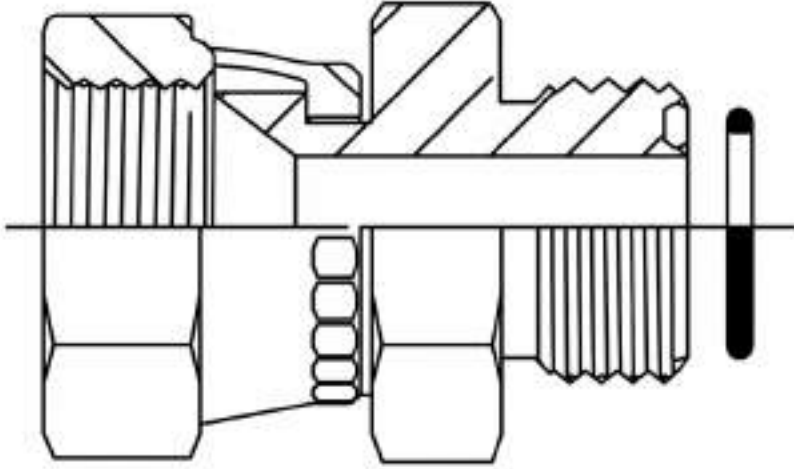
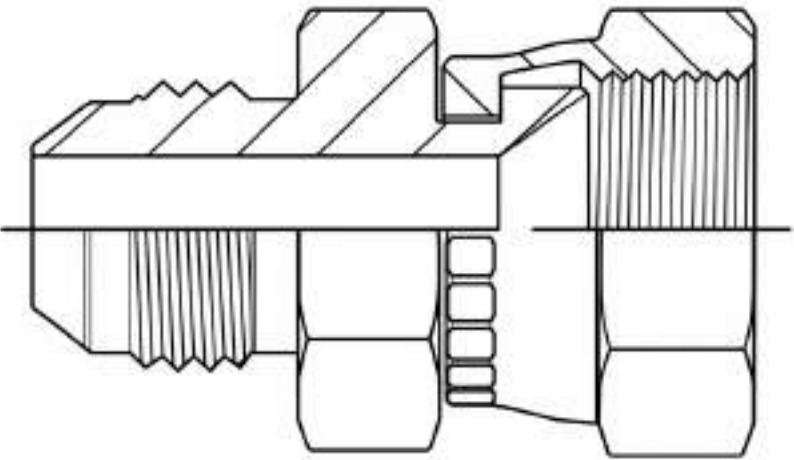
M x F ADAPTORS		
BSPT x JIC SWIVEL		
	PART NUMBER	DESCRIPTION
	BTM-JIF-0207	1/8 BSPTM x 7/16 JICFS
	BTM-JIF-0209	1/8 BSPTM x 9/16 JICFS
	BTM-JIF-0407	1/4 BSPTM x 7/16 JICFS
	BTM-JIF-0408	1/4 BSPTM x 1/2 JICFS
	BTM-JIF-0409	1/4 BSPTM x 9/16 JICFS
	BTM-JIF-0412	1/4 BSPTM x 3/4 JICFS
	BTM-JIF-0607	3/8 BSPTM x 7/16 JICFS
	BTM-JIF-0609	3/8 BSPTM x 9/16 JICFS
	BTM-JIF-0612	3/8 BSPTM x 3/4 JICFS
	BTM-JIF-0614	3/8 BSPTM x 7/8 JICFS
	BTM-JIF-0617	3/8 BSPTM x 1-1/16 JICFS
	BTM-JIF-0809	1/2 BSPTM x 9/16 JICFS
	BTM-JIF-0812	1/2 BSPTM x 3/4 JICFS
	BTM-JIF-0814	1/2 BSPTM x 7/8 JICFS
	BTM-JIF-0817	1/2 BSPTM x 1-1/16 JICFS
	BTM-JIF-1214	3/4 BSPTM x 7/8 JICFS
	BTM-JIF-1217	3/4 BSPTM x 1-1/16 JICFS
	BTM-JIF-1221	3/4 BSPTM x 1-5/16 JICFS
	BTM-JIF-1617	1-0 BSPTM x 1-1/16 JICFS
	BTM-JIF-1621	1-0 BSPTM x 1-5/16 JICFS
	BTM-JIF-2026	1-1/4 BSPTM x 1-5/8 JICFS
	BTM-JIF-2430	1-1/2 BSPTM x 1-7/8 JICFS
	BTM-JIF-3240	2-0 BSPTM x 2-1/2 JICFS

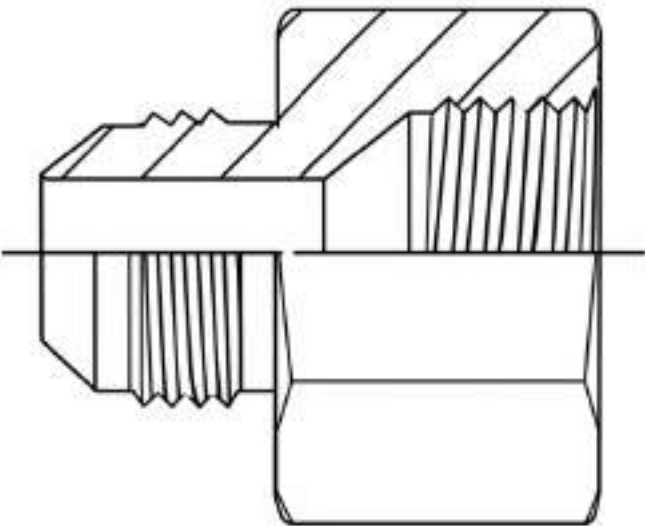


M x F ADAPTORS		
BSPT x NPT		
	PART NUMBER	DESCRIPTION
	BTM-NTF-0202	1/8 BSPTM x 1/8 NPTF
	BTM-NTF-0402	1/4 BSPTM x 1/8 NPTF
	BTM-NTF-0404	1/4 BSPTM x 1/4 NPTF
	BTM-NTF-0602	3/8 BSPTM x 1/8 NPTF
	BTM-NTF-0604	3/8 BSPTM x 1/4 NPTF
	BTM-NTF-0606	3/8 BSPTM x 3/8 NPTF
	BTM-NTF-0808	1/2 BSPTM x 1/2 NPTF
	BTM-NTF-1208	3/4 BSPTM x 1/2 NPTF
	BTM-NTF-1212	3/4 BSPTM x 3/4 NPTF
	BTM-NTF-1612	1-0 BSPTM x 3/4 NPTF
	BTM-NTF-1616	1-0 BSPTM x 1-0 NPTF
	BTM-NTF-2008	1-1/4 BSPTM x 1/2 NPTF
	BTM-NTF-2020	1-1/4 BSPTM x 1-1/4 NPTF
	BTM-NTF-2416	1-1/2 BSPTM x 1-0 NPTF
	BTM-NTF-2420	1-1/2 BSPTM x 1-1/4 NPTF
	BTM-NTF-3232	2-0 BSPTM x 2-0 NPTF
M x F ADAPTORS		
BSPT x ORFS SWIVEL		
	PART NUMBER	DESCRIPTION
	BTM-ORF-0409	1/4 BSPTM x 9/16 ORFS FS
	BTM-ORF-0611	3/8 BSPTM x 11/16 ORFS FS
	BTM-ORF-0813	1/2 BSPTM x 13/16 ORFS FS
	BTM-ORF-1219	3/4 BSPTM x 1-3/16 ORFS FS
	BTM-ORF-1623	1-0 BSPTM x 1-7/16 ORFS FS

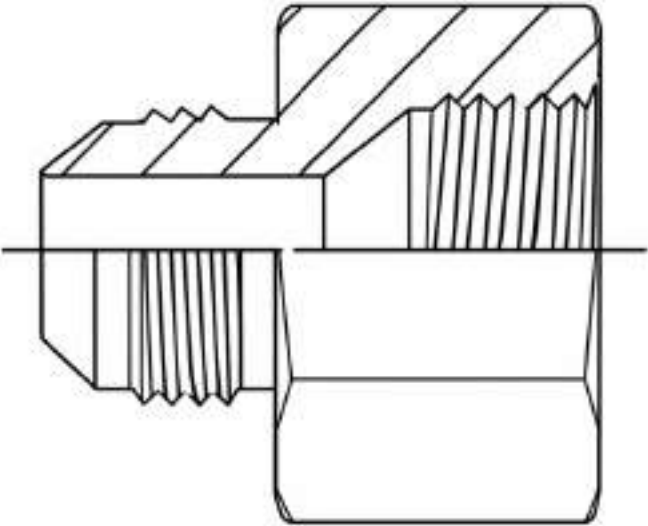
M x F ADAPTORS		
JIC FEMALE x ORFS		
	PART NUMBER	DESCRIPTION
	JIF-ORM-0709	7/16 JICFS x 9/16 ORFS M
	JIF-ORM-0911	9/16 JICFS x 11/16 ORFS M
	JIF-ORM-1213	3/4 JICFS x 13/16 ORFS M
	JIF-ORM-1416	7/8 JICFS x 1-0 ORFS M
	JIF-ORM-1719	1-1/16 JICFS x 1-3/16 ORFS M
	JIF-ORM-2123	1-5/16 JICFS x 1-7/16 ORFS M
	JIF-ORM-2627	1-5/8 JICFS x 1-11/16 ORFS M
M x F ADAPTORS		
JIC SWIVEL x UNO		
	PART NUMBER	DESCRIPTION
	JIF-UNM-0707	7/16 JICFS x 7/16 UNO M
	JIF-UNM-0709	7/16 JICFS x 9/16 UNO M
	JIF-UNM-0808	1/2 JICFS x 1/2 UNO M
	JIF-UNM-0909	9/16 JICFS x 9/16 UNO M
	JIF-UNM-0912	9/16 JICFS x 3/4 UNO M
	JIF-UNM-1209	3/4 JICFS x 9/16 UNO M
	JIF-UNM-1212	3/4 JICFS x 3/4 UNO M
	JIF-UNM-1214	3/4 JICFS x 7/8 UNO M
	JIF-UNM-1412	7/8 JICFS x 3/4 UNO M
	JIF-UNM-1414	7/8 JICFS x 7/8 UNO M
	JIF-UNM-1717	1-1/16 JICFS x 1-1/16 UNO M
	JIF-UNM-2121	1-5/16 JICFS x 1-5/16 UNO M
	JIF-UNM-2626	1-5/8 JICFS x 1-5/8 UNO M
	JIF-UNM-3030	1-7/8 JICFS x 1-7/8 UNO M
	JIF-UNM-4040	2-1/2 JICFS x 2-1/2 UNO M



M x F ADAPTORS		
JIC FEMALE x ORFS		
	PART NUMBER	DESCRIPTION
	JIF-ORM-0709	7/16 JICFS x 9/16 ORFS M
	JIF-ORM-0911	9/16 JICFS x 11/16 ORFS M
	JIF-ORM-1213	3/4 JICFS x 13/16 ORFS M
	JIF-ORM-1416	7/8 JICFS x 1-0 ORFS M
	JIF-ORM-1719	1-1/16 JICFS x 1-3/16 ORFS M
	JIF-ORM-2123	1-5/16 JICFS x 1-7/16 ORFS M
	JIF-ORM-2627	1-5/8 JICFS x 1-11/16 ORFS M
M x F ADAPTORS		
JIC x JIC SWIVEL		
	PART NUMBER	DESCRIPTION
	JIM-JIF-0707	7/16 JICM x 7/16 JICFS
	JIM-JIF-0808	1/2 JICM x 1/2 JICFS
	JIM-JIF-0909	9/16 JICM x 9/16 JICFS
	JIM-JIF-1212	3/4 JICM x 3/4 JICFS
	JIM-JIF-1212 R2.0	3/4 JICM x 3/4 JICF S/W R2.0
	JIM-JIF-1414	7/8 JICM x 7/8 JICFS
	JIM-JIF-1717	1-1/16 JICM x 1-1/16 JICFS
	JIM-JIF-2121	1-5/16 JICM x 1-5/16 JICFS
	JIM-JIF-2626	1-5/8 JICM x 1-5/8 JICFS
	JIM-JIF-3030	1-7/8 JICM x 1-7/8 JICFS

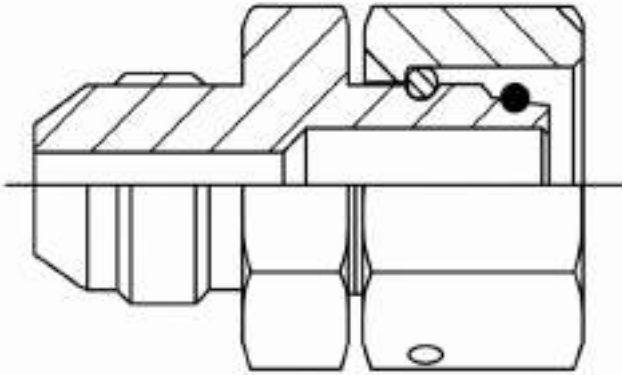
M x F ADAPTORS		
JIC FEMALE x ORFS		
	PART NUMBER	DESCRIPTION
	JIM-JFF-0706	7/16 JICM x 3/8 JIC Fixed F
	JIM-JFF-0707 R0.4	7/16 JIC M x Fixed F Res0.4mm
	JIM-JFF-0707 R0.6	7/16 JIC M x Fixed F Res0.6mm
	JIM-JFF-0708	7/16 JICM x 1/2 JIC Fixed F
	JIM-JFF-0709	7/16 JICM x 9/16 JIC Fixed F
	JIM-JFF-0712	7/16 JICM x 3/4 JIC Fixed F
	JIM-JFF-0714	7/16 JICM x 7/8 JIC Fixed F
	JIM-JFF-0717	7/16 JICM x 1-1/16 JIC Fixed F
	JIM-JFF-0721	7/16 JICM x 1-5/16 JIC Fixed F
	JIM-JFF-0809	1/2 JICM x 9/16 JIC Fixed F
	JIM-JFF-0817	1/2 JICM x 1-1/16 JICF
	JIM-JFF-0907	9/16 JICM x 7/16 JIC Fixed F
	JIM-JFF-0908	9/16 JICM x 1/2 JIC Fixed F
	JIM-JFF-0909	9/16 JIC M x Fixed F
	JIM-JFF-0909 R0.4	9/16 JIC M x Fixed F Res0.4mm
	JIM-JFF-0909 R0.6	9/16 JIC M x Fixed F Res0.6mm
	JIM-JFF-0909 R0.9	9/16 JIC M x Fixed F Res0.9mm
	JIM-JFF-0912	9/16 JICM x 3/4 JIC Fixed F
	JIM-JFF-0914	9/16 JICM x 7/8 JIC Fixed F
	JIM-JFF-0917	9/16 JICM x 1-1/16 JIC Fixed F
	JIM-JFF-0921	9/16 JICM x 1-5/16 JIC Fixed F
	JIM-JFF-1207	3/4 JICM x 7/16 JIC Fixed F
	JIM-JFF-1209	3/4 JICM x 9/16 JIC Fixed F
	JIM-JFF-1212 E95	3/4 JICM x 3/4 JICFF 95mmOA
	JIM-JFF-1212 R1.5	3/4 JICM x 3/4 JICFF R1.5
	JIM-JFF-1214	3/4 JICM x 7/8 JIC Fixed F
	JIM-JFF-1217	3/4 JICM x 1-1/16 JIC Fixed F
	JIM-JFF-1221	3/4 JICM x 1-5/16 JIC Fixed F
	JIM-JFF-1226	3/4 JICM x 1-5/8 JIC Fixed F
	JIM-JFF-1407	7/8 JICM x 7/16 JIC Fixed F
	JIM-JFF-1409	7/8 JICM x 9/16 JIC Fixed F
	JIM-JFF-1412	7/8 JICM x 3/4 JIC Fixed F
	JIM-JFF-1417	7/8 JICM x 1-1/16 JIC Fixed F
	JIM-JFF-1419	7/8 JICM x 1-3/16 JIC Fixed F
	JIM-JFF-1421	7/8 JICM x 1-5/16 JIC Fixed F
	JIM-JFF-1709	1-1/16 JICM x 9/16 JIC Fixed F
	JIM-JFF-1712	1-1/16 JICM x 3/4 JIC Fixed F

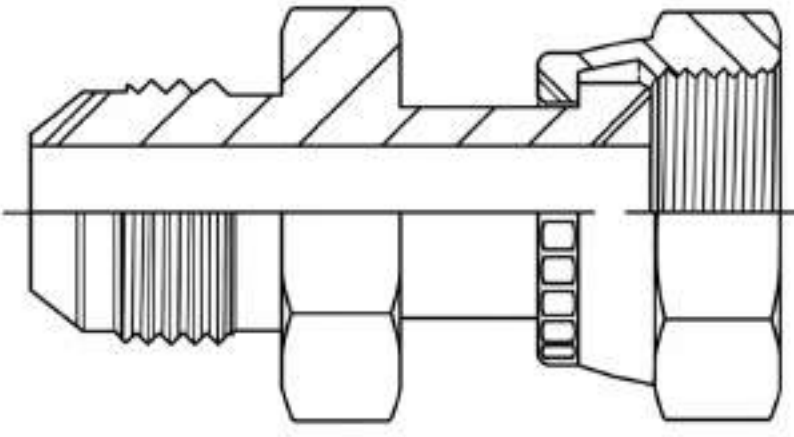
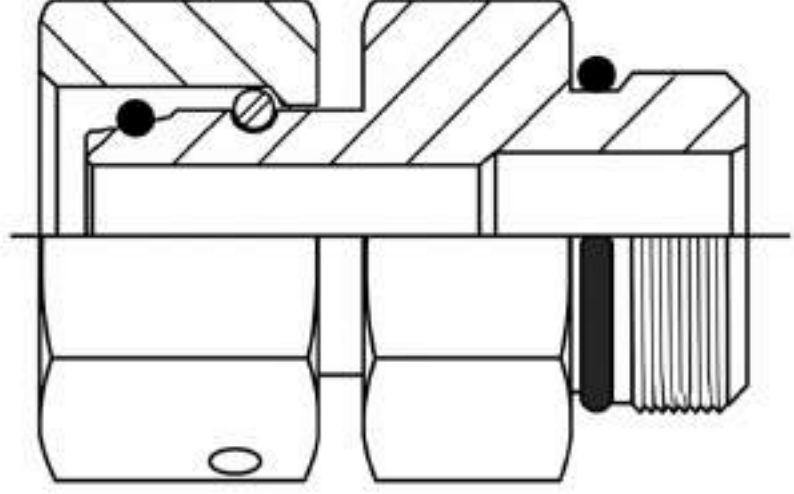


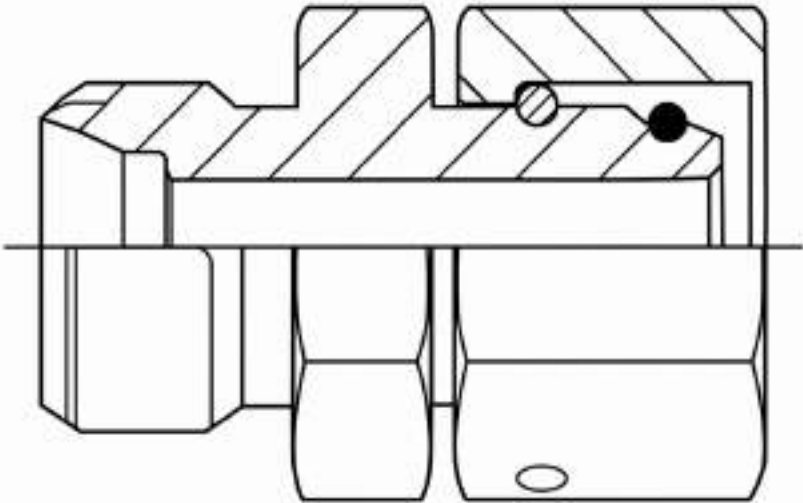
	JIM-JFF-1714	1-1/16 JICM x 7/8 JIC Fixed F
	JIM-JFF-1717	1-1/16 JICM x 1-1/16 JIC Fixed F
	JIM-JFF-1719	1-1/16 JICM x 1-3/16 JICFixedF
	JIM-JFF-1721	1-1/16 JICM x 1-5/16 JICFixedF
	JIM-JFF-1726	1-1/16 JICM x 1-5/8 JICFixedF
	JIM-JFF-1730	1-1/16 JICM x 1-7/8 JICFixedF
	JIM-JFF-1921	1-3/16 JICM x 1-5/16 JICFixedF
	JIM-JFF-2112	1-5/16 JICM x 3/4 JIC Fixed F
	JIM-JFF-2114	1-5/16 JICM x 7/8 JIC Fixed F
	JIM-JFF-2117	1-5/16 JICM x 1-1/16 JICFixedF
	JIM-JFF-2126	1-5/16 JICM x 1-5/8 JIC FixedF
	JIM-JFF-2130	1-5/16 JICM x 1-7/8 JIC FixedF
	JIM-JFF-2617	1-5/8 JICM x 1-1/16 JIC FixedF
	JIM-JFF-2621	1-5/8 JICM x 1-5/16 JIC FixedF
	JIM-JFF-2630	1-5/8 JICM x 1-7/8 JIC Fixed F
	JIM-JFF-3017	1-7/8 JICM x 1-1/16 JIC FixedF
	JIM-JFF-3021	1-7/8 JICM x 1-5/16 JIC FixedF
	JIM-JFF-3026	1-7/8 JICM x 1-5/8 JIC Fixed F
	JIM-JFF-3040	1-7/8 JICM x 2-1/2 JIC Fixed F
	JIM-JFF-4030	2-1/2 JICM x 1-7/8 JIC Fixed F

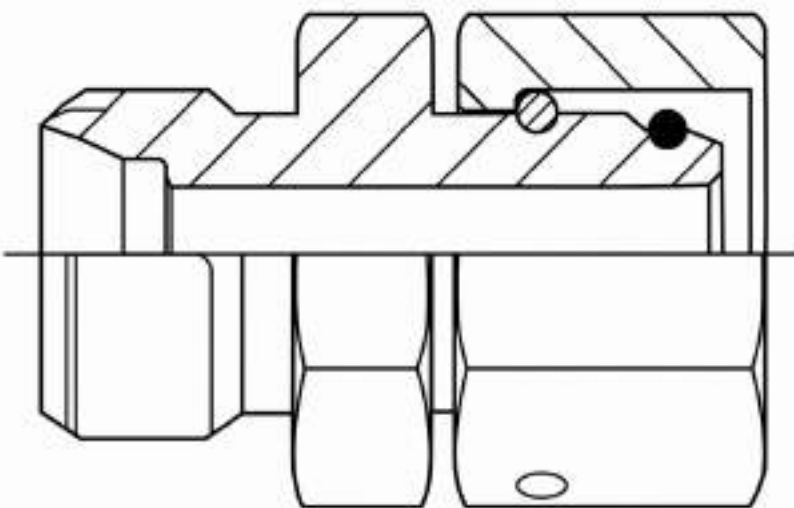
M x F ADAPTORS

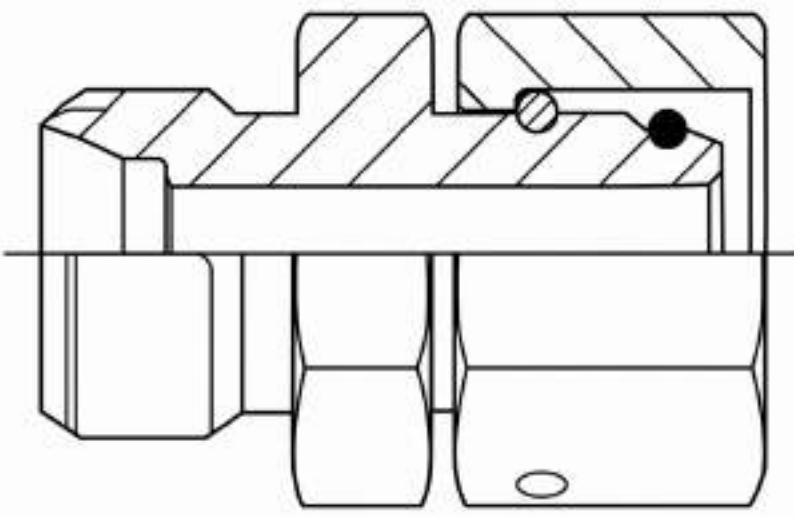
JIC x METRIC HEAVY SWIVEL

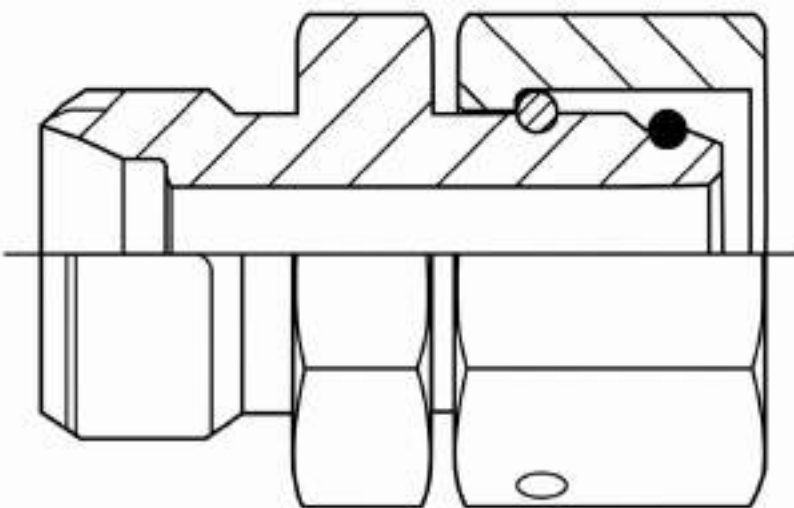
	PART NUMBER	DESCRIPTION
	JIM-MHF-0718	7/16 JICM x 18mm MetHeavyF
	JIM-MHF-0820	1/2 JICM x 20mm MetHeavyF
	JIM-MHF-1224	3/4 JICM x 24mm MetHeavyF
	JIM-MHF-1724	1-1/16 JICM x 24mm MetHeavyF

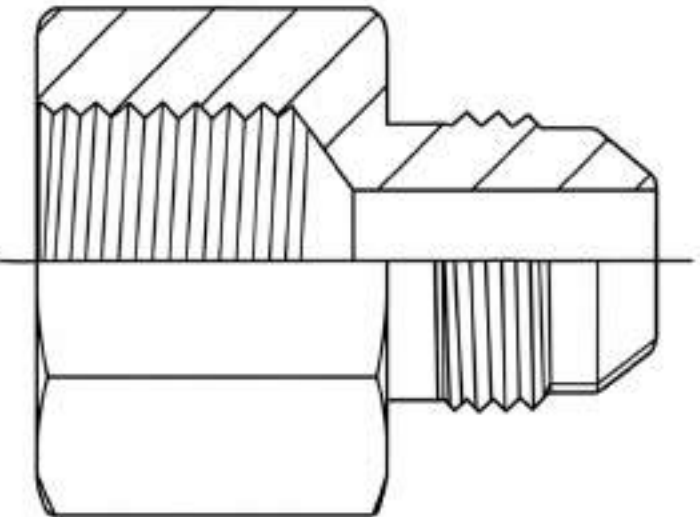
M x F ADAPTORS		
JIC x ORFS SWIVEL		
	PART NUMBER	DESCRIPTION
	JIM-ORF-0709	7/16 JICM x 9/16 ORFS FS
	JIM-ORF-0711	7/16 JICM x 11/16 ORFS FS
	JIM-ORF-0909	9/16 JICM x 9/16 ORFS FS
	JIM-ORF-0911	9/16 JICM x 11/16 ORFS FS
	JIM-ORF-0913	9/16 JICM x 13/16 ORFS FS
	JIM-ORF-1213	3/4 JICM x 13/16 ORFS FS
	JIM-ORF-1416	7/8 JICM x 1-0 ORFS FS
	JIM-ORF-1419	7/8 JICM x 1-3/16 ORFS FS
	JIM-ORF-1423	7/8 JICM x 1-7/16 ORFS FS
	JIM-ORF-1719	1-1/16 JICM x 1-3/16 ORFS FS
	JIM-ORF-2123	1-5/16 JICM x 1-7/16 ORFS FS
	JIM-ORF-2623	1-5/8 JICM x 1-7/16 ORFS FS
	JIM-ORF-2627	1-5/8 JICM x 1-11/16 ORFS FS
M x F ADAPTORS		
METRIC HEAVY SWIVEL x UNO		
	PART NUMBER	DESCRIPTION
	MHF-UNM-1407	14x1.5 MHF x 7/16 UNO M
	MHF-UNM-1609	16x1.5 MHF x 9/16 UNO M
	MHF-UNM-1809	18x1.5 MHF x 9/16 UNO M
	MHF-UNM-2012	20x1.5 MHF x 3/4 UNO M
	MHF-UNM-2214	22x1.5 MHF x 7/8 UNO M
	MHF-UNM-2414	24x1.5 MHF x 7/8 UNO M
	MHF-UNM-3017	30x2.0 MHF x 1-1/16 UNO M
	MHF-UNM-3621	36x2.0 MHF x 1-5/16 UNO M
	MHF-UNM-4226	42x2.0 MHF x 1-5/8 UNO M
	MHF-UNM-5230	52x2.0 MHF x 1-7/8 UNO M

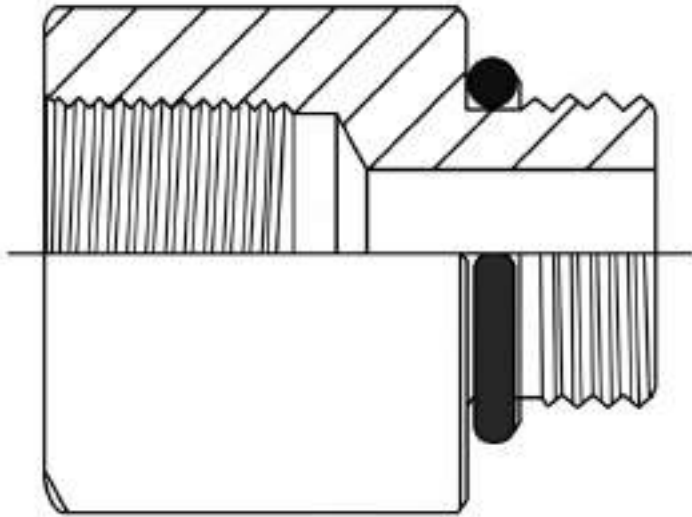
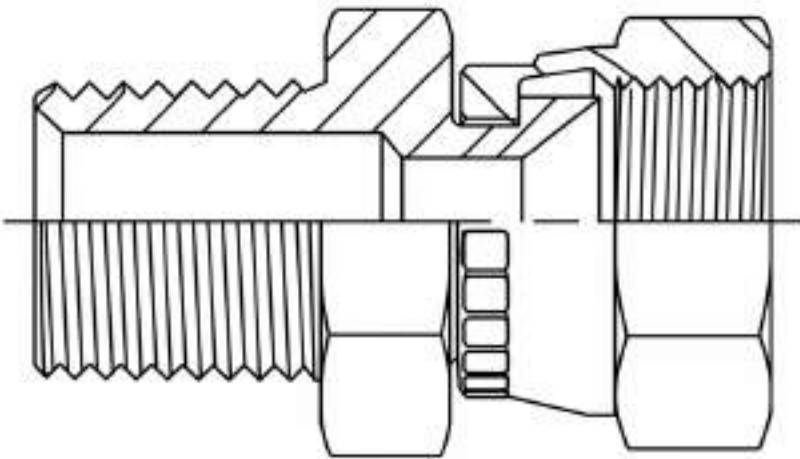
M x F ADAPTORS		
METRIC HEAVY x METRIC HEAVY SWIVEL		
	PART NUMBER	DESCRIPTION
	MHM-MHF-1414	14x1.5 MHM x 14x1.5 MHF
	MHM-MHF-1416	14x1.5 MHM x 16x1.5 MHF
	MHM-MHF-1418	14x1.5 MHM x 18x1.5 MHF
	MHM-MHF-1420	14x1.5 MHM x 20x1.5 MHF
	MHM-MHF-1422	14x1.5 MHM x 22x1.5 MHF
	MHM-MHF-1424	14x1.5 MHM x 24x1.5 MHF
	MHM-MHF-1430	14x1.5 MHM x 30x2.0 MHF
	MHM-MHF-1436	14x1.5 MHM x 36x2.0 MHF
	MHM-MHF-1442	14x1.5 MHM x 42x2.0 MHF
	MHM-MHF-1452	14x1.5 MHM x 52x2.0 MHF
	MHM-MHF-1616	16x1.5 MHM x 16x1.5 MHF
	MHM-MHF-1618	16x1.5 MHM x 18x1.5 MHF
	MHM-MHF-1620	16x1.5 MHM x 20x1.5 MHF
	MHM-MHF-1622	16x1.5 MHM x 22x1.5 MHF
	MHM-MHF-1624	16x1.5 MHM x 24x1.5 MHF
	MHM-MHF-1630	16x1.5 MHM x 30x2.0 MHF
	MHM-MHF-1636	16x1.5 MHM x 36x2.0 MHF
	MHM-MHF-1642	16x1.5 MHM x 42x2.0 MHF
	MHM-MHF-1652	16x1.5 MHM x 52x2.0 MHF
	MHM-MHF-1818	18x1.5 MHM x 18x1.5 MHF
	MHM-MHF-1820	18x1.5 MHM x 20x1.5 MHF
	MHM-MHF-1822	18x1.5 MHM x 22x1.5 MHF
	MHM-MHF-1824	18x1.5 MHM x 24x1.5 MHF
	MHM-MHF-1830	18x1.5 MHM x 30x2.0 MHF
	MHM-MHF-1836	18x1.5 MHM x 36x2.0 MHF
	MHM-MHF-1842	18x1.5 MHM x 42x2.0 MHF
	MHM-MHF-1852	18x1.5 MHM x 52x2.0 MHF
	MHM-MHF-2020	20x1.5 MHM x 20x1.5 MHF
	MHM-MHF-2022	20x1.5 MHM x 22x1.5 MHF
	MHM-MHF-2024	20x1.5 MHM x 24x1.5 MHF
	MHM-MHF-2030	20x1.5 MHM x 30x2.0 MHF
	MHM-MHF-2036	20x1.5 MHM x 36x2.0 MHF
	MHM-MHF-2042	20x1.5 MHM x 42x2.0 MHF
	MHM-MHF-2052	20x1.5 MHM x 52x2.0 MHF

	MHM-MHF-2222	22x1.5 MHM x 22x1.5 MHF
	MHM-MHF-2224	22x1.5 MHM x 24x1.5 MHF
	MHM-MHF-2230	22x1.5 MHM x 30x2.0 MHF
	MHM-MHF-2236	22x1.5 MHM x 36x2.0 MHF
	MHM-MHF-2242	22x1.5 MHM x 42x2.0 MHF
	MHM-MHF-2252	22x1.5 MHM x 52x2.0 MHF
	MHM-MHF-2424	24x1.5 MHM x 24x1.5 MHF
	MHM-MHF-2430	24x1.5 MHM x 30x2.0 MHF
	MHM-MHF-2436	24x1.5 MHM x 36x2.0 MHF
	MHM-MHF-2442	24x1.5 MHM x 42x2.0 MHF
	MHM-MHF-2452	24x1.5 MHM x 52x2.0 MHF
	MHM-MHF-3030	30x2.0 MHM x 30x2.0 MHF
	MHM-MHF-3036	30x2.0 MHM x 36x2.0 MHF
	MHM-MHF-3042	30x2.0 MHM x 42x2.0 MHF
	MHM-MHF-3052	30x2.0 MHM x 52x2.0 MHF
	MHM-MHF-3636	36x2.0 MHM x 36x2.0 MHF
	MHM-MHF-3642	36x2.0 MHM x 42x2.0 MHF
	MHM-MHF-3652	36x2.0 MHM x 52x2.0 MHF
	MHM-MHF-4242	42x2.0 MHM x 42x2.0 MHF
	MHM-MHF-4252	42x2.0 MHM x 52x2.0 MHF
	MHM-MHF-5252	52x2.0 MHM x 52x2.0 MHF

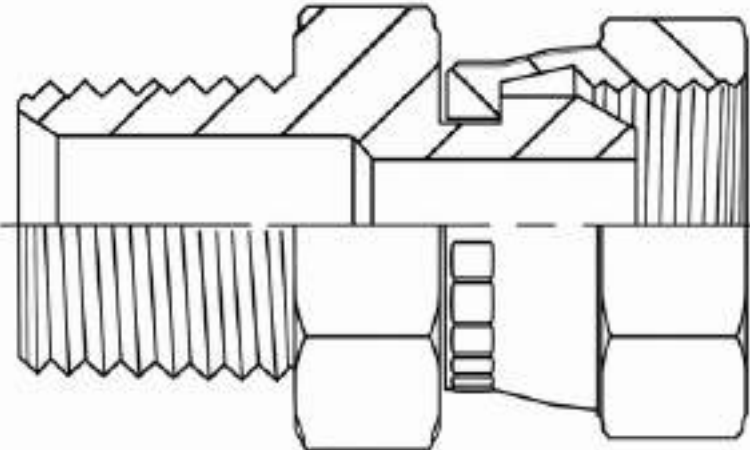
M x F ADAPTORS		
METRIC LIGHT x METRIC LIGHT SWIVEL		
	PART NUMBER	DESCRIPTION
	MLM-MLF-1212	12x1.5 MLM x 12x1.5 MLF
	MLM-MLF-1214	12x1.5 MLM x 14x1.5 MLF
	MLM-MLF-1216	12x1.5 MLM x 16x1.5 MLF
	MLM-MLF-1218	12x1.5 MLM x 18x1.5 MLF
	MLM-MLF-1222	12x1.5 MLM x 22x1.5 MLF
	MLM-MLF-1226	12x1.5 MLM x 26x1.5 MLF
	MLM-MLF-1230	12x1.5 MLM x 30x2.0 MLF
	MLM-MLF-1236	12x1.5 MLM x 36x2.0 MLF
	MLM-MLF-1245	12x1.5 MLM x 45x2.0 MLF
	MLM-MLF-1252	12x1.5 MLM x 52x2.0 MLF
	MLM-MLF-1414	14x1.5 MLM x 14x1.5 MLF
	MLM-MLF-1416	14x1.5 MLM x 16x1.5 MLF
	MLM-MLF-1418	14x1.5 MLM x 18x1.5 MLF
	MLM-MLF-1422	14x1.5 MLM x 22x1.5 MLF
	MLM-MLF-1426	14x1.5 MLM x 26x1.5 MLF
	MLM-MLF-1430	14x1.5 MLM x 30x2.0 MLF
	MLM-MLF-1436	14x1.5 MLM x 36x2.0 MLF
	MLM-MLF-1445	14x1.5 MLM x 45x2.0 MLF
	MLM-MLF-1452	14x1.5 MLM x 52x2.0 MLF
	MLM-MLF-1616	16x1.5 MLM x 16x1.5 MLF
	MLM-MLF-1618	16x1.5 MLM x 18x1.5 MLF
	MLM-MLF-1622	16x1.5 MLM x 22x1.5 MLF
	MLM-MLF-1626	16x1.5 MLM x 26x1.5 MLF
	MLM-MLF-1630	16x1.5 MLM x 30x2.0 MLF
	MLM-MLF-1636	16x1.5 MLM x 36x2.0 MLF
	MLM-MLF-1645	16x1.5 MLM x 45x2.0 MLF
	MLM-MLF-1652	16x1.5 MLM x 52x2.0 MLF
	MLM-MLF-1818	18x1.5 MLM x 18x1.5 MLF
	MLM-MLF-1822	18x1.5 MLM x 22x1.5 MLF
	MLM-MLF-1826	18x1.5 MLM x 26x1.5 MLF
	MLM-MLF-1830	18x1.5 MLM x 30x2.0 MLF
	MLM-MLF-1836	18x1.5 MLM x 36x2.0 MLF
	MLM-MLF-1845	18x1.5 MLM x 45x2.0 MLF
	MLM-MLF-1852	18x1.5 MLM x 52x2.0 MLF

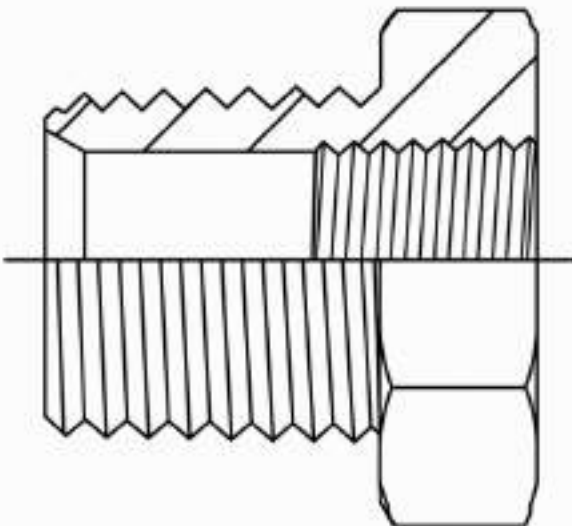
	MLM-MLF-2222	22x1.5 MLM x 22x1.5 MLF
	MLM-MLF-2226	22x1.5 MLM x 26x1.5 MLF
	MLM-MLF-2230	22x1.5 MLM x 30x2.0 MLF
	MLM-MLF-2236	22x1.5 MLM x 36x2.0 MLF
	MLM-MLF-2245	22x1.5 MLM x 45x2.0 MLF
	MLM-MLF-2252	22x1.5 MLM x 52x2.0 MLF
	MLM-MLF-2626	26x1.5 MLM x 26x1.5 MLF
	MLM-MLF-2630	26x1.5 MLM x 30x2.0 MLF
	MLM-MLF-2636	26x1.5 MLM x 36x2.0 MLF
	MLM-MLF-2645	26x1.5 MLM x 45x2.0 MLF
	MLM-MLF-2652	26x1.5 MLM x 52x2.0 MLF
	MLM-MLF-3030	30x2.0 MLM x 30x2.0 MLF
	MLM-MLF-3036	30x2.0 MLM x 36x2.0 MLF
	MLM-MLF-3045	30x2.0 MLM x 45x2.0 MLF
	MLM-MLF-3052	30x2.0 MLM x 52x2.0 MLF
	MLM-MLF-3636	36x2.0 MLM x 36x2.0 MLF
	MLM-MLF-3645	36x2.0 MLM x 45x2.0 MLF
	MLM-MLF-3652	36x2.0 MLM x 52x2.0 MLF
	MLM-MLF-4545	45x2.0 MLM x 45x2.0 MLF
	MLM-MLF-4552	45x2.0 MLM x 52x2.0 MLF
	MLM-MLF-5252	52x2.0 MLM x 52x2.0 MLF

M x F ADAPTORS		
NPT x JIC		
	PART NUMBER	DESCRIPTION
	NTF-JIM-0207	1/8 NPTF x 7/16 JICM
	NTF-JIM-0208	1/8 NPTF x 1/2 JICM
	NTF-JIM-0405	1/4 NPTF x 5/16 JICM
	NTF-JIM-0407	1/4 NPTF x 7/16 JICM
	NTF-JIM-0408	1/4 NPTF x 1/2 JICM
	NTF-JIM-0409	1/4 NPTF x 9/16 JICM
	NTF-JIM-0412	1/4 NPTF x 3/4 JICM
	NTF-JIM-0607	3/8 NPTF x 7/16 JICM
	NTF-JIM-0609	3/8 NPTF x 9/16 JICM
	NTF-JIM-0612	3/8 NPTF x 3/4 JICM
	NTF-JIM-0614	3/8 NPTF x 7/8 JICM
	NTF-JIM-0809	1/2 NPTF x 9/16 JICM
	NTF-JIM-0812	1/2 NPTF x 3/4 JICM
	NTF-JIM-0814	1/2 NPTF x 7/8 JICM
	NTF-JIM-0817	1/2 NPTF x 1-1/16 JICM
	NTF-JIM-1212	3/4 NPTF x 3/4 JICM
	NTF-JIM-1214	3/4 NPTF x 7/8 JICM
	NTF-JIM-1217	3/4 NPTF x 1-1/16 JICM
	NTF-JIM-1221	3/4 NPTF x 1-5/16 JICM
	NTF-JIM-1617	1-0 NPTF x 1-1/16 JICM
	NTF-JIM-1621	1-0 NPTF x 1-5/16 JICM
	NTF-JIM-1626	1-0 NPTF x 1-5/8 JICM
	NTF-JIM-2021	1-1/4 NPTF x 1-5/16 JICM
	NTF-JIM-2026	1-1/4 NPTF x 1-5/8 JICM
	NTF-JIM-2430	1-1/2 NPTF x 1-7/8 JICM
	NTF-JIM-3240	2-0 NPTF x 2-1/2 JICM

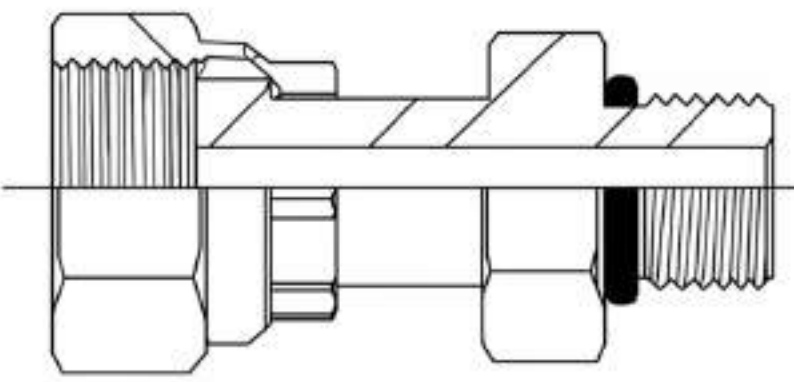
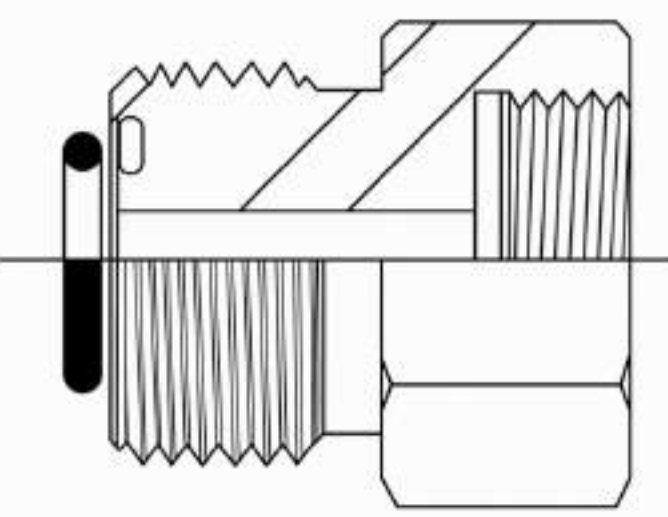
M x F ADAPTORS		
NPT x UNO		
	PART NUMBER	DESCRIPTION
	NTF-UNM-0207	1/4 NPTF x 7/16 UNO M
	NTF-UNM-0407	1/4 NPTF x 7/16 UNO M
	NTF-UNM-0409	1/4 NPTF x 9/16 UNO M
	NTF-UNM-0412	1/4 NPTF x 3/4 UNO M
	NTF-UNM-0414	1/4 NPTF x 7/8 UNO M
	NTF-UNM-0609	3/8 NPTF x 9/16 UNO M
	NTF-UNM-0612	3/8 NPTF x 3/4 UNO M
	NTF-UNM-0614	3/8 NPTF x 7/8 UNO M
	NTF-UNM-0812	1/2 NPTF x 3/4 UNO M
	NTF-UNM-0814	1/2 NPTF x 7/8 UNO M
	NTF-UNM-0817	1/2 NPTF x 1-1/16 UNO M
	NTF-UNM-1214	3/4 NPTF x 7/8 UNO M
	NTF-UNM-1217	3/4 NPTF x 1-1/16 UNO M
	NTF-UNM-1621	1-0 NPTF x 1-5/16 UNO M
	NTF-UNM-2021	1-1/4 NPTFF x 1-5/16 UNOMale
	NTF-UNM-2026	1-1/4 NPTF x 1-5/8 UNO M
M x F ADAPTORS		
NPT x JIC SWIVEL		
	PART NUMBER	DESCRIPTION
	NTM-JIF-0207	1/8 NPTM x 7/16 JICFS
	NTM-JIF-0209	1/8 NPTM x 9/16 JICFS
	NTM-JIF-0405	1/4 NPTM x 5/16 JICFS
	NTM-JIF-0407	1/4 NPTM x 7/16 JICFS
	NTM-JIF-0408	1/4 NPTM x 1/2 JICFS
	NTM-JIF-0409	1/4 NPTM x 9/16 JICFS
	NTM-JIF-0607	3/8 NPTM x 7/16 JICFS
	NTM-JIF-0609	3/8 NPTM x 9/16 JICFS
	NTM-JIF-0612	3/8 NPTM x 3/4 JICFS
	NTM-JIF-0614	3/8 NPTM x 7/8 JICFS
	NTM-JIF-0809	1/2 NPTM x 9/16 JICFS
	NTM-JIF-0812	1/2 NPTM x 3/4 JICFS
	NTM-JIF-0814	1/2 NPTM x 7/8 JICFS
	NTM-JIF-0817	1/2 NPTM x 1-1/16 JICFS
	NTM-JIF-1212	3/4 NPTM x 3/4 JICFS
	NTM-JIF-1214	3/4 NPTM x 7/8 JICFS
	NTM-JIF-1217	3/4 NPTM x 1-1/16 JICFS
	NTM-JIF-1221	3/4 NPTM x 1-5/16 JICFS
	NTM-JIF-1621	1-0 NPTM x 1-5/16 JICFS
	NTM-JIF-2026	1-1/4 NPTM x 1-5/8 JICFS
	NTM-JIF-2430	1-1/2 NPTM x 1-7/8 JICFS
	NTM-JIF-3240	2-0 NPTM x 2-1/2 JICFS

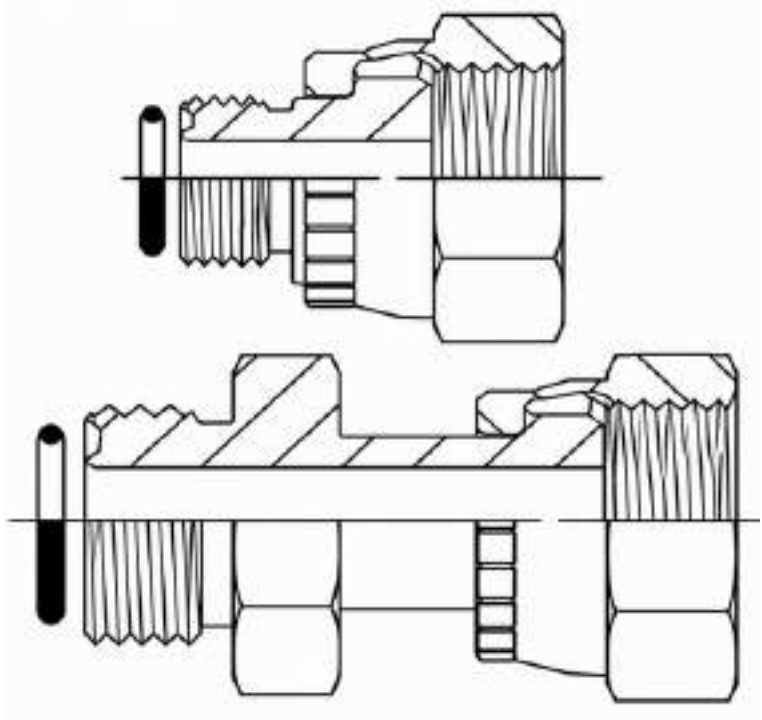


M x F ADAPTORS		
NPT x NPT SWIVEL		
	PART NUMBER	DESCRIPTION
	NTM-NSF-0202	1/8 NPTM x 1/8 NPTFSwiv
	NTM-NSF-0204	1/8 NPTM x 1/4 NPTFSwiv
	NTM-NSF-0404	1/4 NPTM x 1/4 NPTFSwiv
	NTM-NSF-0406	1/4 NPTM x 3/8 NPTFSwiv
	NTM-NSF-0604	3/8 NPTM x 1/4 NPTFSwiv
	NTM-NSF-0606	3/8 NPTM x 3/8 NPTFSwiv
	NTM-NSF-0608	3/8 NPTM x 1/2 NPTFSwiv
	NTM-NSF-0806	1/2 NPTM x 3/8 NPTFSwiv
	NTM-NSF-0808	1/2 NPTM x 1/2 NPTFSwiv
	NTM-NSF-0812	1/2 NPTM x 3/4 NPTFSwiv
	NTM-NSF-1208	3/4 NPTM x 1/2 NPTFSwiv
	NTM-NSF-1212	3/4 NPTM x 3/4 NPTFSwiv
	NTM-NSF-1216	3/4 NPTM x 1-0 NPTFSwiv
	NTM-NSF-1612	1-0 NPTM x 3/4 NPTFSwiv
	NTM-NSF-1616	1-0 NPTM x 1-0 NPTFSwiv
	NTM-NSF-2016	1-1/4 NPTM x 1-0 NPTFSwiv
	NTM-NSF-2020	1-1/4 NPTM x 1-1/4 NPTFSwiv
	NTM-NSF-2424	1-1/2 NPTM x 1-1/2 NPTFSwiv
	NTM-NSF-3232	2-0 NPTM x 2-0 NPTFSwiv

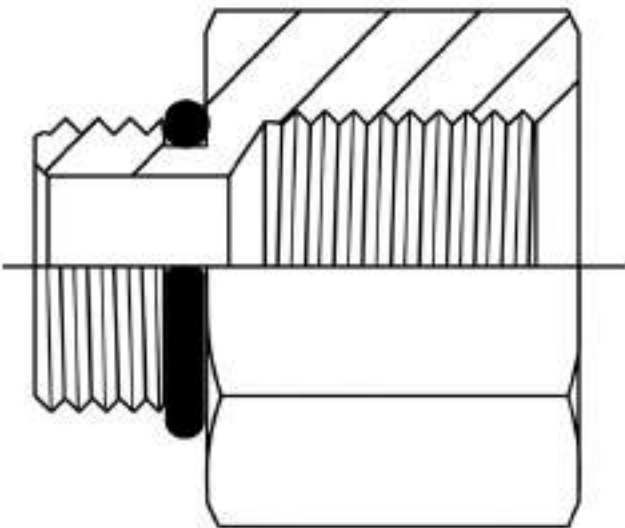
M x F ADAPTORS		
NPT x NPT		
	PART NUMBER	DESCRIPTION
	NTM-NTF-0202	1/8 NPTM x 1/8 NPTF Bush
	NTM-NTF-0204	1/8 NPTM x 1/4 NPTF Bush
	NTM-NTF-0206	1/8 NPTM x 3/8 NPTF Bush
	NTM-NTF-0208	1/8 NPTM x 1/2 NPTF Bush
	NTM-NTF-0402	1/4 NPTM x 1/8 NPTF R/Bush
	NTM-NTF-0404	1/4 NPTM x 1/4 NPTF Bush
	NTM-NTF-0406	1/4 NPTM x 3/8 NPTF Bush
	NTM-NTF-0408	1/4 NPTM x 1/2 NPTF Bush
	NTM-NTF-0412	1/4 NPTM x 3/4 NPTF Bush
	NTM-NTF-0602	3/8 NPTM x 1/8 NPTF R/Bush
	NTM-NTF-0604	3/8 NPTM x 1/4 NPTF R/Bush
	NTM-NTF-0606	3/8 NPTM x 3/8 NPTF Bush
	NTM-NTF-0608	3/8 NPTM x 1/2 NPTF Bush
	NTM-NTF-0612	3/8 NPTM x 3/4 NPTF Bush
	NTM-NTF-0802	1/2 NPTM x 1/8 NPTF R/Bush
	NTM-NTF-0804	1/2 NPTM x 1/4 NPTF R/Bush
	NTM-NTF-0806	1/2 NPTM x 3/8 NPTF R/Bush
	NTM-NTF-0808	1/2 NPTM x 1/2 NPTF Bush
	NTM-NTF-0812	1/2 NPTM x 3/4 NPTF Bush
	NTM-NTF-0816	1/2 NPTM x 1-0 NPTF Bush
	NTM-NTF-1204	3/4 NPTM x 1/4 NPTF R/Bush
	NTM-NTF-1206	3/4 NPTM x 3/8 NPTF R/Bush
	NTM-NTF-1208	3/4 NPTM x 1/2 NPTF R/Bush
	NTM-NTF-1212	3/4 NPTM x 3/4 NPTF Bush
	NTM-NTF-1216	3/4 NPTM x 1-0 NPTF R/Bush
	NTM-NTF-1604	1-0 NPTM x 1/4 NPTF R/Bush
	NTM-NTF-1606	1-0 NPTM x 3/8 NPTF R/Bush
	NTM-NTF-1608	1-0 NPTM x 1/2 NPTF R/Bush
	NTM-NTF-1612	1-0 NPTM x 3/4 NPTF R/Bush
	NTM-NTF-1616	1-0 NPTM x 1-0 NPTF Bush
	NTM-NTF-1620	1-0 NPTM x 1-1/4 NPTF Bush
	NTM-NTF-2008	1-1/4 NPTM x 1/2 NPTF Bush
	NTM-NTF-2012	1-1/4 NPTM x 3/4 NPTF R/Bush
	NTM-NTF-2016	1-1/4 NPTM x 1-0 NPTF R/Bush
	NTM-NTF-2020	1-1/4 NPTM x 1-1/4 NPTF Bush
	NTM-NTF-2412	1-1/2 NPTM x 3/4 NPTF R/Bush
	NTM-NTF-2416	1-1/2 NPTM x 1-0 NPTF R/Bush
	NTM-NTF-2420	1-1/2 NPTM x 1-1/4 NPTF R/Bush
	NTM-NTF-3216	2-0 NPTM x 1-0 NPTF R/Bush
	NTM-NTF-3220	2-0 NPTM x 1-1/4 NPTF R/Bush
	NTM-NTF-3224	2-0 NPTM x 1-1/2 NPTF R/Bush

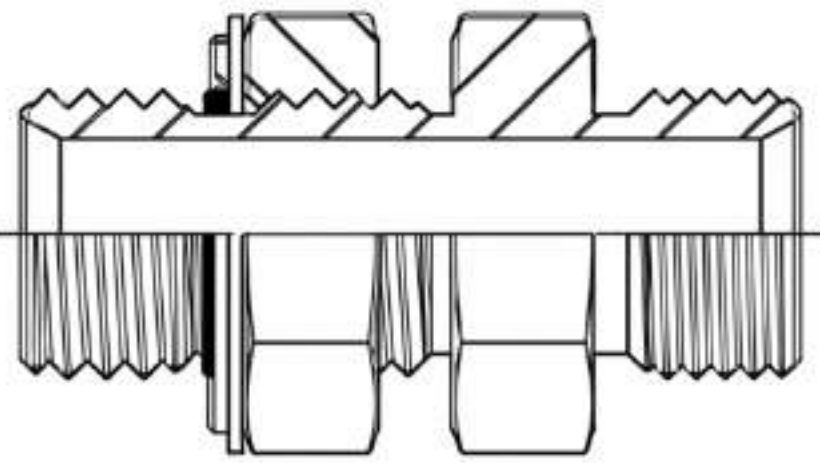
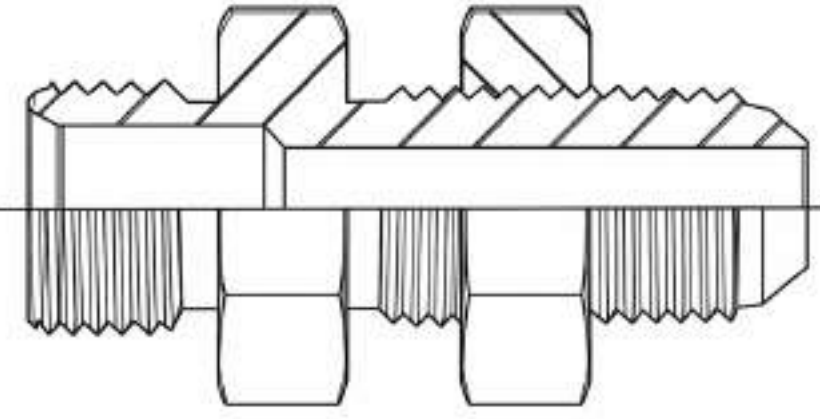
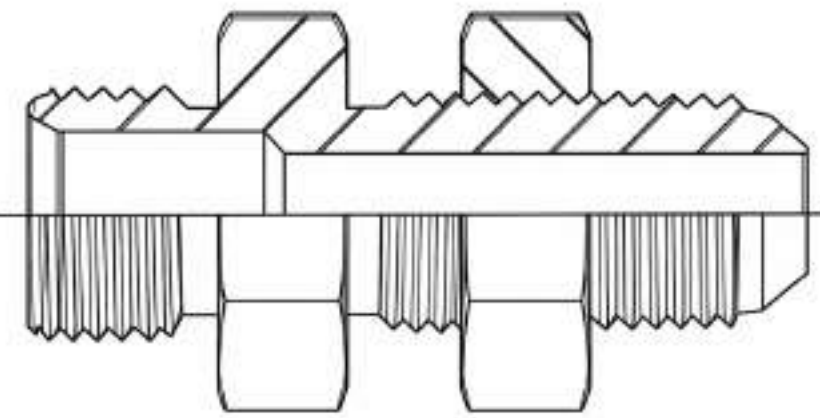


M x F ADAPTORS		
ORFS x UNO		
	PART NUMBER	DESCRIPTION
	ORF-UNM-0907	9/16 ORFS FS x 7/16 UNO M
	ORF-UNM-1109	11/16 ORFS FS x 9/16 UNO M
	ORF-UNM-1312	13/16 ORFS FS x 3/4 UNO M
	ORF-UNM-1614	1-0 ORFS FS x 7/8 UNO M
	ORF-UNM-1917	1-3/16 ORFS FS x 1-1/16 UNO M
	ORF-UNM-2321	1-7/16 ORFS FS x 1-5/16 UNO M
M x F ADAPTORS		
ORFS x ORFS FIXED		
	PART NUMBER	DESCRIPTION
	ORM-OFF-1109	11/16 ORFSM x 9/16 ORFS FS
	ORM-OFF-1311	13/16 ORFSM x 11/16 ORFS FS
	ORM-OFF-1611	1-0 ORFSM x 11/16 ORFS FS
	ORM-OFF-1613	1-0 ORFSM x 13/16 ORFS FS
	ORM-OFF-1913	1-3/16 ORFSM x 13/16 ORFS FS
	ORM-OFF-1916	1-3/16 ORFSM x 1-0 ORFS FS
	ORM-OFF-2316	1-7/16 ORFSM x 1-0 ORFS FS
	ORM-OFF-2319	1-7/16 ORFSM x 1-3/16 ORFS FS
	ORM-OFF-2719	1-11/16 ORFSM x 1-3/16 ORFS FS
	ORM-OFF-2723	1-11/16 ORFSM x 1-7/16 ORFS FS
	ORM-OFF-3227	2 ORFSM x 1-11/16 ORFS FS

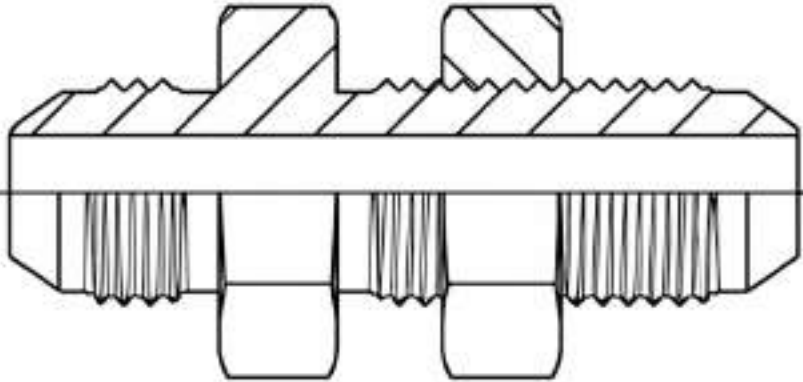
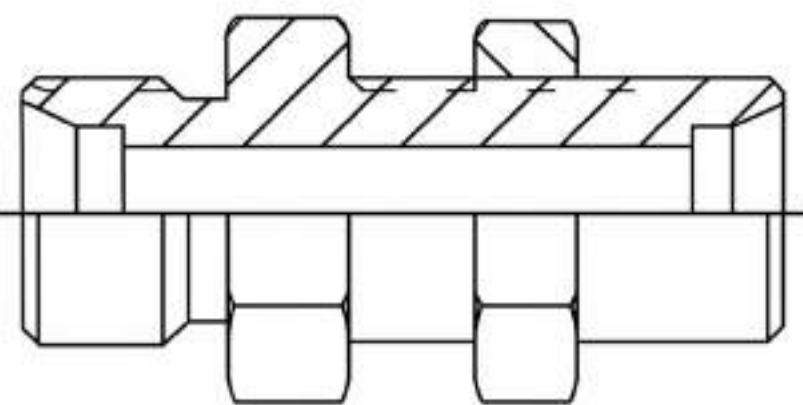
M x F ADAPTORS		
ORFS x ORFS SWIVEL		
	PART NUMBER	DESCRIPTION
	ORM-ORF-0909	9/16 ORFS M x 9/16 ORFS FS
	ORM-ORF-0911	9/16 ORFS M x 11/16 ORFS FS
	ORM-ORF-0913	9/16 ORFS M x 13/16 ORFS FS
	ORM-ORF-0916	9/16 ORFS M x 1-0 ORFS FS
	ORM-ORF-0919	9/16 ORFS M x 1-3/16 ORFS FS
	ORM-ORF-1111	11/16 ORFS M x 11/16 ORFS FS
	ORM-ORF-1113	11/16 ORFS M x 13/16 ORFS FS
	ORM-ORF-1116	11/16 ORFS M x 1-0 ORFS FS
	ORM-ORF-1119	11/16 ORFS M x 1-3/16 ORFS FS
	ORM-ORF-1313	13/16 ORFS M x 13/16 ORFS FS
	ORM-ORF-1316	13/16 ORFS M x 1-0 ORFS FS
	ORM-ORF-1319	13/16 ORFS M x 1-3/16 ORFS FS
	ORM-ORF-1323	13/16 ORFS M x 1-7/16 ORFS FS
	ORM-ORF-1327	13/16 ORFS M x 1-11/16 ORFS FS
	ORM-ORF-1616	1-0 ORFS M x 1-0 ORFS FS
	ORM-ORF-1619	1-0 ORFS M x 1-3/16 ORFS FS
	ORM-ORF-1623	1 ORFS M x 1-7/16 ORFS FS
	ORM-ORF-1913	1-3/16 ORFS M x 13/16 ORFS FS
	ORM-ORF-1916	1-3/16 ORFS M x 1-0 ORFS FS
	ORM-ORF-1919	1-3/16 ORFS M x 1-3/16 ORFS FS
	ORM-ORF-1923	1-3/16 ORFS M x 1-7/16 ORFS FS
	ORM-ORF-1927	1-3/16 ORFSM x 1-11/16 ORFS FS
	ORM-ORF-2323	1-7/16 ORFS M x 1-7/16 ORFS FS
	ORM-ORF-2327	1-7/16 ORFSM x 1-11/16 ORFS FS
	ORM-ORF-2332	1-7/16 ORFSM x 2-0 ORFSFS
	ORM-ORF-2727	1-11/16 ORFSM x 1-11/16ORFS FS
	ORM-ORF-2732	1-11/16 ORFSM x 2-0 ORFS FS

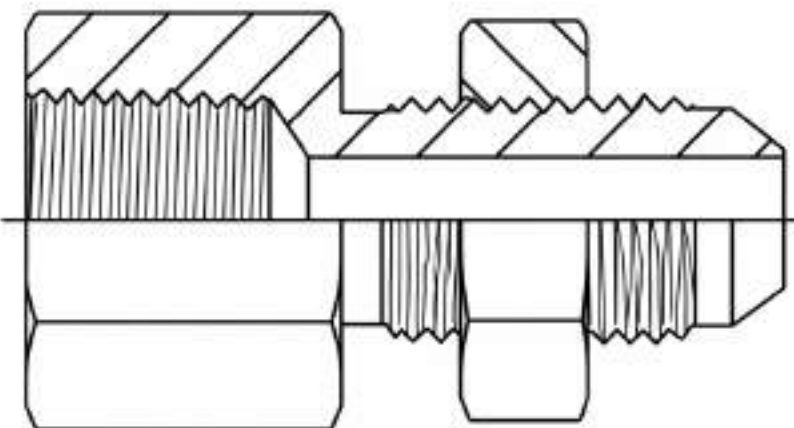
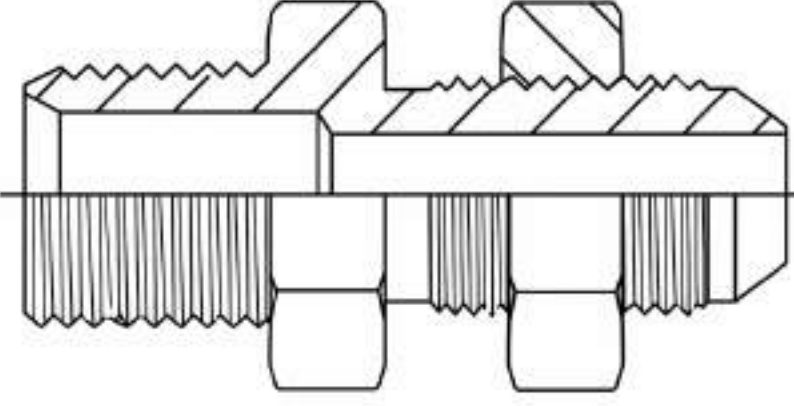


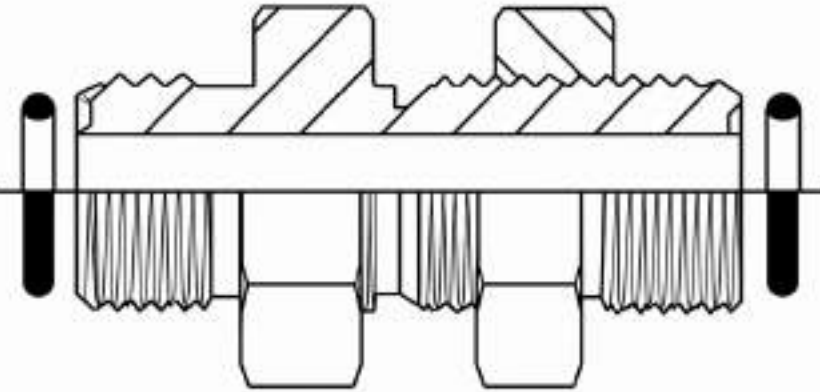
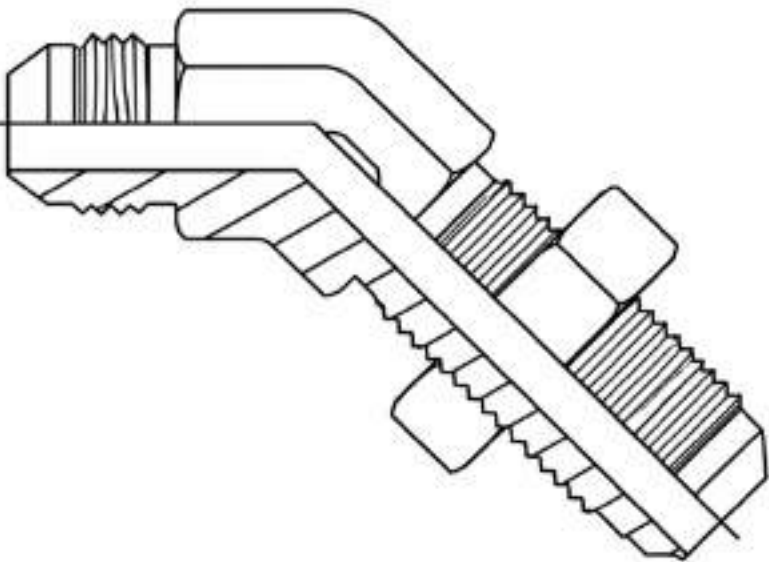
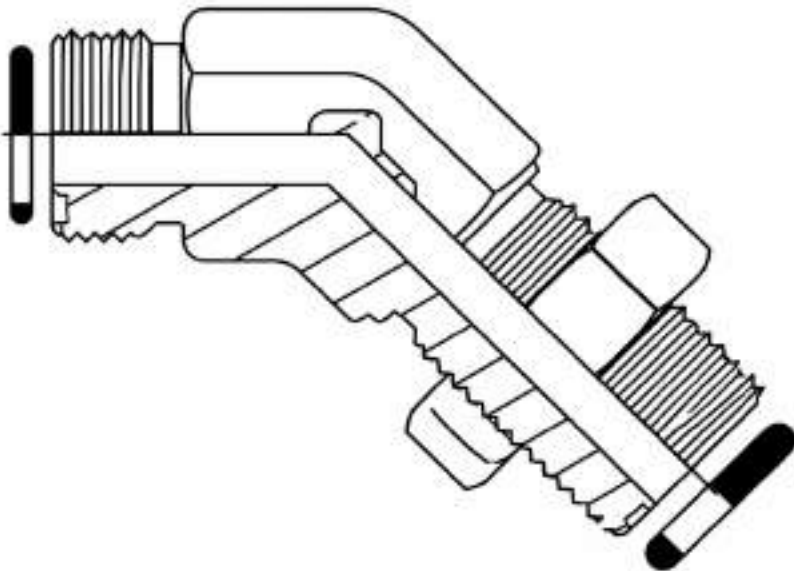
M x F ADAPTORS		
UNO x UNO		
	PART NUMBER	DESCRIPTION
	UNM-UNF-0707	7/16 UNO M x 7/16 UNO F
	UNM-UNF-0709	7/16 UNO M x 9/16 UNO F
	UNM-UNF-0907	9/16 UNO M x 7/16 UNO F
	UNM-UNF-0908	9/16 UNO M x 1/2 UNO F
	UNM-UNF-0909	9/16 UNO M x 9/16 UNO F
	UNM-UNF-0912	9/16 UNO M x 3/4 UNO F
	UNM-UNF-1207	3/4 UNO M x 7/16 UNO F
	UNM-UNF-1209	3/4 UNO M x 9/16 UNO F
	UNM-UNF-1212	3/4 UNO M x 3/4 UNO F
	UNM-UNF-1214	3/4 UNO M x 7/8 UNO F
	UNM-UNF-1217	3/4 UNO M x 1-1/16 UNO F
	UNM-UNF-1407	7/8 UNO M x 7/16 UNO F
	UNM-UNF-1409	7/8 UNO M x 9/16 UNO F
	UNM-UNF-1412	7/8 UNO M x 3/4 UNO F
	UNM-UNF-1417	7/8 UNO M x 1-1/16 UNO F
	UNM-UNF-1709	1-1/16 UNO M x 9/16 UNO F
	UNM-UNF-1712	1-1/16 UNO M x 3/4 UNO F
	UNM-UNF-1714	1-1/16 UNO M x 7/8 UNO F
	UNM-UNF-1717	1-1/16 UNO M x 1-1/16 UNO F
	UNM-UNF-1721	1-1/16 UNO M x 1-5/16 UNO F
	UNM-UNF-1917	1-3/16 UNO M x 1-1/16 UNO F
	UNM-UNF-2112	1-5/16 UNO M x 3/4 UNO F
	UNM-UNF-2114	1-5/16 UNO M x 7/8 UNO F
	UNM-UNF-2117	1-5/16 UNO M x 1-1/16 UNO F
	UNM-UNF-2617	1-5/8 UNO M x 1-1/16 UNO F
	UNM-UNF-2621	1-5/8 UNO M x 1-5/16 UNO F
	UNM-UNF-3017	1-7/8 UNO M x 1-1/16 UNO F
	UNM-UNF-3021	1-7/8 UNO M x 1-5/16 UNO F
	UNM-UNF-3026	1-7/8 UNO M x 1-5/8 UNO F
	UNM-UNF-4026	2-1/2 UNO M x 1-5/8 UNO F
	UNM-UNF-4030	2-1/2 UNO M x 1-7/8 UNO FF

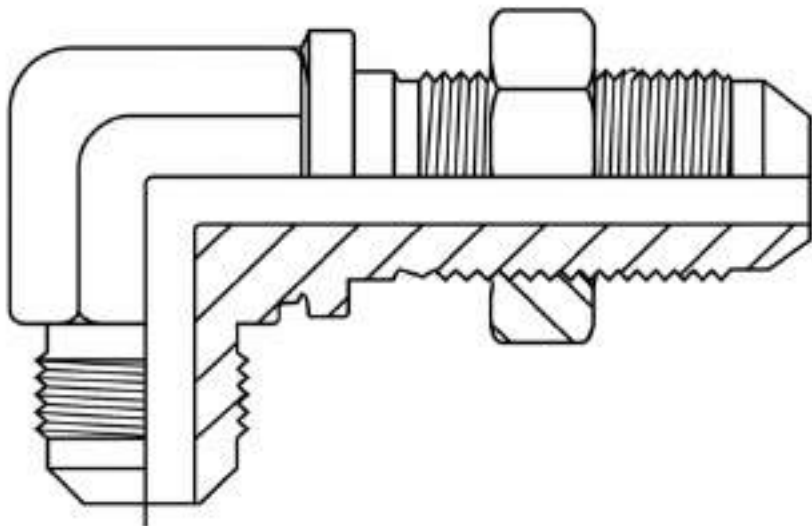
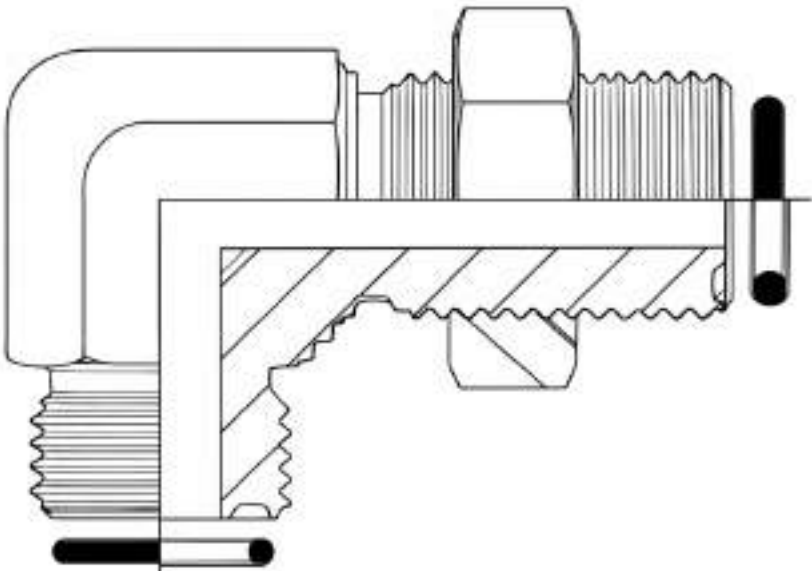
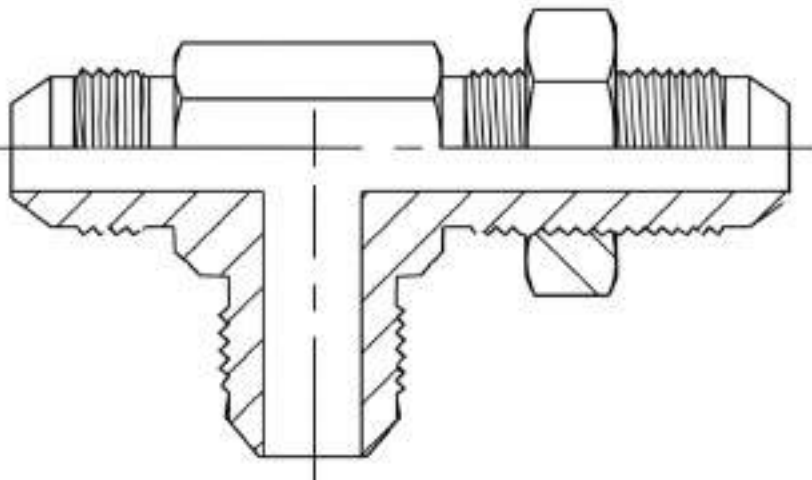
BULKHEAD		
BSPP x BSPP		
	PART NUMBER	DESCRIPTION
	BPM-BBM-0202	1/8 BSPPM x BSPPM B/Head
	BPM-BBM-0404	1/4 BSPPM x BSPPM B/Head
	BPM-BBM-0606	3/8 BSPPM x BSPPM B/Head
	BPM-BBM-0806	1/2 BSPPM x 3/8 BSPPM B/Head
	BPM-BBM-0808	1/2 BSPPM x BSPPM B/Head
	BPM-BBM-1010	5/8 BSPPM x BSPPM B/Head
	BPM-BBM-1212	3/4 BSPPM x BSPPM B/Head
	BPM-BBM-1616	1-0 BSPPM x BSPPM B/Head
	BPM-BBM-2020	1-1/4 BSPPM x BSPPM B/Head
	BPM-BBM-2424	1-1/2 BSPPM x BSPPM B/Head
	BPM-BBM-3232	2-0 BSPPM x 2-0 BSPPM B/Head
BULKHEAD		
BSPP x JIC		
	PART NUMBER	DESCRIPTION
	BPM-JBM-0407	1/4 BSPPM x 7/16 JICM B/Head
	BPM-JBM-0409	1/4 BSPPM x 9/16 JICM B/Head
	BPM-JBM-0609	3/8 BSPPM x 9/16 JICM B/Head
	BPM-JBM-0612	3/8 BSPPM x 3/4 JICM B/Head
	BPM-JBM-0812	1/2 BSPPM x 3/4 JICM B/Head
	BPM-JBM-0814	1/2 BSPPM x 7/8 JICM B/Head
	BPM-JBM-1217	3/4 BSPPM x 1-1/16 JICM B/Head
	BPM-JBM-1621	1-0 BSPPM x 1-5/16 JICM B/Head
BULKHEAD		
BSPP x ORFS		
	PART NUMBER	DESCRIPTION
	BPM-OBM-0611	3/8 BSPPM x 11/16 ORFS B/Head
	BPM-OBM-0813	1/2 BSPPM x 13/16 ORFS B/Head
	BPM-OBM-0816	1/2 BSPPM x 1-0 ORFS B/Head
	BPM-OBM-0819	1/2 BSPPM x 1-3/16 ORFS B/Head
	BPM-OBM-1623	1-0 BSPPM x 1-7/16 ORFS B/Head
	BPM-OBM-2027	1-1/4 BSPPMx1-11/16 ORFSB/Head



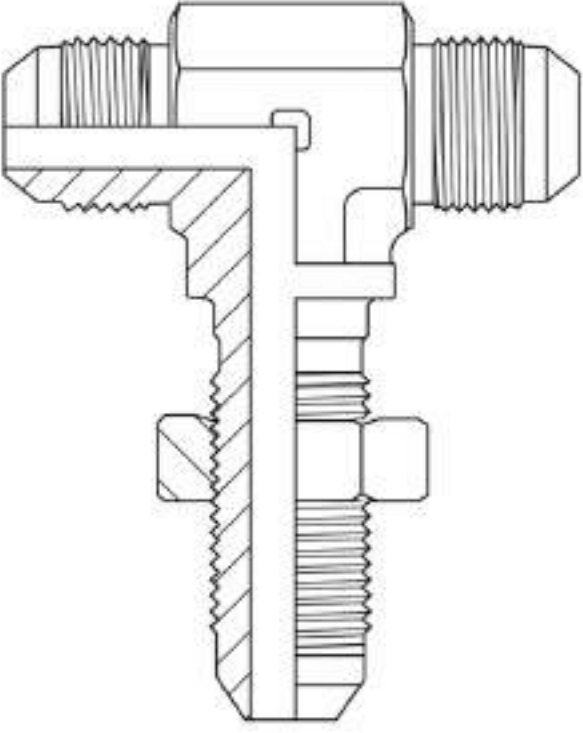
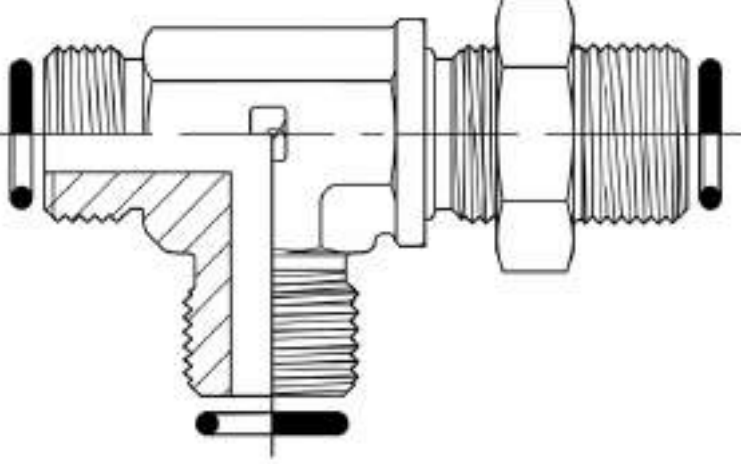
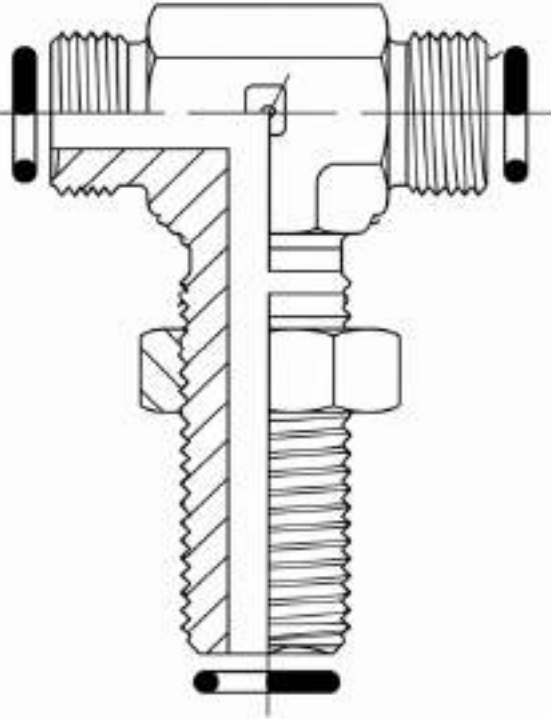
BULKHEAD		
JIC x JIC		
	PART NUMBER	DESCRIPTION
	JIM-JBM-0707	7/16 JICM B/Head
	JIM-JBM-0808	1/2 JICM B/Head
	JIM-JBM-0909	9/16 JICM B/Head
	JIM-JBM-1212	3/4 JICM B/Head
	JIM-JBM-1414	7/8 JICM B/Head
	JIM-JBM-1717	1-1/16 JICM B/Head
	JIM-JBM-1919	1-3/16 JICM B/Head
	JIM-JBM-2121	1-5/16 JICM B/Head
	JIM-JBM-2626	1-5/8 JICM B/Head
	JIM-JBM-3030	1-7/8 JICM B/Head
	JIM-JBM-4040	2-1/2 JICM B/Head
BULKHEAD		
METRIC HEAVY x METRIC HEAVY		
	PART NUMBER	DESCRIPTION
	MHM-MHB-1414	14x1.5 MHM B/Head
	MHM-MHB-1616	16x1.5 MHM B/Head
	MHM-MHB-1818	18x1.5 MHM B/Head
	MHM-MHB-2020	20x1.5 MHM B/Head
	MHM-MHB-2222	22x1.5 MHM B/Head
	MHM-MHB-2424	24x1.5 MHM B/Head
	MHM-MHB-3030	30x2.0 MHM B/Head
	MHM-MHB-3636	36x2.0 MHM B/Head
	MHM-MHB-4242	42x2.0 MHM B/Head
	MHM-MHB-5252	52x2.0 MHM B/Head

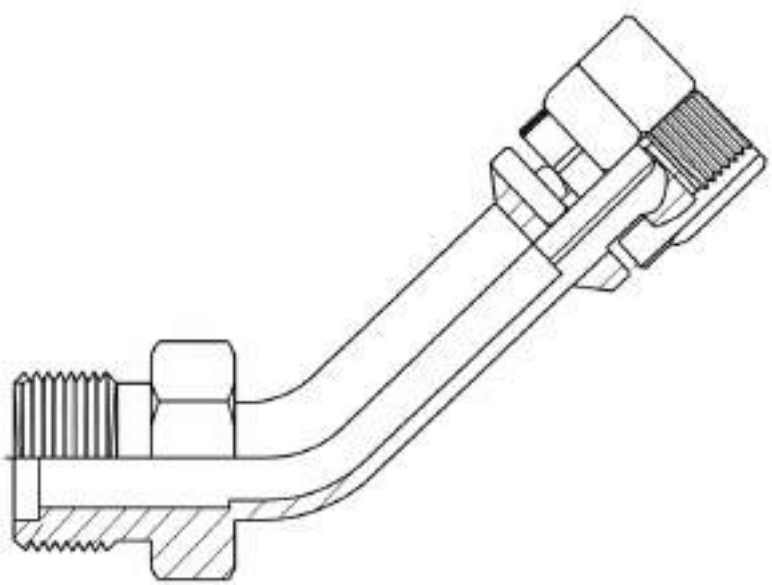
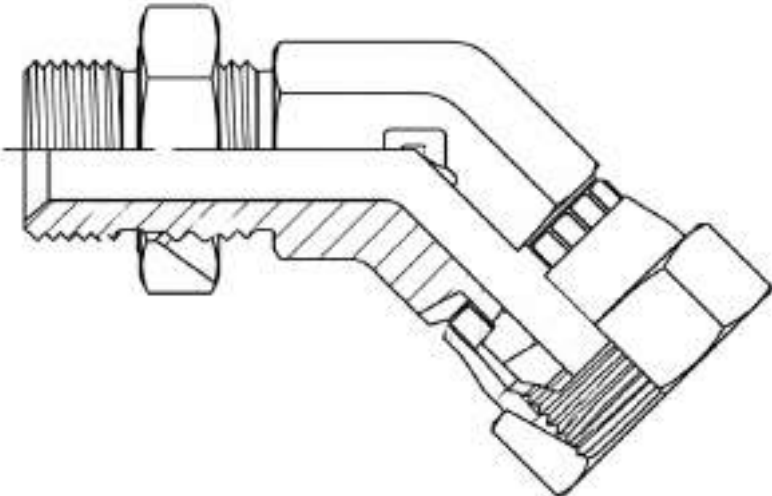
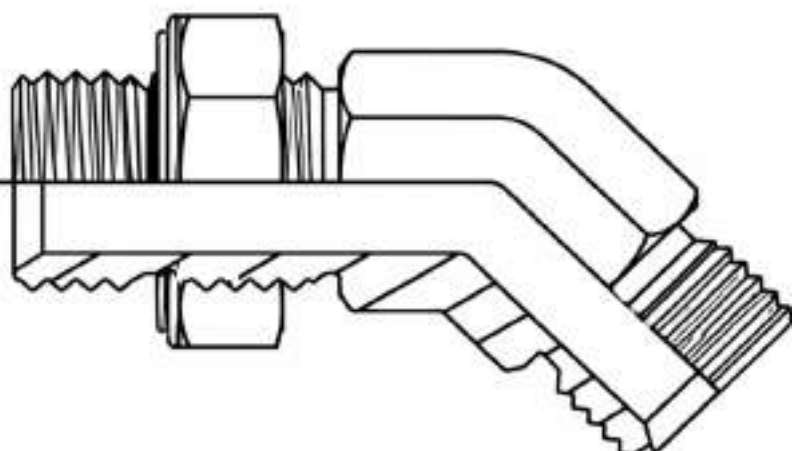
BULKHEAD		
NPTF x JIC		
	PART NUMBER	DESCRIPTION
	NTF-JBM-0207	1/8 NPTF x 7/16 JICM B/Head
	NTF-JBM-0407	1/4 NPTF x 7/16 JICM B/Head
	NTF-JBM-0409	1/4 NPTF x 9/16 JICM B/Head
	NTF-JBM-0609	3/8 NPTF x 9/16 JICM B/Head
	NTF-JBM-0612	3/8 NPTFF x 3/4 JICM B/Head
	NTF-JBM-0812	1/2 NPTF x 3/4 JICM B/Head
	NTF-JBM-0814	1/2 NPTFF x 7/8 JICM B/Head
	NTF-JBM-1217	3/4 NPTF x 1-1/16 JICM B/Head
	NTF-JBM-1621	1-0 NPTF x 1-5/16 JICM B/Head
	NTF-JBM-2026	1-1/4 NPTF x 1-5/8 JICM B/Head
BULKHEAD		
NPTM x JIC		
	PART NUMBER	DESCRIPTION
	NTM-JBM-0207	1/8 NPTM x 7/16 JICM B/Head
	NTM-JBM-0407	1/4 NPTM x 7/16 JICM B/Head
	NTM-JBM-0409	1/4 NPTM x 9/16 JIC B/Head
	NTM-JBM-0607	3/8 NPTM x 7/16 JICM B/Head
	NTM-JBM-0609	3/8 NPTM x 9/16 JICM B/Head
	NTM-JBM-0612	3/8 NPTM x 3/4 JICM B/Head
	NTM-JBM-0812	1/2 NPTM x 3/4 JIC B/Head
	NTM-JBM-0814	1/2 NPTM x 7/8 JIC B/Head
	NTM-JBM-0817	1/2 NPTM x 1-1/16 JICM B/Head
	NTM-JBM-1217	3/4 NPTM x 1-1/16 JICM B/Head
	NTM-JBM-1621	1-0 NPTM x 1-5/16 JICM B/Head
	NTM-JBM-2026	1-1/4 NPTM x 1-5/8 JICM B/Head

BULKHEAD		
ORFS x ORFS		
	PART NUMBER	DESCRIPTION
	ORM-OBM-0909	9/16 ORFS B/Head
	ORM-OBM-1111	11/16 ORFS B/Head
	ORM-OBM-1313	13/16 ORFS B/Head
	ORM-OBM-1316	13/16 x 1-0 ORFS B/Head
	ORM-OBM-1616	1-0 ORFS B/Head
	ORM-OBM-1619	1-0 x 1-3/16 ORFS B/Head
	ORM-OBM-1919	1-3/16 ORFS B/Head
	ORM-OBM-2323	1-7/16 ORFS B/Head
	ORM-OBM-2727	1-11/16 ORFS B/Head
	ORM-OBM-3232	2-0 ORFSM B/Head
BULKHEAD		
45° JIC x JIC		
	PART NUMBER	DESCRIPTION
	JIM-JBM-45C-0707	7/16 JICM B/Head 45C
	JIM-JBM-45C-0808	1/2 JICM B/Head 45C
	JIM-JBM-45C-0909	9/16 JICM B/Head 45C
	JIM-JBM-45C-1212	3/4 JICM B/Head 45C
	JIM-JBM-45C-1414	7/8 JICM B/Head 45C
	JIM-JBM-45C-1717	1-1/16 JICM B/Head 45C
	JIM-JBM-45C-2121	1-5/16 JICM B/Head 45C
	JIM-JBM-45C-2626	1-5/8 JICM B/Head 45C
BULKHEAD		
45° ORFS x ORFS		
	PART NUMBER	DESCRIPTION
	ORM-OBM-45C-0909	9/16 ORFSM B/Head 45C
	ORM-OBM-45C-1111	11/16 ORFSM B/Head 45C
	ORM-OBM-45C-1313	13/16 ORFSM B/Head 45C
	ORM-OBM-45C-1616	1-0 ORFSM B/Head 45C
	ORM-OBM-45C-1919	1-3/16 ORFSM B/Head 45C
	ORM-OBM-45C-2323	1-7/16 ORFSM B/Head 45C
	ORM-OBM-45C-2727	1-11/16 ORFSM B/Head 45C
	ORM-OBM-45C-3232	2-0 ORFSM B/Head 45C

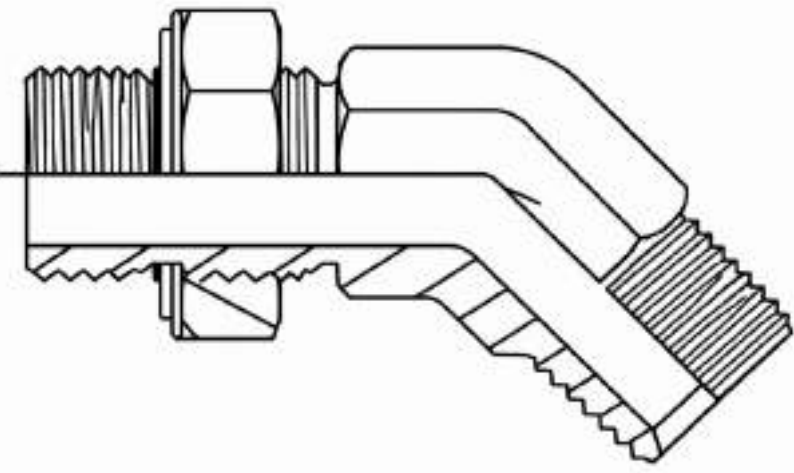
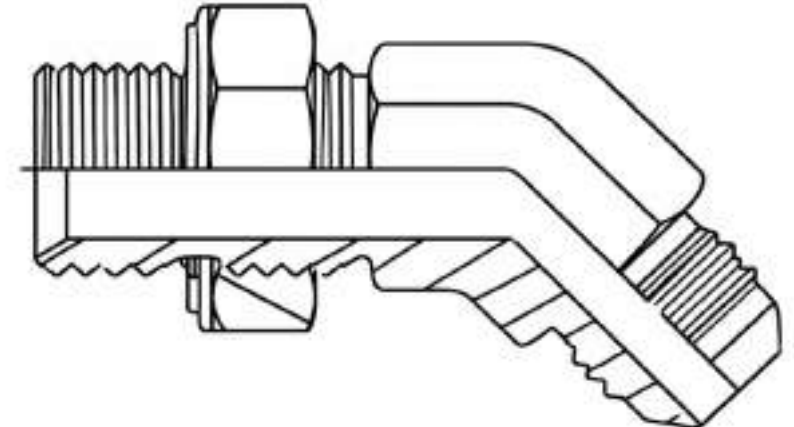
BULKHEAD		
90° JIC x JIC		
	PART NUMBER	DESCRIPTION
	JIM-JBM-90C-0707	7/16 JICM B/Head 90C
	JIM-JBM-90C-0808	1/2 JICM B/Head 90C
	JIM-JBM-90C-0909	9/16 JICM B/Head 90C
	JIM-JBM-90C-1212	3/4 JICM B/Head 90C
	JIM-JBM-90C-1414	7/8 JICM B/Head 90C
	JIM-JBM-90C-1717	1-1/16 JICM B/Head 90C
	JIM-JBM-90C-2121	1-5/16 JICM B/Head 90C
	JIM-JBM-90C-2626	1-5/8 JICM B/Head 90C
	JIM-JBM-90C-3030	1-7/8 JICM B/Head 90C
BULKHEAD		
90° JIC x JIC		
	PART NUMBER	DESCRIPTION
	ORM-OBM-90C-0909	9/16 ORFSM B/Head 90C
	ORM-OBM-90C-1111	11/16 ORFSM B/Head 90C
	ORM-OBM-90C-1313	13/16 ORFSM B/Head 90C
	ORM-OBM-90C-1616	1-0 ORFSM B/Head 90C
	ORM-OBM-90C-1919	1-3/16 ORFSM B/Head 90C
	ORM-OBM-90C-2323	1-7/16 ORFSM B/Head 90C
	ORM-OBM-90C-2727	1-11/16 ORFSM B/Head 90C
	ORM-OBM-90C-3232	2-0 ORFSM B/Head 90C
BULKHEAD		
JIC RUN TEE		
	PART NUMBER	DESCRIPTION
	JIM-JBM-JIM-070707	7/16 JICM B/Head Run Tee
	JIM-JBM-JIM-090909	9/16 JICM B/Head Run Tee
	JIM-JBM-JIM-121212	3/4 JICM B/Head Run Tee
	JIM-JBM-JIM-141414	7/8 JICM B/Head Run Tee
	JIM-JBM-JIM-171717	1-1/16 JICM B/Head Run Tee
	JIM-JBM-JIM-212121	1-5/16 JICM B/Head Run Tee

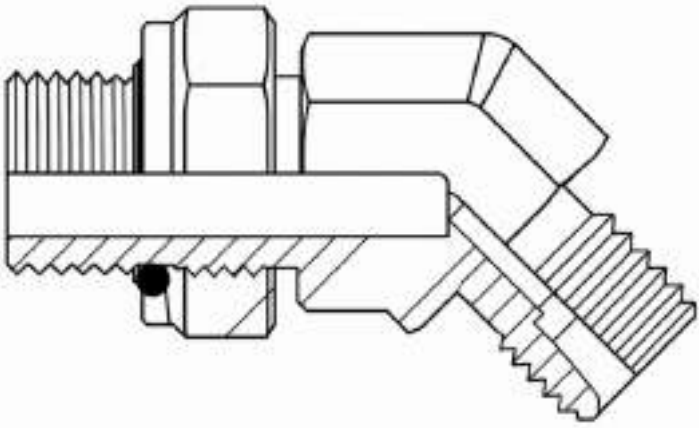
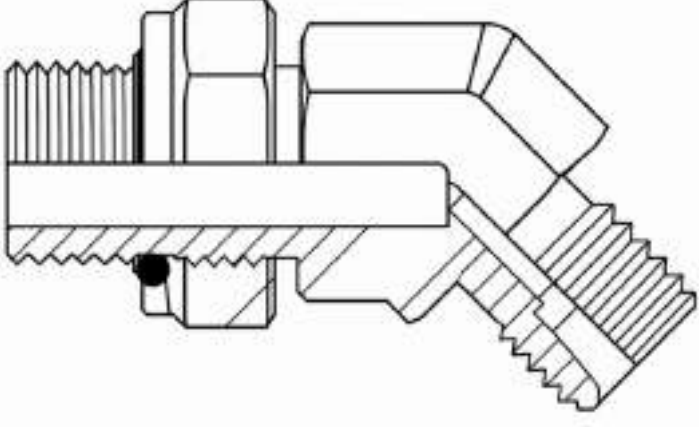


BULKHEAD		
JIC DROP TEE		
	PART NUMBER	DESCRIPTION
	JIM-JIM-JBM-070707	7/16 JICM B/Head Drop T
	JIM-JIM-JBM-090909	9/16 JICM B/Head Drop T
	JIM-JIM-JBM-121212	3/4 JICM B/Head Drop T
	JIM-JIM-JBM-141414	7/8 JICM B/Head Drop T
	JIM-JIM-JBM-171717	1-1/16 JIC B/Head Drop T
	JIM-JIM-JBM-212121	1-5/16 JICM B/Head Drop T
BULKHEAD		
ORFS RUN TEE		
	PART NUMBER	DESCRIPTION
	ORM-OBM-ORM-090909	9/16 ORFSM B/Head Run Tee
	ORM-OBM-ORM-111111	11/16 ORFSM B/Head Run Tee
	ORM-OBM-ORM-131313	13/16 ORFSM B/Head Run Tee
	ORM-OBM-ORM-161616	1-0 ORFSM B/Head Run Tee
	ORM-OBM-ORM-191919	1-3/16 ORFSM B/Head Run Tee
	ORM-OBM-ORM-232323	1-7/16 ORFSM B/Head Run Tee
BULKHEAD		
ORFS DROP TEE		
	PART NUMBER	DESCRIPTION
	ORM-ORM-OBM-090909	9/16 ORFSM x ORFS Bulk Drop T
	ORM-ORM-OBM-111111	11/16 ORFSM x ORFS Bulk Drop T
	ORM-ORM-OBM-131313	13/16 ORFSM x ORFS Bulk Drop T
	ORM-ORM-OBM-191919	1-3/16 ORFSM x ORFS Bulk DropT
	ORM-ORM-OBM-232323	1-7/16 ORFSM x ORFS Bulk DropT
	ORM-ORM-OBM-272727	1-11/16 ORFSM x ORFSBulk DropT

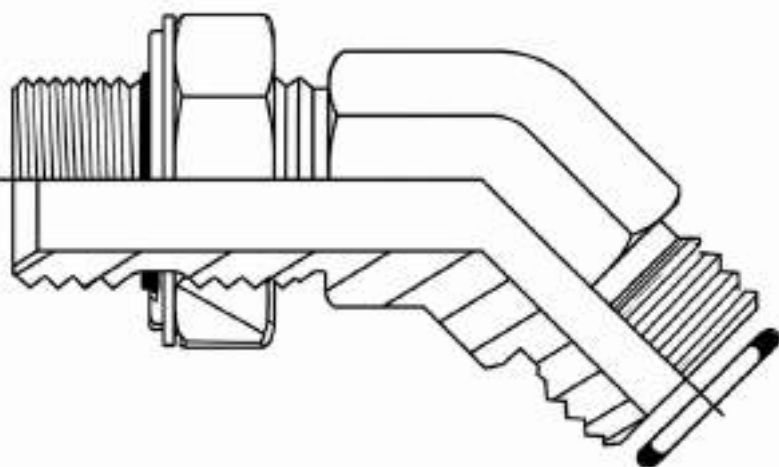
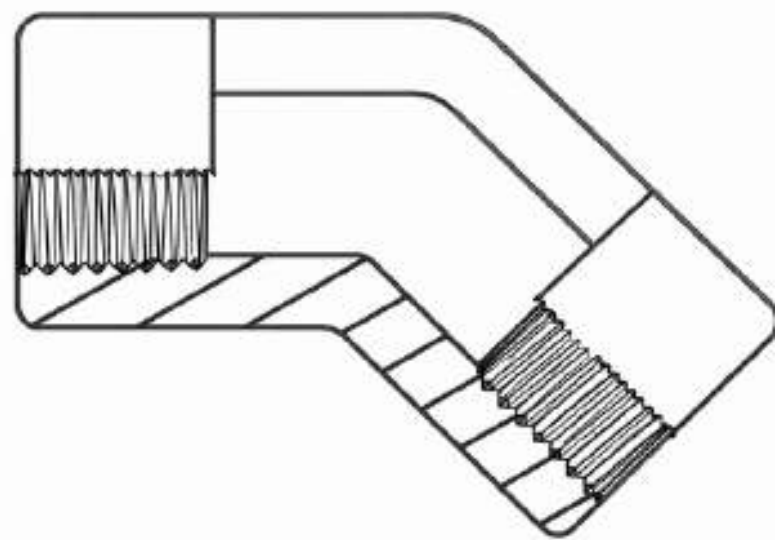
45° ADAPTORS		
BSPP x BSPP F SWIVEL		
	PART NUMBER	DESCRIPTION
	BPM-BSF-45S-0404	1/4 BSPPM x 1/4 BSPPFS 45S
	BPM-BSF-45S-0606	3/8 BSPPM x 3/8 BSPPFS 45S
	BPM-BSF-45S-0808	1/2 BSPPM x 1/2 BSPPFS 45S
	BPM-BSF-45S-1212	3/4 BSPPM x 3/4 BSPPFS 45S
	BPM-BSF-45S-1616	1-0 BSPPM x 1-0 BSPPFS 45S
	BPM-BSF-45S-2020	1-1/4 BSPPM x 1-1/4 BSPPFS 45S
45° ADAPTORS		
BSPP x BSPP F SWIVEL		
	PART NUMBER	DESCRIPTION
	BPM-BSF-45C-0202	1/8 BSPP P x 1/8 BSPPFS 45C
	BPM-BSF-45C-0404	1/4 BSPP P x 1/4 BSPPFS 45C
	BPM-BSF-45C-0606	3/8 BSPP P x 3/8 BSPPFS 45C
	BPM-BSF-45C-0808	1/2 BSPP P x 1/2 BSPPFS 45C
	BPM-BSF-45C-1212	3/4 BSPP P x 3/4 BSPPFS 45C
	BPM-BSF-45C-1616	1-0 BSPP P x 1-0 BSPPFS 45C
45° ADAPTORS		
BSPP M x BSPP M		
	PART NUMBER	DESCRIPTION
	BPM-BPM-45C-0404	1/4 BSPP P x 1/4 BSPPM 45C
	BPM-BPM-45C-0606	3/8 BSPP P x 3/8 BSPPM 90C
	BPM-BPM-45C-0808	1/2 BSPP P x 1/2 BSPPM 45C
	BPM-BPM-45C-1212	3/4 BSPP P x 3/4 BSPPM 45C
	BPM-BPM-45C-1616	1-0 BSPP P x 1-0 BSPPM 45C

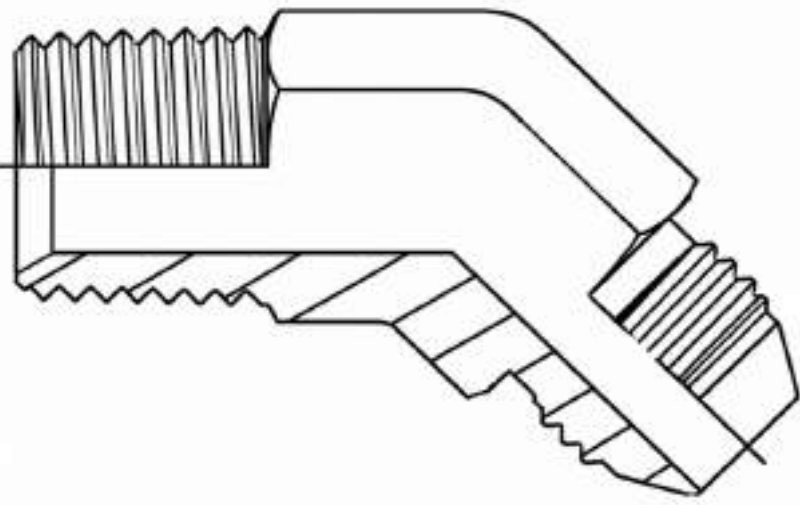
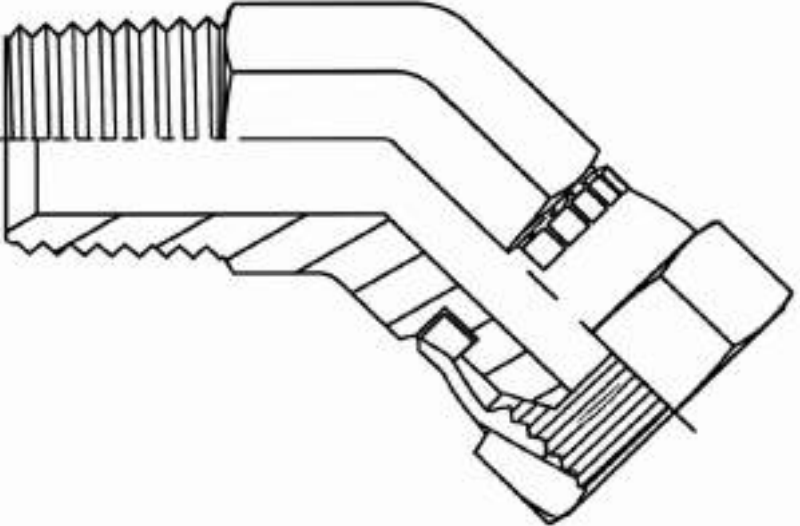
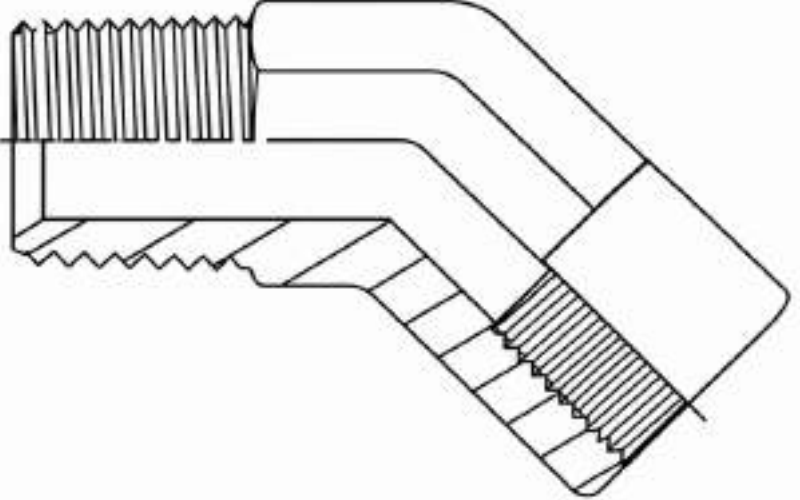


45° ADAPTORS		
BSPP M x BSPT M		
	PART NUMBER	DESCRIPTION
	BPM-BTM-45C-0202	1/8 BSPPM Adj x 1/8 BSPTM 45
	BPM-BTM-45C-0404	1/4 BSPP P x 1/4 BSPTM 45C
	BPM-BTM-45C-0606	3/8 BSPP P x 3/8 BSPTM 45C
	BPM-BTM-45C-0808	1/2 BSPP P x 1/2 BSPTM 45C
	BPM-BTM-45C-1212	3/4 BSPP P x 3/4 BSPTM 45C
	BPM-BTM-45C-1616	1-0 BSPP P x 1-0 BSPTM 45C
45° ADAPTORS		
BSPP M x JIC M		
	PART NUMBER	DESCRIPTION
	BPM-JIM-45C-0207	1/8 BSPP P x 7/16 JICM 45C
	BPM-JIM-45C-0407	1/4 BSPP P x 7/16 JICM 45C
	BPM-JIM-45C-0409	1/4 BSPP P x 9/16 JICM 45C
	BPM-JIM-45C-0412	1/4 BSPP P x 3/4 JICM 45C
	BPM-JIM-45C-0607	3/8 BSPP P x 7/16 JICM 45C
	BPM-JIM-45C-0609	3/8 BSPP P x 9/16 JICM 45C
	BPM-JIM-45C-0612	3/8 BSPP P x 3/4 JICM 45C
	BPM-JIM-45C-0614	3/8 BSPP P x 7/8 JICM 45C
	BPM-JIM-45C-0809	1/2 BSPP P x 9/16 JICM 45C
	BPM-JIM-45C-0812	1/2 BSPP P x 3/4 JICM 45C
	BPM-JIM-45C-0814	1/2 BSPP P x 7/8 JICM 45C
	BPM-JIM-45C-0817	1/2 BSPP P x 1-1/16 JICM 45C
	BPM-JIM-45C-1212	3/4 BSPP P x 3/4 JICM 45C
	BPM-JIM-45C-1214	3/4 BSPP P x 7/8 JICM 45C
	BPM-JIM-45C-1217	3/4 BSPP P x 1-1/16 JICM 45C
	BPM-JIM-45C-1221	3/12 BSPP P x 1-5/16 JICM 45C
	BPM-JIM-45C-1617	1-0 BSPP P x 1-1/16 JICM 45C
	BPM-JIM-45C-1621	1-0 BSPP P x 1-5/16 JICM 45C
	BPM-JIM-45C-1626	1-0 BSPP P x 1-5/8 JICM 45C
	BPM-JIM-45C-2026	1-1/4 BSPP P x 1-5/8 JICM 45C
	BPM-JIM-45C-2430	1-1/2 BSPP P x 1-7/8 JICM 45C

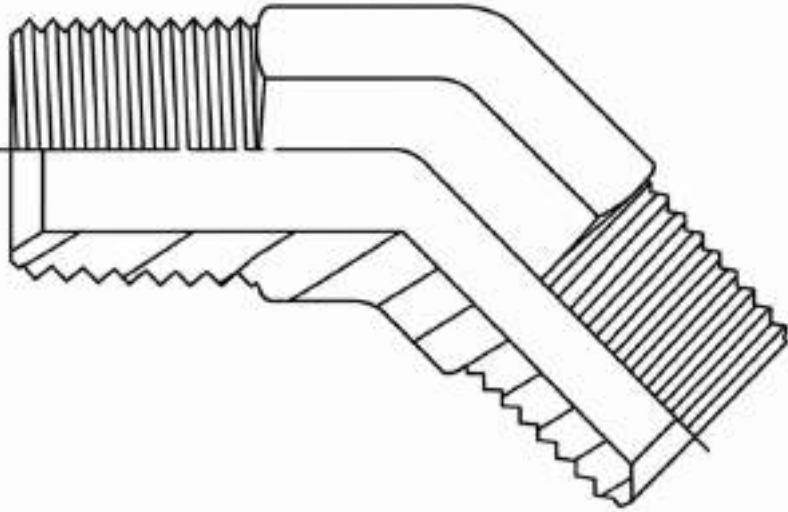
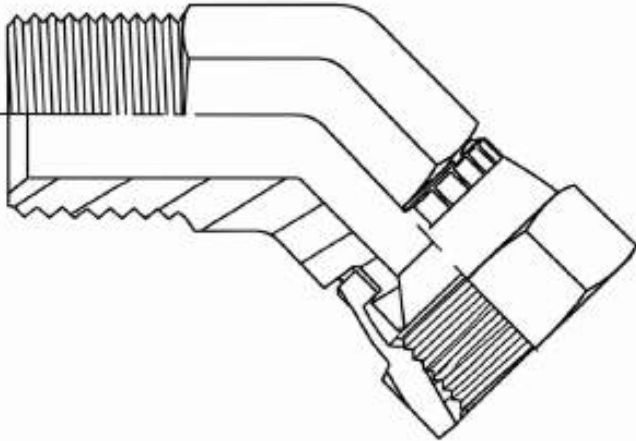
45° ADAPTORS		
BSPP M x METRIC HEAVY M		
	PART NUMBER	DESCRIPTION
	BPM-MHM-45C-0414	1/4 BSPP P x 14x1.5 MHM 45C
	BPM-MHM-45C-0416	1/4 BSPP P x 16x1.5 MHM 45C
	BPM-MHM-45C-0618	3/8 BSPP P x 18x1.5 MHM 45C
	BPM-MHM-45C-0620	3/8 BSPP P x 20x1.5 MHM 45C
	BPM-MHM-45C-0822	1/2 BSPP P x 22x1.5 MHM 45C
	BPM-MHM-45C-0824	1/2 BSPP P x 24x1.5 MHM 45C
	BPM-MHM-45C-1230	3/4 BSPP P x 30x2.0 MHM 45C
	BPM-MHM-45C-1636	1-0 BSPP P x 36x2.0 MHM 45C
	BPM-MHM-45C-2042	1-1/4 BSPP P x 42x2.0 MHM 45C
	BPM-MHM-45C-2452	1-1/2 BSPP P x 52x2.0 MHM 45C
45° ADAPTORS		
BSPP M x METRIC LIGHT M		
	PART NUMBER	DESCRIPTION
	BPM-MLM-45C-0212	1/8 BSPP P x 12x1.5 MLM 45C
	BPM-MLM-45C-0414	1/4 BSPP P x 14x1.5 MLM 45C
	BPM-MLM-45C-0416	1/4 BSPP P x 16x1.5 MLM 45C
	BPM-MLM-45C-0618	3/8 BSPP P x 18x1.5 MLM 45C
	BPM-MLM-45C-0822	1/2 BSPP P x 22x1.5 MLM 45C
	BPM-MLM-45C-0826	1/2 BSPP P x 26x1.5 MLM 45C
	BPM-MLM-45C-1230	3/4 BSPP P x 30x2.0 MLM 45C
	BPM-MLM-45C-1636	1-0 BSPP P x 36x2.0 MLM 45C
	BPM-MLM-45C-2045	1-1/4 BSPP P x 45x2.0 MLM 45C
	BPM-MLM-45C-2452	1-1/2 BSPP P x 52x2.0 MLM 45C

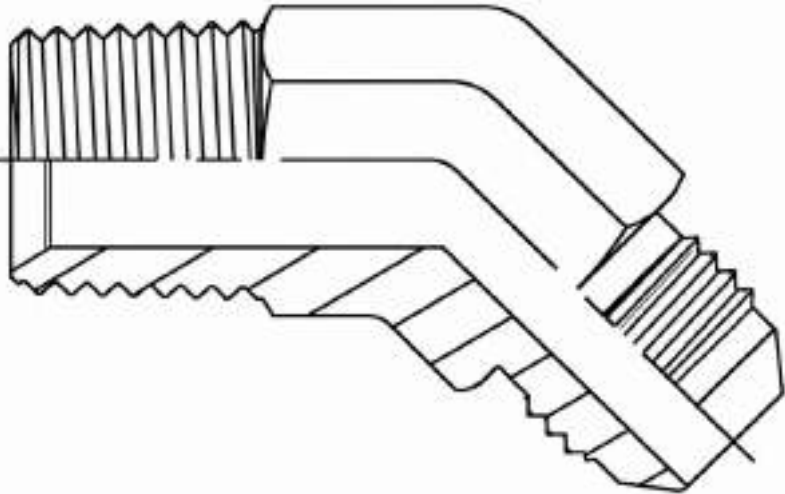


45° ADAPTORS		
BSPP M x ORFS M		
	PART NUMBER	DESCRIPTION
	BPM-ORM-45C-0209	1/8 BSPP P x 9/16 ORFSM 45C
	BPM-ORM-45C-0409	1/4 BSPP P x 9/16 ORFSM 45C
	BPM-ORM-45C-0411	1/4 BSPP P x 11/16 ORFSM 45C
	BPM-ORM-45C-0609	3/8 BSPP P x 9/16 ORFSM 45C
	BPM-ORM-45C-0611	3/8 BSPP P x 11/16 ORFSM 45C
	BPM-ORM-45C-0613	3/8 BSPP P x 13/16 ORFSM 45C
	BPM-ORM-45C-0811	1/2 BSPP P x 11/16 ORFSM 45C
	BPM-ORM-45C-0813	1/2 BSPP P x 13/16 ORFSM 45C
	BPM-ORM-45C-0816	1/2 BSPP P x 1-0 ORFSM 45C
	BPM-ORM-45C-1219	3/4 BSPP P x 1-3/16 ORFSM 45C
	BPM-ORM-45C-1223	3/4 BSPP P x 1-7/16 ORFSM 45C
	BPM-ORM-45C-1627	1-0 BSPP P x 1-11/16 ORFSM 45C
45° ADAPTORS		
BSPT F x BSPT F		
	PART NUMBER	DESCRIPTION
	BTF-BTF-45C-0202	1/8 BSPTF x 1/8 BSPTF 45C
	BTF-BTF-45C-0404	1/4 BSPTF x 1/4 BSPTF 45C
	BTF-BTF-45C-0606	3/8 BSPTF x 3/8 BSPTF 45C
	BTF-BTF-45C-0808	1/2 BSPTF x 1/2 BSPTF 45C
	BTF-BTF-45C-1212	3/4 BSPTF x 3/4 BSPTF 45C
	BTF-BTF-45C-1616	1-0 BSPTF x 1-0 BSPTF 45C

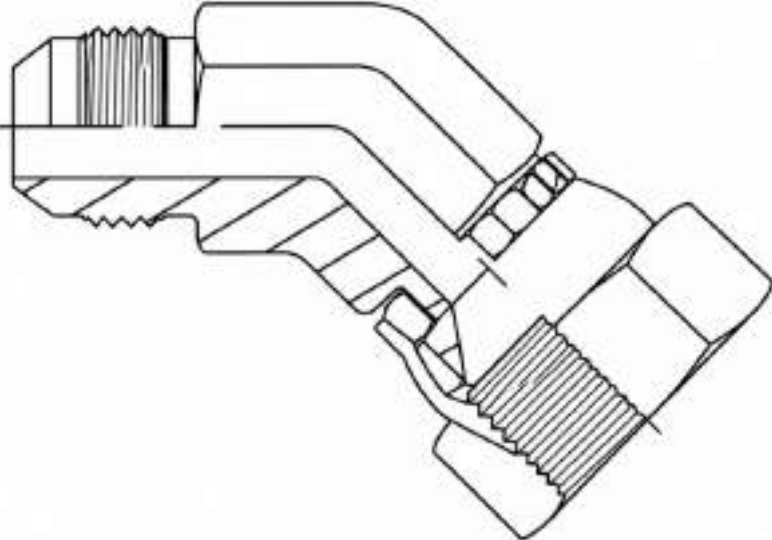
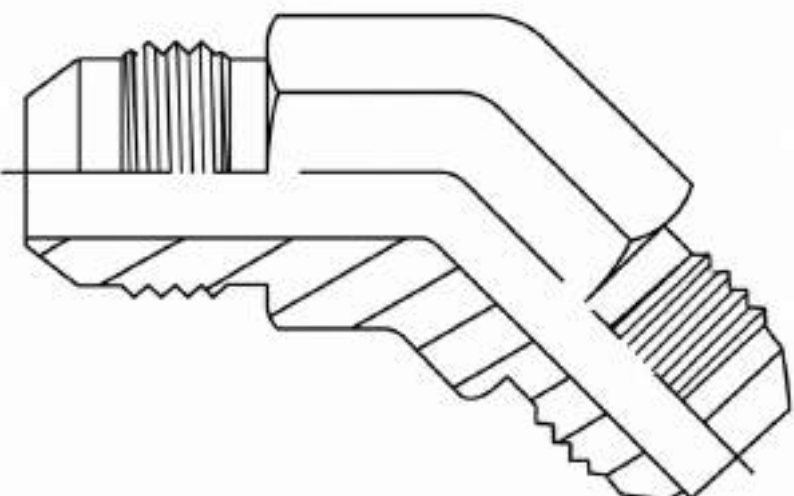
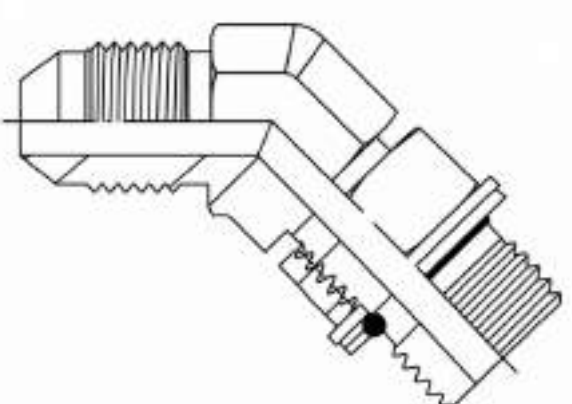
45° ADAPTORS		
BSPT M x JIS M		
	PART NUMBER	DESCRIPTION
	BTM-BJM-45C-0404	1/4 BSPTM x 1/4 JIS M 45C
	BTM-BJM-45C-0606	3/8 BSPTM x 3/8 JIS M 45C
	BTM-BJM-45C-0808	1/2 BSPTM x 1/2 JIS M 45C
	BTM-BJM-45C-1212	3/4 BSPTM x 3/4 JIS M 45C
	BTM-BJM-45C-1616	1-0 BSPTM x 1-0 JIS M 45C
45° ADAPTORS		
BSPT M x BSPP F SWIVEL		
	PART NUMBER	DESCRIPTION
	BTM-BSF-45C-0202	1/8 BSPTM x 1/8 BSPFS 45C
	BTM-BSF-45C-0404	1/4 BSPTM x 1/4 BSPFS 45C
	BTM-BSF-45C-0606	3/8 BSPTM x 3/8 BSPFS 45C
	BTM-BSF-45C-0808	1/2 BSPTM x 1/2 BSPFS 45C
	BTM-BSF-45C-1212	3/4 BSPTM x 3/4 BSPFS 45C
	BTM-BSF-45C-1616	1-0 BSPTM x 1-0 BSPFS 45C
	BTM-BSF-45C-2020	1-1/4 BSPTM x 1-1/4 BSPFS 45C
	BTM-BSF-45C-2424	1-1/2 BSPTM x 1-1/2 BSPFS 45C
45° ADAPTORS		
BSPT M x BSPT F		
	PART NUMBER	DESCRIPTION
	BTM-BTF-45C-0202	1/8 BSPTM x 1/8 BSPTF 45C
	BTM-BTF-45C-0404	1/4 BSPTM x 1/4 BSPTF 45C
	BTM-BTF-45C-0606	3/8 BSPTM x 3/8 BSPTF 45C
	BTM-BTF-45C-0808	1/2 BSPTM x 1/2 BSPTF 45C
	BTM-BTF-45C-1212	3/4 BSPTM x 3/4 BSPTF 45C
	BTM-BTF-45C-1616	1-0 BSPTM x 1-0 BSPTF 45C

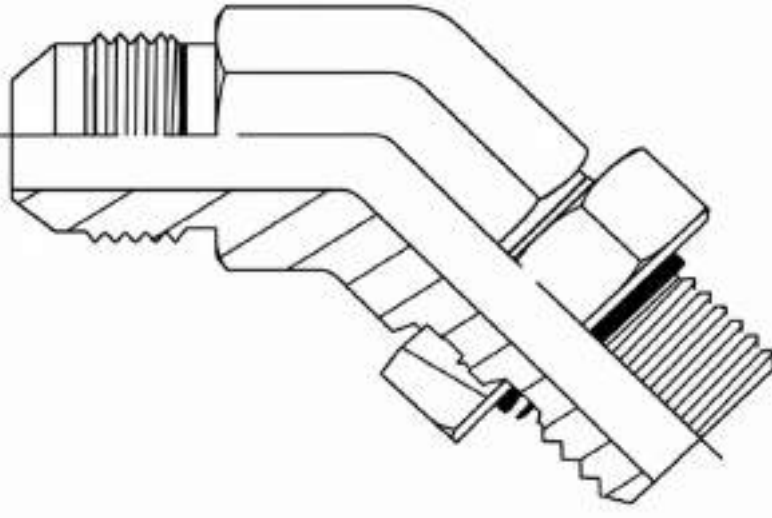


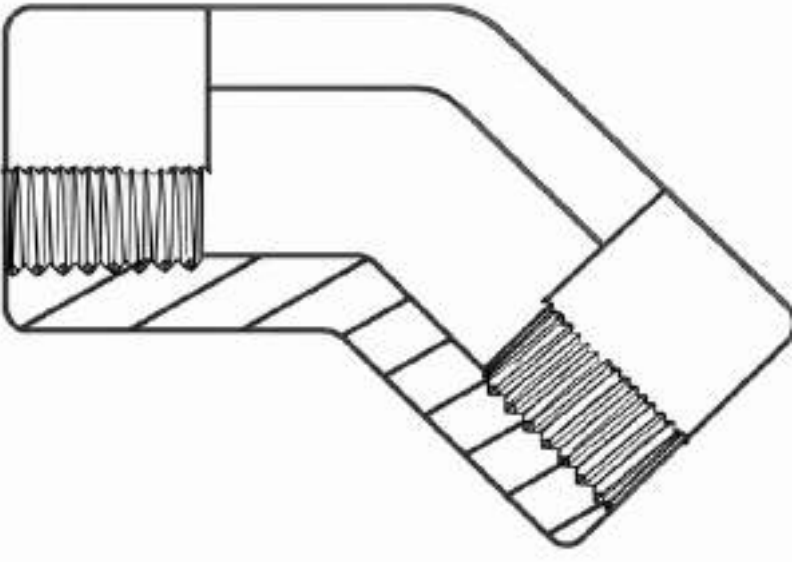
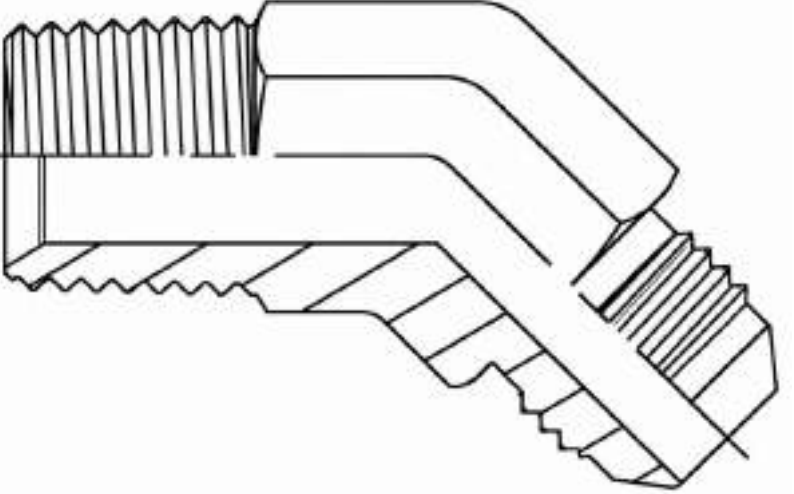
45° ADAPTORS		
BSPT M x BSPT M		
	PART NUMBER	DESCRIPTION
	BTM-BTM-45C-0202	1/8 BSPTM x 1/8 BSPTM 45C
	BTM-BTM-45C-0204	1/8 BSPTM x 1/4 BSPTM 45C
	BTM-BTM-45C-0404	1/4 BSPTM x 1/4 BSPTM 45C
	BTM-BTM-45C-0406	1/4 BSPTM x 3/8 BSPTM 45C
	BTM-BTM-45C-0606	3/8 BSPTM x 3/8 BSPTM 45C
	BTM-BTM-45C-0608	3/8 BSPTM x 1/2 BSPTM 45C
	BTM-BTM-45C-0808	1/2 BSPTM x 1/2 BSPTM 45C
	BTM-BTM-45C-0812	1/2 BSPTM x 3/4 BSPTM 45C
	BTM-BTM-45C-1212	3/4 BSPTM x 3/4 BSPTM 45C
	BTM-BTM-45C-1216	3/4 BSPTM x 1-0 BSPTM 45C
	BTM-BTM-45C-1616	1-0 BSPTM x 1-0 BSPTM 45C
	BTM-BTM-45C-2020	1-1/4 BSPTM x 1-1/4 BSPTM 45C
	BTM-BTM-45C-2424	1-1/2 BSPTM x 1-1/2 BSPTM 45C
45° ADAPTORS		
BSPT M x JIC F SWIVEL		
	PART NUMBER	DESCRIPTION
	BTM-JIF-45C-0812	1/2 BSPTM x 3/4 JICFS 45C
	BTM-JIF-45C-0814	1/2 BSPTM x 7/8 JICFS 45C
	BTM-JIF-45C-1214	3/4 BSPTM x 7/8 JICFS 45C
	BTM-JIF-45C-1217	3/4 BSPTM x 1-1/16 JICFS 45C

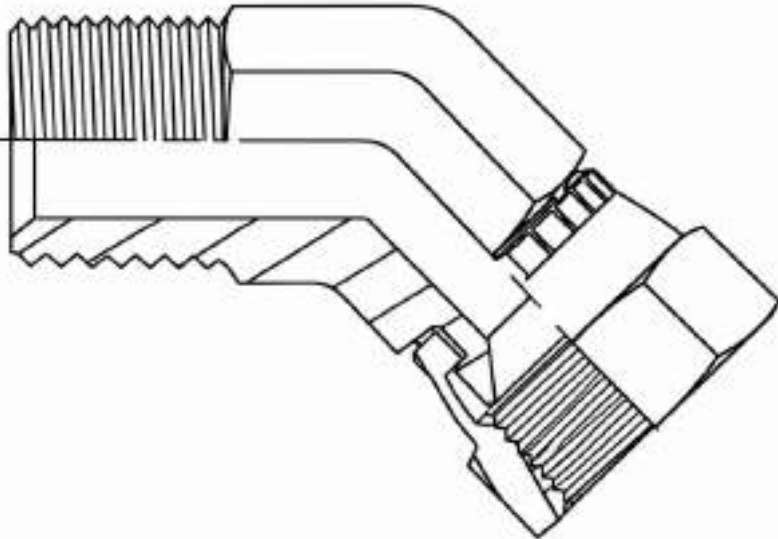
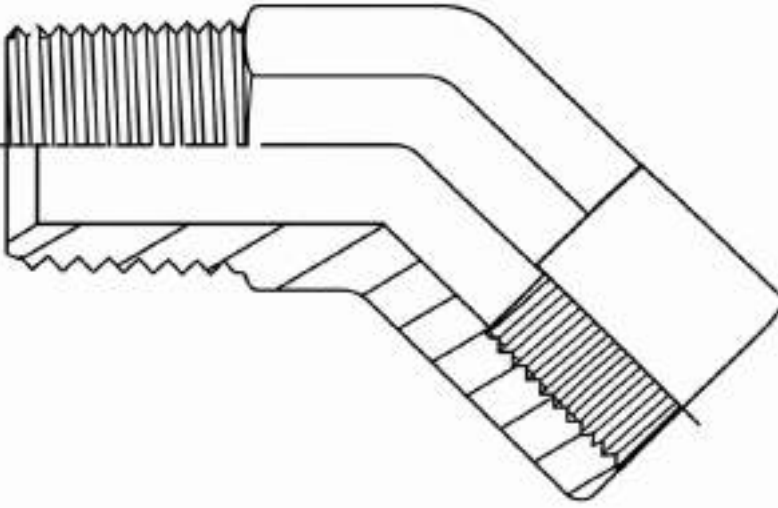
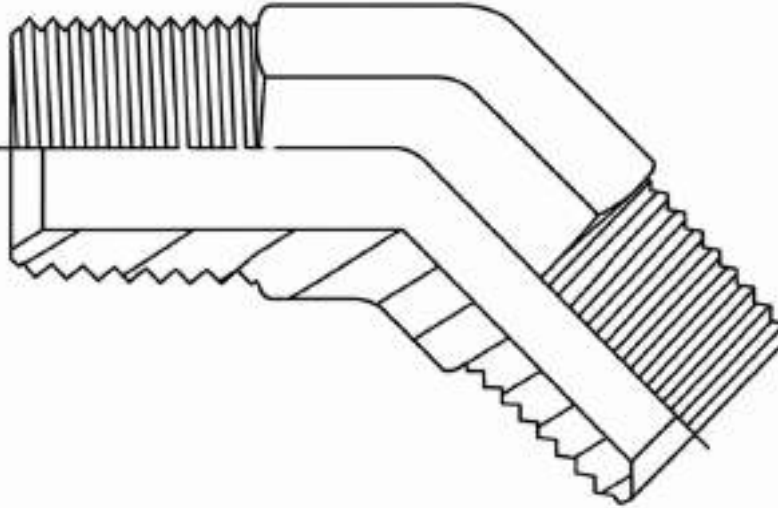
45° ADAPTORS		
BSPT M x JIC M		
	PART NUMBER	DESCRIPTION
	BTM-JIM-45C-0207	1/8 BSPTM x 7/16 JICM 45C
	BTM-JIM-45C-0209	1/8 BSPTM x 9/16 JICM 45C
	BTM-JIM-45C-0407	1/4 BSPTM x 7/16 JICM 45C
	BTM-JIM-45C-0409	1/4 BSPTM x 9/16 JICM 45C
	BTM-JIM-45C-0412	1/4 BSPTM x 3/4 JICM 45C
	BTM-JIM-45C-0607	3/8 BSPTM x 7/16 JICM 45C
	BTM-JIM-45C-0609	3/8 BSPTM x 9/16 JICM 45C
	BTM-JIM-45C-0612	3/8 BSPTM x 3/4 JICM 45C
	BTM-JIM-45C-0614	3/8 BSPTM x 7/8 JICM 45C
	BTM-JIM-45C-0809	1/2 BSPTM x 9/16 JICM 45C
	BTM-JIM-45C-0812	1/2 BSPTM x 3/4 JICM 45C
	BTM-JIM-45C-0814	1/2 BSPTM x 7/8 JICM 45C
	BTM-JIM-45C-0817	1/2 BSPTM x 1-1/16 JICM 45C
	BTM-JIM-45C-1212	3/4 BSPTM x 3/4 JICM 45C
	BTM-JIM-45C-1214	3/4 BSPTM x 7/8 JICM 45C
	BTM-JIM-45C-1217	3/4 BSPTM x 1-1/16 JICM 45C
	BTM-JIM-45C-1221	3/4 BSPTM x 1-5/16 JICM 45C
	BTM-JIM-45C-1617	1-0 BSPTM x 1-1/16 JICM 45C
	BTM-JIM-45C-1621	1-0 BSPTM x 1-5/16 JICM 45C
	BTM-JIM-45C-2026	1-1/4 BSPTM x 1-5/8 JICM 45C
	BTM-JIM-45C-2430	1-1/2 BSPTM x 1-7/8 JICM 45C



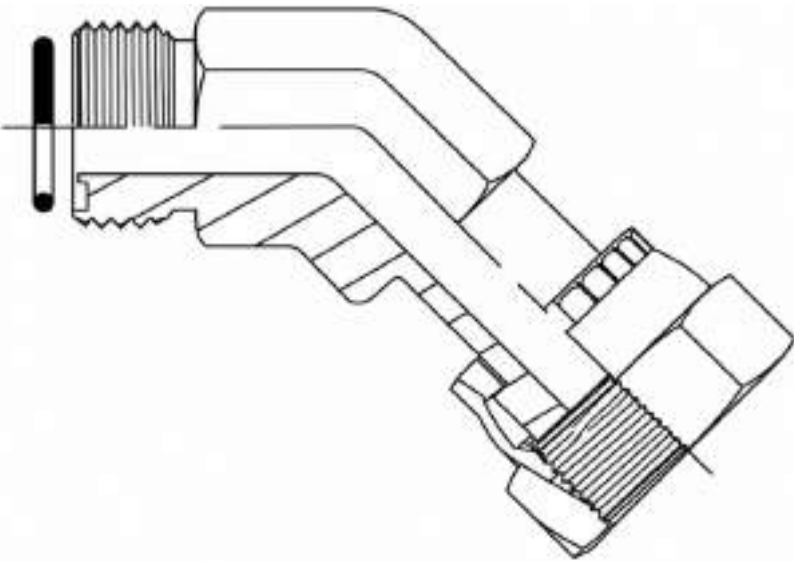
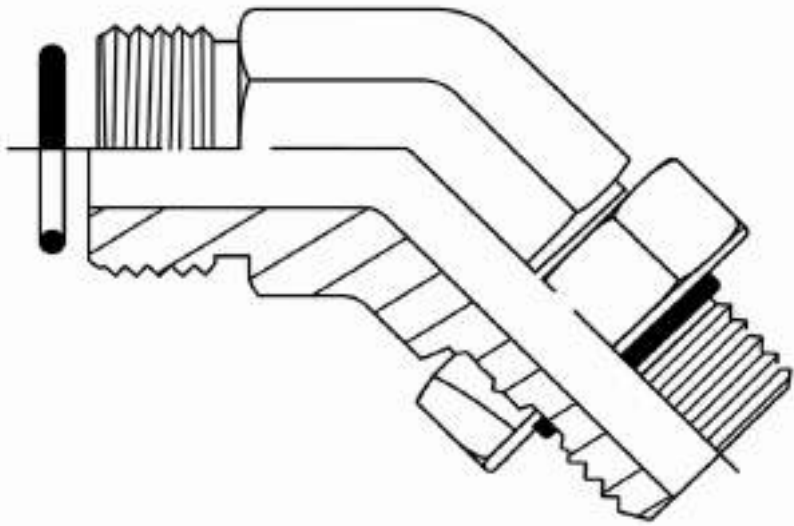
45° ADAPTORS		
JIC M x JIC F		
	PART NUMBER	DESCRIPTION
	JIM-JIF-45C-0707	7/16 JICM x 7/16 JICFS 45C
	JIM-JIF-45C-0808	1/2 JICM x 1/2 JICFS 45C
	JIM-JIF-45C-0909	9/16 JICM x 9/16 JICFS 45C
	JIM-JIF-45C-1212	3/4 JICM x 3/4 JICFS 45C
	JIM-JIF-45C-1414	7/8 JICM x 7/8 JICFS 45C
	JIM-JIF-45C-1717	1-1/16 JICM x 1-1/16 JICFS 45C
	JIM-JIF-45C-2121	1-5/16 JICM x 1-5/16 JICFS 45C
	JIM-JIF-45C-2626	1-5/8 JICM x 1-5/8 JICFS 45C
	JIM-JIF-45C-3030	1-7/8 JICM x 1-7/8 JICFS 45C
	JIM-JIF-45C-4040	2-1/2 JICM x 2 1/2 JICFS 45C
45° ADAPTORS		
JIC M x JIC M		
	PART NUMBER	DESCRIPTION
	JIM-JIM-45C-0707	7/16 JICM x 7/16 JICM 45C
	JIM-JIM-45C-0909	9/16 JICM x 9/16 JICM 45C
	JIM-JIM-45C-1212	3/4 JICM x 3/4 JICM 45C
	JIM-JIM-45C-1414	7/8 JICM x 7/8 JICM 45C
	JIM-JIM-45C-1717	1-1/16 JICM x 1-1/16 JICM 45C
	JIM-JIM-45C-2121	1-5/16 JICM x 1-5/16 JICM 45C
45° ADAPTORS		
JIC M x METRIC PORT M		
	PART NUMBER	DESCRIPTION
	JIM-MSM-45C-0918	9/16 JICM x 18mm Stud P 45C
	JIM-MSM-45C-1216	3/4 JICM x 16mm Stud P 45C
	JIM-MSM-45C-1722	1 1/16 JICM x 22mm Stud P 45C

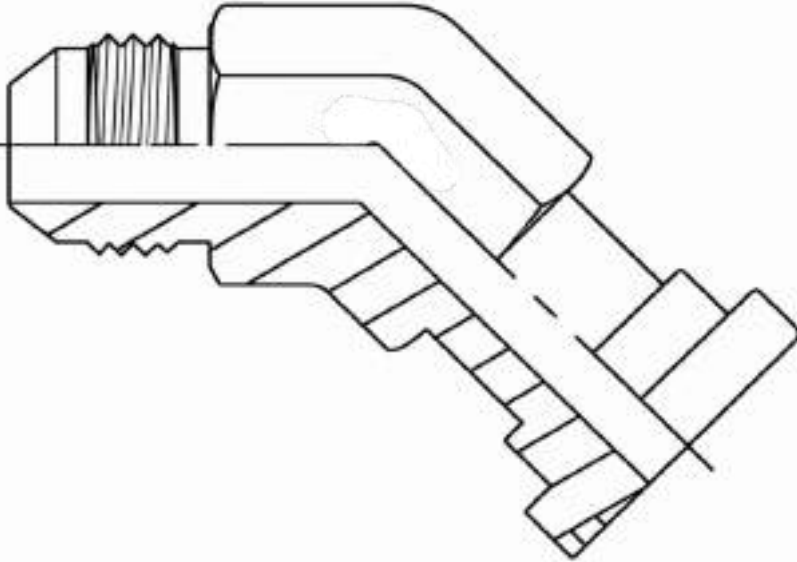
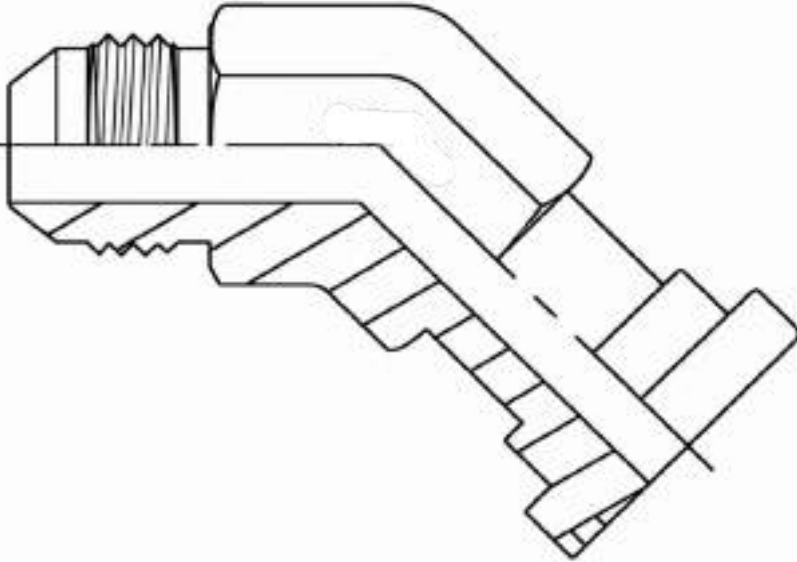
45° ADAPTORS		
JIC M x UNO M		
	PART NUMBER	DESCRIPTION
	JIM-UNM-45C-0707	7/16 JICM x 7/16 UNO P 45C
	JIM-UNM-45C-0709	7/16 JICM x 9/16 UNO P 45C
	JIM-UNM-45C-0712	7/16 JICM x 3/4 UNO 45 Deg
	JIM-UNM-45C-0808	1/2 JICM x 1/2 UNO P 45C
	JIM-UNM-45C-0907	9/16 JICM x 7/16 UNO P 45C
	JIM-UNM-45C-0908	9/16 JICM x 1/2 UNO P 45C
	JIM-UNM-45C-0909	9/16 JICM x 9/16 UNO P 45C
	JIM-UNM-45C-0912	9/16 JICM x 3/4 UNO P 45C
	JIM-UNM-45C-0914	9/16 JICM x 7/8 UNO P 45C
	JIM-UNM-45C-1209	3/4 JICM x 9/16 UNO P 45C
	JIM-UNM-45C-1212	3/4 JICM x 3/4 UNO P 45C
	JIM-UNM-45C-1214	3/4 JICM x 7/8 UNO P 45C
	JIM-UNM-45C-1217	3/4 JICM x 1-1/16 UNO P 45C
	JIM-UNM-45C-1412	7/8 JICM x 3/4 UNO P 45C
	JIM-UNM-45C-1414	7/8 JICM x 7/8 UNO P 45C
	JIM-UNM-45C-1417	7/8 JICM x 1-1/16 UNO P 45C
	JIM-UNM-45C-1714	1-1/16 JICM x 7/8 UNO P 45C
	JIM-UNM-45C-1717	1-1/16 JICM x 1-1/16 UNO P 45C
	JIM-UNM-45C-1721	1-1/16 JICM x 1-5/16 UNO P 45C
	JIM-UNM-45C-2117	1-5/16 JICM x 1-1/16 UNO P 45C
	JIM-UNM-45C-2121	1-5/16 JICM x 1-5/16 UNO P 45C
	JIM-UNM-45C-2126	1-5/16 JICM x 1-5/8 UNO P 45C
	JIM-UNM-45C-2621	1-5/8 JICM x 1-5/16 UNO P 45C
	JIM-UNM-45C-2626	1-5/8 JICM x 1-5/8 UNO P 45C
	JIM-UNM-45C-2630	1-5/8 JICM x 1-7/8 UNO P 45C
	JIM-UNM-45C-3026	1-7/8 JICM x 1-5/8 UNO P 45C
	JIM-UNM-45C-3030	1-7/8 JICM x 1-7/8 UNO P 45C
	JIM-UNM-45C-4040	2-1/2 JICM x 2-1/2 UNO P 45C

45° ADAPTORS		
NPT F x NPT F		
	PART NUMBER	DESCRIPTION
	NTF-NTF-45C-0202	1/8 NPTF x 1/8 NPTF 45C
	NTF-NTF-45C-0404	1/4 NPTF x 1/4 NPTF 45C
	NTF-NTF-45C-0606	3/8 NPTF x 3/8 NPTF 45C
	NTF-NTF-45C-0808	1/2 NPTF x 1/2 NPTF 45C
	NTF-NTF-45C-1212	3/4 NPTF x 3/4 NPTF 45C
	NTF-NTF-45C-1616	1-0 NPTF x 1-0 NPTF 45C
45° ADAPTORS		
NPT M x JIC M		
	PART NUMBER	DESCRIPTION
	NTM-JIM-45C-0207	1/8 NPTM x 7/16 JICM 45C
	NTM-JIM-45C-0208	1/8 NPTM x 1/2 JICM 45C
	NTM-JIM-45C-0209	1/8 NPTM x 9/16 JICM 45C
	NTM-JIM-45C-0407	1/4 NPTM x 7/16 JICM 45C
	NTM-JIM-45C-0408	1/4 NPTM x 1/2 JICM 45C
	NTM-JIM-45C-0409	1/4 NPTM x 9/16 JICM 45C
	NTM-JIM-45C-0412	1/4 NPTM x 3/4 JICM 45C
	NTM-JIM-45C-0607	3/8 NPTM x 7/16 JICM 45C
	NTM-JIM-45C-0609	3/8 NPTM x 9/16 JICM 45C
	NTM-JIM-45C-0612	3/8 NPTM x 3/4 JICM 45C
	NTM-JIM-45C-0614	3/8 NPTM x 7/8 JICM 45C
	NTM-JIM-45C-0809	1/2 NPTM x 9/16 JICM 45C
	NTM-JIM-45C-0812	1/2 NPTM x 3/4 JICM 45C
	NTM-JIM-45C-0814	1/2 NPTM x 7/8 JICM 45C
	NTM-JIM-45C-0817	1/2 NPTM x 1-1/16 JICM 45C
	NTM-JIM-45C-1212	3/4 NPTM x 3/4 JICM 45C
	NTM-JIM-45C-1214	3/4 NPTM x 7/8 JICM 45C
	NTM-JIM-45C-1217	3/4 NPTM x 1-1/16 JICM 45C
	NTM-JIM-45C-1221	3/4 NPTM x 1-5/16 JICM 45C
	NTM-JIM-45C-1617	1-0 NPTM x 1-1/16 JICM 45C
	NTM-JIM-45C-1621	1-0 NPTM x 1-5/16 JICM 45C
	NTM-JIM-45C-1626	1-0 NPTM x 1-5/8 JICM 45C
	NTM-JIM-45C-2021	1-1/4 NPTM x 1-5/16 JICM 45C
	NTM-JIM-45C-2026	1-1/4 NPTM x 1-5/8 JICM 45C
	NTM-JIM-45C-2030	1-1/4 NPTM x 1-7/8 JICM 45 Deg
	NTM-JIM-45C-2430	1-1/2 NPTM x 1-7/8 JICM 45C
	NTM-JIM-45C-3240	2-0 NPTM x 2-1/2 JICM 45C

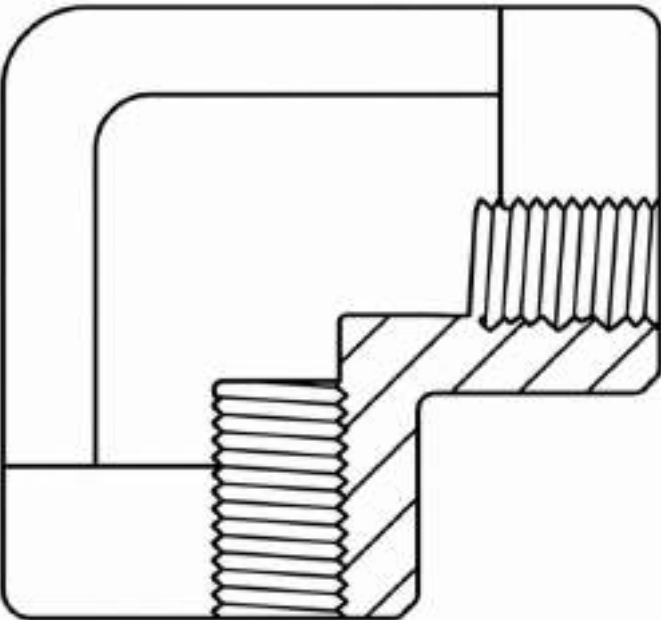
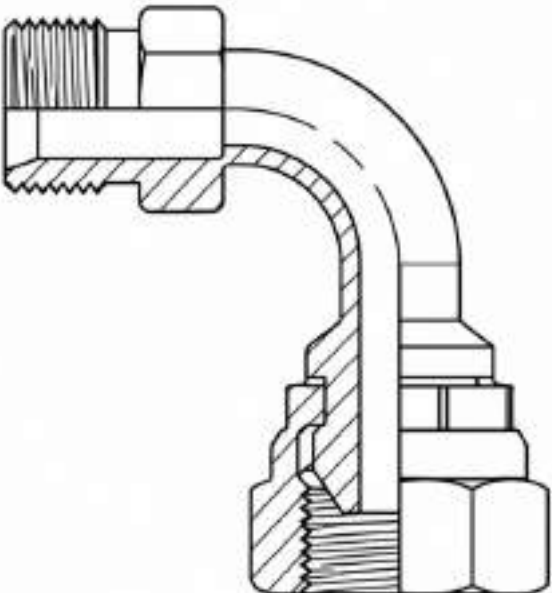
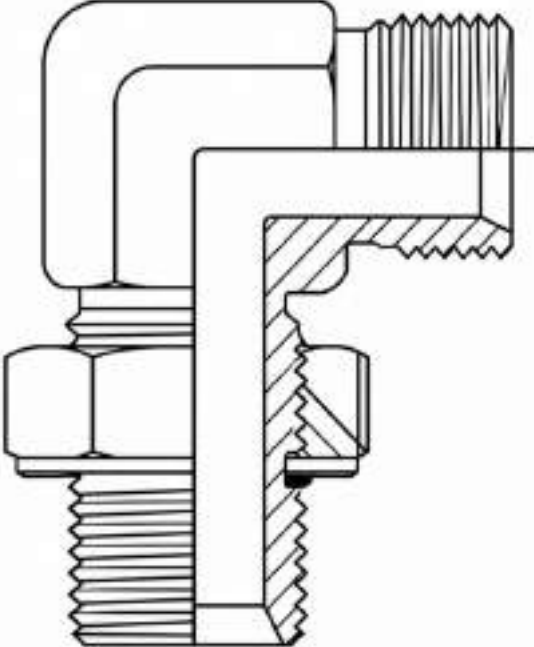
45° ADAPTORS		
NPT F x NPT F		
	PART NUMBER	DESCRIPTION
	NTM-NSF-45C-0202	1/8 NPTM x 1/8 NPSFS 45C
	NTM-NSF-45C-0404	1/4 NPTM x 1/4 NPSFS 45C
	NTM-NSF-45C-0606	3/8 NPTM x 3/8 NPSFS 45C
	NTM-NSF-45C-0808	1/2 NPTM x 1/2 NPSFS 45C
	NTM-NSF-45C-1212	3/4 NPTM x 3/4 NPSFS 45C
	NTM-NSF-45C-1616	1-0 NPTM x 1-0 NPSFS 45C
	NTM-NSF-45C-2020	1-1/4 NPTM x 1-1/4 NPSFS 45C
	NTM-NSF-45C-2424	1-1/2 NPTM x 1-1/2 NPSFS 45C
45° ADAPTORS		
NPT M x NPT F		
	PART NUMBER	DESCRIPTION
	NTM-NTF-45C-0202	1/8 NPTM x 1/8 NPTF 45C
	NTM-NTF-45C-0404	1/4 NPTM x 1/4 NPTF 45C
	NTM-NTF-45C-0606	3/8 NPTM x 3/8 NPTF 45C
	NTM-NTF-45C-0808	1/2 NPTM x 1/2 NPTF 45C
	NTM-NTF-45C-1212	3/4 NPTM x 3/4 NPTF 45C
	NTM-NTF-45C-1616	1-0 NPTM x 1-0 NPTF 45C
	NTM-NTF-45C-2020	1-1/4 NPTM x 1-1/4 NPTF 45C
	NTM-NTF-45C-2424	1-1/2 NPTM x 1-1/2 NPTF 45C
45° ADAPTORS		
NPT M x NPT M		
	PART NUMBER	DESCRIPTION
	NTM-NTM-45C-0202	1/8 NPTM x 1/8 NPTM 45C
	NTM-NTM-45C-0404	1/4 NPTM x 1/4 NPTM 45C
	NTM-NTM-45C-0606	3/8 NPTM x 3/8 NPTM 45C
	NTM-NTM-45C-0808	1/2 NPTM x 1/2 NPTM 45C
	NTM-NTM-45C-1212	3/4 NPTM x 3/4 NPTM 45C
	NTM-NTM-45C-1616	1-0 NPTM x 1-0 NPTM 45C
	NTM-NTM-45C-2020	1-1/4 NPTM x 1-1/4 NPTM 45C
	NTM-NTM-45C-2424	1-1/2 NPTM x 1-1/2 NPTM 45C

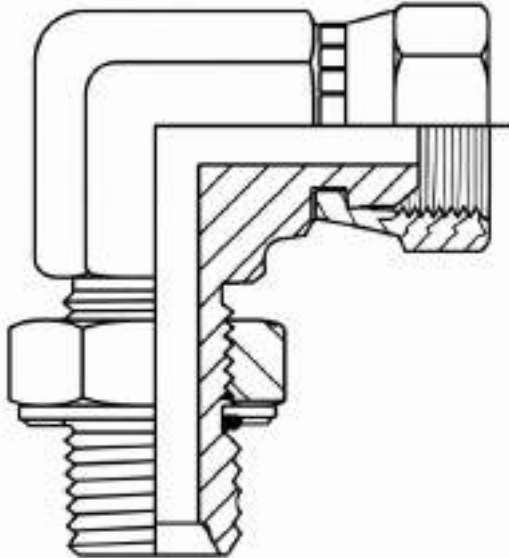
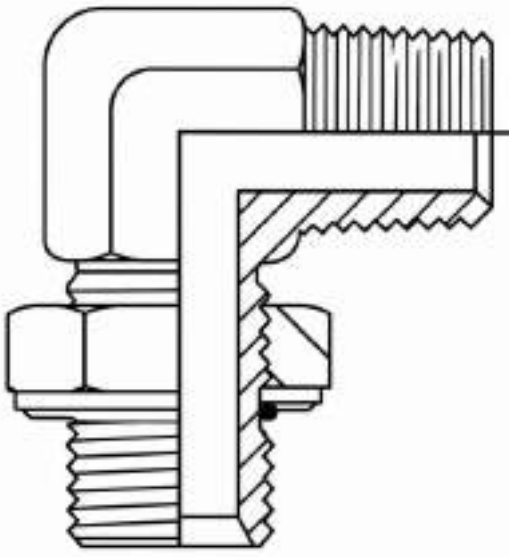


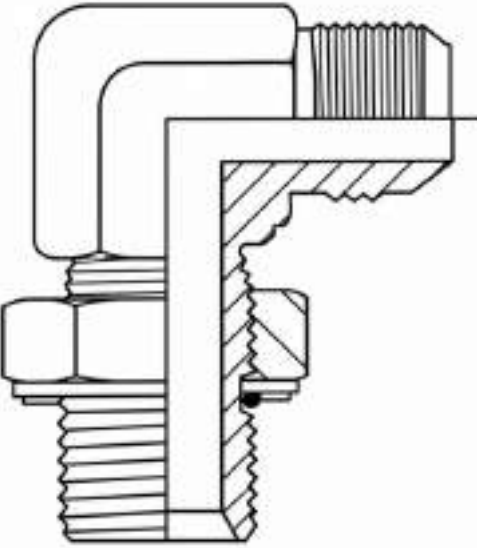
45° ADAPTORS		
ORFS M x ORFS F SWIVEL		
	PART NUMBER	DESCRIPTION
	ORM-ORF-45C-0909	9/16 ORFSM x ORFS FS 45C
	ORM-ORF-45C-1111	11/16 ORFSM x ORFS FS 45C
	ORM-ORF-45C-1313	13/16 ORFSM x ORFS FS 45C
	ORM-ORF-45C-1616	1-0 ORFSM x ORFS FS 45C
	ORM-ORF-45C-1919	1-3/16 ORFSM x ORFS FS 45C
	ORM-ORF-45C-2323	1-7/16 ORFSM x ORFS FS 45C
	ORM-ORF-45C-2727	1-11/16 ORFSM x ORFS FS 45C
	ORM-ORF-45C-3232	2-0 ORFSM x ORFS FS 45C
45° ADAPTORS		
ORFS M x UNO M		
	PART NUMBER	DESCRIPTION
	ORM-UNM-45C-0907	9/16 ORFSM x 7/16 UNO P 45C
	ORM-UNM-45C-0909	9/16 ORFSM x 9/16 UNO P 45C
	ORM-UNM-45C-1107	11/16 ORFSM x 7/16 UNO P 45C
	ORM-UNM-45C-1109	11/16 ORFSM x 9/16 UNO P 45C
	ORM-UNM-45C-1112	11/16 ORFSM x 3/4 UNO P 45C
	ORM-UNM-45C-1309	13/16 ORFSM x 9/16 UNO P 45C
	ORM-UNM-45C-1312	13/16 ORFSM x 3/4 UNO P 45C
	ORM-UNM-45C-1314	13/16 ORFSM x 7/8 UNO P 45C
	ORM-UNM-45C-1317	13/16 ORFSM x 1-1/16UNO P 45C
	ORM-UNM-45C-1612	1-0 ORFSM x 3/4 UNO P 45C
	ORM-UNM-45C-1614	1-0 ORFSM x 7/8 UNO P 45C
	ORM-UNM-45C-1617	1-0 ORFSM x 1-1/16 UNO P 45C
	ORM-UNM-45C-1914	1-3/16 ORFSM x 7/8 UNO P 45C
	ORM-UNM-45C-1917	1-3/16 ORFSM x 1-1/16 UNOP 45C
	ORM-UNM-45C-1921	1-3/16 ORFSM x 1-5/16 UNOP 45C
	ORM-UNM-45C-2317	1-7/16 ORFSM x 1-1/16 UNOP 45C
	ORM-UNM-45C-2321	1-7/16 ORFSM x 1-5/16 UNOP 45C
	ORM-UNM-45C-2326	1-7/16 ORFSM x 1-5/8 UNO P 45C
	ORM-UNM-45C-2721	1-11/16 ORFSM x 1-5/16 UNO45
	ORM-UNM-45C-2726	1-11/16 ORFSM x 1-5/8 UNOP 45C

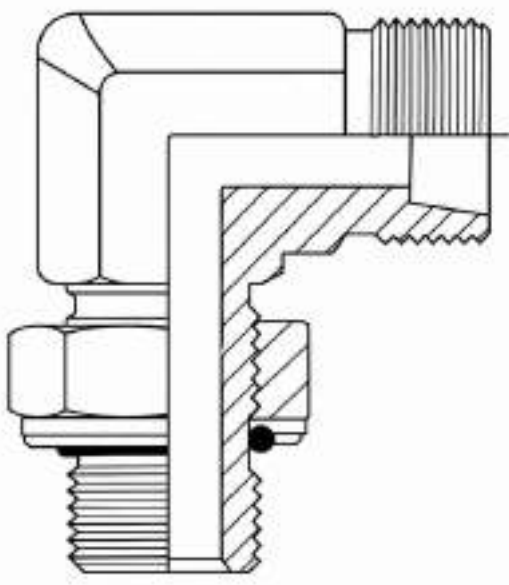
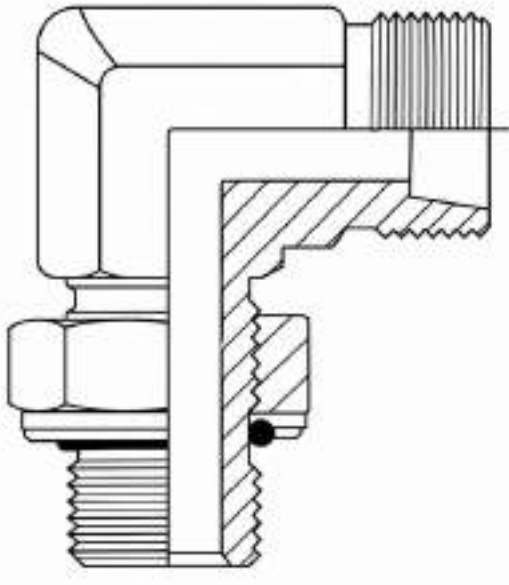
45° ADAPTORS		
JIC M x F61		
	PART NUMBER	DESCRIPTION
	JIM-F61-45C-1208	3/4 JICM x 1/2 F61 SAE 45 Compact
	JIM-F61-45C-1712	1-1/16 JICM x 3/4 F61 SAE 45 Compact
	JIM-F61-45C-1716	1-1/16 JICM x 1-0 F61 SAE 45 Compact
	JIM-F61-45C-2116	1-5/16 JICM x 1-0 F61 SAE 45 Compact
	JIM-F61-45C-2620	1-5/8 JICM x 1-1/4 F61 SAE 45 Compact
	JIM-F61-45C-3024	1-7/8 JICM x 1-1/2 F61 SAE 45 Compact
	JIM-F61-45C-4032	2-1/2 JICM x 2-0 F61 SAE 45 Compact
45° ADAPTORS		
JIC M x F62		
	PART NUMBER	DESCRIPTION
	JIM-F62-45C-1712	1-1/16 JICM x 3/4 F62 Flange 45 Compact
	JIM-F62-45C-2116	1-5/16 JICM x 1-0 F62 Flange 45 Compact
	JIM-F62-45C-2620	1-5/8JICM x 1-1/4 F62 Flange 45 Compact
	JIM-F62-45C-3024	1-7/8JICM x 1-1/2 F62 Flange 45 Compact
	JIM-F62-45C-4032	2-1/2 JICM x 2-0 F62 Flange 45 Compact

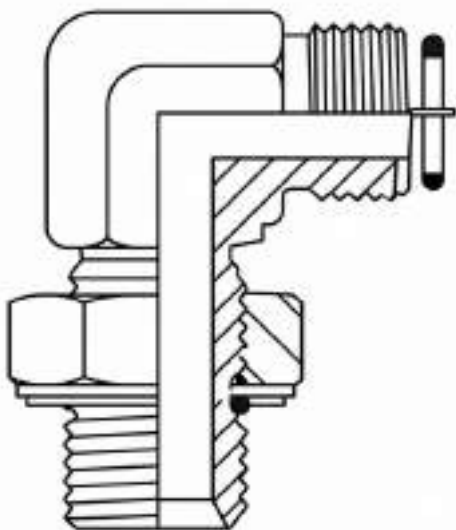
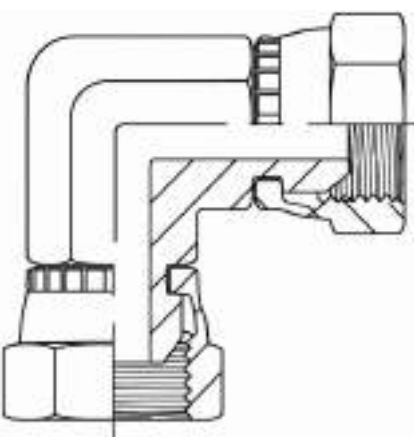
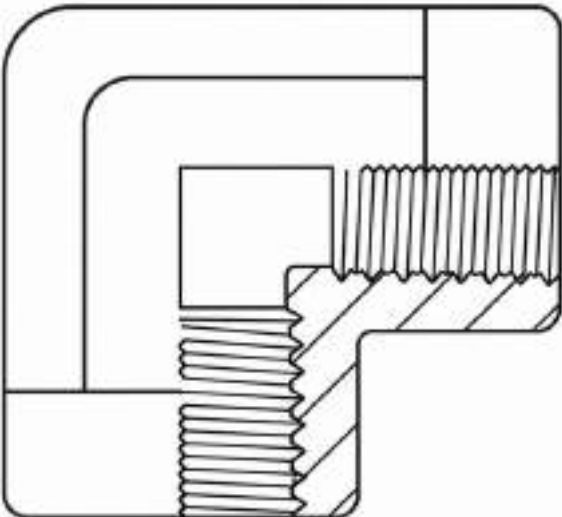


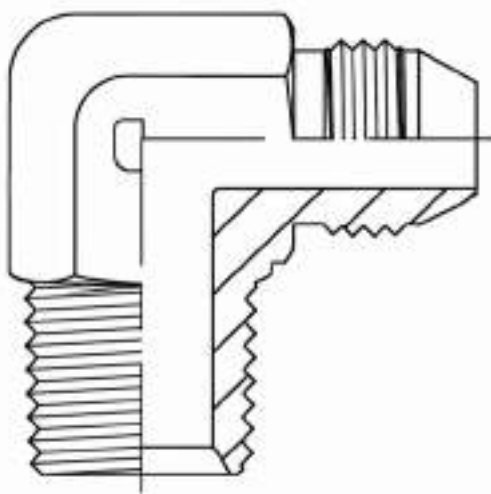
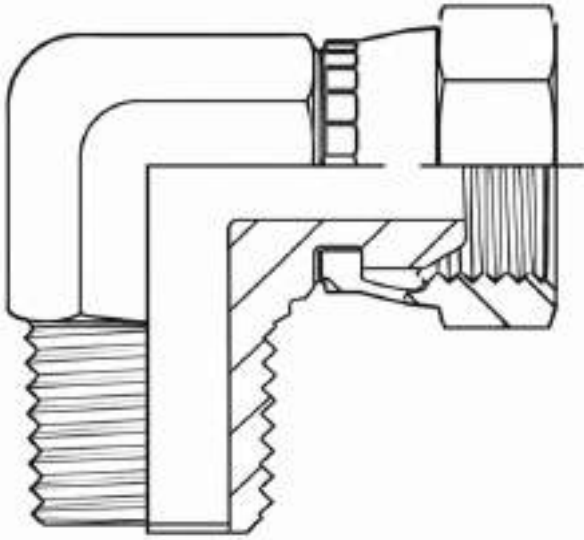
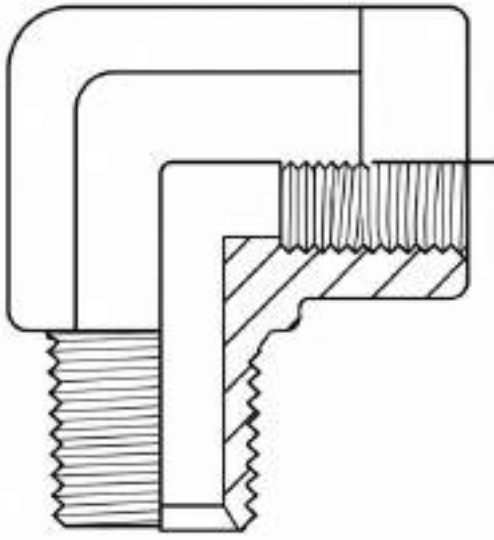
90° ADAPTORS		
BSPP F x BSPP F		
	PART NUMBER	DESCRIPTION
	BPF-BPF-90C-0202	1/8 BSPPF x 1/8 BSPPF 90C
	BPF-BPF-90C-0404	1/4 BSPPF x 1/4 BSPPF 90C
	BPF-BPF-90C-0606	3/8 BSPPF x 3/8 BSPPF 90C
	BPF-BPF-90C-0808	1/2 BSPPF x 1/2 BSPPF 90C
	BPF-BPF-90C-1212	3/4 BSPPF x 3/4 BSPPF 90C
	BPF-BPF-90C-1616	1-0 BSPPF x 1-0 BSPPF 90C
	BPF-BPF-90C-2020	1-1/4 BSPPF x 1-1/4 BSPPF 90C
	BPF-BPF-90C-2424	1-1/2 BSPPF x 1-1/2 BSPPF 90C
	BPF-BPF-90C-3232	2-0 BSPPF x 2-0 BSPPF 90C
90° ADAPTORS		
BSPP M x BSPP F SWIVEL		
	PART NUMBER	DESCRIPTION
	BPM-BSF-90C-2020	1-1/4 BSPPM x 1-1/4 BSPPFS 90C
	BPM-BSF-90S-0404	1/4 BSPPM x 1/4 BSPPFS 90S
	BPM-BSF-90S-0606	3/8 BSPPM x 3/8 BSPPFS 90S
	BPM-BSF-90S-0808	1/2 BSPPM x 1/2 BSPPFS 90S
	BPM-BSF-90S-1212	3/4 BSPPM x 3/4 BSPPFS 90S
	BPM-BSF-90S-1616	1-0 BSPPM x 1-0 BSPPFS 90S
	BPM-BSF-90S-2020	1-1/4 BSPPM x 1-1/4 BSPPFS 90S
90° ADAPTORS		
BSPP M x BSPP M		
	PART NUMBER	DESCRIPTION
	BPM-BPM-90C-0202	1/8 BSPP P x 1/8 BSPPM 90C
	BPM-BPM-90C-0404	1/4 BSPP P x 1/4 BSPPM 90C
	BPM-BPM-90C-0604	3/8 BSPP P x 1/4 BSPPM 90C
	BPM-BPM-90C-0606	3/8 BSPP P x 3/8 BSPPM 90C
	BPM-BPM-90C-0608	3/8 BSPP P x 1/2 BSPPM 90C
	BPM-BPM-90C-0808	1/2 BSPP P x 1/2 BSPPM 90C
	BPM-BPM-90C-1212	3/4 BSPP P x 3/4 BSPPM 90C
	BPM-BPM-90C-1616	1-0 BSPP P x 1-0 BSPPM 90C

90° ADAPTORS		
BSPP M x BSPP F SWIVEL		
	PART NUMBER	DESCRIPTION
	BPM-BSF-90C-0404	1/4 BSPPM x 1/4 BSPPFS 90C
	BPM-BSF-90C-0406	1/4 BSPPM x 3/8 BSPPFS 90C
	BPM-BSF-90C-0606	3/8 BSPPM x 3/8 BSPPFS 90C
	BPM-BSF-90C-0808	1/2 BSPPM x 1/2 BSPPFS 90C
	BPM-BSF-90C-1212	3/4 BSPPM x 3/4 BSPPFS 90C
	BPM-BSF-90C-1616	1-0 BSPPM x 1-0 BSPPFS 90C
	BPM-BSF-90C-2020	1-1/4 BSPPM x 1-1/4 BSPPFS 90C
90° ADAPTORS		
BSPP M x BSPT M		
	PART NUMBER	DESCRIPTION
	BPM-BTM-90C-0404	1/4 BSPP P x 1/4 BSPTM 90C
	BPM-BTM-90C-0604	3/8 BSPP P x 1/4 BSPTM 90C
	BPM-BTM-90C-0606	3/8 BSPP P x 3/8 BSPTM 90C
	BPM-BTM-90C-0608	3/8 BSPP P x 1/2 BSPTM 90C
	BPM-BTM-90C-0806	1/2 BSPP P x 3/8 BSPTM 90C
	BPM-BTM-90C-0808	1/2 BSPP P x 1/2 BSPTM 90C
	BPM-BTM-90C-1208	3/4 BSPP P x 1/2 BSPTM 90C
	BPM-BTM-90C-1212	3/4 BSPP P x 3/4 BSPTM 90C
	BPM-BTM-90C-1612	1-0 BSPP P x 3/4 BSPTM 90C
	BPM-BTM-90C-1616	1-0 BSPP P x 1-0 BSPTM 90C
	BPM-BTM-90C-2020	1-1/4 BSPP P x 1-1/4 BSPTM 90C
	BPM-BTM-90C-2424	1-1/2 BSPP P x 1-1/2 BSPTM 90C

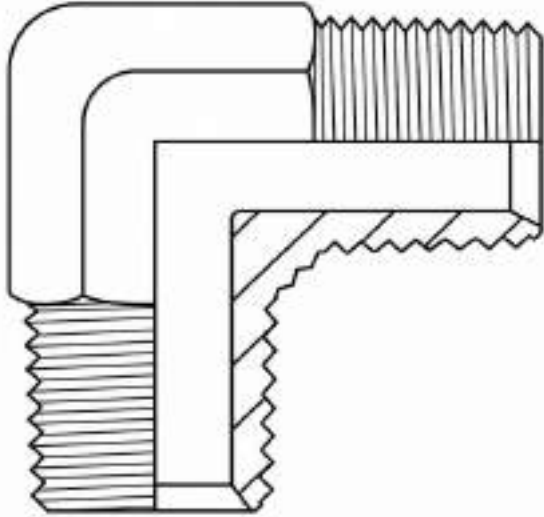
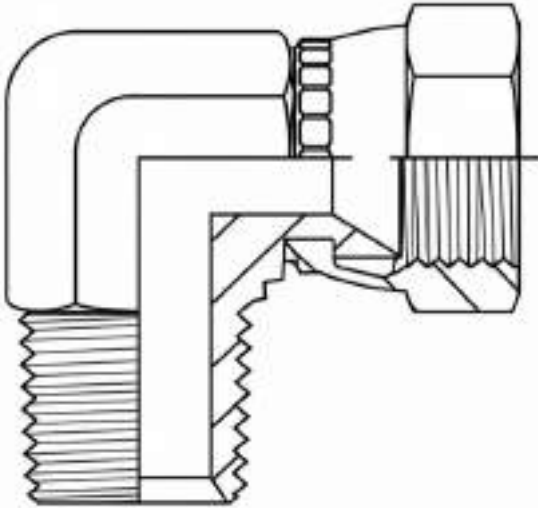
90° ADAPTORS		
BSPP M x JIC M		
	PART NUMBER	DESCRIPTION
	BPM-JIM-90C-0207	1/8 BSPPM x 7/16 JICM 90C ADJ
	BPM-JIM-90C-0209	1/8 BSPPM x 9/16 JICM 90C ADJ
	BPM-JIM-90C-0407	1/4 BSPPM x 7/16 JICM 90C ADJ
	BPM-JIM-90C-0408	1/4 BSPPM x 1/2 JICM 90C ADJ
	BPM-JIM-90C-0409	1/4 BSPPM x 9/16 JICM 90C ADJ
	BPM-JIM-90C-0412	1/4 BSPPM x 3/4 JICM 90C ADJ
	BPM-JIM-90C-0607	3/8 BSPPM x 7/16 JICM 90C ADJ
	BPM-JIM-90C-0609	3/8 BSPPM x 9/16 JICM 90C ADJ
	BPM-JIM-90C-0612	3/8 BSPPM x 3/4 JICM 90C ADJ
	BPM-JIM-90C-0614	3/8 BSPPM x 7/8 JICM 90C ADJ
	BPM-JIM-90C-0807	1/2 BSPPM x 7/16 JICM 90C ADJ
	BPM-JIM-90C-0809	1/2 BSPPM x 9/16 JICM 90C ADJ
	BPM-JIM-90C-0812	1/2 BSPPM x 3/4 JICM 90C ADJ
	BPM-JIM-90C-0814	1/2 BSPPM x 7/8 JICM 90C ADJ
	BPM-JIM-90C-0817	1/2 BSPPM x 1-1/16 JICM 90CADJ
	BPM-JIM-90C-1209	3/4 BSPPM x 9/16 JICM 90C ADJ
	BPM-JIM-90C-1212	3/4 BSPPM x 3/4 JICM 90C ADJ
	BPM-JIM-90C-1214	3/4 BSPPM x 7/8 JICM 90C ADJ
	BPM-JIM-90C-1217	3/4 BSPPM x 1-1/16 JICM 90CADJ
	BPM-JIM-90C-1221	3/4 BSPPM x 1-5/16 JICM 90CADJ
	BPM-JIM-90C-1617	1-0 BSPPM x 1-1/16 JICM 90CADJ
	BPM-JIM-90C-1621	1-0 BSPPM x 1-5/16 JICM 90CADJ
	BPM-JIM-90C-1626	1-0 BSPPM x 1-5/8 JICM 90C ADJ
	BPM-JIM-90C-2017	1-1/4BSPPM x 1-1/16JICM 90CADJ
	BPM-JIM-90C-2021	1-1/4BSPPM x 1-5/16JICM 90CADJ
	BPM-JIM-90C-2026	1-1/4BSPPM x 1-5/8JICM 90C ADJ
	BPM-JIM-90C-2030	1-1/4BSPPM x 1-7/8JICM 90C ADJ
	BPM-JIM-90C-2426	1-1/2BSPPM x 1-5/8JICM 90CADJ
	BPM-JIM-90C-2430	1-1/2BSPPM x 1-7/8JICM 90C ADJ

90° ADAPTORS		
BSPP M x METRIC HEAVY M		
	PART NUMBER	DESCRIPTION
	BPM-MHM-90C-0414	1/4 BSPP P x 14x1.5 MHM 90C
	BPM-MHM-90C-0416	1/4 BSPP P x 16x1.5 MHM 90C
	BPM-MHM-90C-0618	3/8 BSPP P x 18x1.5 MHM 90C
	BPM-MHM-90C-0620	3/8 BSPP P x 20x1.5 MHM 90C
	BPM-MHM-90C-0822	1/2 BSPP P x 22x1.5 MHM 90C
	BPM-MHM-90C-0824	1/2 BSPP P x 24x1.5 MHM 90C
	BPM-MHM-90C-1230	3/4 BSPP P x 30x2.0 MHM 90C
	BPM-MHM-90C-1636	1-0 BSPP P x 36x2.0 MHM 90C
	BPM-MHM-90C-2042	1-1/4 BSPP P x 42x2.0 MHM 90C
	BPM-MHM-90C-2452	1-1/2 BSPP P x 52x2.0 MHM 90C
90° ADAPTORS		
BSPP M x METRIC LIGHT M		
	PART NUMBER	DESCRIPTION
	BPM-MLM-90C-0212	1/8 BSPP P x 12x1.5 MLM 90C
	BPM-MLM-90C-0414	1/4 BSPP P x 14x1.5 MLM 90C
	BPM-MLM-90C-0416	1/4 BSPP P x 16x1.5 MLM 90C
	BPM-MLM-90C-0616	3/8 BSPP P x 16x1.5 MLM 90C
	BPM-MLM-90C-0618	3/8 BSPP P x 18x1.5 MLM 90C
	BPM-MLM-90C-0822	1/2 BSPP P x 22x1.5 MLM 90C
	BPM-MLM-90C-0826	1/2 BSPP P x 26x1.5 MLM 90C
	BPM-MLM-90C-1230	3/4 BSPP P x 30x1.5 MLM 90C
	BPM-MLM-90C-1626	1-0 BSPP P x 26x1.5 MLM 90C
	BPM-MLM-90C-1636	1-0 BSPP P x 36x2.0 MLM 90C
	BPM-MLM-90C-2045	1-1/4 BSPP P x 45x2.0 MLM 90C
	BPM-MLM-90C-2445	1-1/2 BSPP P x 45x2.0 MLM 90C
	BPM-MLM-90C-2452	1-1/2 BSPP P x 52x2.0 MLM 90C

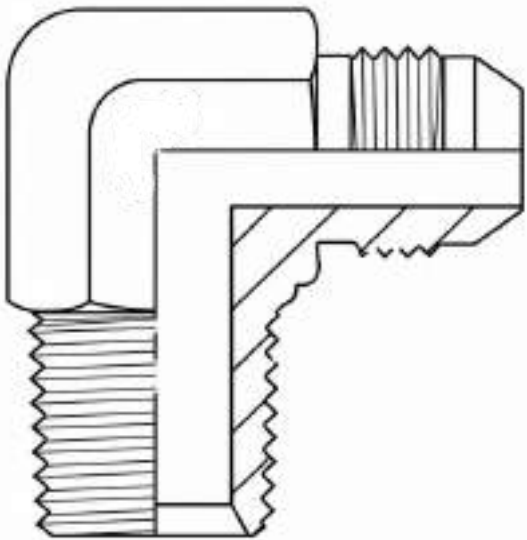
90° ADAPTORS		
BSPP M x ORFS M		
	PART NUMBER	DESCRIPTION
	BPM-ORM-90C-0209	1/8 BSPP P x 9/16 ORFSM 90C
	BPM-ORM-90C-0409	1/4 BSPP P x 9/16 ORFSM 90C
	BPM-ORM-90C-0411	1/4 BSPP P x 11/16 ORFSM 90C
	BPM-ORM-90C-0413	1/4 BSPP P x 13/16 ORFSM 90C
	BPM-ORM-90C-0609	3/8 BSPP P x 9/16 ORFSM 90C
	BPM-ORM-90C-0611	3/8 BSPP P x 11/16 ORFSM 90C
	BPM-ORM-90C-0613	3/8 BSPP P x 13/16 ORFSM 90C
	BPM-ORM-90C-0811	1/2 BSPP P x 11/16 ORFSM 90C
	BPM-ORM-90C-0813	1/2 BSPP P x 13/16 ORFSM 90C
	BPM-ORM-90C-0816	1/2 BSPP P x 1-0 ORFSM 90C
	BPM-ORM-90C-0819	1/2 BSPP P x 1-3/16 ORFSM 90C
	BPM-ORM-90C-1213	3/4 BSPP P x 13/16 ORFSM 90C
	BPM-ORM-90C-1219	3/4 BSPP P x 1-3/16 ORFSM 90C
	BPM-ORM-90C-1223	3/4 BSPP P x 1-7/16 ORFSM 90C
	BPM-ORM-90C-1619	1-0 BSPP P x 1-3/16 ORFSM 90C
	BPM-ORM-90C-1623	1-0 BSPP P x 1-7/16 ORFSM 90C
	BPM-ORM-90C-1627	1-0 BSPP P x 1-11/16 ORFSM 90C
90° ADAPTORS		
BSPP F SWIVEL x BSPP F SWIVEL		
	PART NUMBER	DESCRIPTION
	BSF-BSF-90C-0404	1/4 BSPPFS x 1/4 BSPPFS 90C
	BSF-BSF-90C-0606	3/8 BSPFS x 3/8 BSPFS 90C
	BSF-BSF-90C-0808	1/2 BSPFS x 1/2 BSPFS 90C
	BSF-BSF-90C-1212	3/4 BSPFS x 3/4 BSPFS 90C
90° ADAPTORS		
BSPT F x BSPT F		
	PART NUMBER	DESCRIPTION
	BTF-BTF-90C-0202	1/8 BSPTF x 1/8 BSPTF 90C
	BTF-BTF-90C-0404	1/4 BSPTF x 1/4 BSPTF 90C
	BTF-BTF-90C-0606	3/8 BSPTF x 3/8 BSPTF 90C
	BTF-BTF-90C-0808	1/2 BSPTF x 1/2 BSPTF 90C
	BTF-BTF-90C-1212	3/4 BSPTF x 3/4 BSPTF 90C
	BTF-BTF-90C-1616	1-0 BSPTF x 1-0 BSPTF 90C
	BTF-BTF-90C-2020	1-1/4 BSPTF x 1-1/4 BSPTF 90C
	BTF-BTF-90C-2424	1-1/2 BSPTF x 1-1/2 BSPTF 90C
	BTF-BTF-90C-3232	2-0 BSPTF x 2-0 BSPTF 90C

90° ADAPTORS		
BSPT M x JIS M		
	PART NUMBER	DESCRIPTION
	BTM-BJM-90C-0404	1/4 BSPTM x 1/4 JIS M 90C
	BTM-BJM-90C-0606	3/8 BSPTM x 3/8 JIS M 90C
	BTM-BJM-90C-0808	1/2 BSPTM x 1/2 JIS M 90C
	BTM-BJM-90C-1212	3/4 BSPTM x 3/4 JIS M 90C
	BTM-BJM-90C-1616	1-0 BSPTM x 1-0 JIS M 90C
90° ADAPTORS		
BSPT M x BSPP F SWIVEL		
	PART NUMBER	DESCRIPTION
	BTM-BSF-90C-0202	1/8 BSPTM x 1/8 BSPFS 90C
	BTM-BSF-90C-0404	1/4 BSPTM x 1/4 BSPFS 90C
	BTM-BSF-90C-0406	1/4 BSPTM x 3/8 BSPFS 90C
	BTM-BSF-90C-0604	3/8 BSPTM x 1/4 BSPFS 90C
	BTM-BSF-90C-0606	3/8 BSPTM x 3/8 BSPFS 90C
	BTM-BSF-90C-0608	3/8 BSPTM x 1/2 BSPFS 90C
	BTM-BSF-90C-0806	1/2 BSPTM x 3/8 BSPFS 90C
	BTM-BSF-90C-0808	1/2 BSPTM x 1/2 BSPFS 90C
	BTM-BSF-90C-0812	1/2 BSPTM x 3/4 BSPFS 90C
	BTM-BSF-90C-1208	3/4 BSPTM x 1/2 BSPFS 90C
	BTM-BSF-90C-1212	3/4 BSPTM x 3/4 BSPFS 90C
	BTM-BSF-90C-1216	3/4 BSPTM x 1-0 BSPFS 90C
	BTM-BSF-90C-1612	1-0 BSPTM x 3/4 BSPFS 90C
	BTM-BSF-90C-1616	1-0 BSPTM x 1-0 BSPFS 90C
	BTM-BSF-90C-2020	1-1/4 BSPTM x 1-1/4 BSPFS 90C
	BTM-BSF-90C-2424	1-1/2 BSPTM x 1-1/2 BSPFS 90C
	BTM-BSF-90C-3232	2-0 BSPTM x 2-0 BSPFS 90C
90° ADAPTORS		
BSPT M x BSPT F		
	PART NUMBER	DESCRIPTION
	BTM-BTF-90C-0202	1/8 BSPTM x 1/8 BSPTF 90C
	BTM-BTF-90C-0404	1/4 BSPTM x 1/4 BSPTF 90C
	BTM-BTF-90C-0408	1/4 BSPTM x 1/2 BSPTF 90C
	BTM-BTF-90C-0606	3/8 BSPTM x 3/8 BSPTF 90C
	BTM-BTF-90C-0806	1/2 BSPTM x 3/8 BSPTF 90C
	BTM-BTF-90C-0808	1/2 BSPTM x 1/2 BSPTF 90C
	BTM-BTF-90C-1212	3/4 BSPTM x 3/4 BSPTF 90C
	BTM-BTF-90C-1616	1-0 BSPTM x 1-0 BSPTF 90C
	BTM-BTF-90C-2020	1-1/4 BSPTM x 1-1/4 BSPTF 90C
	BTM-BTF-90C-2424	1-1/2 BSPTM x 1-1/2 BSPTF 90C
	BTM-BTF-90C-3232	2-0 BSPTM x 2-0 BSPTF 90C

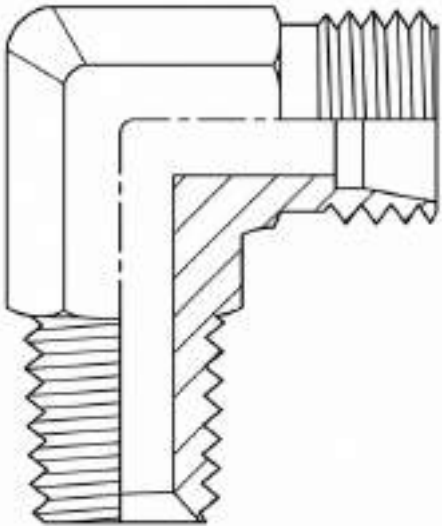
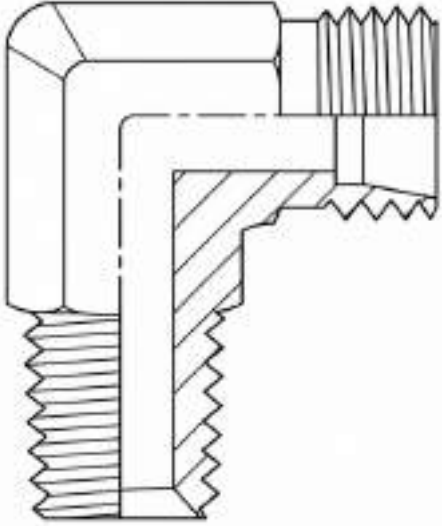


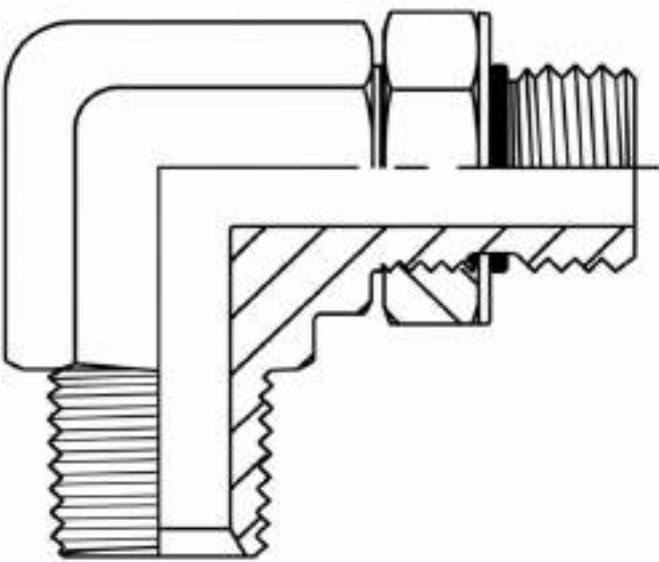
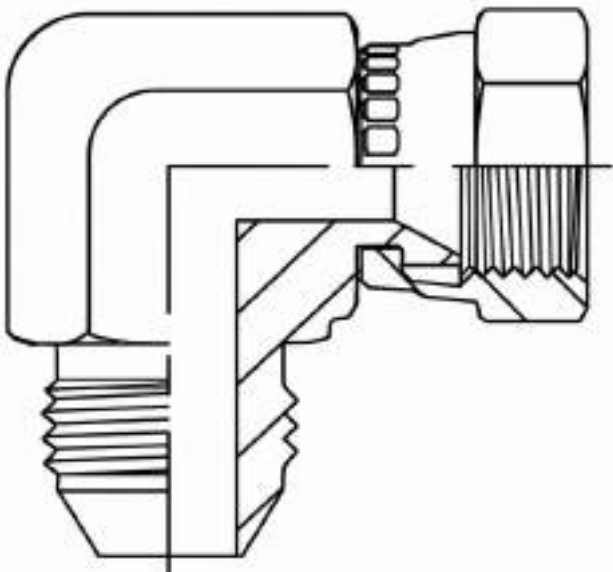
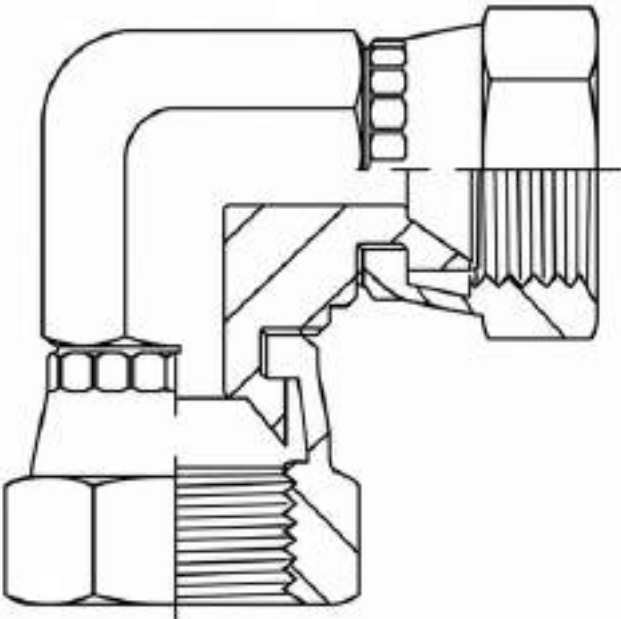
90° ADAPTORS		
BSPT M x BSPT M		
	PART NUMBER	DESCRIPTION
	BTM-BTM-90C-0202	1/8 BSPTM x 1/8 BSPTM 90C
	BTM-BTM-90C-0204	1/8 BSPTM x 1/4 BSPTM 90C
	BTM-BTM-90C-0404	1/4 BSPTM x 1/4 BSPTM 90C
	BTM-BTM-90C-0406	1/4 BSPTM x 3/8 BSPTM 90C
	BTM-BTM-90C-0408	1/4 BSPTM x 1/2 BSPTM 90C
	BTM-BTM-90C-0606	3/8 BSPTM x 3/8 BSPTM 90C
	BTM-BTM-90C-0608	3/8 BSPTM x 1/2 BSPTM 90C
	BTM-BTM-90C-0808	1/2 BSPTM x 1/2 BSPTM 90C
	BTM-BTM-90C-0812	1/2 BSPTM x 3/4 BSPTM 90C
	BTM-BTM-90C-0816	1/2 BSPTM x 1-0 BSPTM 90C
	BTM-BTM-90C-1212	3/4 BSPTM x 3/4 BSPTM 90C
	BTM-BTM-90C-1216	3/4 BSPTM x 1-0 BSPTM 90C
	BTM-BTM-90C-1616	1-0 BSPTM x 1-0 BSPTM 90C
	BTM-BTM-90C-1620	1-0 BSPTM x 1-1/4 BSPTM 90C
	BTM-BTM-90C-2020	1-1/4 BSPTM x 1-1/4 BSPTM 90C
	BTM-BTM-90C-2024	1-1/4 BSPTM x 1-1/2 BSPTM 90C
	BTM-BTM-90C-2424	1-1/2 BSPTM x 1-1/2 BSPTM 90C
	BTM-BTM-90C-3232	2-0 BSPTM x 2-0 BSPTM 90C
90° ADAPTORS		
BSPT M x JIC F SWIVEL		
	PART NUMBER	DESCRIPTION
	BTM-JIF-90C-0207	1/8 BSPTM x 7/16 JICFS 90C
	BTM-JIF-90C-0407	1/4 BSPTM x 7/16 JICFS 90C
	BTM-JIF-90C-0409	1/4 BSPTM x 9/16 JICFS 90C
	BTM-JIF-90C-0609	3/8 BSPTM x 9/16 JICFS 90C
	BTM-JIF-90C-0612	3/8 BSPTM x 3/4 JICFS 90C
	BTM-JIF-90C-0614	3/8 BSPTM x 7/8 JICFS 90C
	BTM-JIF-90C-0812	1/2 BSPTM x 3/4 JICFS 90C
	BTM-JIF-90C-0814	1/2 BSPTM x 7/8 JICFS 90C
	BTM-JIF-90C-1217	3/4 BSPTM x 1-1/16 JICFS 90C
	BTM-JIF-90C-1621	1-0 BSPTM x 1-5/16 JICFS 90C



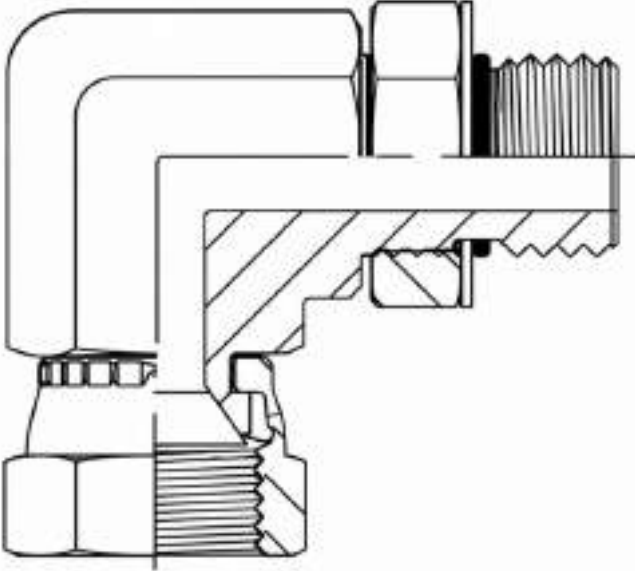
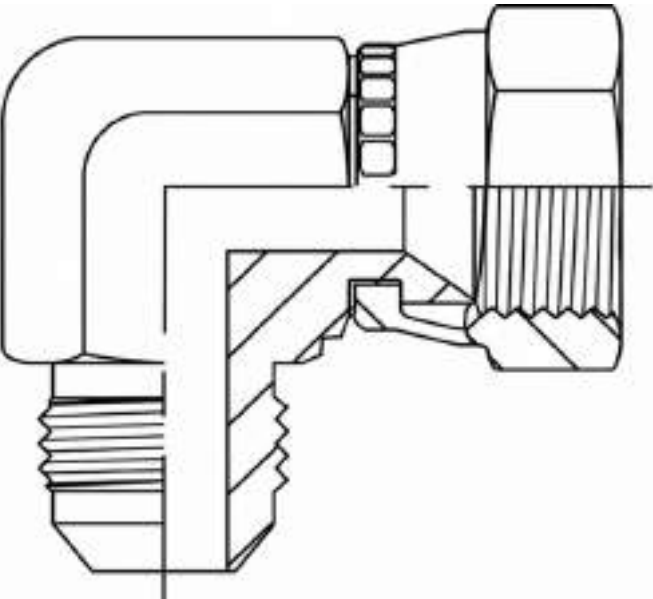
90° ADAPTORS		
BSPT M x JIC M		
	PART NUMBER	DESCRIPTION
	BTM-JIM-90C-0205	1/8 BSPTM x 5/16 JICM 90C
	BTM-JIM-90C-0207	1/8 BSPTM x 7/16 JICM 90C
	BTM-JIM-90C-0207 E30	1/8BSPTM 30mmOA x 7/16JICM 90C
	BTM-JIM-90C-0207 E40	1/8BSPTM 40mmOA x 7/16JICM 90C
	BTM-JIM-90C-0207 E58	1/8BSPTM 60mmOA x 7/16JICM 90C
	BTM-JIM-90C-0207 E75	1/8BSPTM 75mmOAx 7/16JICM 90C
	BTM-JIM-90C-0208	1/8 BSPTM x 1/2 JICM 90C
	BTM-JIM-90C-0209	1/8 BSPTM x 9/16 JICM 90C
	BTM-JIM-90C-0407	1/4 BSPTM x 7/16 JICM 90C
	BTM-JIM-90C-0408	1/4 BSPTM x 1/2 JICM 90C
	BTM-JIM-90C-0409	1/4 BSPTM x 9/16 JICM 90C
	BTM-JIM-90C-0412	1/4 BSPTM x 3/4 JICM 90C
	BTM-JIM-90C-0607	3/8 BSPTM x 7/16 JICM 90C
	BTM-JIM-90C-0609	3/8 BSPTM x 9/16 JICM 90C
	BTM-JIM-90C-0612	3/8 BSPTM x 3/4 JICM 90C
	BTM-JIM-90C-0614	3/8 BSPTM x 7/8 JICM 90C
	BTM-JIM-90C-0807	1/2 BSPTM x 7/16 JICM 90C
	BTM-JIM-90C-0809	1/2 BSPTM x 9/16 JICM 90C
	BTM-JIM-90C-0812	1/2 BSPTM x 3/4 JICM 90C
	BTM-JIM-90C-0814	1/2 BSPTM x 7/8 JICM 90C
	BTM-JIM-90C-0817	1/2 BSPTM x 1-1/16 JICM 90C
	BTM-JIM-90C-1209	3/4 BSPTM x 9/16 JICM 90C
	BTM-JIM-90C-1212	3/4 BSPTM x 3/4 JICM 90C
	BTM-JIM-90C-1214	3/4 BSPTM x 7/8 JICM 90C
	BTM-JIM-90C-1217	3/4 BSPTM x 1-1/16 JICM 90C
	BTM-JIM-90C-1221	3/4 BSPTM x 1-5/16 JICM 90C
	BTM-JIM-90C-1617	1-0 BSPTM x 1-1/16 JICM 90C
	BTM-JIM-90C-1621	1-0 BSPTM x 1-5/16 JICM 90C
	BTM-JIM-90C-1626	1-0 BSPTM x 1-5/8 JICM 90C
	BTM-JIM-90C-2017	1-1/4 BSPTM x 1-1/16 JICM 90C
	BTM-JIM-90C-2021	1-1/4 BSPTM x 1-5/16 JICM 90C
	BTM-JIM-90C-2026	1-1/4 BSPTM x 1-5/8 JICM 90C
	BTM-JIM-90C-2426	1-1/2 BSPTM x 1-5/8 JICM 90C
	BTM-JIM-90C-2430	1-1/2 BSPTM x 1-7/8 JICM 90C

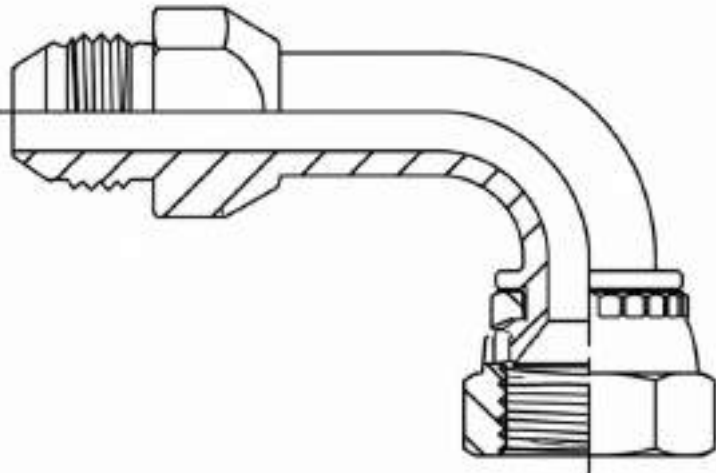
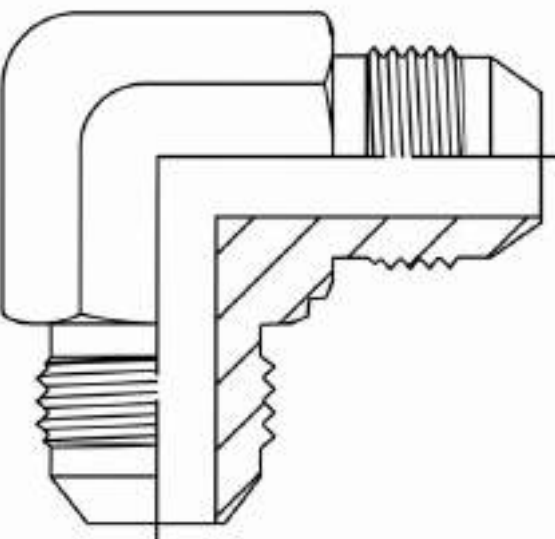


90° ADAPTORS		
BSPT M x METRIC HEAVY M		
	PART NUMBER	DESCRIPTION
	BTM-MHM-90C-0414	1/4 BSPTM x 14x1.5 MHM 90C
	BTM-MHM-90C-0416	1/4 BSPTM x 16x1.5 MHM 90C
	BTM-MHM-90C-0618	3/8 BSPTM x 18x1.5 MHM 90C
	BTM-MHM-90C-0620	3/8 BSPTM x 20x1.5 MHM 90C
	BTM-MHM-90C-0622	3/8 BSPTM x 22x1.5 MHM 90C
	BTM-MHM-90C-0624	3/8 BSPTM x 24x1.5 MHM 90C
	BTM-MHM-90C-0820	1/2 BSPTM x 20x1.5 MHM 90C
	BTM-MHM-90C-0822	1/2 BSPTM x 22x1.5 MHM 90C
	BTM-MHM-90C-0824	1/2 BSPTM x 24x1.5 MHM 90C
	BTM-MHM-90C-0830	1/2 BSPTM x 30x2.0 MHM 90C
	BTM-MHM-90C-1230	3/4 BSPTM x 30x2.0 MHM 90C
	BTM-MHM-90C-1236	3/4 BSPTM x 36x2.0 MHM 90C
	BTM-MHM-90C-1636	1-0 BSPTM x 36x2.0 MHM 90C
	BTM-MHM-90C-1642	1-0 BSPTM x 42x2.0 MHM 90C
	BTM-MHM-90C-2042	1-1/4 BSPTM x 42x2.0 MHM 90C
	BTM-MHM-90C-2452	1-1/2 BSPTM x 42x2.0 MHM 90C
90° ADAPTORS		
BSPT M x METRIC LIGHT M		
	PART NUMBER	DESCRIPTION
	BTM-MLLM-90C-0208	1/8 BSPTM x 8x1.0 MLLM 90C
	BTM-MLLM-90C-0210	1/8 BSPTM x 10x1.0 MLLM 90C
	BTM-MLLM-90C-0212	1/8 BSPTM x 12x1.0 MLLM 90C
	BTM-MLLM-90C-0410	1/4 BSPTM x 10x1.0 MLLM 90C
	BTM-MLM-90C-0212	1/8 BSPTM x 12x1.5 MLM 90C
	BTM-MLM-90C-0214	1/8 BSPTM x 14x1.5 MLM 90C
	BTM-MLM-90C-0216	1/8 BSPTM x 16x1.5 MLM 90C
	BTM-MLM-90C-0412	1/4 BSPTM x 12x1.5 MLM 90C
	BTM-MLM-90C-0414	1/4 BSPTM x 14x1.5 MLM 90C
	BTM-MLM-90C-0416	1/4 BSPTM x 16x1.5 MLM 90C
	BTM-MLM-90C-0418	1/4 BSPTM x 18x1.5 MLM 90C
	BTM-MLM-90C-0614	3/8 BSPTM x 14x1.5 MLM 90C
	BTM-MLM-90C-0616	3/8 BSPTM x 16x1.5 MLM 90C
	BTM-MLM-90C-0618	3/8 BSPTM x 18x1.5 MLM 90C
	BTM-MLM-90C-0622	3/8 BSPTM x 22x1.5 MLM 90C
	BTM-MLM-90C-0814	1/2 BSPTM x 14x1.5 MLM 90C
	BTM-MLM-90C-0816	1/2 BSPTM x 16x1.5 MLM 90C
	BTM-MLM-90C-0818	1/2 BSPTM x 18x1.5 MLM 90C
	BTM-MLM-90C-0822	1/2 BSPTM x 22x1.5 MLM 90C
	BTM-MLM-90C-0826	1/2 BSPTM x 26x1.5 MLM 90C
	BTM-MLM-90C-1226	3/4 BSPTM x 26x1.5 MLM 90C
	BTM-MLM-90C-1230	3/4 BSPTM x 30x2.0 MLM 90C
	BTM-MLM-90C-1636	1-0 BSPTM x 36x2.0 MLM 90C
	BTM-MLM-90C-2045	1-1/4 BSPTM x 45x2.0 MLM 90C
	BTM-MLM-90C-2445	1-1/2 BSPTM x 45x2.0 MLM 90C

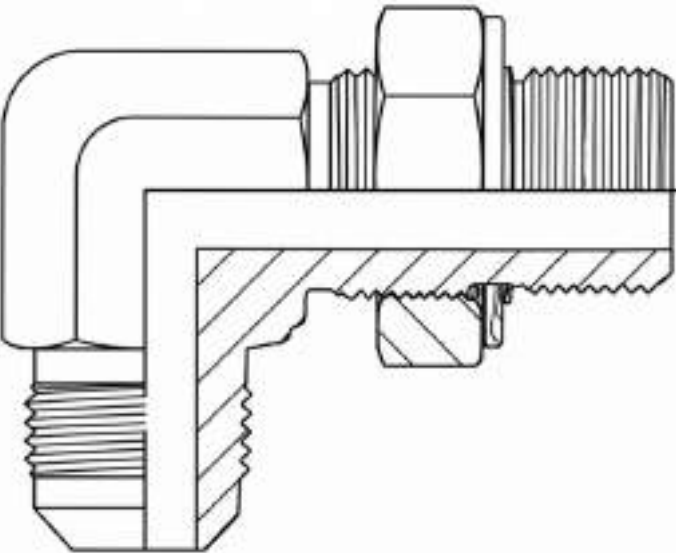
90° ADAPTORS		
BSPT M x METRIC HEAVY M		
	PART NUMBER	DESCRIPTION
	BTM-UNM-90C-0407	1/4 BSPTM x 7/16 UNO P 90C
	BTM-UNM-90C-0409	1/4 BSPTM x 9/16 UNO P 90C
	BTM-UNM-90C-0412	1/4 BSPTM x 3/4 UNO P 90C
	BTM-UNM-90C-0609	3/8 BSPTM x 9/16 UNO P 90C
	BTM-UNM-90C-0612	3/8 BSPTM x 3/4 UNO P 90C
	BTM-UNM-90C-0614	3/8 BSPTM x 7/8 UNO P 90C
	BTM-UNM-90C-0812	1/2 BSPTM x 3/4 UNO P 90C
	BTM-UNM-90C-0814	1/2 BSPTM x 7/8 UNO P 90C
	BTM-UNM-90C-0817	1/2 BSPTM x 1-1/6 UNO P 90C
	BTM-UNM-90C-1214	3/4 BSPTM x 7/8 UNO P 90C
	BTM-UNM-90C-1217	3/4 BSPTM x 1-1/16 UNO P 90C
	BTM-UNM-90C-1221	3/4 BSPTM x 1-5/16 UNO P 90C
	BTM-UNM-90C-1621	1-0 BSPTM x 1-5/16 UNO P 90C
90° ADAPTORS		
JIS M x JIS F SWIVEL		
	PART NUMBER	DESCRIPTION
	BJM-BJF-90C-0202	1/8 JIS M x 1/8 JIS F 90C
	BJM-BJF-90C-0404	1/4 JIS M x 1/4 JIS F 90C
	BJM-BJF-90C-0606	3/8 JIS M x 3/8 JIS F 90C
	BJM-BJF-90C-0808	1/2 JIS M x 1/2 JIS F 90C
	BJM-BJF-90C-1212	3/4 JIS M x 3/4 JIS F 90C
90° ADAPTORS		
JIC F SWIVEL x JIC F SWIVEL		
	PART NUMBER	DESCRIPTION
	JIF-JIF-90C-0707	7/16 JICFS x 7/16 JICFS 90C
	JIF-JIF-90C-0909	9/16 JICFS x 9/16 JICFS 90C
	JIF-JIF-90C-1212	3/4 JICFS x 3/4 JICFS 90C
	JIF-JIF-90C-1414	7/8 JICFS x 7/8 JICFS 90C
	JIF-JIF-90C-1717	1-1/16JICFS x 1-1/16JICFS 90C
	JIF-JIF-90C-2121	1-5/16JICFS x 1-5/16JICFS 90C
	JIF-JIF-90C-2626	1-5/8 JICFS x 1-5/8 JICFS 90C
	JIF-JIF-90C-3030	1-7/8 JICFS x 1-7/8 JICFS 90C

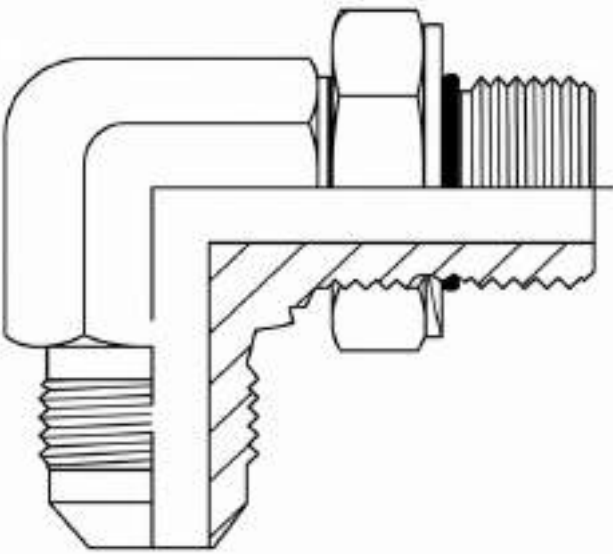


90° ADAPTORS		
JIC F SWIVEL x UNO M		
	PART NUMBER	DESCRIPTION
	JIF-UNM-90C-0707	7/16 JICFS x 7/16 UNO P 90C
	JIF-UNM-90C-0909	9/16 JICFS x 9/16 UNO P 90C
	JIF-UNM-90C-1212	3/4 JICFS x 3/4 UNO P 90C
	JIF-UNM-90C-1414	7/8 JICFS x 7/8 UNO P 90C
	JIF-UNM-90C-1717	1-1/16 JICFS x 1-1/16 UNOP 90C
	JIF-UNM-90C-2121	1-5/16 JICFS x 1-5/16 UNOP 90C
	JIF-UNM-90C-2626	1-5/8 JICFS x 1-5/8 UNM 90C
90° ADAPTORS		
JIC M x JIC F SWIVEL (COMPACT)		
	PART NUMBER	DESCRIPTION
	JIM-JIF-90C-0606	3/8 JICM x 3/8 JICFS 90C
	JIM-JIF-90C-0707	7/16 JICM x 7/16 JICFS 90C
	JIM-JIF-90C-0709	7/16 JICM x 9/16 JICFS 90C
	JIM-JIF-90C-0808	1/2 JICM x 1/2 JICFS 90C
	JIM-JIF-90C-0907	9/16 JIC M x 7/16JIC F 90C
	JIM-JIF-90C-0909	9/16 JICM x 9/16 JICFS 90C
	JIM-JIF-90C-0912	9/16 JICM x 3/4 JICFS 90C
	JIM-JIF-90C-1209	3/4 JICM x 9/16 JICFS 90C
	JIM-JIF-90C-1212	3/4 JICM x 3/4 JICFS 90C
	JIM-JIF-90C-1214	3/4 JICM x 7/8 JICFS 90C
	JIM-JIF-90C-1217	3/4 JICM x 1-1/16 JICFS 90C
	JIM-JIF-90C-1412	7/8 JICM x 3/4 JICFS 90C
	JIM-JIF-90C-1414	7/8 JICM x 7/8 JICFS 90C
	JIM-JIF-90C-1417	7/8 JICM x 1-1/16 JICFS 90C
	JIM-JIF-90C-1712	1-1/16 JICM x 3/4 JICFS 90 Deg
	JIM-JIF-90C-1714	1-1/16JICM x 7/8 JICFS 90C
	JIM-JIF-90C-1717	1-1/16 JICM x 1-1/16 JICFS 90C
	JIM-JIF-90C-1721	1-1/16 JICM x 1-5/16 JICFS 90C
	JIM-JIF-90C-1919	1-3/16 JICM x 1-3/16 JICFS 90C
	JIM-JIF-90C-2121	1-5/16 JICM x 1-5/16 JICFS 90C
	JIM-JIF-90C-2126	1-5/16 JICM x 1-5/8 JICFS 90C
	JIM-JIF-90C-2626	1-5/8 JICM x 1-5/8 JICFS 90C
	JIM-JIF-90C-3030	1-7/8 JICM x 1-7/8 JICFS 90C
	JIM-JIF-90C-4040	2-1/2 JICM x 2-1/2 JICFS 90C

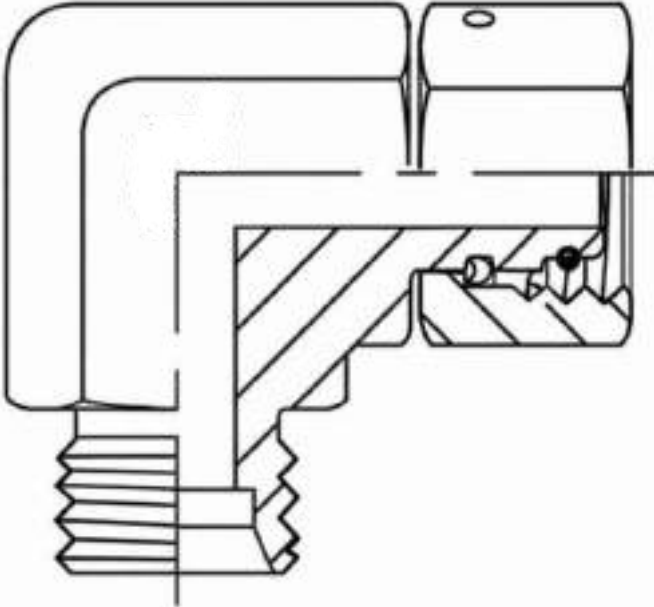
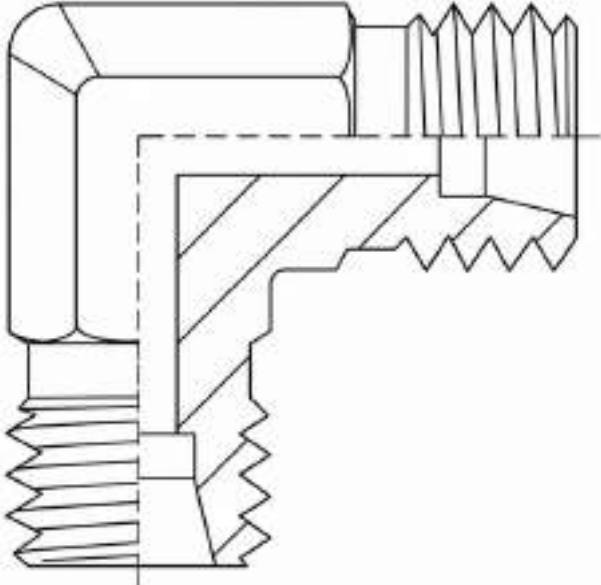
90° ADAPTORS		
JIC M x JIC F SWIVEL (SWEPT)		
	PART NUMBER	DESCRIPTION
	JIM-JIF-90S-0707	7/16 JICM x JICFS 90S
	JIM-JIF-90S-0707L	7/16 JICM x JICFS 90S Long
	JIM-JIF-90S-0909	9/16 JICM x JICFS 90S
	JIM-JIF-90S-0909L	9/16 JICM x JICFS 90S Long
	JIM-JIF-90S-1212	3/4 JICM x JICFS 90S
	JIM-JIF-90S-1212L	3/4 JICM x JICFS 90S Long
	JIM-JIF-90S-1414	7/8 JICM x JICFS 90S
	JIM-JIF-90S-1414L	7/8 JICM x JICFS 90S Long
	JIM-JIF-90S-1717	1-1/16 JICM x JICFS 90S
	JIM-JIF-90S-1717L	1-1/16 JICM x JICFS 90S Long
	JIM-JIF-90S-2121	1-5/16 JICM x JICFS 90S
	JIM-JIF-90S-2121L	1-5/16 JICM x JICFS 90S Long
	JIM-JIF-90S-2626	1-5/8 JICM x JICFS 90S
90° ADAPTORS		
JIC M x JIC M		
	PART NUMBER	DESCRIPTION
	JIM-JIM-90C-0707	7/16 JICM x 7/16 JICM 90C
	JIM-JIM-90C-0709	7/16 JICM x 9/16 JICM 90C
	JIM-JIM-90C-0808	1/2 JICM x 1/2 JICM 90C
	JIM-JIM-90C-0809	1/2 JICM x 9/16 JICM 90C
	JIM-JIM-90C-0909	9/16 JICM x 9/16 JICM 90C
	JIM-JIM-90C-0912	9/16 JICM x 3/4 JICM 90C
	JIM-JIM-90C-1212	3/4 JICM x 3/4 JICM 90C
	JIM-JIM-90C-1214	3/4 JICM x 7/8 JICM 90C
	JIM-JIM-90C-1217	3/4 JICM x 1-1/16 JICM 90C
	JIM-JIM-90C-1414	7/8 JICM x 7/8 JICM 90C
	JIM-JIM-90C-1417	7/8 JICM x 1-1/16 JICM 90C
	JIM-JIM-90C-1717	1-1/16 JICM x 1-1/16 JICM 90C
	JIM-JIM-90C-1721	1-1/16 JICM x 1-5/16 JICM 90C
	JIM-JIM-90C-2121	1-5/16 JICM x 1-5/16 JICM 90C
	JIM-JIM-90C-2626	1-5/8 JICM x 1-5/8 JICM 90C
	JIM-JIM-90C-3030	1-7/8 JICM x 1-7/8 JICM 90C
	JIM-JIM-90C-4040	2-1/2 JICM x 2-1/2 JICM 90C

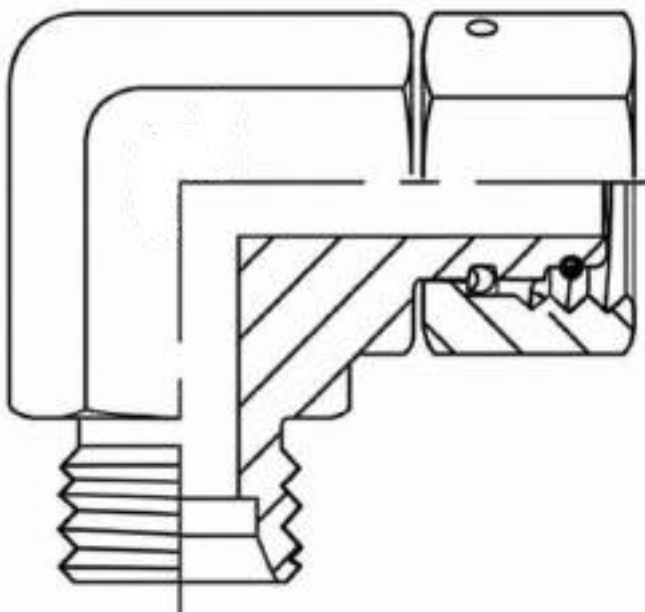
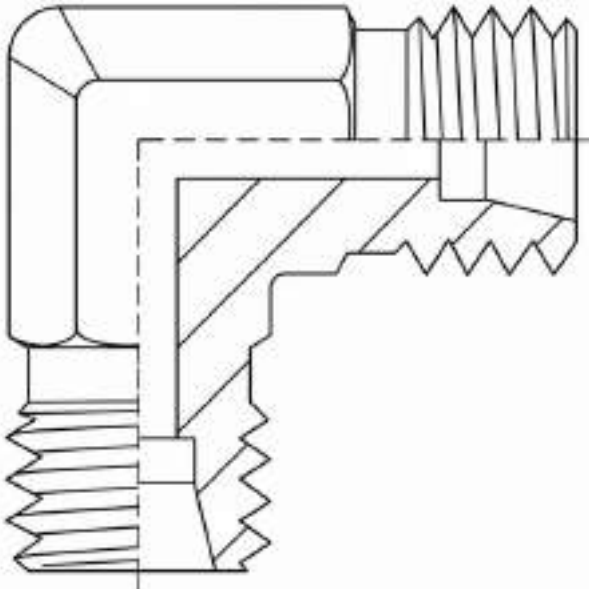


90° ADAPTORS		
JIC M x METRIC PORT M		
	PART NUMBER	DESCRIPTION
	JIM-MSM-90C-0710	7/16 JICM x 10mm Stud P 90C
	JIM-MSM-90C-0712	7/16 JICM x 12mm Stud P 90C
	JIM-MSM-90C-0714	7/16 JICM x 14mm Stud P 90C
	JIM-MSM-90C-0722	7/16 JICM x 22mm Stud 90 Deg
	JIM-MSM-90C-0812	1/2 JICM x 12mm Stud 90 Deg
	JIM-MSM-90C-0912	9/16 JICM x 12mm Stud P 90C
	JIM-MSM-90C-0914	9/16 JICM x 14mm Stud P 90C
	JIM-MSM-90C-0916	9/16 JICM x 16mm Stud P 90C
	JIM-MSM-90C-0918	9/16 JICM x 18mm Stud P 90C
	JIM-MSM-90C-1216	3/4 JICM x 16mm Stud P 90C
	JIM-MSM-90C-1218	3/4 JICM x 18mm Stud P 90C
	JIM-MSM-90C-1222	3/4 JICM x 22mm Stud P 90C
	JIM-MSM-90C-1418	7/8 JICM x 18mm Stud P 90C
	JIM-MSM-90C-1420	7/8 JICM x 20mm Stud P 90C
	JIM-MSM-90C-1422	7/8 JICM x 22mm Stud P 90C
	JIM-MSM-90C-1722	1-1/16 JICM x 22mm Stud P 90C
	JIM-MSM-90C-1727	1-1/16 JICM x 27mm Stud P 90C
	JIM-MSM-90C-2127	1-5/16 JICM x 27mm Stud P 90C
	JIM-MSM-90C-2133	1-5/16 JICM x 33mm Stud P 90C
	JIM-MSM-90C-2642	1-5/8 JICM x 42mm Stud P 90C

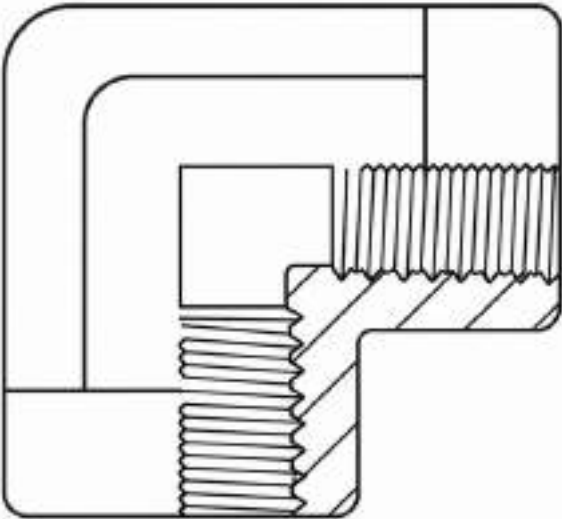
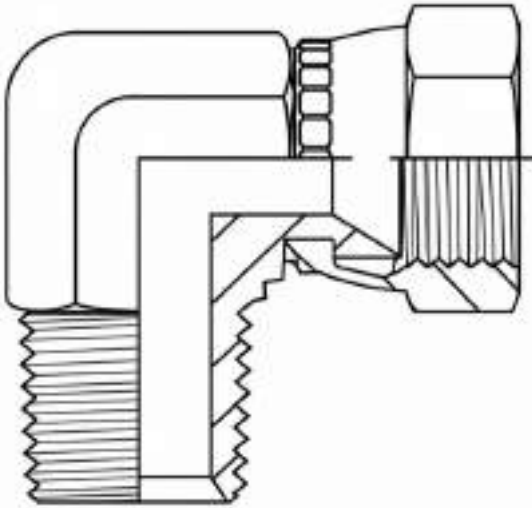
90° ADAPTORS		
JIC M x UNO M		
	PART NUMBER	DESCRIPTION
	JIM-UNM-90C-0707	7/16 JICM x 7/16 UNO P 90C
	JIM-UNM-90C-0708	7/16 JICM x 1/2 UNO P 90C
	JIM-UNM-90C-0709	7/16 JICM x 9/16 UNO P 90C
	JIM-UNM-90C-0712	7/16 JICM x 3/4 UNO P 90C
	JIM-UNM-90C-0807	1/2 JICM x 7/16 UNO P 90C
	JIM-UNM-90C-0808	1/2 JICM x 1/2 UNO P 90C
	JIM-UNM-90C-0809	1/2 JICM x 9/16 UNO P 90C
	JIM-UNM-90C-0907	9/16 JICM x 7/16 UNO P 90C
	JIM-UNM-90C-0908	9/16 JICM x 1/2 UNO P 90C
	JIM-UNM-90C-0909	9/16 JICM x 9/16 UNO P 90C
	JIM-UNM-90C-0912	9/16 JICM x 3/4 UNO P 90C
	JIM-UNM-90C-0914	9/16 JICM x 7/8 UNO P 90C
	JIM-UNM-90C-0917	9/16 JICM x 1-1/16 UNO P 90C
	JIM-UNM-90C-1207	3/4 JICM x 7/16 UNO P 90C
	JIM-UNM-90C-1209	3/4 JICM x 9/16 UNO P 90C
	JIM-UNM-90C-1212	3/4 JICM x 3/4 UNO P 90C
	JIM-UNM-90C-1214	3/4 JICM x 7/8 UNO P 90C
	JIM-UNM-90C-1217	3/4 JICM x 1-1/16 UNO P 90C
	JIM-UNM-90C-1221	3/4 JICM x 1-5/16 UNO P 90C
	JIM-UNM-90C-1409	7/8 JICM x 9/16 UNO P 90C
	JIM-UNM-90C-1412	7/8 JICM x 3/4 UNO P 90C
	JIM-UNM-90C-1414	7/8 JICM x 7/8 UNO P 90C
	JIM-UNM-90C-1417	7/8 JICM x 1-1/16 UNO P 90C
	JIM-UNM-90C-1421	7/8 JICM x 1-5/16 UNO P 90C
	JIM-UNM-90C-1709	1-1/16 JICM x 9/16 UNO P 90C
	JIM-UNM-90C-1712	1-1/16 JICM x 3/4 UNO P 90C
	JIM-UNM-90C-1714	1-1/16 JICM x 7/8 UNO P 90C
	JIM-UNM-90C-1717	1-1/16 JICM x 1-1/16 UNO P 90C
	JIM-UNM-90C-1719	1-1/16 JICM x 1-3/16 UNO P 90C
	JIM-UNM-90C-1721	1-1/16 JICM x 1-5/16 UNO P 90C
	JIM-UNM-90C-1726	1-1/16 JICM x 1-5/8 UNO P 90C
	JIM-UNM-90C-1919	1-3/16 JICM x 1-3/16 UNO P 90C
	JIM-UNM-90C-2112	1-5/16 JICM x 3/4 UNO P 90C
	JIM-UNM-90C-2114	1-5/16 JICM x 7/8 UNO 90 Deg
	JIM-UNM-90C-2117	1-5/16 JICM x 1-1/16 UNO P 90C
	JIM-UNM-90C-2119	1-5/16 JICM x 1-3/16 UNO P 90C
	JIM-UNM-90C-2121	1-5/16 JICM x 1-5/16 UNO P 90C
	JIM-UNM-90C-2126	1-5/16 JICM x 1-5/8 UNO P 90C
	JIM-UNM-90C-2130	1-5/16 JICM x 1-7/8 UNO P 90C
	JIM-UNM-90C-2621	1-5/8 JICM x 1-5/16 UNO P 90C
	JIM-UNM-90C-2626	1-5/8 JICM x 1-5/8 UNO P 90C
	JIM-UNM-90C-2630	1-5/8 JICM x 1-7/8 UNO P 90C
	JIM-UNM-90C-3026	1-7/8 JICM x 1-5/8 UNO P 90C
	JIM-UNM-90C-3030	1-7/8 JICM x 1-7/8 UNO P 90C
	JIM-UNM-90C-4040	2-1/2 JICM x 2-1/2 UNO P 90C

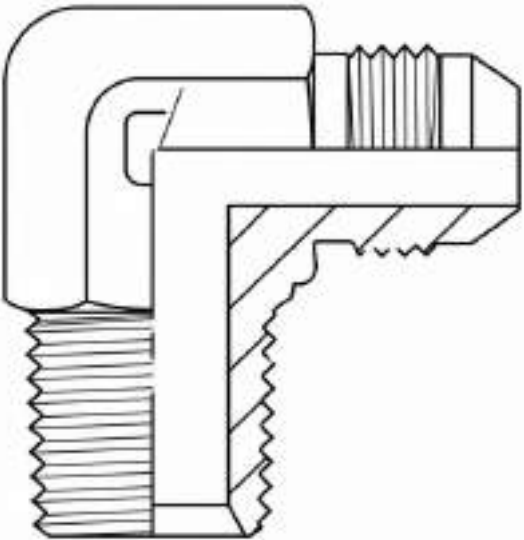


90° ADAPTORS		
METRIC HEAVY M x METRIC HEAVY F		
	PART NUMBER	DESCRIPTION
	MHM-MHF-90C-1414	14x1.5 MHM x 14x1.5 MHF 90C
	MHM-MHF-90C-1616	16x1.5 MHM x 16x1.5 MHF 90C
	MHM-MHF-90C-1818	18x1.5 MHM x 18x1.5 MHF 90C
	MHM-MHF-90C-2020	20x1.5 MHM x 20x1.5 MHF 90C
	MHM-MHF-90C-2222	22x1.5 MHM x 22x1.5 MHF 90C
	MHM-MHF-90C-2424	24x1.5 MHM x 24x1.5 MHF 90C
	MHM-MHF-90C-3030	30x2.0 MHM x 30x2.0 MHF 90C
	MHM-MHF-90C-3636	36x2.0 MHM x 36x2.0 MHF 90C
	MHM-MHF-90C-4242	42x2.0 MHM x 42x2.0 MHF 90C
	MHM-MHF-90C-5252	52x2.0 MHM x 52x2.0 MHF 90C
90° ADAPTORS		
METRIC HEAVY M x METRIC HEAVY M		
	PART NUMBER	DESCRIPTION
	MHM-MHM-90C-1414	14x1.5 MHM x 14x1.5 MHM 90C
	MHM-MHM-90C-1616	16x1.5 MHM x 16x1.5 MHM 90C
	MHM-MHM-90C-1818	18x1.5 MHM x 18x1.5 MHM 90C
	MHM-MHM-90C-2020	20x1.5 MHM x 20x1.5 MHM 90C
	MHM-MHM-90C-2222	22x1.5 MHM x 22x1.5 MHM 90C
	MHM-MHM-90C-2424	24x1.5 MHM x 24x1.5 MHM 90C
	MHM-MHM-90C-3030	30x2.0 MHM x 30x2.0 MHM 90C
	MHM-MHM-90C-3636	36x2.0 MHM x 36x2.0 MHM 90C
	MHM-MHM-90C-4242	42x2.0 MHM x 42x2.0 MHM 90C
	MHM-MHM-90C-5252	52x2.0 MHM x 52x2.0 MHM 90C

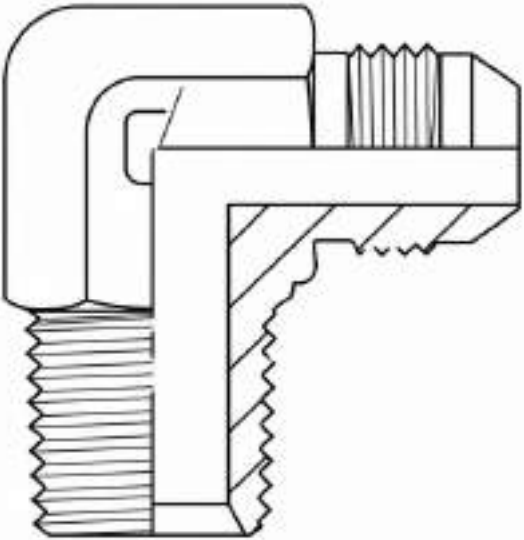
90° ADAPTORS		
METRIC LIGHT M x METRIC LIGHT F		
	PART NUMBER	DESCRIPTION
	MLM-MLF-90C-1212	12x1.5 MLM x MLF 90C
	MLM-MLF-90C-1414	14x1.5 MLM x MLF 90C
	MLM-MLF-90C-1616	16x1.5 MLM x MLF 90C
	MLM-MLF-90C-1818	18x1.5 MLM x MLF 90C
	MLM-MLF-90C-2222	22x1.5 MLM x MLF 90C
	MLM-MLF-90C-2626	26x1.5 MLM x MLF 90C
	MLM-MLF-90C-3030	30x2.0 MLM x MLF 90C
	MLM-MLF-90C-3636	36x2.0 MLM x MLF 90C
	MLM-MLF-90C-4545	45x2.0 MLM x MLF 90C
	MLM-MLF-90C-5252	52x2.0 MLM x MLF 90C
90° ADAPTORS		
METRIC LIGHT M x METRIC LIGHT M		
	PART NUMBER	DESCRIPTION
	MLLM-MLLM-90C-0808	8x1.0 MLLM x 8x1.0 MLLM 90C
	MLLM-MLLM-90C-1010	10x1.0 MLLM x 10x1.0 MLLM 90C
	MLLM-MLLM-90C-1212	12x1.0 MLLM x 12x1.0 MLLM 90C
	MLM-MLM-90C-1212	12x1.5 MLM x 12x1.5 MLM 90C
	MLM-MLM-90C-1414	14x1.5 MLM x 14x1.5 MLM 90C
	MLM-MLM-90C-1616	16x1.5 MLM x 16x1.5 MLM 90C
	MLM-MLM-90C-1818	18x1.5 MLM x 18x1.5 MLM 90C
	MLM-MLM-90C-2222	22x1.5 MLM x 22x1.5 MLM 90C
	MLM-MLM-90C-2626	26x1.5 MLM x 26x1.5 MLM 90C
	MLM-MLM-90C-3030	30x2.0 MLM x 30x2.0 MLM 90C
	MLM-MLM-90C-3636	36x2.0 MLM x 36x2.0 MLM 90C
	MLM-MLM-90C-4545	45x2.0 MLM x 45x2.0 MLM 90C
	MLM-MLM-90C-5252	52x2.0 MLM x 52x2.0 MLM 90C



90° ADAPTORS		
NPT F x NPT F		
	PART NUMBER	DESCRIPTION
	NTF-NTF-90C-0202	1/8 NPTF x 1/8 NPTF 90C
	NTF-NTF-90C-0204	1/8 NPTF x 1/4 NPTF 90C
	NTF-NTF-90C-0404	1/4 NPTF x 1/4 NPTF 90C
	NTF-NTF-90C-0606	3/8 NPTF x 3/8 NPTF 90C
	NTF-NTF-90C-0608	3/8 NPTF x 1/2 NPTF 90C
	NTF-NTF-90C-0808	1/2 NPTF x 1/2 NPTF 90C
	NTF-NTF-90C-1212	3/4 NPTF x 3/4 NPTF 90C
	NTF-NTF-90C-1616	1-0 NPTF x 1-0 NPTF 90C
	NTF-NTF-90C-2020	1-1/4 NPTF x 1-1/4 NPTF 90C
	NTF-NTF-90C-2424	1-1/2 NPTF x 1-1/2 NPTF 90C
	NTF-NTF-90C-3232	2-0 NPTF x 2-0 NPTF 90C
90° ADAPTORS		
NPT M x JIC F SWIVEL		
	PART NUMBER	DESCRIPTION
	NTM-JIF-90C-0207	1/2 NPTM x 7/16 JICFS 90C
	NTM-JIF-90C-0407	1/4 NPTM x 7/16 JICFS 90C
	NTM-JIF-90C-0409	1/4 NPTM x 9/16 JICFS 90C
	NTM-JIF-90C-0609	3/8 NPTM x 9/16 JICFS 90C
	NTM-JIF-90C-0812	1/2 NPTM x 3/4 JICFS 90C
	NTM-JIF-90C-0814	1/2 NPTM x 7/8 JICFS 90C
	NTM-JIF-90C-1217	3/4 NPTM x 1-1/16 JICFS 90C
	NTM-JIF-90C-1621	1-0 NPTM x 1-5/16 JICFS 90C
	NTM-JIF-90C-2026	1-1/4 NPTM x 1-5/8 JICFS 90Deg
	NTM-JIF-90C-2430	1-1/2 NPTM x 1-7/8 JICFS 90Deg

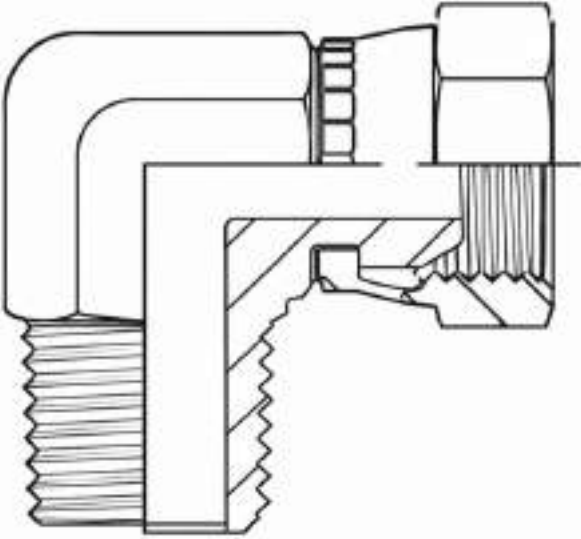
90° ADAPTORS		
NPT M x JIC M		
	PART NUMBER	DESCRIPTION
	NTM-JIM-90C-0206	1/8 NPTM x 3/8 JICM 90C
	NTM-JIM-90C-0207	1/8 NPTM x 7/16 JICM 90C
	NTM-JIM-90C-0207 E30	1/8 NPTM x 7/16 JICM 90C E30mm
	NTM-JIM-90C-0207 E40	1/8 NPTM x 7/16 JICM 90C E40mm
	NTM-JIM-90C-0207 E58	1/8 NPTM x 7/16 JICM 90C E58mm
	NTM-JIM-90C-0208	1/8 NPTM x 1/2 JICM 90C
	NTM-JIM-90C-0209	1/8 NPTM x 9/16 JICM 90C
	NTM-JIM-90C-0407	1/4 NPTM x 7/16 JICM 90C
	NTM-JIM-90C-0407 E40	1/4 NPTM x 7/16 JICM 90C E40mm
	NTM-JIM-90C-0407 E52	1/4 NPTM x 7/16 JICM 90C E52mm
	NTM-JIM-90C-0408	1/4 NPTM x 1/2 JICM 90C
	NTM-JIM-90C-0409	1/4 NPTM x 9/16 JICM 90C
	NTM-JIM-90C-0409 E40	1/4 NPTM x 9/16 JICM 90C E40mm
	NTM-JIM-90C-0409 E54	1/4 NPTM x9/16 JICM 90 E Long
	NTM-JIM-90C-0412	1/4 NPTM x 3/4 JICM 90C
	NTM-JIM-90C-0607	3/8 NPTM x 7/16 JICM 90C
	NTM-JIM-90C-0608	3/8 NPTM x 1/2 JICM 90 Degree
	NTM-JIM-90C-0609	3/8 NPTM x 9/16 JICM 90C
	NTM-JIM-90C-0609 E46	3/8 NPTM x 9/16 JICM 90 Long
	NTM-JIM-90C-0609 E60	3/8 NPTM x 9/16 JICM 90C E60mm
	NTM-JIM-90C-0612	3/8 NPTM x 3/4 JICM 90C
	NTM-JIM-90C-0612 E46	3/8 NPTM x 3/4 JICM 90C E46mm
	NTM-JIM-90C-0612 E61	3/8 NPTM x 3/4 JICM 90C E61mm
	NTM-JIM-90C-0614	3/8 NPTM x 7/8 JICM 90C
	NTM-JIM-90C-0807	1/2 NPTM x 7/16 JICM 90C
	NTM-JIM-90C-0809	1/2 NPTM x 9/16 JICM 90C
	NTM-JIM-90C-0809 E56	1/2 NPTM x 9/16 JICM 90C E56mm
	NTM-JIM-90C-0812	1/2 NPTM x 3/4 JICM 90C
	NTM-JIM-90C-0812 E55	1/2 NPTM x 3/4 JICM 90 Long
	NTM-JIM-90C-0812 E72	1/2 NPTM x 3/4 JICM 90C E72mm
	NTM-JIM-90C-0814	1/2 NPTM x 7/8 JICM 90C
	NTM-JIM-90C-0817	1/2 NPTM x 1-1/16 JICM 90C
	NTM-JIM-90C-0821	1/2 NPTM x 1-5/16 JICM 90C
	NTM-JIM-90C-1209	3/4 NPTM x 9/16 JICM 90C
	NTM-JIM-90C-1212	3/4 NPTM x 3/4 JICM 90C
	NTM-JIM-90C-1214	3/4 NPTM x 7/8 JICM 90C
	NTM-JIM-90C-1217	3/4 NPTM x 1-1/16 JICM 90C

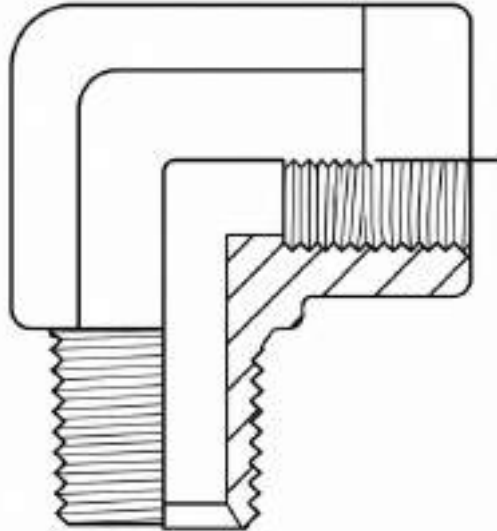
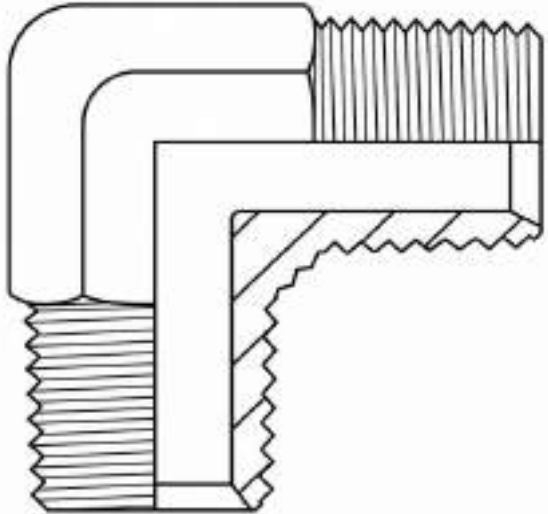


	NTM-JIM-90C-1217 E62	3/4 NPTM x 1-1/16JICM 90 E62mm
	NTM-JIM-90C-1217 E84	3/4 NPTMx1-1/16 JICM 90 E Long
	NTM-JIM-90C-1219	3/4 NPTM x 1-3/16 JICM 90C
	NTM-JIM-90C-1221	3/4 NPTM x 1-5/16 JICM 90C
	NTM-JIM-90C-1612	1-0 NPTM x 3/4 JICM 90 Degree
	NTM-JIM-90C-1617	1-0 NPTM x 1-1/16 JICM 90C
	NTM-JIM-90C-1621	1-0 NPTM x 1-5/16 JICM 90C
	NTM-JIM-90C-1626	1-0 NPTM x 1-5/8 JICM 90C
	NTM-JIM-90C-1630	1-0 NPTM x 1-7/8 JICM 90C
	NTM-JIM-90C-2021	1-1/4 NPTM x 1-5/16 JICM 90C
	NTM-JIM-90C-2026	1-1/4 NPTM x 1-5/8 JICM 90C
	NTM-JIM-90C-2030	1-1/4 NPTM x 1-7/8 JICM 90C
	NTM-JIM-90C-2421	1-1/2 NPTM x 1-5/16 JICM 90C
	NTM-JIM-90C-2426	1-1/2 NPTM x 1-5/8 JICM 90C
	NTM-JIM-90C-2430	1-1/2 NPTM x 1-7/8 JICM 90C
	NTM-JIM-90C-2440	1-1/2 NPTM x 2-1/2 JICM 90C
	NTM-JIM-90C-3230	2-0 NPTM x 1-7/8 JICM 90C
	NTM-JIM-90C-3240	2-0 NPTM x 2-1/2 JICM 90C

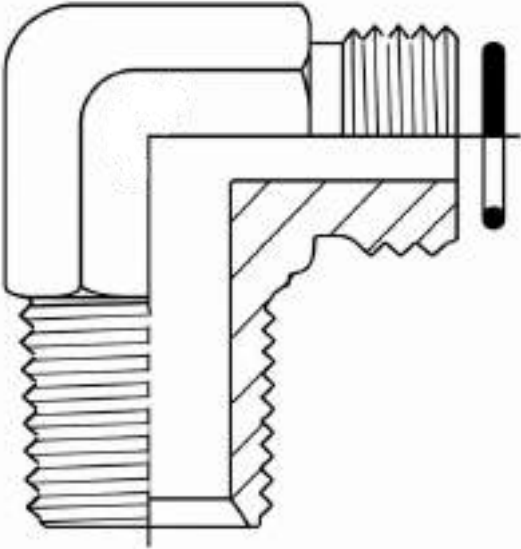
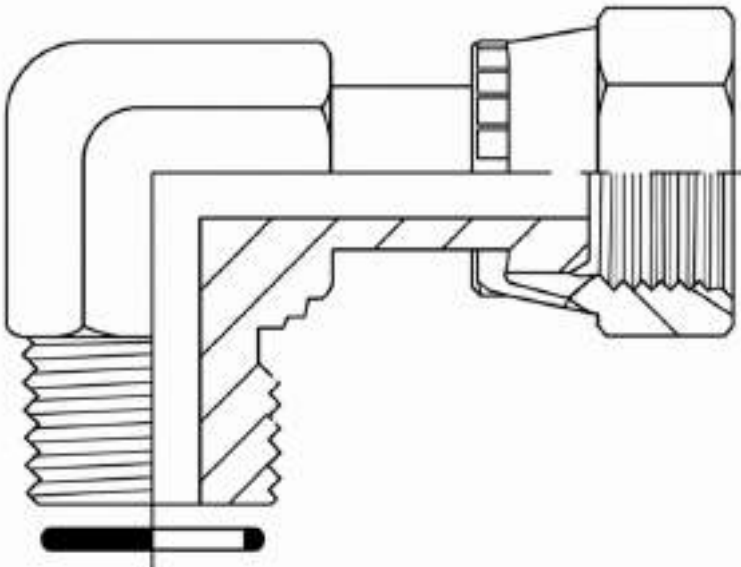
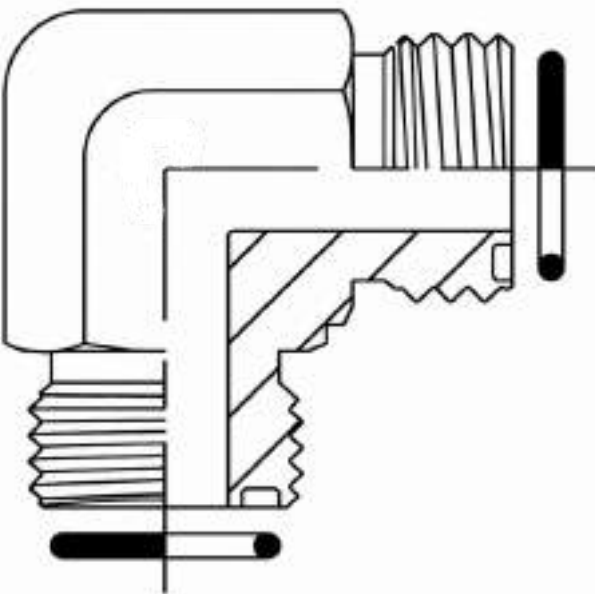
90° ADAPTORS

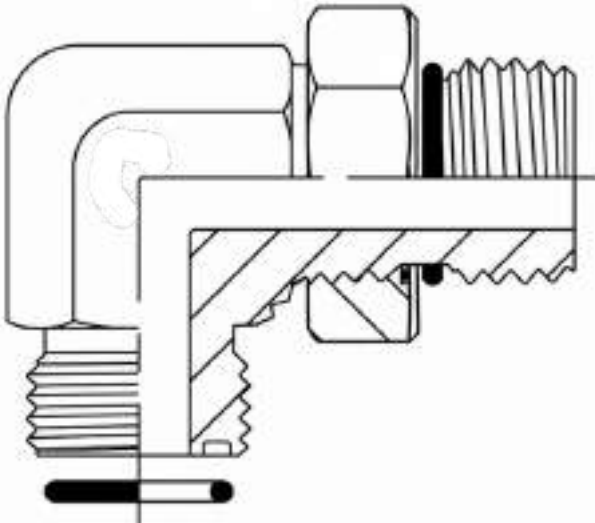
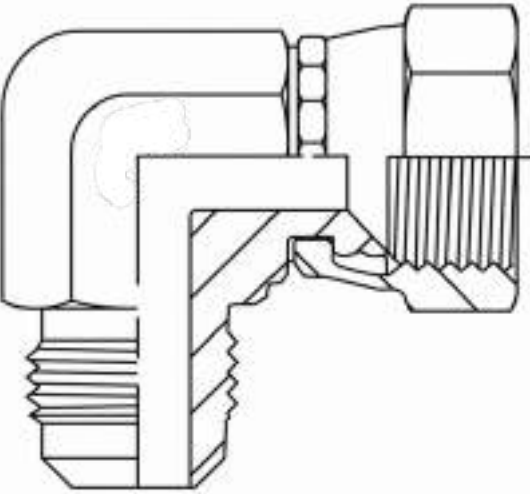
NPT M x NPT F SWIVEL

	PART NUMBER	DESCRIPTION
	NTM-NSF-90C-0202	1/8 NPTM x 1/8 NPSFS 90C
	NTM-NSF-90C-0404	1/4 NPTM x 1/4 NPSFS 90C
	NTM-NSF-90C-0406	1/4 NPTM x 3/8 NPSFS 90C
	NTM-NSF-90C-0604	3/8 NPTM x 1/4 NPSFS 90C
	NTM-NSF-90C-0606	3/8 NPTM x 3/8 NPSFS 90C
	NTM-NSF-90C-0608	3/8 NPTM x 1/2 NPSFS 90C
	NTM-NSF-90C-0806	1/2 NPTM x 3/8 NPSFS 90C
	NTM-NSF-90C-0808	1/2 NPTM x 1/2 NPSFS 90C
	NTM-NSF-90C-0812	1/2 NPTM x 3/4 NPSFS 90C
	NTM-NSF-90C-1212	3/4 NPTM x 3/4 NPSFS 90C
	NTM-NSF-90C-1216	3/4 NPTM x 1-0 NPSFS 90C
	NTM-NSF-90C-1616	1-0 NPTM x 1-0 NPSFS 90C
	NTM-NSF-90C-2020	1-1/4 NPTM x 1-1/4 NPSFS 90C
	NTM-NSF-90C-2424	1-1/2 NPTM x 1-1/2 NPSFS 90C
	NTM-NSF-90C-3232	2-0 NPTM x 2-0 NPSM 90C

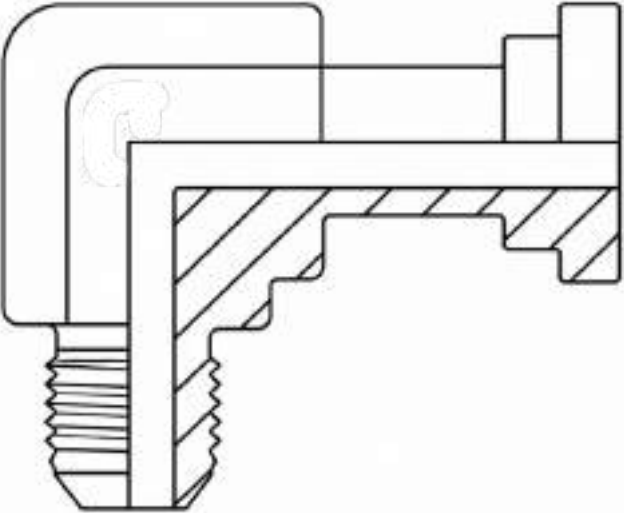
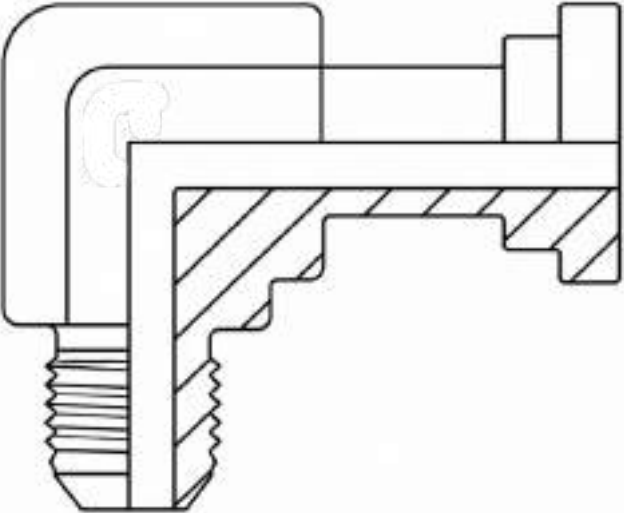
90° ADAPTORS		
NPT M x NPT F		
	PART NUMBER	DESCRIPTION
	NTM-NTF-90C-0202	1/8 NPTM x 1/8 NPTF 90C
	NTM-NTF-90C-0204	1/8 NPTM x 1/4 NPTF 90C
	NTM-NTF-90C-0402	1/4 NPTM x 1/8 NPTF 90C
	NTM-NTF-90C-0404	1/4 NPTM x 1/4 NPTF 90C
	NTM-NTF-90C-0406	1/4 NPTM x 3/8 NPTF 90C
	NTM-NTF-90C-0604	3/8 NPTM x 1/4 NPTF 90C
	NTM-NTF-90C-0606	3/8 NPTM x 3/8 NPTF 90C
	NTM-NTF-90C-0608	3/8 NPTM x 1/2 NPTF 90C
	NTM-NTF-90C-0808	1/2 NPTM x 1/2 NPTF 90C
	NTM-NTF-90C-0812	1/2 NPTM x 3/4 NPTF 90C
	NTM-NTF-90C-1208	3/4 NPTM x 1/2 NPTF 90C
	NTM-NTF-90C-1212	3/4 NPTM x 3/4 NPTF 90C
	NTM-NTF-90C-1616	1-0 NPTM x 1-0 NPTF 90C
	NTM-NTF-90C-2020	1-1/4 NPTM x 1-1/4 NPTF 90C
	NTM-NTF-90C-2424	1-1/2 NPTM x 1-1/2 NPTF 90C
	NTM-NTF-90C-3232	2-0 NPTM x 2-0 NPTF 90C
90° ADAPTORS		
NPT M x NPT M		
	PART NUMBER	DESCRIPTION
	NTM-NTM-90C-0202	1/8 NPTM x 1/8 NPTM 90C
	NTM-NTM-90C-0204	1/8 NPTM x 1/4 NPTM 90C
	NTM-NTM-90C-0404	1/4 NPTM x 1/4 NPTM 90C
	NTM-NTM-90C-0406	1/4 NPTM x 3/8 NPTM 90C
	NTM-NTM-90C-0606	3/8 NPTM x 3/8 NPTM 90C
	NTM-NTM-90C-0608	3/8 NPTM x 1/2 NPTM 90C
	NTM-NTM-90C-0808	1/2 NPTM x 1/2 NPTM 90C
	NTM-NTM-90C-0812	1/2 NPTM x 3/4 NPTM 90C
	NTM-NTM-90C-1212	3/4 NPTM x 3/4 NPTM 90C
	NTM-NTM-90C-1216	3/4 NPTM x 1-0 NPTM 90C
	NTM-NTM-90C-1616	1-0 NPTM x 1-0 NPTM 90C
	NTM-NTM-90C-2020	1-1/4 NPTM x 1-1/4 NPTM 90C
	NTM-NTM-90C-2424	1-1/2 NPTM x 1-1/2 NPTM 90C
	NTM-NTM-90C-3232	2-0 NPTM x 2-0 NPTM 90C

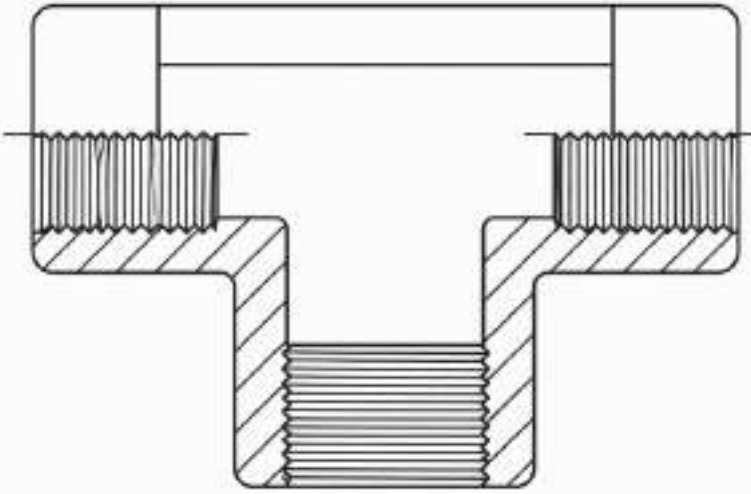
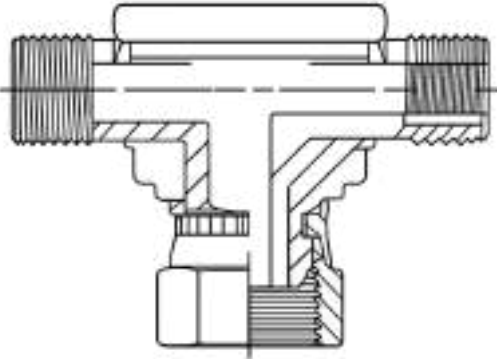
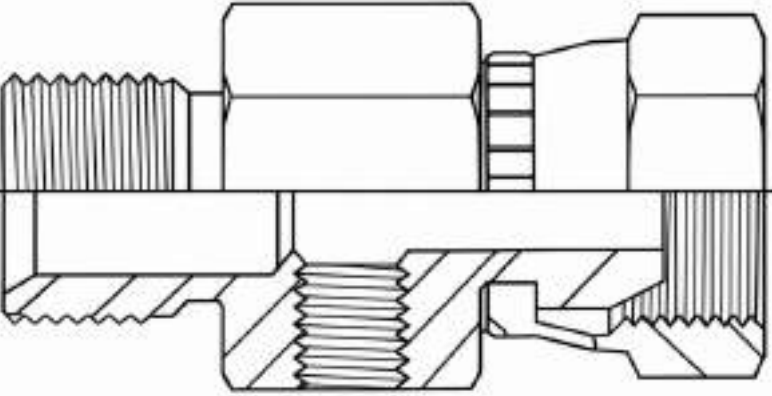


90° ADAPTORS		
NPT M x ORFS M		
	PART NUMBER	DESCRIPTION
	NTM-ORM-90C-0209	1/8 NPTM x 9/16 ORFSM 90C
	NTM-ORM-90C-0409	1/4 NPTM x 9/16 ORFSM 90C
	NTM-ORM-90C-0411	1/4 NPTM x 11/16 ORFSM 90C
	NTM-ORM-90C-0611	3/8 NPTM x 11/16 ORFSM 90C
	NTM-ORM-90C-0613	3/8 NPTM x 13/16 ORFSM 90C
	NTM-ORM-90C-0811	1/2 NPTM x 11/16 ORFSM 90C
	NTM-ORM-90C-0813	1/2 NPTM x 13/16 ORFSM 90C
	NTM-ORM-90C-0816	1/2 NPTM x 1-0 ORFSM 90C
	NTM-ORM-90C-1213	3/4 NPTM x 13/16 ORFSM 90C
	NTM-ORM-90C-1216	3/4 NPTM x 1-0 ORFSM 90C
	NTM-ORM-90C-1219	3/4 NPTM x 1-3/16 ORFSM 90C
	NTM-ORM-90C-1619	1-0 NPTM x 1-3/16 ORFSM 90C
	NTM-ORM-90C-1623	1-0 NPTM x 1-7/16 ORFSM 90C
	NTM-ORM-90C-2027	1-1/4 NPTM x 1-11/16 ORFSM 90C
	NTM-ORM-90C-2432	1-1/2 NPTM x 2-0 ORFSM 90C
90° ADAPTORS		
ORFS M x ORFS F SWIVEL		
	PART NUMBER	DESCRIPTION
	ORM-ORF-90C-0909	9/16 ORFS M x ORFS FS 90C
	ORM-ORF-90C-1111	11/16 ORFS M x ORFS FS 90C
	ORM-ORF-90C-1313	13/16 ORFS M x ORFS FS 90C
	ORM-ORF-90C-1616	1-0 ORFS M x ORFS FS 90C
	ORM-ORF-90C-1919	1-3/16 ORFS M x ORFS FS 90C
	ORM-ORF-90C-2323	1-7/16 ORFS M x ORFS FS 90C
	ORM-ORF-90C-2727	1-11/16 ORFS M x ORFS FS 90C
	ORM-ORF-90C-3232	2-0 ORFS M x ORFS FS 90C
90° ADAPTORS		
ORFS M x ORFS M		
	PART NUMBER	DESCRIPTION
	ORM-ORM-90C-0909	9/16 ORFS M x ORFS M 90C
	ORM-ORM-90C-1111	11/16 ORFS M x ORFS M 90C
	ORM-ORM-90C-1313	13/16 ORFS M x ORFS M 90C
	ORM-ORM-90C-1616	1-0 ORFS M x ORFS M 90C
	ORM-ORM-90C-1919	1-3/16 ORFS M x ORFS M 90C
	ORM-ORM-90C-2323	1-7/16 ORFS M x ORFS M 90C
	ORM-ORM-90C-2727	1-11/16 ORFS M x ORFS M 90C

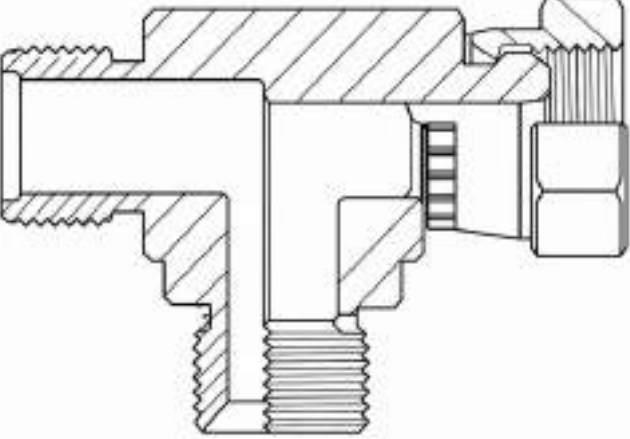
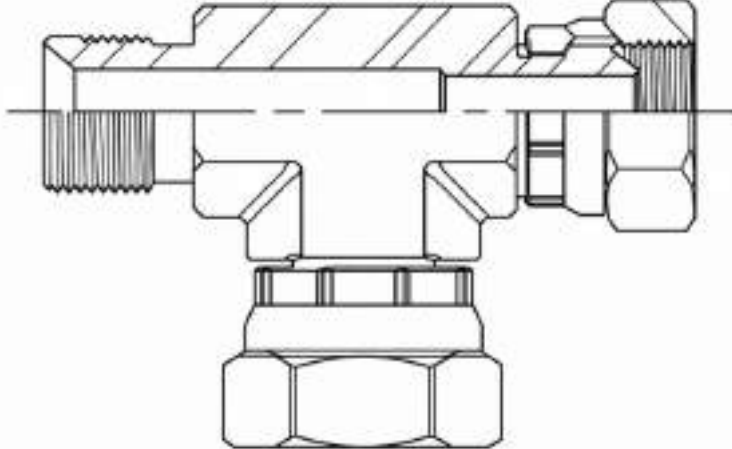
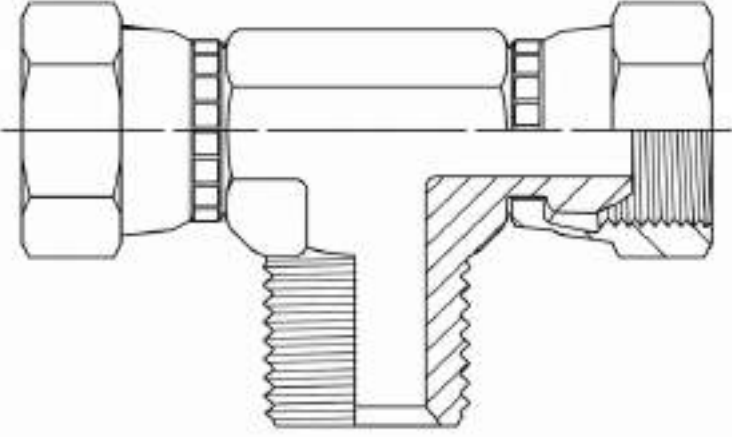
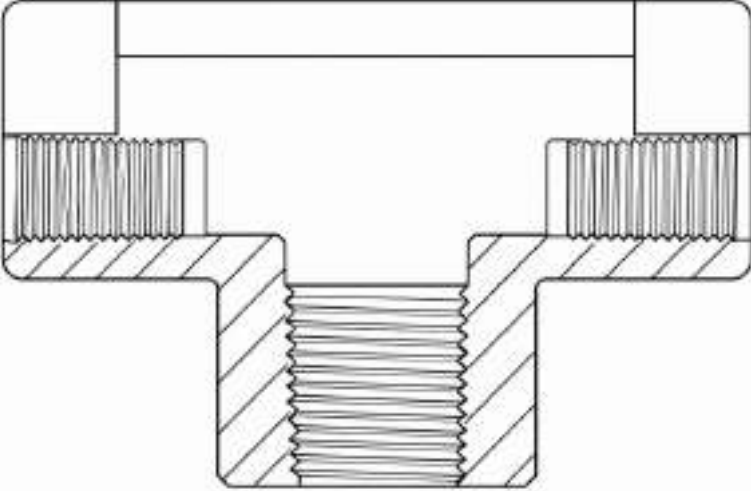
90° ADAPTORS		
ORFS M x UNO M		
	PART NUMBER	DESCRIPTION
	ORM-UNM-90C-0907	9/16 ORFSM x 7/16 UNO P 90C
	ORM-UNM-90C-0909	9/16 ORFSM x 9/16 UNO P 90C
	ORM-UNM-90C-0912	9/16 ORFSM x 3/4 UNO P 90C
	ORM-UNM-90C-1107	11/16 ORFSM x 7/16 UNO P 90C
	ORM-UNM-90C-1108	11/16 ORFSM x 1/2 UNO P 90C
	ORM-UNM-90C-1109	11/16 ORFSM x 9/16 UNO P 90C
	ORM-UNM-90C-1112	11/16 ORFSM x 3/4 UNO P 90C
	ORM-UNM-90C-1114	11/16 ORFSM x 7/8 UNO P 90C
	ORM-UNM-90C-1309	13/16 ORFSM x 9/16 UNO P 90C
	ORM-UNM-90C-1312	13/16 ORFSM x 3/4 UNO P 90C
	ORM-UNM-90C-1314	13/16 ORFSM x 7/8 UNO P 90C
	ORM-UNM-90C-1317	13/16 ORFSM x 1-1/16 UNO P 90C
	ORM-UNM-90C-1612	1-0 ORFSM x 3/4 UNO P 90C
	ORM-UNM-90C-1614	1-0 ORFSM x 7/8 UNO P 90C
	ORM-UNM-90C-1617	1-0 ORFSM x 1-1/16 UNO P 90C
	ORM-UNM-90C-1912	1-3/16 ORFSM x 3/4 UNO P 90C
	ORM-UNM-90C-1914	1-3/16 ORFSM x 7/8 UNO P 90C
	ORM-UNM-90C-1917	1-3/16 ORFSM x 1-1/16 UNOP 90C
	ORM-UNM-90C-1921	1-3/16 ORFSM x 1-5/16 UNOP 90C
	ORM-UNM-90C-2317	1-7/16 ORFSM x 1-1/16 UNOP 90C
	ORM-UNM-90C-2321	1-7/16 ORFSM x 1-5/16 UNOP 90C
	ORM-UNM-90C-2326	1-7/16 ORFSM x 1-5/8 UNO P 90C
	ORM-UNM-90C-2721	1-11/16 ORFSM x 1-5/16UNOP 90C
	ORM-UNM-90C-2726	1-11/16 ORFSM x 1-5/8 UNOP 90C
	ORM-UNM-90C-2730	1-11/16 ORFSM x 1-7/8 UNOP 90C
	ORM-UNM-90C-3226	2-0 ORFSM x 1-5/8 UNO P 90C
	ORM-UNM-90C-3230	2-0 ORFSM x 1-7/8 UNO P 90C
90° ADAPTORS		
SAE M x SAE F SWIVEL		
	PART NUMBER	DESCRIPTION
	SAM-SAF-90C-0707	7/16 SAE M - 7/16 SAE F - 90C
	SAM-SAF-90C-1010	5/8 SAEM x 5/8 SAEF 90C
	SAM-SAF-90C-1212	3/4 SAEM x 3/4 SAEF 90C
	SAM-SAF-90C-1414	7/8 SAEM x 7/8 SAEF 90C
	SAM-SAF-90C-1717	1-1/16 SAEM x 1-1/16 SAEF 90C

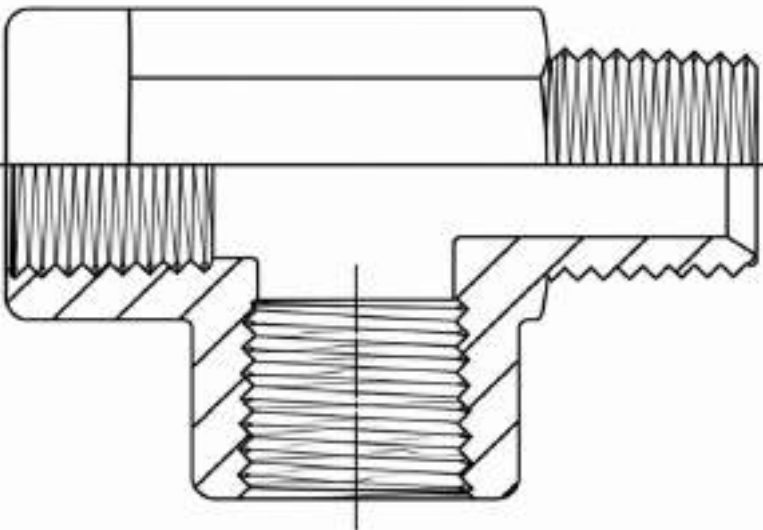
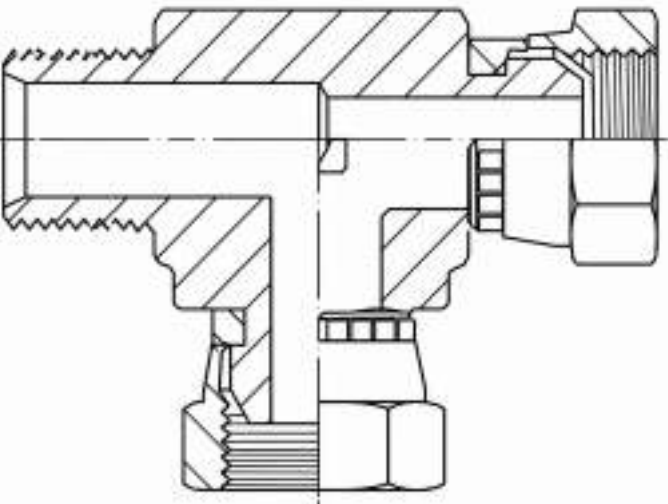
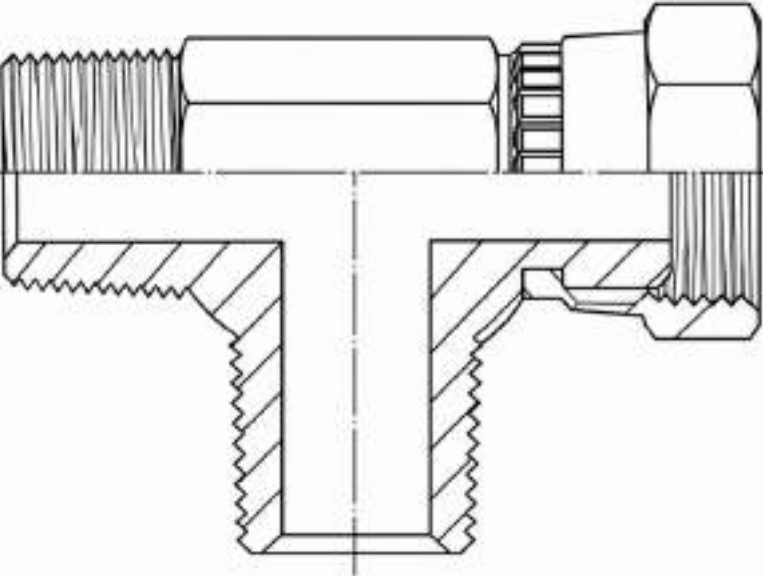


90° ADAPTORS		
JIC M x F61		
	PART NUMBER	DESCRIPTION
	JIM-F61-90C-1208	3/4 JICM x 1/2 F61 Flange 90 Compact
	JIM-F61-90C-1212	3/4 JICM x 3/4 F61 Flange 90 Compact
	JIM-F61-90C-1712	1-1/16 JICM x 3/4 F61 Flange 90 Compact
	JIM-F61-90C-1716	1-1/16 JICM x 1-0 F61 Flange 90 Compact
	JIM-F61-90C-2112	1-5/16 JICM x 3/4 F61 Flange 90 Compact
	JIM-F61-90C-2116	1-5/16 JICM x 1-0 F61 Flange 90 Compact
	JIM-F61-90C-2120	1-5/16JICM x 1-1/4F61 Flange 90 Compact
	JIM-F61-90C-2616	1-5/8 JICM x 1-0 F61 Flange 90 Compact
	JIM-F61-90C-2620	1-5/8 JICM x 1-1/4F61 Flange 90 Compact
	JIM-F61-90C-2624	1-5/8 JICM x 1-1/2F61 Flange 90 Compact
	JIM-F61-90C-3024	1-7/8 JICM x 1-1/2F61 Flange 90 Compact
	JIM-F61-90C-3032	1-7/8 JICM x 2-0 F61 Flange 90 Compact
	JIM-F61-90C-4032	2-1/2 JICM x 2-0 F61 Flange 90 Compact
90° ADAPTORS		
JIC M x F62		
	PART NUMBER	DESCRIPTION
	JIM-F62-90C-1208	3/4 JICM x 1/2 F62 Flange 90 Compact
	JIM-F62-90C-1712	1-1/16 JICM x 3/4 F62 Flange 90 Compact
	JIM-F62-90C-1716	1-1/16 JICM x 1-0 F62 Flange 90 Compact
	JIM-F62-90C-2112	1-5/16 JICM x 3/4 F62 Flange 90 Compact
	JIM-F62-90C-2116	1-5/16 JICM x 1-0 F62 Flange 90 Compact
	JIM-F62-90C-2120	1-5/16JICM x 1-1/4F62 Flange 90 Compact
	JIM-F62-90C-2616	1-5/8 JICM x 1-0 F62 Flange 90 Compact
	JIM-F62-90C-2620	1-5/8 JICM x 1-1/4F62 Flange 90 Compact
	JIM-F62-90C-2624	1-5/8 JICM x 1-1/2F62 Flange 90 Compact
	JIM-F62-90C-3020	1-7/8 JICM x 1-1/4F62 Flange 90 Compact
	JIM-F62-90C-3024	1-7/8 JICM x 1-1/2F62 Flange 90 Compact
	JIM-F62-90C-3032	1-7/8 JICM x 2-0 F62 Flange 90 Compact
	JIM-F62-90C-4032	2-1/2 JICM x 2-0 F62 Flange 90 Compact

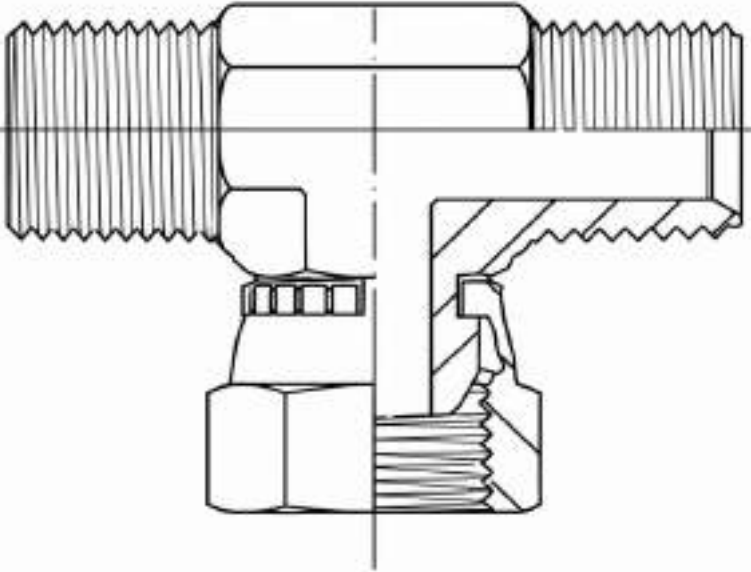
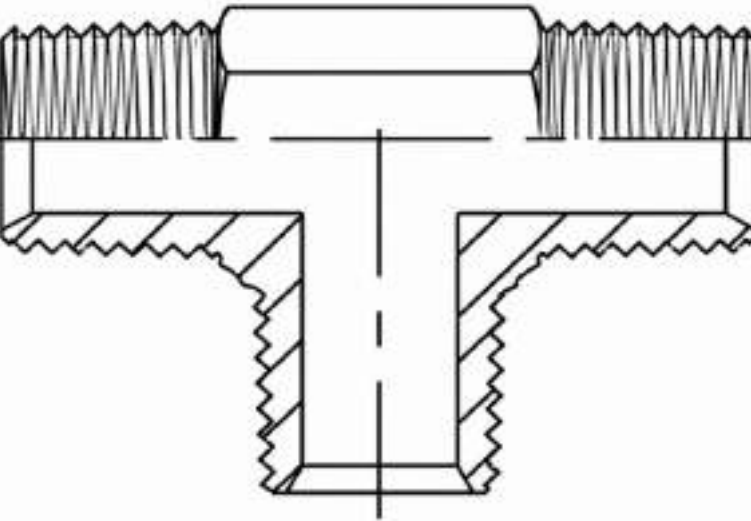
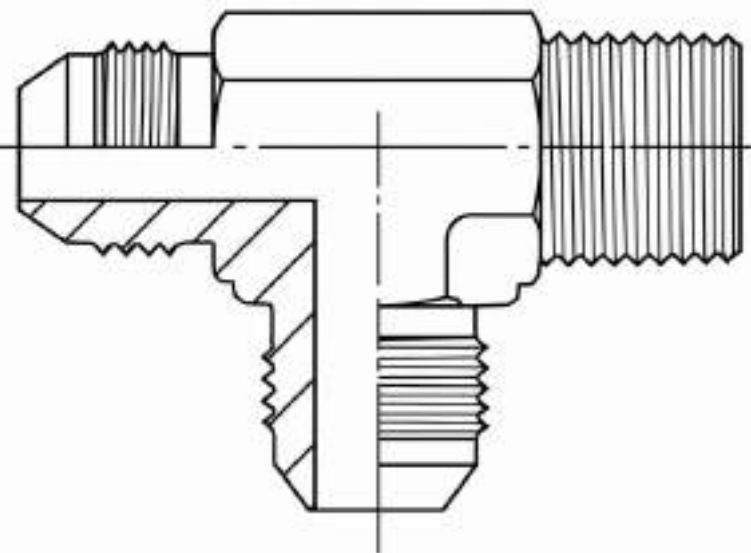
TEE ADAPTORS		
BSPP TEE (F/F/F)		
	PART NUMBER	DESCRIPTION
	BPF-BPF-BPF-020202	1/8 BSPPF Tee
	BPF-BPF-BPF-040404	1/4 BSPPF Tee
	BPF-BPF-BPF-060606	3/8 BSPPF Tee
	BPF-BPF-BPF-080808	1/2 BSPPF Tee
	BPF-BPF-BPF-121212	3/4 BSPPF Tee
	BPF-BPF-BPF-161616	1-0 BSPPF Tee
	BPF-BPF-BPF-202020	1-1/4 BSPPF Tee
	BPF-BPF-BPF-242424	1-1/2 BSPPF Tee
	BPF-BPF-BPF-323232	2-0 BSPPF Tee
TEE ADAPTORS		
BSPP DROP TEE (M/M/F)		
	PART NUMBER	DESCRIPTION
	BPM-BPM-BSF-040404	1/4 BSPP Swivel Drop Tee
	BPM-BPM-BSF-080808	1/2 BSPP Swivel Drop Tee
	BPM-BPM-BSF-121212	3/4 BSPP Swivel Drop Tee
TEE ADAPTORS		
BSPP TEST POINT TEE (M/F/F)		
	PART NUMBER	DESCRIPTION
	BPM-BSF-BPF-040402	1/4 BSPP SwivelRunT 1/8 BPF Drop
	BPM-BSF-BPF-060602	3/8 BSPP SwivelRunT 1/8 BPF Drop
	BPM-BSF-BPF-080802	1/2 BSPP SwivelRunT 1/8 BPF Drop
	BPM-BSF-BPF-080804	1/2 BSPP SwivelRunT 1/4 BPF Drop
	BPM-BSF-BPF-121202	3/4 BSPP SwivelRunT 1/8 BPF Drop
	BPM-BSF-BPF-121204	3/4 BSPP SwivelRunT 1/4 BPF Drop
	BPM-BSF-BPF-161602	1-0 BSPP SwivelRunT 1/8 BPF Drop
	BPM-BSF-BPF-161604	1-0 BSPP SwivelRunT 1/4 BPF Drop
	BPM-BSF-BPF-202002	1-1/4 BSPP SwivelRunT 1/8 BPF Drop
	BPM-BSF-BPF-242402	1-1/2 BSPP SwivelRunT 1/8 BPF Drop

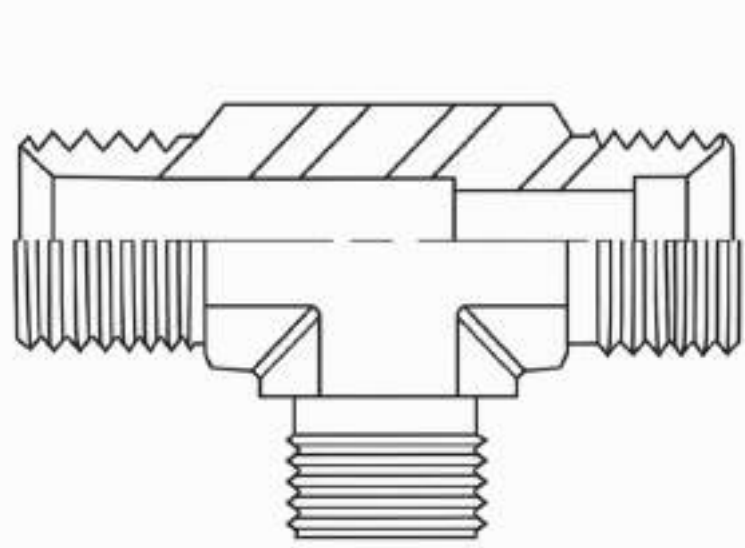
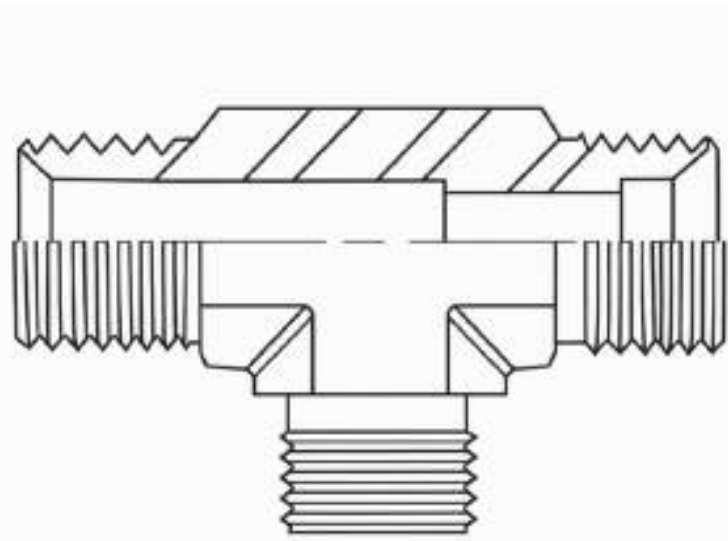


TEE ADAPTORS		
BSPP SWIVEL RUN TEE (M/F/M)		
	PART NUMBER	DESCRIPTION
	BPM-BSF-BPM-040404	1/4 BSPP Swivel Run Tee
	BPM-BSF-BPM-060606	3/8 BSPP Swivel Run Tee
	BPM-BSF-BPM-080808	1/2 BSPP Swivel Run Tee
	BPM-BSF-BPM-121212	3/4 BSPP Swivel Run Tee
	BPM-BSF-BPM-161616	1-0 BSPP Swivel Run Tee
TEE ADAPTORS		
BSPP SWIVEL RUN TEE (M/F/F)		
	PART NUMBER	DESCRIPTION
	BPM-BSF-BSF-020202	1/8 BSPPM x BSPPSFRun & DropT
	BPM-BSF-BSF-040404	1/4 BSPPFS x BSPTMRun & DropT
	BPM-BSF-BSF-060606	3/8 BSPP Swivel Run Tee
	BPM-BSF-BSF-080808	1/2 BSPP Swivel Run Tee
	BPM-BSF-BSF-121212	3/4 BSPPFS x BSPTMRun & DropT
	BPM-BSF-BSF-161616	1-0 BSPPFS x BSPTMRun & DropT
TEE ADAPTORS		
BSPP/T DROP TEE (F/F/M)		
	PART NUMBER	DESCRIPTION
	BSF-BSF-BTM-040404	1/4 BSPP Swivl x BSPTM Drop T
	BSF-BSF-BTM-060606	3/8 BSPP Swivl x BSPTM Drop T
	BSF-BSF-BTM-080808	1/2 BSPP Swivl x BSPTM Drop T
	BSF-BSF-BTM-121212	3/4 BSPP Swivl x BSPTM Drop T
	BSF-BSF-BTM-161616	1-0 BSPP Swivl x BSPTM Drop T
TEE ADAPTORS		
BSPT TEE (F/F/F)		
	PART NUMBER	DESCRIPTION
	BTF-BTF-BTF-020202	1/8 BSPTF Tee
	BTF-BTF-BTF-040404	1/4 BSPTF Tee
	BTF-BTF-BTF-060606	3/8 BSPTF Tee
	BTF-BTF-BTF-080808	1/2 BSPTF Tee
	BTF-BTF-BTF-121212	3/4 BSPTF Tee
	BTF-BTF-BTF-161616	1-0 BSPTF Tee
	BTF-BTF-BTF-202020	1-1/4 BSPTF Tee
	BTF-BTF-BTF-242424	1-1/2 BSPTF Tee
	BTF-BTF-BTF-323232	2-0 BSPTF Tee

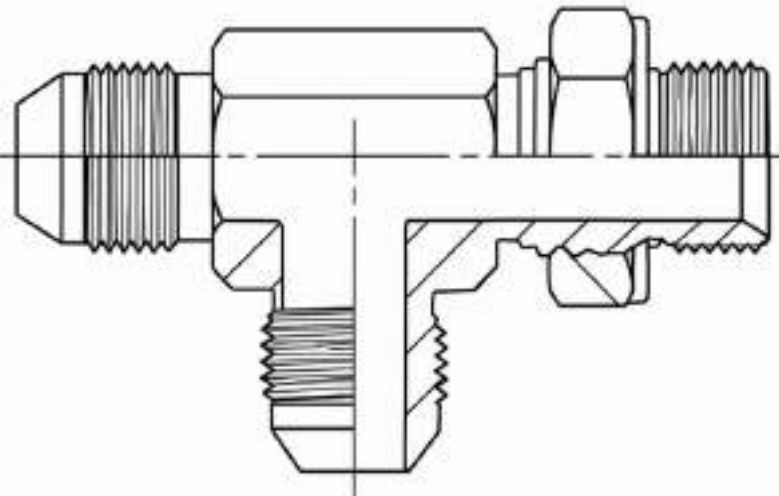
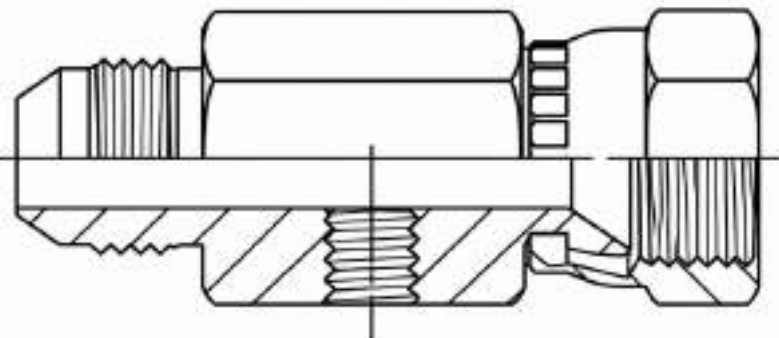
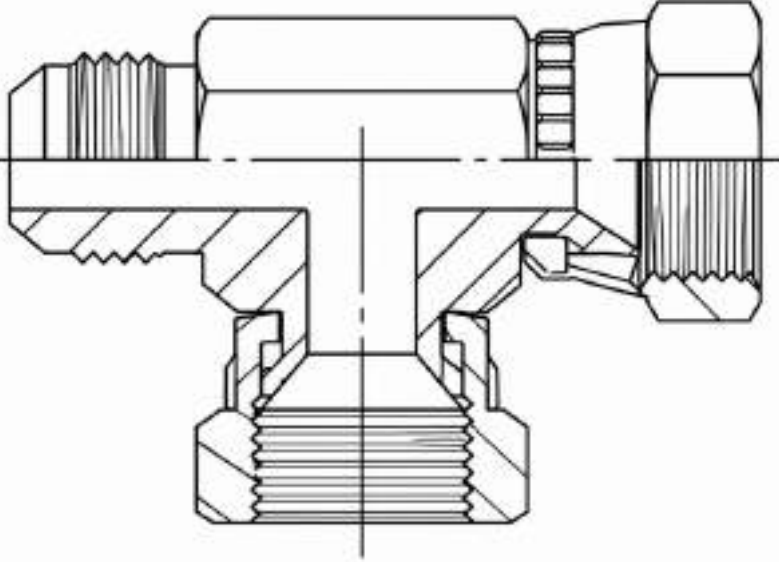
TEE ADAPTORS		
BSPT TEE (F/M/F)		
	PART NUMBER	DESCRIPTION
	BTF-BTM-BTF-020202	1/8 BSPT F/M/F Fixed Tee
	BTF-BTM-BTF-040404	1/4 BSPT F/M/F Fixed Tee
	BTF-BTM-BTF-060606	3/8 BSPT F/M/F Fixed Tee
	BTF-BTM-BTF-080808	1/2 BSPT F/M/F Fixed Tee
	BTF-BTM-BTF-121204	3/4 BSPT F/M x 1/4 BTF DropTee
	BTF-BTM-BTF-121212	3/4 BSPT F/M/F Fixed Tee
	BTF-BTM-BTF-161616	1-0 BSPT F/M/F Fixed Tee
	BTF-BTM-BTF-202020	1-1/4 BSPT F/M/F Fixed Tee
TEE ADAPTORS		
BSPP/T TEE (M/F/F)		
	PART NUMBER	DESCRIPTION
	BTM-BSF-BSF-060604	3/8 BSPFS x BSPTMRun x1/4DropT
	BTM-BSF-BSF-060606	3/8 BSPFS x BSPTM Run Tee
	BTM-BSF-BSF-080808	1/2 BSPFS x BSPTM Run Tee
TEE ADAPTORS		
BSPP/T RUN TEE (M/F/M)		
	PART NUMBER	DESCRIPTION
	BTM-BSF-BTM-020202	1/8 BSPTM x BSPFS Run Tee
	BTM-BSF-BTM-040404	1/4 BSPTM x BSPFS Run Tee
	BTM-BSF-BTM-060606	3/8 BSPTM x BSPFS Run Tee
	BTM-BSF-BTM-060608	3/8 BSPTM x BSPFS Run Tee
	BTM-BSF-BTM-080808	1/2 BSPTM x BSPFS Run Tee
	BTM-BSF-BTM-121212	3/4 BSPTM x BSPFS Run Tee
	BTM-BSF-BTM-161616	1-0 BSPTM x BSPFS Run Tee
	BTM-BSF-BTM-202020	1-1/4 BSPTM x BSPFS Run Tee
	BTM-BSF-BTM-242424	1-1/2 BSPTM x BSPFS Run Tee

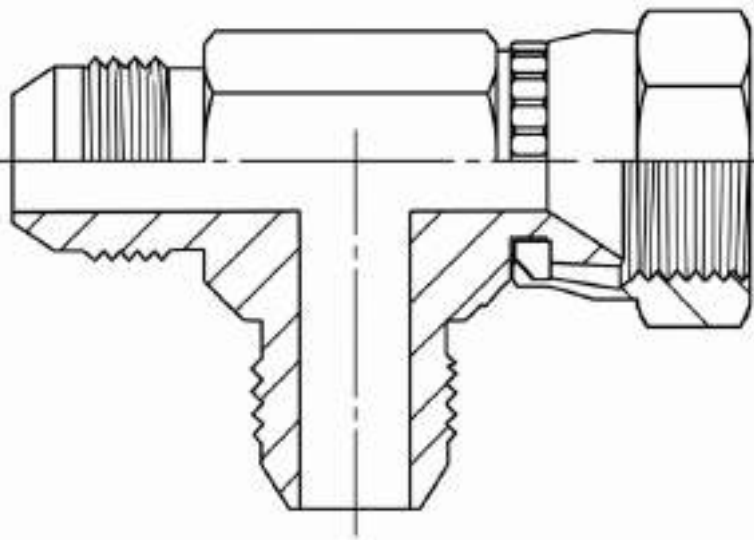
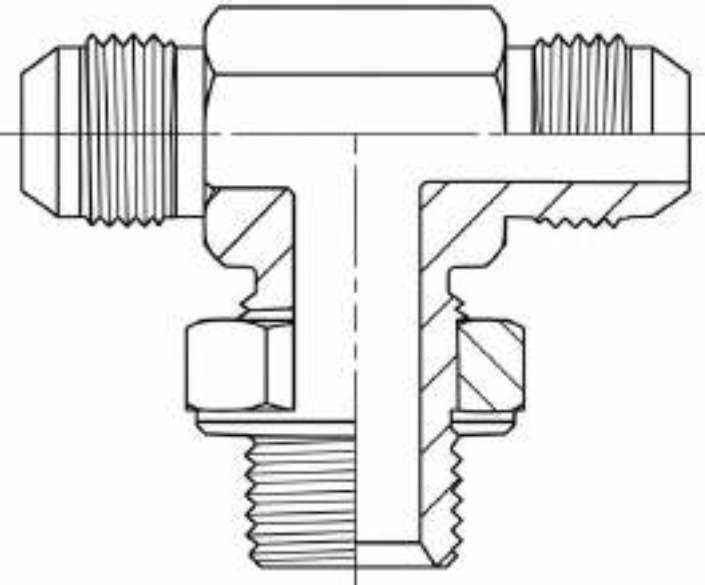


TEE ADAPTORS		
BSPP/T DROP TEE (M/M//F)		
	PART NUMBER	DESCRIPTION
	BTM-BTM-BSF-040404	1/4 BSPTM x BSPFS Drop Tee
	BTM-BTM-BSF-060604	3/8 BSPTM x 1/4 BSPFS Drop Tee
	BTM-BTM-BSF-060606	3/8 BSPTM x BSPFS Drop Tee
	BTM-BTM-BSF-080808	1/2 BSPTM x BSPFS Drop Tee
	BTM-BTM-BSF-121212	3/4 BSPTM x BSPFS Drop Tee
	BTM-BTM-BSF-161616	1-0 BSPTM x BSPFS Drop Tee
	BTM-BTM-BSF-202020	1-1/4 BSPTM x BSPFS Drop Tee
	BTM-BTM-BSF-242424	1-1/2 BSPTM x BSPFS Drop Tee
TEE ADAPTORS		
BSPT TEE (M/M/M)		
	PART NUMBER	DESCRIPTION
	BTM-BTM-BTM-020202	1/8 BSPTM Tee
	BTM-BTM-BTM-040404	1/4 BSPTM Tee
	BTM-BTM-BTM-060606	3/8 BSPTM Tee
	BTM-BTM-BTM-080808	1/2 BSPTM Tee
	BTM-BTM-BTM-120812	3/4 BSPTM x 1/2 BSPTM Run Tee
	BTM-BTM-BTM-121212	3/4 BSPTM Tee
	BTM-BTM-BTM-161616	1-0 BSPTM Tee
	BTM-BTM-BTM-202020	1-1/4 BSPTM Tee
	BTM-BTM-BTM-242424	1-1/2 BSPTM Tee
	BTM-BTM-BTM-323232	2 BSPTM Tee
TEE ADAPTORS		
JIC x BSPT RUN TEE (M/M/M)		
	PART NUMBER	DESCRIPTION
	JIM-BTM-JIM-070207	7/16 JICM x 1/8 BSPTM Run T
	JIM-BTM-JIM-070407	7/16 JICM x 1/4 BSPTM Run T
	JIM-BTM-JIM-090409	9/16 JICM x 1/4 BSPTM Run T
	JIM-BTM-JIM-090609	9/16 JICM x 3/8 BSPTM Run T
	JIM-BTM-JIM-120612	3/4 JICM x 3/8 BSPTM Run T
	JIM-BTM-JIM-120812	3/4 JICM x 1/2 BSPTM Run T
	JIM-BTM-JIM-140814	7/8 JICM x 1/2 BSPTM Run T
	JIM-BTM-JIM-171217	1-1/16 JICM x 3/4 BSPTM Run T
	JIM-BTM-JIM-211621	1-5/16 JICM x 1-0 BSPTM Run T

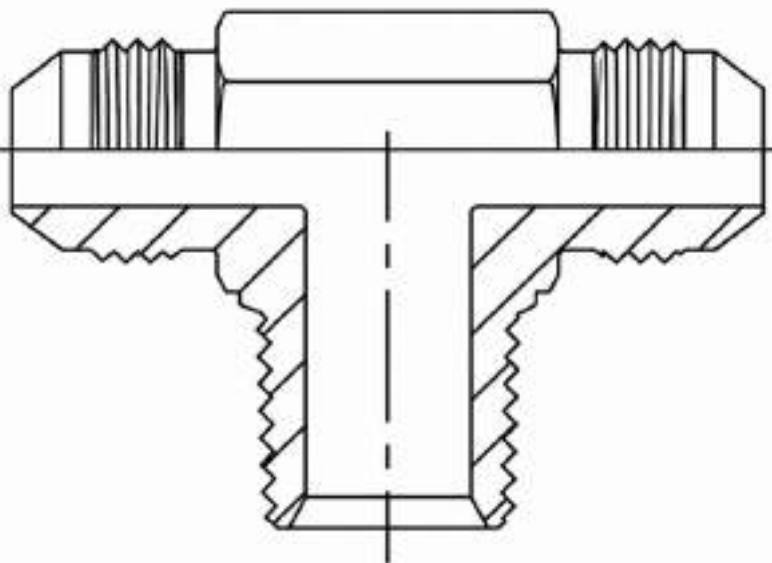
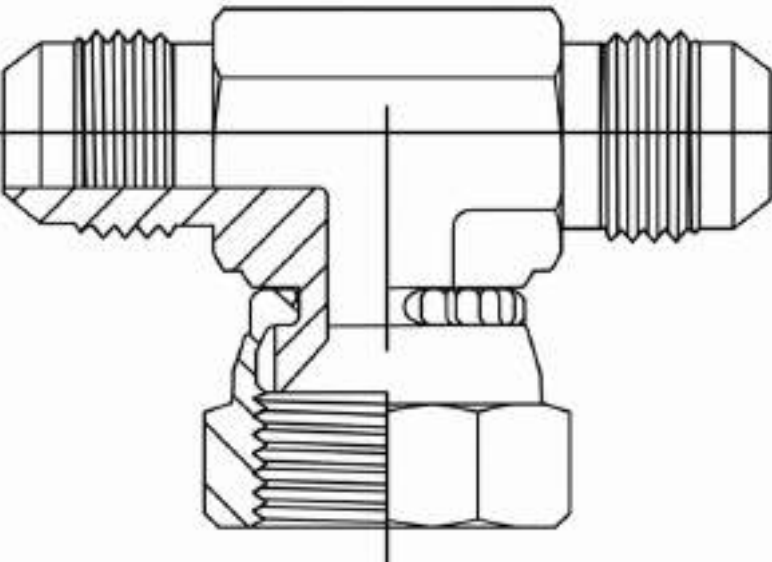
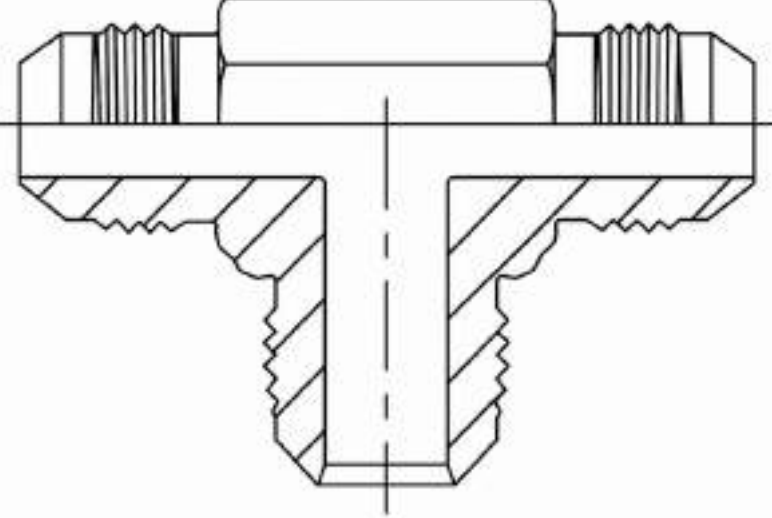
TEE ADAPTORS		
BSPT x METRIC HEAVY RUN TEE (M/M/M)		
	PART NUMBER	DESCRIPTION
	BTM-MHM-MHM-041414	14x1.5 MHM x 1/4 BSPTM Run Tee
	BTM-MHM-MHM-041616	16x1.5 MHM x 1/4 BSPTM Run Tee
	BTM-MHM-MHM-061818	18x1.5 MHM x 3/8 BSPTM Run Tee
	BTM-MHM-MHM-062020	20x1.5 MHM x 3/8 BSPTM Run Tee
	BTM-MHM-MHM-082222	22x1.5 MHM x 1/2 BSPTM Run Tee
	BTM-MHM-MHM-082424	24x1.5 MHM x 1/2 BSPTM Run Tee
	BTM-MHM-MHM-123030	30x2.0 MHM x 3/4 BSPTM Run Tee
	BTM-MHM-MHM-163636	36x2.0 MHM x 1-0 BSPTM Run Tee
	BTM-MHM-MHM-204242	42x2.0 MHM x 1-1/4 BSPTM Run T
	BTM-MHM-MHM-245252	52x2.0 MHM x 1-1/2 BSPTM Run T
TEE ADAPTORS		
BSPT x METRIC HEAVY RUN TEE (M/M/M)		
	PART NUMBER	DESCRIPTION
	BTM-MLLM-MLLM-020808	8x1.0 MLLM x 1/8 BSPTM Run T
	BTM-MLLM-MLLM-021010	10x1.0 MLLM x 1/8 BSPTM Run T
	BTM-MLLM-MLLM-021212	12x1.0 MLLM x 1/8 BSPTM Run T
	BTM-MLM-MLM-021212	12x1.5 MLM x 1/8 BSPTM Run T
	BTM-MLM-MLM-041414	14x1.5 MLM x 1/4 BSPTM Run T
	BTM-MLM-MLM-041616	16x1.5 MLM x 1/4 BSPTM Run T
	BTM-MLM-MLM-061818	18x1.5 MLM x 3/8 BSPTM Run T
	BTM-MLM-MLM-082222	22x1.5 MLM x 1/2 BSPTM Run T
	BTM-MLM-MLM-082626	26x1.5 MLM x 1/2 BSPTM Run T
	BTM-MLM-MLM-123030	30x2.0 MLM x 3/4 BSPTM Run T
	BTM-MLM-MLM-163636	36x2.0 MLM x 1-0 BSPTM Run T
	BTM-MLM-MLM-204545	45x2.0 MLM x 1-1/4 BSPTM Run T
	BTM-MLM-MLM-245252	52x2.0 MLM x 1-1/2 BSPTM Run T

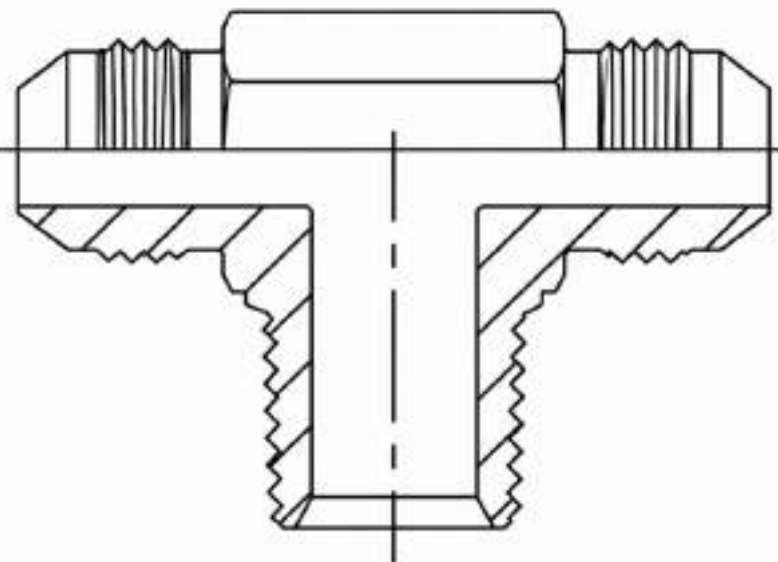
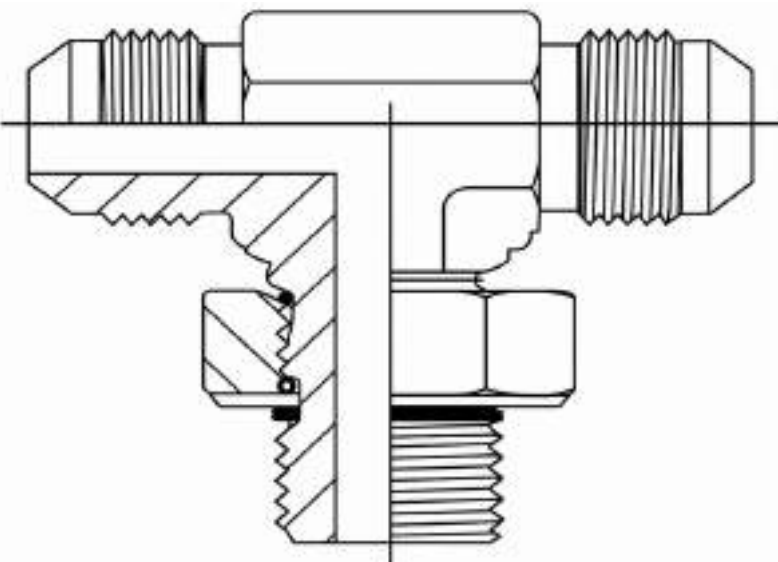
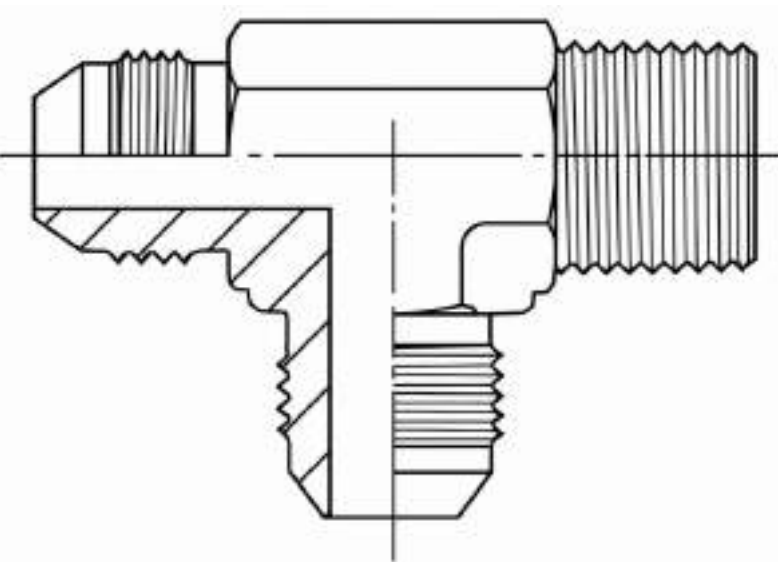


TEE ADAPTORS		
JIC x BSPP RUN TEE (M/M/M)		
	PART NUMBER	DESCRIPTION
	JIM-BPM-JIM-070207	7/16 JICM x 1/8 BSPPM Run T
	JIM-BPM-JIM-070407	7/16 JICM x 1/4 BSPPM Run T
	JIM-BPM-JIM-090409	9/16 JICM x 1/4 BSPPM Run T
	JIM-BPM-JIM-090609	9/16 JICM x 3/8 BSPPM Run T
	JIM-BPM-JIM-090809	9/16 JICM x 1/2 BSPPM Run T
	JIM-BPM-JIM-120612	3/4 JICM x 3/8 BSPPM Run T
	JIM-BPM-JIM-120812	3/4 JICM x 1/2 BSPPM Run T
	JIM-BPM-JIM-121212	3/4 JICM x 3/4 BSPPM Run T
	JIM-BPM-JIM-140814	7/8 JICM x 1/2 BSPPM Run T
	JIM-BPM-JIM-141214	7/8 JICM x 3/4 BSPPM Run T
	JIM-BPM-JIM-170817	1-1/16 JICM x 1/2 BSPPM Run T
	JIM-BPM-JIM-171217	1-1/16 JICM x 3/4 BSPPM Run T
	JIM-BPM-JIM-171617	1-1/16 JICM x 1-0 BSPPM Run T
	JIM-BPM-JIM-211621	1-5/16 JICM x 1-0 BSPPM Run T
	JIM-BPM-JIM-262026	1-5/8 JICM x 1-1/4 BSPPM Run T
TEE ADAPTORS		
JIC TEST POINT TEE (M/F/F)		
	PART NUMBER	DESCRIPTION
	JIM-JIF-BPF-070702	7/16 JIC SwivlRunT 1/8 BPFDrop
	JIM-JIF-BPF-090902	9/16 JIC SwivlRunT 1/8 BPFDrop
	JIM-JIF-BPF-121202	3/4 JIC SwivlRunT 1/8 BPFDrop
	JIM-JIF-BPF-141402	7/8 JIC SwivlRunT 1/8 BPFDrop
	JIM-JIF-BPF-171702	1-1/16 JIC SvIRunT 1/8 BPFDrop
	JIM-JIF-BPF-212102	1-5/16 JIC SvIRunT 1/8 BPFDrop
	JIM-JIF-BPF-262602	1-5/8 JIC SvIRunT 1/8 BPFDrop
TEE ADAPTORS		
JIC RUN TEE (M/F/F)		
	PART NUMBER	DESCRIPTION
	JIM-JIF-JIF-070707	7/16 JICM Run x JICFS Tee
	JIM-JIF-JIF-090909	9/16 JICM Run x JICFS Tee
	JIM-JIF-JIF-121212	3/4 JICM Run x JICFS Tee
	JIM-JIF-JIF-141414	7/8 JICM Run x JICFS Tee
	JIM-JIF-JIF-171717	1-1/16 JICM Run x JICFS Tee
	JIM-JIF-JIF-212121	1-5/16 JICM Run x JICFS Tee

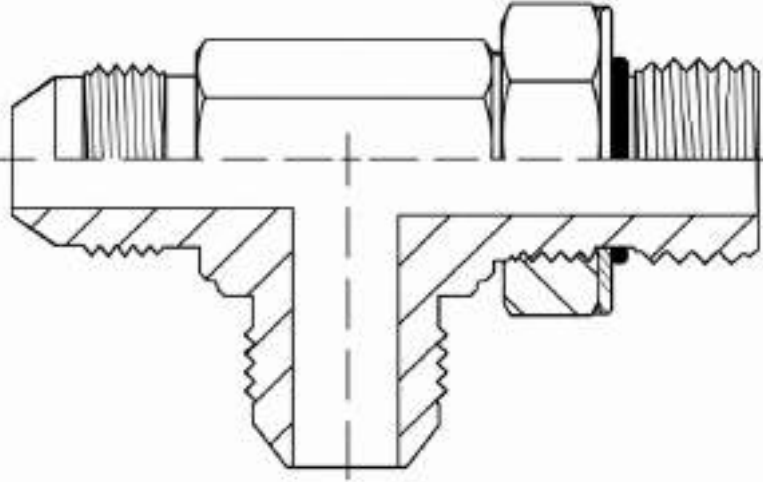
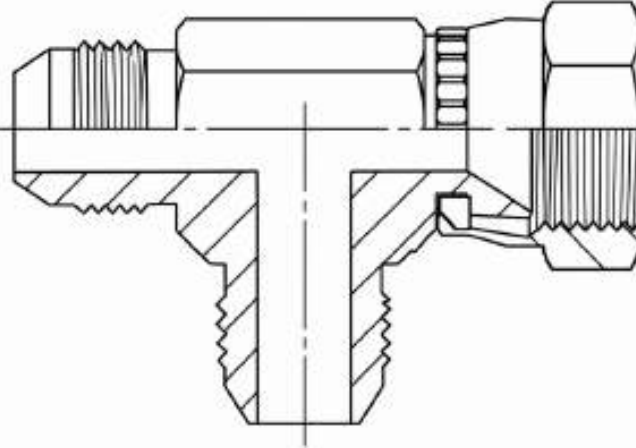
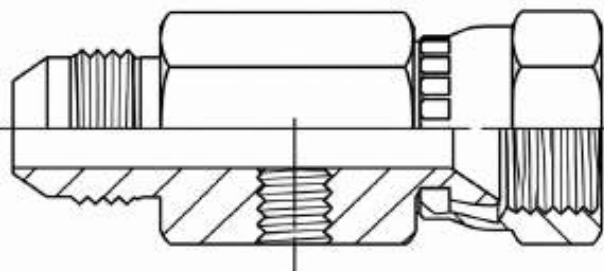
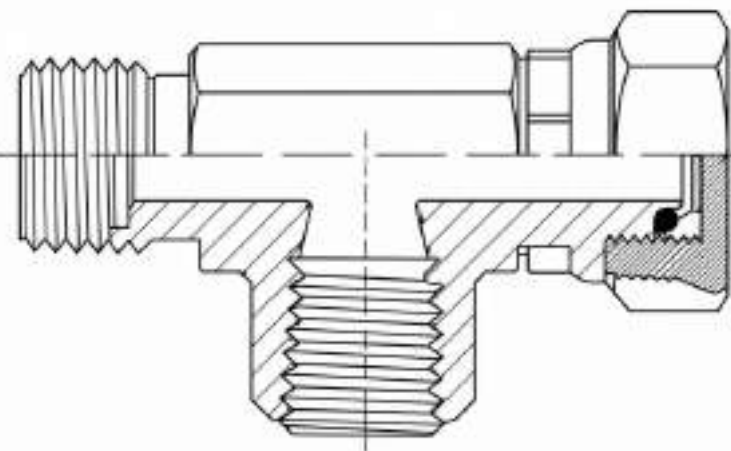
TEE ADAPTORS		
JIC RUN TEE (M/F/M)		
	PART NUMBER	DESCRIPTION
	JIM-JIF-JIM-070707	7/16 JICM x JICFS Run Tee
	JIM-JIF-JIM-080708	1/2 JICM x 7/16 JICFS Run Tee
	JIM-JIF-JIM-080808	1/2 JICM x JICFS Run Tee
	JIM-JIF-JIM-090909	9/16 JICM x JICFS Run Tee
	JIM-JIF-JIM-121212	3/4 JICM x JICFS Run Tee
	JIM-JIF-JIM-121217	3/4 JICM xJICFS x1-1/16 JICM T
	JIM-JIF-JIM-141414	7/8 JICM x JICFS Run Tee
	JIM-JIF-JIM-171712	1-1/16 JICM x JICFS3/4 JICMDRP
	JIM-JIF-JIM-171717	1-1/16 JICM x JICFS Run Tee
	JIM-JIF-JIM-212121	1-5/16 JICM x JICFS Run Tee
	JIM-JIF-JIM-262626	1-5/8 JICM x JICFS Run Tee
	JIM-JIF-JIM-303030	1-7/8 JICM x JICFS Run Tee
	JIM-JIF-JIM-404040	2-1/2 JICM x JICFS Run Tee
TEE ADAPTORS		
JIC x BSPP DROP TEE (M/M/M)		
	PART NUMBER	DESCRIPTION
	JIM-JIM-BPM-070702	7/16 JICM x 1/8 BSPPM Drop T
	JIM-JIM-BPM-070704	7/16 JICM x 1/4 BSPPM Drop T
	JIM-JIM-BPM-090904	9/16 JICM x 1/4 BSPPM Drop T
	JIM-JIM-BPM-090906	9/16 JICM x 3/8 BSPPM Drop T
	JIM-JIM-BPM-090908	9/16 JICM x 1/2 BSPPM Drop T
	JIM-JIM-BPM-121206	3/4 JICM x 3/8 BSPPM Drop T
	JIM-JIM-BPM-121208	3/4 JICM x 1/2 BSPPM Drop T
	JIM-JIM-BPM-121212	3/4 JICM x 3/4 BSPPM Drop T
	JIM-JIM-BPM-141408	7/8 JICM x 1/2 BSPPM Drop T
	JIM-JIM-BPM-141412	7/8 JICM x 3/4 BSPPM Drop T
	JIM-JIM-BPM-171708	1-1/16 JICM x 1/2 BSPPM Drop T
	JIM-JIM-BPM-171712	1-1/16 JICM x 3/4 BSPPM Drop T
	JIM-JIM-BPM-171716	1-1/16 JICM x 1-0 BSPPM Drop T
	JIM-JIM-BPM-212116	1-5/16 JICM x 1-0 BSPPM Drop T
	JIM-JIM-BPM-262620	1-5/8 JICM x 1-1/4 BSPPM DropT

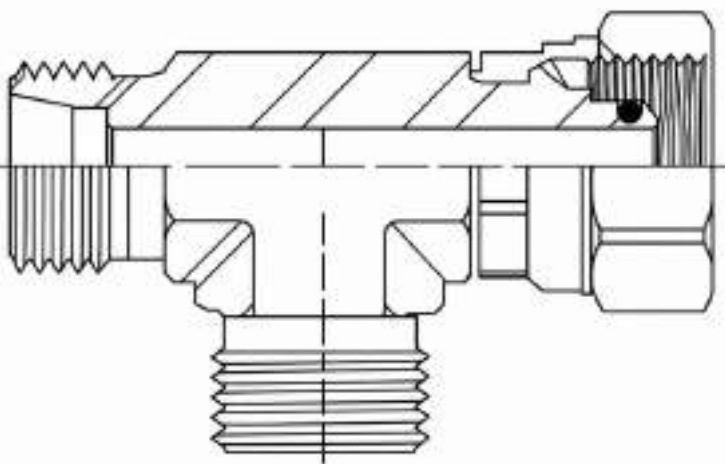
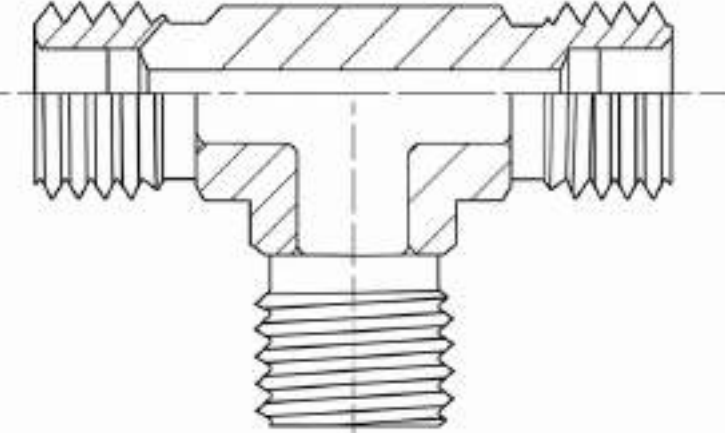
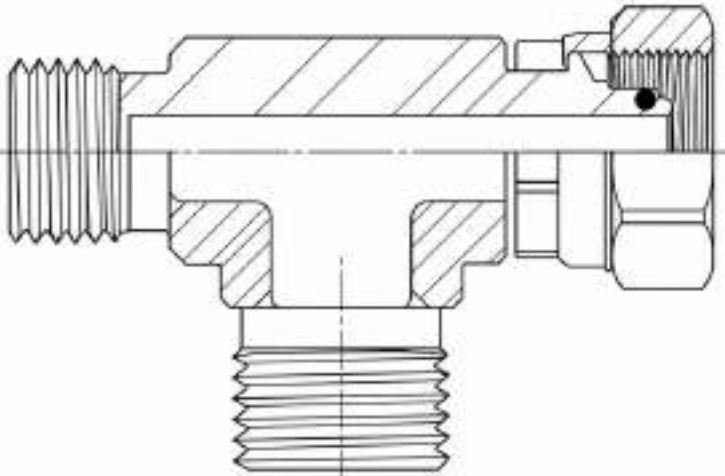


TEE ADAPTORS		
JIC x BSPT DROP TEE (M/M/M)		
	PART NUMBER	DESCRIPTION
	JIM-JIM-BTM-070702	7/16 JICM x 1/8 BSPTM Drop T
	JIM-JIM-BTM-070704	7/16 JICM x 1/4 BSPTM Drop T
	JIM-JIM-BTM-090904	9/16 JICM x 1/4 BSPTM Drop T
	JIM-JIM-BTM-090906	9/16 JICM x 3/8 BSPTM Drop T
	JIM-JIM-BTM-121204	3/4 JICM x 1/4 BSPTM Drop T
	JIM-JIM-BTM-121206	3/4 JICM x 3/8 BSPTM Drop T
	JIM-JIM-BTM-121208	3/4 JICM x 1/2 BSPTM Drop T
	JIM-JIM-BTM-141408	7/8 JICM x 1/2 BSPTM Drop T
	JIM-JIM-BTM-171712	1-1/16 JICM x 3/4 BSPTM Drop T
	JIM-JIM-BTM-212116	1-5/16 JICM x 1-0 BSPTM Drop T
TEE ADAPTORS		
JIC DROP TEE (M/M/F)		
	PART NUMBER	DESCRIPTION
	JIM-JIM-JIF-070707	7/16 JICM x JICFS Drop Tee
	JIM-JIM-JIF-080808	1/2 JICM x JICFS Drop Tee
	JIM-JIM-JIF-090909	9/16 JICM x JICFS Drop Tee
	JIM-JIM-JIF-121212	3/4 JICM x JICFS Drop Tee
	JIM-JIM-JIF-141414	7/8 JICM x JICFS Drop Tee
	JIM-JIM-JIF-171717	1-1/16 JICM x JICFS Drop Tee
	JIM-JIM-JIF-212121	1-5/16 JICM x JICFS Drop Tee
	JIM-JIM-JIF-262626	1-5/8 JICM x JICFS Drop Tee
	JIM-JIM-JIF-303030	1-7/8 JICM x JICFS Drop Tee
	JIM-JIM-JIF-404040	2-1/2 JICM x JICFS Drop Tee
TEE ADAPTORS		
JIC TEE (M/M/M)		
	PART NUMBER	DESCRIPTION
	JIM-JIM-JIM-070707	7/16 JIC Male Tee
	JIM-JIM-JIM-080808	1/2 JIC Male Tee
	JIM-JIM-JIM-090909	9/16 JIC Male Tee
	JIM-JIM-JIM-090912	9/16 JIC Male 3/4 Drop Tee
	JIM-JIM-JIM-121212	3/4 JIC Male Tee
	JIM-JIM-JIM-141414	7/8 JIC Male Tee
	JIM-JIM-JIM-171717	1-1/16 JIC Male Tee
	JIM-JIM-JIM-212117	1-5/16 JICM x 1-1/16 Drop T
	JIM-JIM-JIM-212121	1-5/16 JIC Male Tee
	JIM-JIM-JIM-262626	1-5/8 JIC Male Tee
	JIM-JIM-JIM-303030	1-7/8 JIC Male Tee
	JIM-JIM-JIM-404040	2-1/2 JIC Male Tee

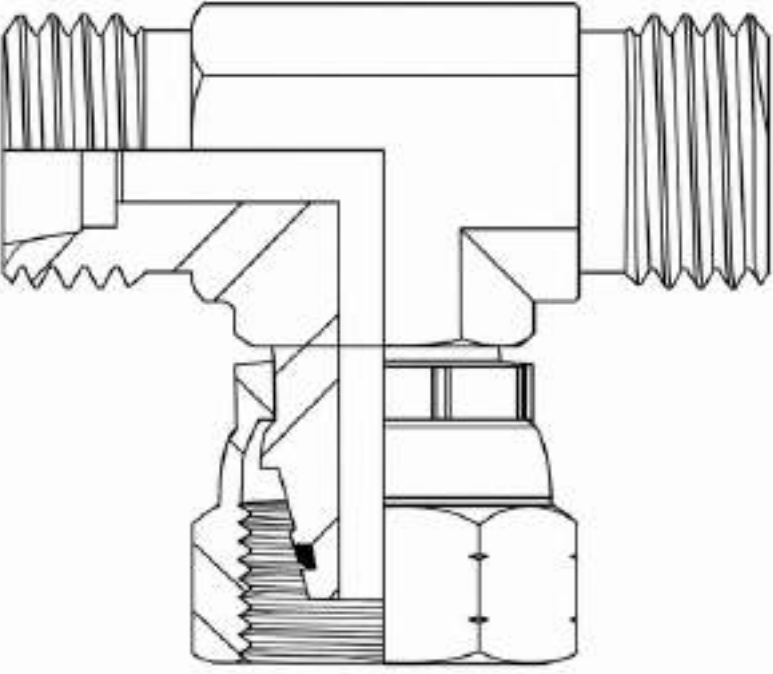
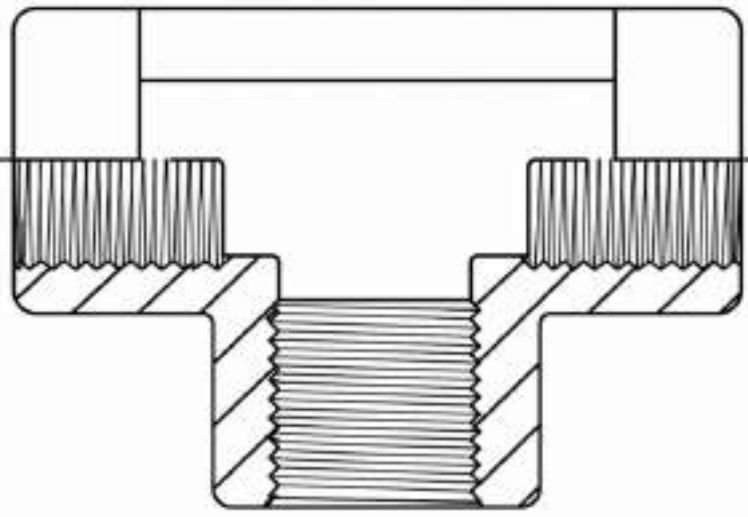
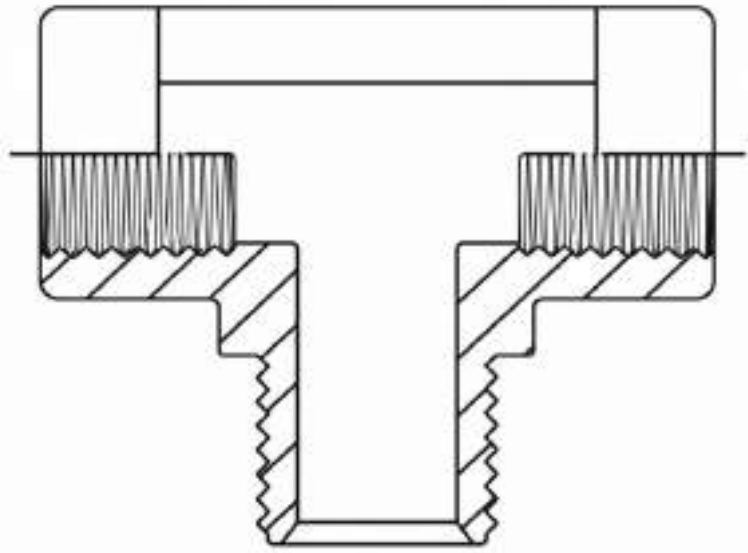
TEE ADAPTORS		
JIC x NPT DROP TEE (M/M/M)		
	PART NUMBER	DESCRIPTION
	JIM-JIM-NTM-070702	7/16 JICM x 1/8 NPTM Drop T
	JIM-JIM-NTM-070704	7/16 JICM x 1/4 NPTM Drop T
	JIM-JIM-NTM-090904	9/16 JICM x 1/4 NPTM Drop T
	JIM-JIM-NTM-090906	9/16 JICM x 3/8 NPTM Drop T
	JIM-JIM-NTM-090908	9/16 JICM x 1/2 NPTM Drop T
	JIM-JIM-NTM-121206	3/4 JICM x 3/8 NPTM Drop T
	JIM-JIM-NTM-121208	3/4 JICM x 1/2 NPTM Drop T
	JIM-JIM-NTM-141408	7/8 JICM x 1/2 NPTM Drop T
	JIM-JIM-NTM-171712	1-1/16 JICM x 3/4 NPTM Drop T
	JIM-JIM-NTM-212116	1-5/16 JICM x 1-0 NPTM Drop T
	JIM-JIM-NTM-262620	1-5/8 JICM x 1-1/4 NPTM Drop T
TEE ADAPTORS		
JIC x UNO DROP TEE (M/M/M)		
	PART NUMBER	DESCRIPTION
	JIM-JIM-UNM-070707	7/16 JICM x UNO M Drop T
	JIM-JIM-UNM-090909	9/16 JICM x UNO M Drop T
	JIM-JIM-UNM-090912	9/16 JICM x 3/4 UNO M Drop T
	JIM-JIM-UNM-121212	3/4 JICM x UNO M Drop T
	JIM-JIM-UNM-141414	7/8 JICM x UNO M Drop T
	JIM-JIM-UNM-171714	1-1/16 JICM x 7/8 UNO M Drop T
	JIM-JIM-UNM-171717	1-1/16 JICM x UNO M Drop T
	JIM-JIM-UNM-212121	1-5/16 JICM x UNO M Drop T
	JIM-JIM-UNM-262626	1-5/8 JICM x UNO M Drop T
	JIM-JIM-UNM-303030	1-7/8 JICM x UNO M Drop T
TEE ADAPTORS		
JIC x NPT RUN TEE (M/M/M)		
	PART NUMBER	DESCRIPTION
	JIM-NTM-JIM-070207	7/16 JICM x 1/8 NPTM Run T
	JIM-NTM-JIM-070407	7/16 JICM x 1/4 NPTM Run T
	JIM-NTM-JIM-090409	9/16 JICM x 1/4 NPTM Run T
	JIM-NTM-JIM-090609	9/16 JICM x 3/8 NPTM Run T
	JIM-NTM-JIM-120612	3/4 JICM x 3/8 NPTM Run T
	JIM-NTM-JIM-120812	3/4 JICM x 1/2 NPTM Run T
	JIM-NTM-JIM-140814	7/8 JICM x 1/2 NPTM Run T
	JIM-NTM-JIM-171217	1-1/16 JICM x 3/4 NPTM Run T
	JIM-NTM-JIM-211621	1-5/16 JICM x 1-0 NPTM Drop T
	JIM-NTM-JIM-262026	1-5/8 JICM x 1-1/4 NPTM Run T

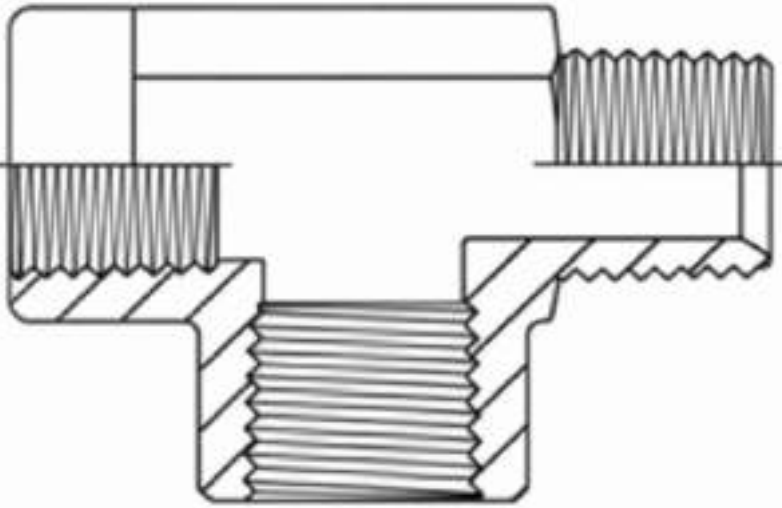
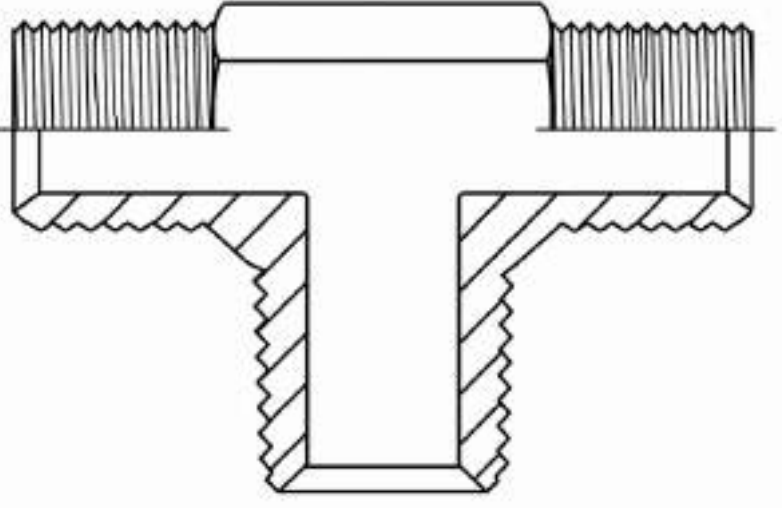
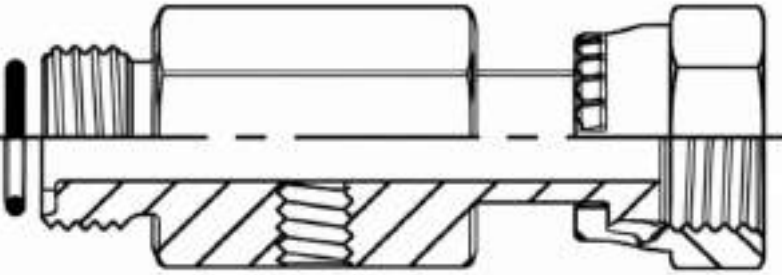


TEE ADAPTORS		
JIC x UNO RUN TEE (M/M/M)		
	PART NUMBER	DESCRIPTION
	JIM-UNM-JIM-070707	7/16 JICM x UNO M Run T
	JIM-UNM-JIM-070907	7/16 JICM x 9/16 UNO M Run T
	JIM-UNM-JIM-080808	1/2 JICM x UNO M Run T
	JIM-UNM-JIM-090909	9/16 JICM x UNO M Run T
	JIM-UNM-JIM-091209	9/16 JICM x 3/4 UNO M Run T
	JIM-UNM-JIM-120912	3/4 JICM x 9/16 UNO M Run T
	JIM-UNM-JIM-121212	3/4 JICM x 3/4 UNO M Run T
	JIM-UNM-JIM-121412	3/4 JICM x 7/8 UNO M Run T
	JIM-UNM-JIM-141414	7/8 JICM x 7/8 UNO M Run T
	JIM-UNM-JIM-171717	1-1/16 JICM x UNO M Run T
	JIM-UNM-JIM-212121	1-5/16 JIC x UNO M Run T
	JIM-UNM-JIM-262626	1-5/8 JIC x UNO M Run T
TEE ADAPTORS		
JIS RUN TEE (M/F/M)		
	PART NUMBER	DESCRIPTION
	BJM-BJF-BJM-040404	1/4 JIS M/F/M Tee
	BJM-BJF-BJM-060606	3/8 JIS M/F/M Tee
	BJM-BJF-BJM-080808	1/2 JIS M/F/M Tee
	BJM-BJF-BJM-121212	3/4 JIS M/F/M Tee
	BJM-BJF-BJM-161616	1-0 JIS M/F/M Tee
TEE ADAPTORS		
JIS x BSPP DROP TEE (M/F/F)		
	PART NUMBER	DESCRIPTION
	BJM-BJF-BPF-040402	1/4 JIS M/F 1/8 BSPPF Drop
	BJM-BJF-BPF-060602	3/8 JIS M/F 1/8 BSPPF Drop
	BJM-BJF-BPF-080802	1/2 JIS M/F 1/8 BSPPF Drop
TEE ADAPTORS		
METRIC HEAVY x BSPP DROP TEE (M/F/F)		
	PART NUMBER	DESCRIPTION
	MHM-MHF-BPF-161602	16x1.5 MHM x MHFx 1/8 BSPPF
	MHM-MHF-BPF-181802	18x1.5 MHM x MHFx 1/8 BSPPF
	MHM-MHF-BPF-202002	20x1.5 MHM x MHFx 1/8 BSPPF
	MHM-MHF-BPF-222202	22x1.5 MHM x MHFx 1/8 BSPPF
	MHM-MHF-BPF-242402	24x1.5 MHM x MHFx 1/8 BSPPF
	MHM-MHF-BPF-424202	42x2.0 MHM x MHFx 1/8 BSPPF

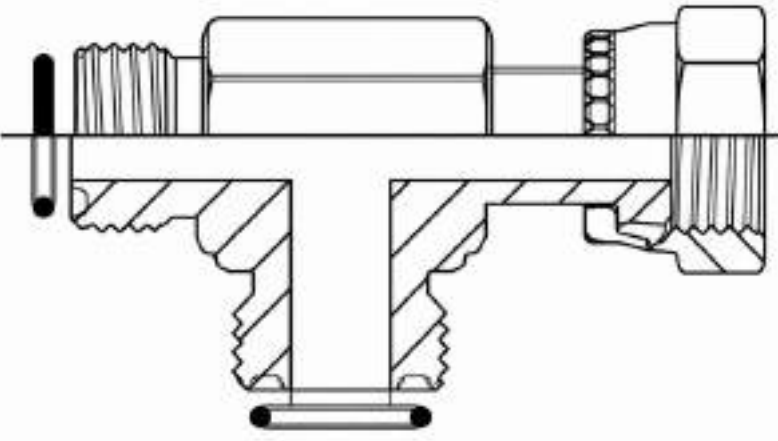
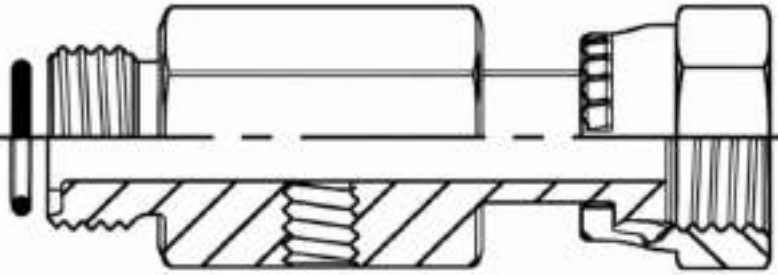
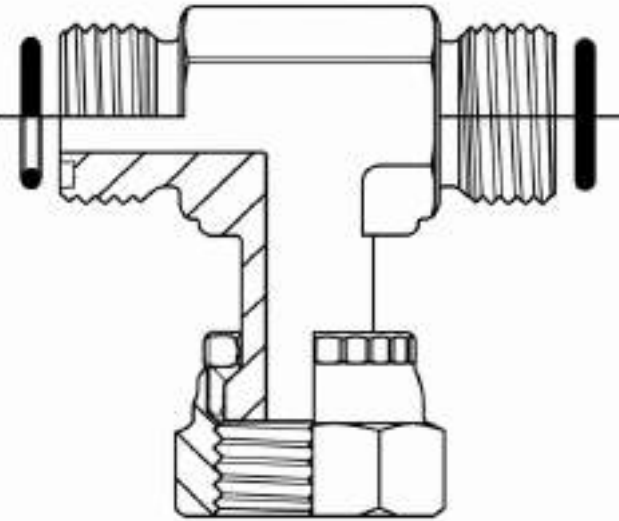
TEE ADAPTORS		
METRIC HEAVY RUN TEE (M/F/M)		
	PART NUMBER	DESCRIPTION
	MHM-MHF-MHM-141414	14x1.5 MHM x MHF Run Tee
	MHM-MHF-MHM-161616	16x1.5 MHM x MHF Run Tee
	MHM-MHF-MHM-181818	18x1.5 MHM x MHF Run Tee
	MHM-MHF-MHM-202020	20x1.5 MHM x MHF Run Tee
	MHM-MHF-MHM-222222	22x1.5 MHM x MHF Run Tee
	MHM-MHF-MHM-242424	24x1.5 MHM x MHF Run Tee
	MHM-MHF-MHM-303030	30x2.0 MHM x MHF Run Tee
	MHM-MHF-MHM-363636	36x2.0 MHM x MHF Run Tee
	MHM-MHF-MHM-424242	42x2.0 MHM x MHF Run Tee
	MHM-MHF-MHM-525252	52x2.0 MHM x MHF Run Tee
TEE ADAPTORS		
METRIC LIGHT TEE (M/M/M)		
	PART NUMBER	DESCRIPTION
	MLLM-MLLM-MLLM-080808	8x1.0 MLLM Tee
	MLLM-MLLM-MLLM-101010	10x1.0 MLLM Tee
	MLLM-MLLM-MLLM-121212	12x1.0 MLLM Tee
	MLM-MLM-MLM-121212	12x1.5mm MLM Tee
	MLM-MLM-MLM-141414	14x1.5mm MLM Tee
	MLM-MLM-MLM-161616	16x1.5mm MLM Tee
	MLM-MLM-MLM-181818	18x1.5mm MLM Tee
	MLM-MLM-MLM-222222	22x1.5mm MLM Tee
	MLM-MLM-MLM-262626	26x1.5mm MLM Tee
	MLM-MLM-MLM-303030	30x2.0mm MLM Tee
	MLM-MLM-MLM-363636	36x2.0mm MLM Tee
	MLM-MLM-MLM-454545	45x2.0mm MLM Tee
	MLM-MLM-MLM-525252	52x2.0mm MLM Tee
TEE ADAPTORS		
METRIC LIGHT RUN TEE (M/F/M)		
	PART NUMBER	DESCRIPTION
	MLM-MLF-MLM-121212	12x1.5 MLM x MLF Run T
	MLM-MLF-MLM-141414	14x1.5 MLM x MLF Run T
	MLM-MLF-MLM-161616	16x1.5 MLM x MLF Run T
	MLM-MLF-MLM-181818	18x1.5 MLM x MLF Run T
	MLM-MLF-MLM-222222	22x1.5 MLM x MLF Run T
	MLM-MLF-MLM-262626	26x1.5 MLM x MLF Run T
	MLM-MLF-MLM-303030	30x2.0 MLM x MLF Run T
	MLM-MLF-MLM-363636	36x2.0 MLM x MLF Run T
	MLM-MLF-MLM-454545	45x2.0 MLM x MLF Run T
	MLM-MLF-MLM-525252	52x2.0 MLM x MLF Run T

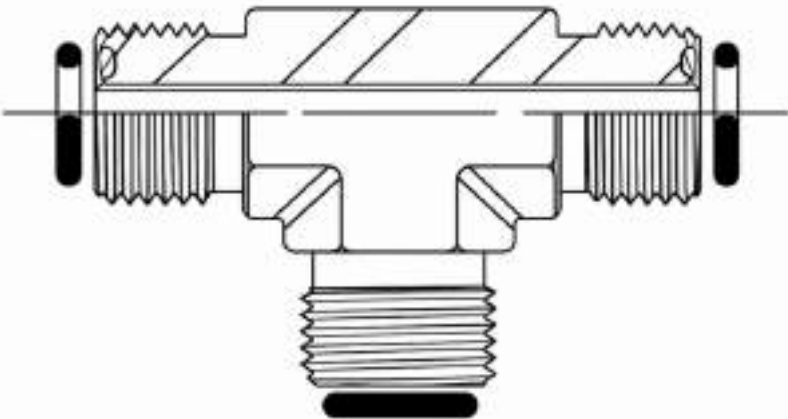
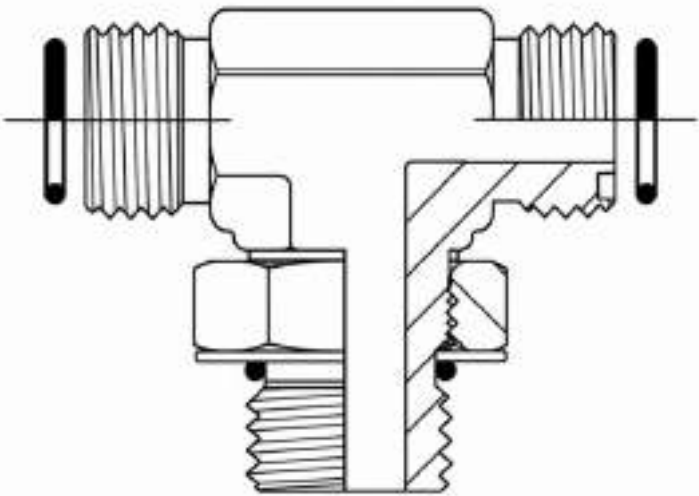
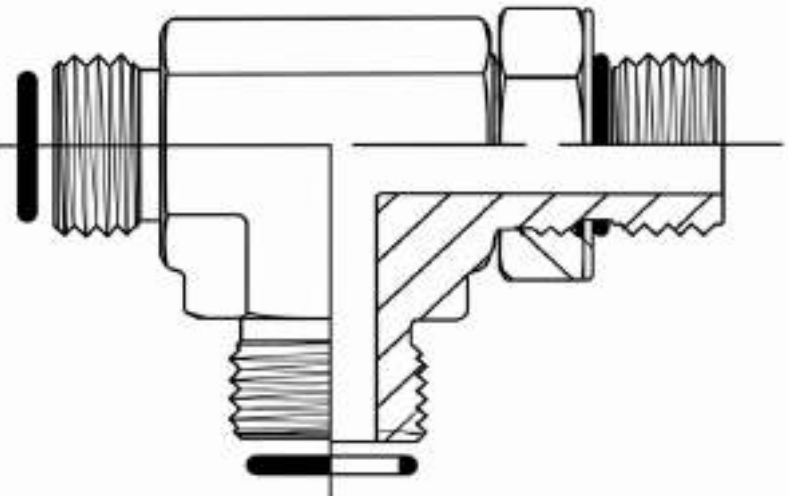


TEE ADAPTORS		
METRIC LIGHT DROP TEE (M/M/F)		
	PART NUMBER	DESCRIPTION
	MLM-MLM-MLF-121212	12x1.5 MLM x MLF Drop Tee
	MLM-MLM-MLF-141414	14x1.5 MLM x MLF Drop Tee
	MLM-MLM-MLF-161616	16x1.5 MLM x MLF Drop Tee
	MLM-MLM-MLF-181818	18x1.5 MLM x MLF Drop Tee
	MLM-MLM-MLF-222222	22x1.5 MLM x MLF Drop Tee
	MLM-MLM-MLF-262626	26x1.5 MLM x MLF Drop Tee
	MLM-MLM-MLF-303030	30x2.0 MLM x MLF Drop Tee
	MLM-MLM-MLF-363636	36x2.0 MLM x MLF Drop Tee
	MLM-MLM-MLF-454545	45x2.0 MLM x MLF Drop Tee
	MLM-MLM-MLF-525252	52x2.0 MLM x MLF Drop Tee
TEE ADAPTORS		
NPT TEE F/F/F		
	PART NUMBER	DESCRIPTION
	NTF-NTF-NTF-020202	1/8 NPT Female Tee
	NTF-NTF-NTF-040404	1/4 NPT Female Tee
	NTF-NTF-NTF-060606	3/8 NPT Female Tee
	NTF-NTF-NTF-080808	1/2 NPT Female Tee
	NTF-NTF-NTF-121212	3/4 NPT Female Tee
	NTF-NTF-NTF-161616	1-0 NPT Female Tee
	NTF-NTF-NTF-202020	1-1/4 NPT Female Tee
	NTF-NTF-NTF-242424	1-1/2 NPT Female Tee
	NTF-NTF-NTF-323232	2-0 NPT Female Tee
TEE ADAPTORS		
NPT DROP TEE F/F/M		
	PART NUMBER	DESCRIPTION
	NTF-NTF-NTM-020202	1/8 NPTF x NPTM Drop Tee
	NTF-NTF-NTM-040404	1/4 NPTF x NPTM Drop Tee
	NTF-NTF-NTM-060606	3/8 NPTF x NPTM Drop Tee
	NTF-NTF-NTM-080808	1/2 NPTF x NPTM Drop Tee
	NTF-NTF-NTM-121212	3/4 NPTF x NPTM Drop Tee
	NTF-NTF-NTM-161616	1-0 NPTF x NPTM Drop Tee
	NTF-NTF-NTM-202020	1-1/4 NPTF x NPTM Drop Tee
	NTF-NTF-NTM-242424	1-1/2 NPTF x NPTM Drop Tee

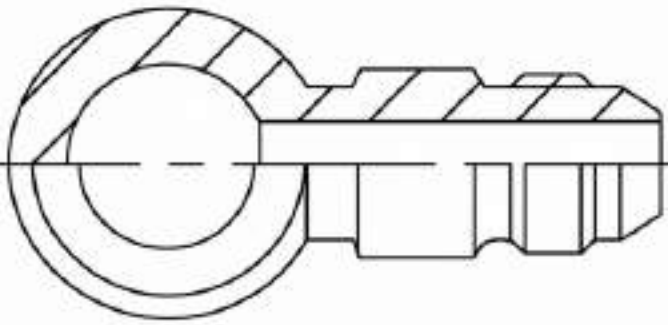
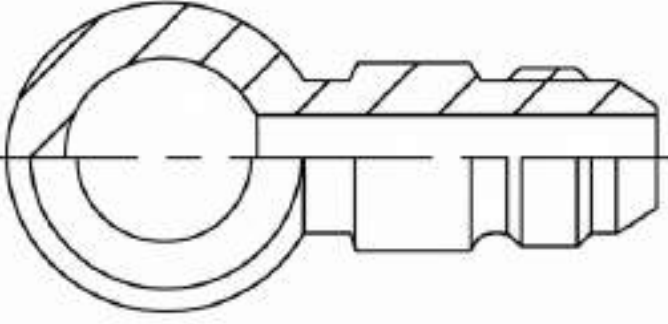
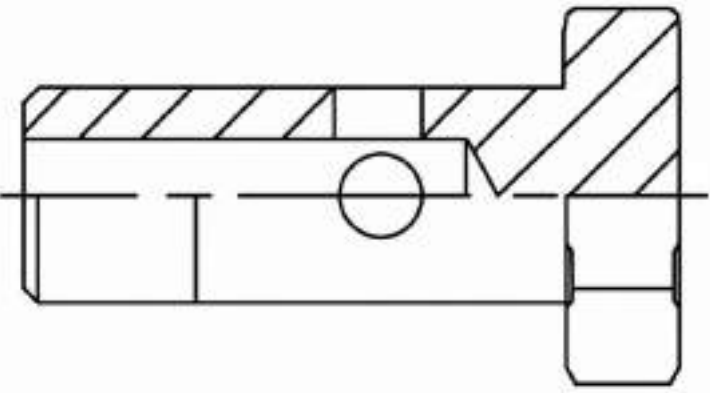
TEE ADAPTORS		
NPT RUN TEE F/M/F		
	PART NUMBER	DESCRIPTION
	NTF-NTM-NTF-020202	1/8 NPTF x NPTM Run Tee
	NTF-NTM-NTF-040404	1/4 NPTF x NPTM Run Tee
	NTF-NTM-NTF-060606	3/8 NPTF x NPTM Run Tee
	NTF-NTM-NTF-080808	1/2 NPTF x NPTM Run Tee
	NTF-NTM-NTF-121212	3/4 NPTF x NPTM Run Tee
	NTF-NTM-NTF-161616	1-0 NPTF x NPTM Run Tee
	NTF-NTM-NTF-202020	1-1/4 NPTF x NPTM Run Tee
	NTF-NTM-NTF-242424	1-1/2 NPTF x NPTM Run Tee
TEE ADAPTORS		
NPT TEE M/M/M		
	PART NUMBER	DESCRIPTION
	NTM-NTM-NTM-020202	1/8 NPT Male Tee
	NTM-NTM-NTM-040404	1/4 NPT Male Tee
	NTM-NTM-NTM-060606	3/8 NPT Male Tee
	NTM-NTM-NTM-080808	1/2 NPT Male Tee
	NTM-NTM-NTM-121212	3/4 NPT Male Tee
	NTM-NTM-NTM-161616	1-0 NPT Male Tee
	NTM-NTM-NTM-202020	1-1/4 NPTM Tee
TEE ADAPTORS		
ORFS x BSPP RUN TEE M/F/F		
	PART NUMBER	DESCRIPTION
	ORM-ORF-BPF-090902	9/16 ORFS SwvlRunT 1/8BPFDrop
	ORM-ORF-BPF-111102	11/16 ORFS SwvlRunT 1/8BPFDrop
	ORM-ORF-BPF-131302	13/16 ORFS SwvlRunT 1/8BPFDrop
	ORM-ORF-BPF-161602	1-0 ORFS SwvlRunT 1/8BPFDrop
	ORM-ORF-BPF-191902	1-3/16 ORFS SvIRunT 1/8BPFDrop
	ORM-ORF-BPF-191904	1-3/16 ORFS SvIRunT 1/4BPFDrop
	ORM-ORF-BPF-232302	1-7/16 ORFS SvIRunT 1/8BPFDrop
	ORM-ORF-BPF-232304	1-7/16 ORFS SvIRunT 1/4BPFDrop
	ORM-ORF-BPF-272702	1-11/16 ORFS SvIRunT 1/8BPFDrp
	ORM-ORF-BPF-323202	1-7/8 ORFS SvIRunT 1/8BPFDrp

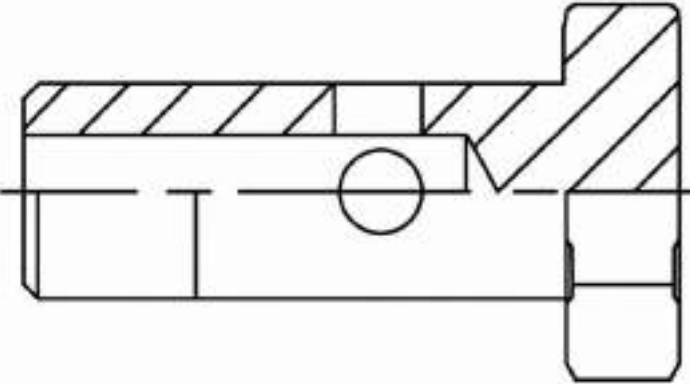
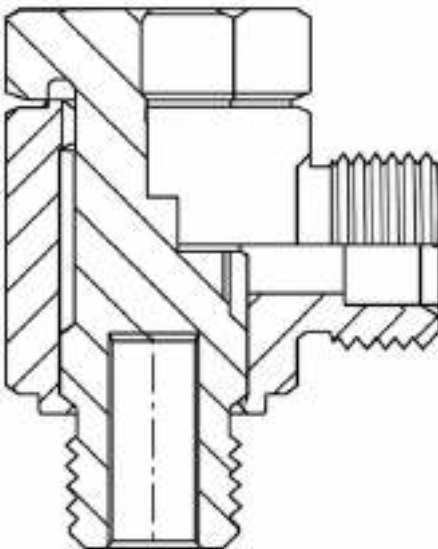
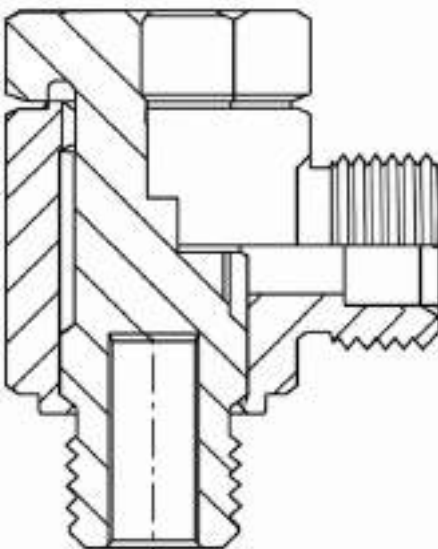


TEE ADAPTORS		
ORFS RUN TEE M/F/M		
	PART NUMBER	DESCRIPTION
	ORM-ORF-ORM-090909	9/16 ORFSM x ORFS FS Run Tee
	ORM-ORF-ORM-111111	11/16 ORFSM x ORFS FS Run Tee
	ORM-ORF-ORM-131313	13/16 ORFSM x ORFS FS Run Tee
	ORM-ORF-ORM-161616	1-0 ORFSM x ORFS FS Run Tee
	ORM-ORF-ORM-191919	1-3/16 ORFSM x ORFS FS Run Tee
	ORM-ORF-ORM-232323	1-7/16 ORFSM x ORFS FS Run Tee
	ORM-ORF-ORM-272727	1-11/16 ORFSM x ORFS FS Run Tee
	ORM-ORF-ORM-323232	2-0 ORFSM x ORFS FS Run Tee
TEE ADAPTORS		
ORFS x UNO RUN TEE M/F/F		
	PART NUMBER	DESCRIPTION
	ORM-ORF-UNF-090907	9/16 ORFS RunT 7/16UNO DropT
	ORM-ORF-UNF-111107	11/16 ORFS RunT 7/16UNO DropT
	ORM-ORF-UNF-131307	13/16 ORFS RunT 7/16UNO DropT
	ORM-ORF-UNF-161607	1-0 ORFS RunT 7/16UNO DropT
	ORM-ORF-UNF-232307	1-7/16 ORFS RunT 7/16UNO DropT
	ORM-ORF-UNF-272707	1-11/16 ORFS RunT 7/16UNODropT
TEE ADAPTORS		
ORFS DROP TEE M/M/F		
	PART NUMBER	DESCRIPTION
	ORM-ORM-ORF-090909	9/16 ORFSM x ORFS FS Drop T
	ORM-ORM-ORF-111111	11/16 ORFSM x ORFS FS Drop T
	ORM-ORM-ORF-131313	13/16 ORFSM x ORFS FS Drop T
	ORM-ORM-ORF-161616	1-0 ORFSM x ORFS FS Drop T
	ORM-ORM-ORF-191919	1-3/16 ORFSM x ORFS FS Drop T
	ORM-ORM-ORF-232323	1-7/16 ORFSM x ORFS FS Drop T
	ORM-ORM-ORF-272727	1-11/16 ORFSM x ORFS FS Drop T
	ORM-ORM-ORF-323232	2-0 ORFSM x ORFS FS Drop T

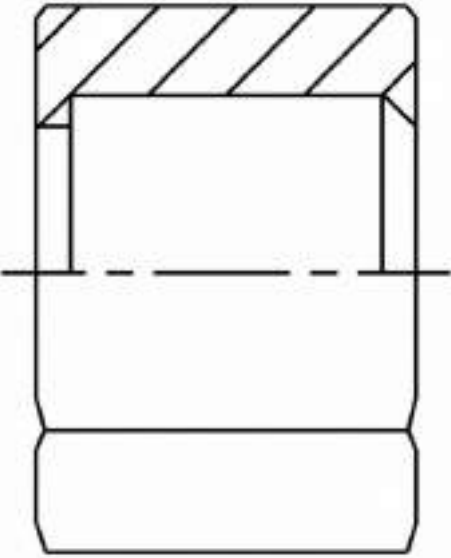
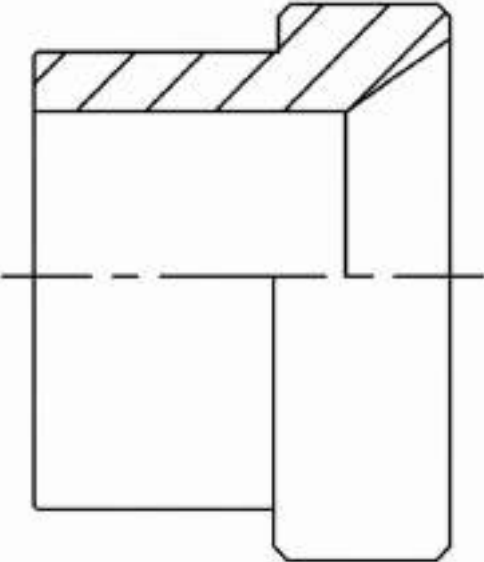
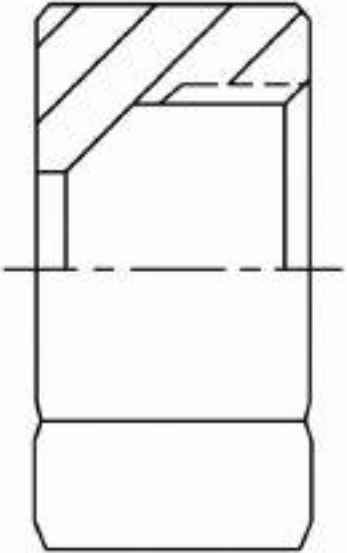
TEE ADAPTORS		
ORFS TEE M/M/M		
	PART NUMBER	DESCRIPTION
	ORM-ORM-ORM-090909	9/16 ORFS Male Tee
	ORM-ORM-ORM-111111	11/16 ORFS Male Tee
	ORM-ORM-ORM-131313	13/16 ORFS Male Tee
	ORM-ORM-ORM-161616	1-0 ORFS Male Tee
	ORM-ORM-ORM-191919	1-3/16 ORFS Male Tee
	ORM-ORM-ORM-232323	1-7/16 ORFS Male Tee
	ORM-ORM-ORM-272727	1-11/16 ORFS Male Tee
	ORM-ORM-ORM-323232	2-0 ORFS Male Tee
TEE ADAPTORS		
ORFS x UNO DROP TEE M/M/M		
	PART NUMBER	DESCRIPTION
	ORM-ORM-UNM-090907	09/16 ORFSM x 7/16 UNOM Drop T
	ORM-ORM-UNM-111109	11/16 ORFSM x 9/16 UNOM Drop T
	ORM-ORM-UNM-131312	13/16 ORFSM x 3/4 UNOM Drop T
	ORM-ORM-UNM-161614	1-0 ORFSM x 7/8 UNOM Drop T
	ORM-ORM-UNM-191917	1-3/16 ORFSM x 1-1/16UNOMDropT
	ORM-ORM-UNM-232321	1-7/16 ORFSM x 1-5/16UNOMDropT
TEE ADAPTORS		
ORFS x UNO RUN TEE M/M/M		
	PART NUMBER	DESCRIPTION
	ORM-UNM-ORM-090709	9/16 ORFSM x 7/16 UNO P Run T
	ORM-UNM-ORM-110911	11/16 ORFSM x 9/16 UNO P Run T
	ORM-UNM-ORM-131213	13/16 ORFSM x 3/4 UNO P Run T
	ORM-UNM-ORM-161416	1-0 ORFSM x 7/8 UNO P Run T
	ORM-UNM-ORM-191719	1-3/16 ORFSM x 1-1/16 UNOPRunT
	ORM-UNM-ORM-232123	1-7/16 ORFSM x 1-5/16 UNOPRunT
	ORM-UNM-ORM-272627	1-11/16 ORFSM x 1-5/8 UNOPRunT

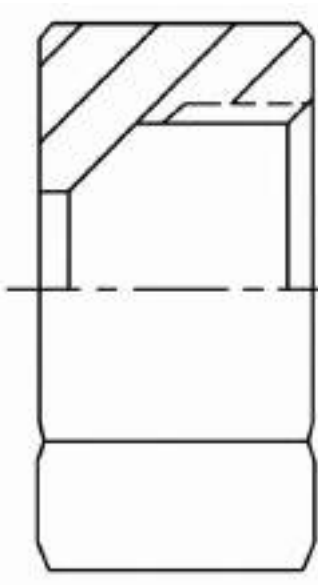
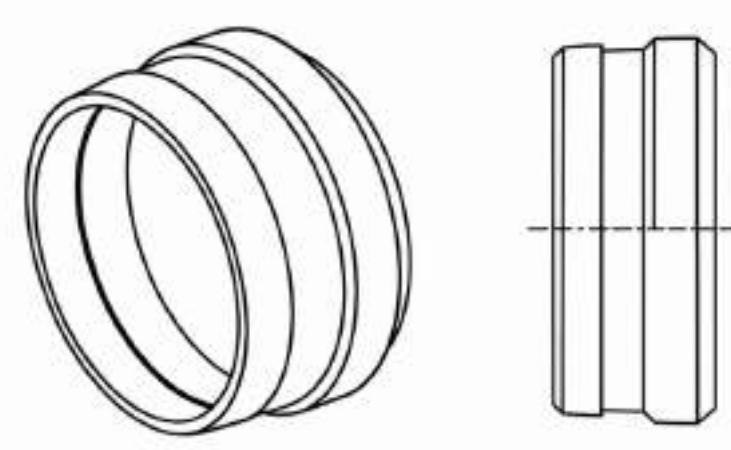


BANJO ADAPTORS		
BSP BANJO x JIC M		
	PART NUMBER	DESCRIPTION
	BBJ-JIM-0407	1/4 BSP Banjo x 7/16 JICM
	BBJ-JIM-0409	1/4 BSP Banjo x 9/16 JICM
BANJO ADAPTORS		
METRIC BANJO x JIC M		
	PART NUMBER	DESCRIPTION
	MBJ-JIM-0807	8 mm Banjo x 7/16 JICM - T8
	MBJ-JIM-1007	10mm Banjo x 7/16 JICM - T10
	MBJ-JIM-1207	12mm Banjo x 7/16 JICM - T12
	MBJ-JIM-1209	12mm Banjo x 9/16 JICM - T12
	MBJ-JIM-1407	14mm Banjo x 7/16 JICM - T14
	MBJ-JIM-1409	14mm Banjo x 9/16 JICM - T14
	MBJ-JIM-1412	14mm Banjo x 3/4 JICM - T14
	MBJ-JIM-1609	16mm Banjo x 9/16 JICM - T16
	MBJ-JIM-1612	16mm Banjo x 3/4 JICM - T16
	MBJ-JIM-1614	16mm Banjo x 7/8 JICM - T16
	MBJ-JIM-1809	18mm Banjo x 9/16 JICM - T20
	MBJ-JIM-1812	18mm Banjo x 3/4 JICM - T20
	MBJ-JIM-1814	18mm Banjo x 7/8 JICM - T20
	MBJ-JIM-2212	22mm Banjo x 3/4 JICM - T20
	MBJ-JIM-2214	22mm Banjo x 7/8 JICM - T20
BANJO ADAPTORS		
BSP BANJO BOLT		
	PART NUMBER	DESCRIPTION
	BBB-02	1/8 BSP Banjo Bolt 29.5MM
	BBB-02 L19	(For BBJ-JIM-0207) 1/8 BSP Banjo Bolt 19mm Long
	BBB-04	1/4 BSP Banjo Bolt 28.5MM
	BBB-06	3/8 BSP Banjo Bolt 38.5MM
	BBB-06 E31	(For BBJ-JIM-0609) 3/8 BSP Banjo Bolt 31mm
	BBB-08	1/2 BSP Banjo Bolt 44MM
	BBB-12	3/4 BSP Banjo Bolt 56MM
	BBB-16	1 BSP Banjo Bolt 68.5MM

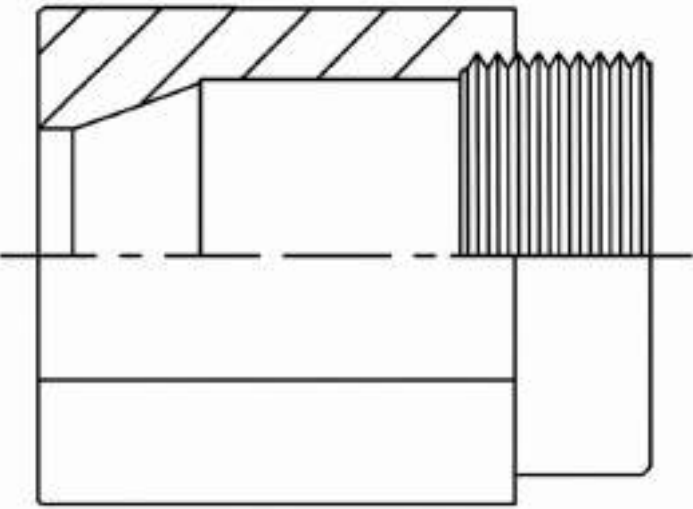
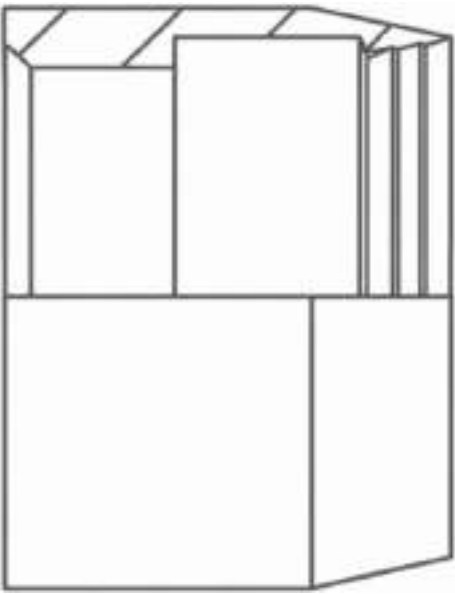
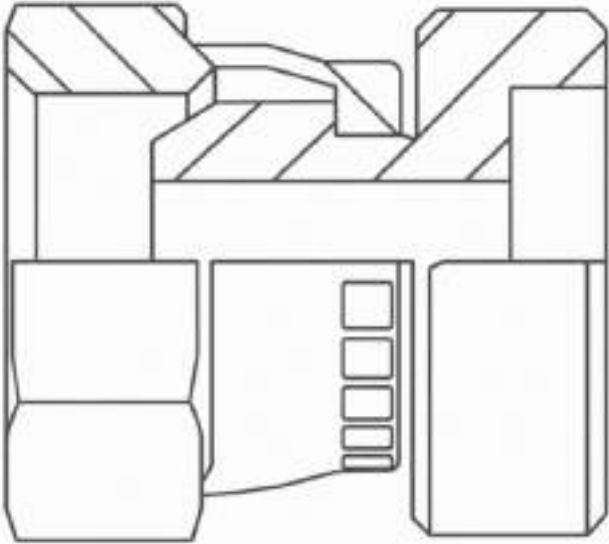
BANJO ADAPTORS		
METRIC BANJO BOLT		
	PART NUMBER	DESCRIPTION
	MBB-08 X 1.25	8x1.25mm Metric Banjo Bolt L17
	MBB-10	10x1.0mm Metric Banjo Bolt L19
	MBB-12	12x1.5mm Metric Banjo Bolt L24
	MBB-12 X 1.25	12x1.25mm Metric Banjo Bolt L26
	MBB-14	14x1.5mm Metric Banjo Bolt L26
	MBB-16	16x1.5mm Metric Banjo Bolt L28
	MBB-18	18x1.5mm Metric Banjo Bolt L32
	MBB-22	22x1.5mm Metric Banjo Bolt L39
	MBB-26	26x1.5mm Metric Banjo Bolt L45
	MBB-30	30x2.0mm Metric Banjo Bolt L51
BANJO ADAPTORS		
BSP BANJO x METRIC HEAVY M 90°		
	PART NUMBER	DESCRIPTION
	BBJ-MHM-90C-0414	1/4 BSP Banjo x 14x1.5 MHM
	BBJ-MHM-90C-0416	1/4 BSP Banjo x 16x1.5 MHM
	BBJ-MHM-90C-0618	3/8 BSP Banjo x 18x1.5 MHM
	BBJ-MHM-90C-0620	3/8 BSP Banjo x 20x1.5 MHM
	BBJ-MHM-90C-0822	1/2 BSP Banjo x 22x1.5 MHM
	BBJ-MHM-90C-0824	1/2 BSP Banjo x 24x1.5 MHM
	BBJ-MHM-90C-1230	3/4 BSP Banjo x 30x2.0 MHM
	BBJ-MHM-90C-1636	1-0 BSP Banjo x 36x2.0 MHM
	BBJ-MHM-90C-2042	1-1/4 BSP Banjo x 42x2.0 MHM
	BBJ-MHM-90C-2452	1-1/2 BSP Banjo x 52x2.0 MHM
BANJO ADAPTORS		
BSP BANJO x METRIC HEAVY M 90°		
	PART NUMBER	DESCRIPTION
	BBJ-MLLM-90C-0208	1/8 BSP Banjo x 8x1.0 MLLM
	BBJ-MLLM-90C-0210	1/8 BSP Banjo x 10x1.0 MLLM
	BBJ-MLLM-90C-0212	1/8 BSP Banjo x 12x1.0 MLLM
	BBJ-MLM-90C-0212	1/8 BSP Banjo x 12x1.5 MLM
	BBJ-MLM-90C-0414	1/4 BSP Banjo x 14x1.5 MLM
	BBJ-MLM-90C-0416	1/4 BSP Banjo x 16x1.5 MLM
	BBJ-MLM-90C-0618	3/8 BSP Banjo x 18x1.5 MLM
	BBJ-MLM-90C-0822	1/2 BSP Banjo x 22x1.5 MLM
	BBJ-MLM-90C-0826	1/2 BSP Banjo x 26x1.5 MLM
	BBJ-MLM-90C-1230	3/4 BSP Banjo x 30x2.0 MLM
	BBJ-MLM-90C-1636	1-0 BSP Banjo x 36x2.0 MLM
	BBJ-MLM-90C-2045	1-1/4 BSP Banjo x 45x2.0 MLM
	BBJ-MLM-90C-2452	1-1/2 BSP Banjo x 52x2.0 MLM

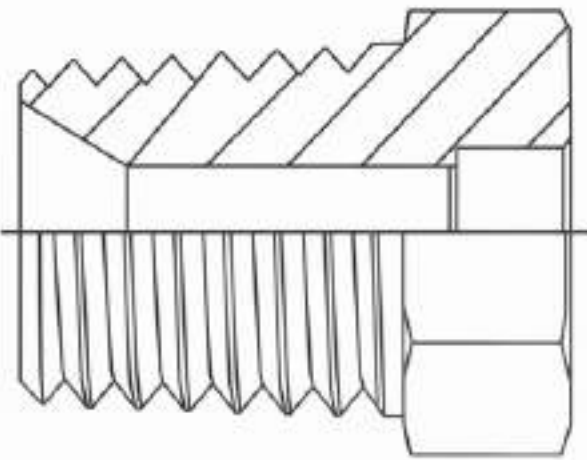
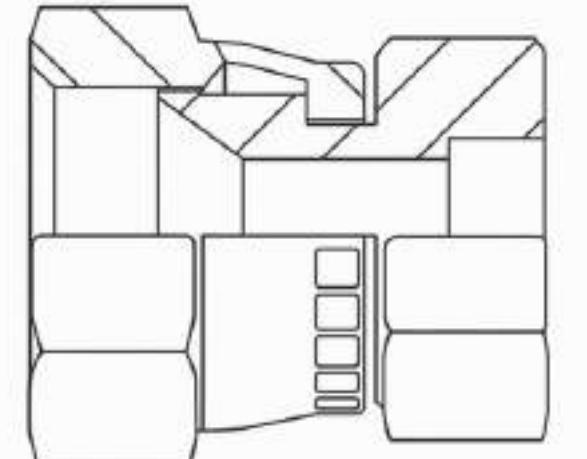


TUBE FITTINGS		
JIC TUBE NUT		
	PART NUMBER	DESCRIPTION
	JTN-07	7/16 JIC Female Tube Nut
	JTN-08	1/2 JIC Female Tube Nut
	JTN-09	9/16 JIC Female Tube Nut
	JTN-12	3/4 JIC Female Tube Nut
	JTN-14	7/8 JIC Female Tube Nut
	JTN-17	1-1/16 JIC Female Tube Nut
	JTN-21	1-5/16 JIC Female Tube Nut
	JTN-26	1-5/8 JIC Female Tube Nut
	JTN-30	1-7/8 JIC Female Tube Nut
	JTN-40	2 1/2 JIC Female Tube Nut
TUBE FITTINGS		
JIC TUBE SLEEVE		
	PART NUMBER	DESCRIPTION
	JTS-07	7/16 JIC Sleeve
	JTS-08	1/2 JIC Sleeve
	JTS-09	9/16 JIC Sleeve
	JTS-12	3/4 JIC Sleeve
	JTS-14	7/8 JIC Sleeve
	JTS-17	1-1/16 JIC Sleeve
	JTS-21	1-5/16 JIC Sleeve
	JTS-26	1-5/8 JIC Sleeve
	JTS-30	1-7/8 JIC Sleeve
	JTS-40	2 1/2 JIC Sleeve
TUBE FITTINGS		
METRIC HEAVY TUBE NUT		
	PART NUMBER	DESCRIPTION
	MHN-14	14x1.5 6S MetHeavy Tube Nut
	MHN-16	16x1.5 8S MetHeavy Tube Nut
	MHN-18	18x1.5 10S MetHeavy Tube Nut
	MHN-20	20x1.5 12S MetHeavy Tube Nut
	MHN-22	22x1.5 14S MetHeavy Tube Nut
	MHN-24	24x1.5 16S MetHeavy Tube Nut
	MHN-30	30x2.0 20S MetHeavy Tube Nut
	MHN-36	36x2.0 25S MetHeavy Tube Nut
	MHN-42	42x2.0 30S MetHeavy Tube Nut
	MHN-52	52x2.0 38S MetHeavy Tube Nut

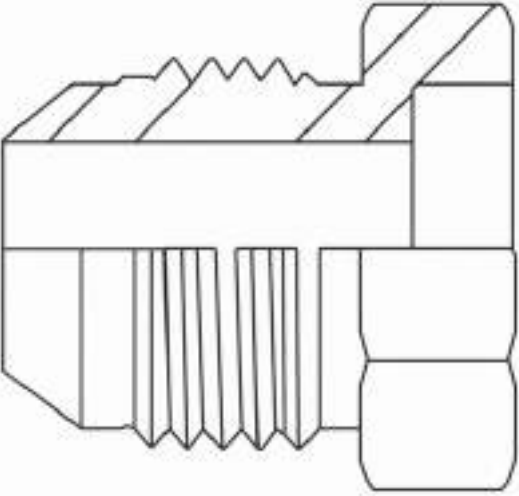
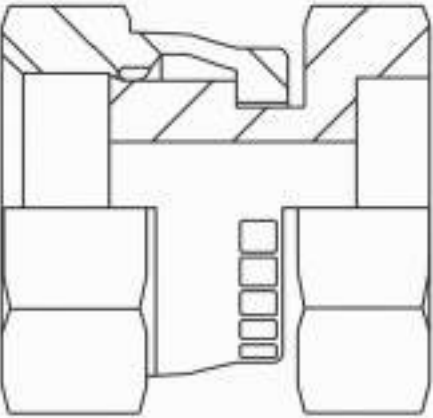
TUBE FITTINGS		
METRIC LIGHT TUBE NUT		
	PART NUMBER	DESCRIPTION
	MLLN-08	8x1.0mm 4LL Tube Nut
	MLLN-10	10x1.0mm 6LL Tube Nut
	MLLN-12	12x1.0mm 8LL Tube Nut
	MLN-12	12x1.5 6L MetLight Tube Nut
	MLN-14	14x1.5 8L MetLight Tube Nut
	MLN-16	16x1.5 10L MetLight Tube Nut
	MLN-18	18x1.5 12L MetLight Tube Nut
	MLN-22	22x1.5 15L MetLight Tube Nut
	MLN-26	26x1.5 18L MetLight Tube Nut
	MLN-30	30x2.0 22L MetLight Tube Nut
	MLN-36	36x2.0 28L MetLight Tube Nut
	MLN-45	45x2.0 35L MetLight Tube Nut
	MLN-52	52x2.0 42L MetLight Tube Nut
TUBE FITTINGS		
METRIC CUTTING SLEEVE		
	PART NUMBER	DESCRIPTION
	MCS-04LL	4LL Metric Cutting Sleeve 8mm
	MCS-06L/S	6L/S Cutting Sleeve 12/14mm
	MCS-06LL	6LL Metric Cutting Sleeve 10mm
	MCS-08L/S	8L/S Cutting Sleeve 14/16mm
	MCS-08LL	8LL Metric Cutting Sleeve 12mm
	MCS-10L/S	10L/S Cutting Sleeve 16/18mm
	MCS-12L/S	12L/S Cutting Sleeve 18/20mm
	MCS-14S	14S Metric Cutting Sleeve 22mm
	MCS-15L	15L Metric Cutting Sleeve 22mm
	MCS-16S	16S Metric Cutting Sleeve 24mm
	MCS-18L	18L Metric Cutting Sleeve 26mm
	MCS-20S	20S Metric Cutting Sleeve 30mm
	MCS-22L	22L Metric Cutting Sleeve 30mm
	MCS-25S	25S Metric Cutting Sleeve 36mm
	MCS-28L	28L Metric Cutting Sleeve 36mm
	MCS-30S	30S Metric Cutting Sleeve 42mm
	MCS-35L	35L Metric Cutting Sleeve 45mm
	MCS-38S	38S Metric Cutting Sleeve 52mm
	MCS-42L	42L Metric Cutting Sleeve 52mm

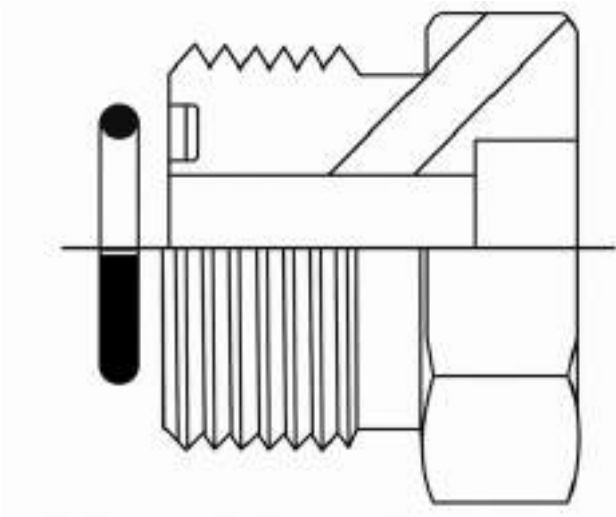


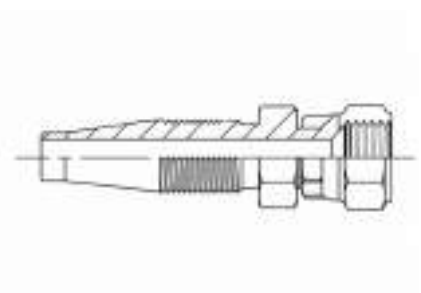
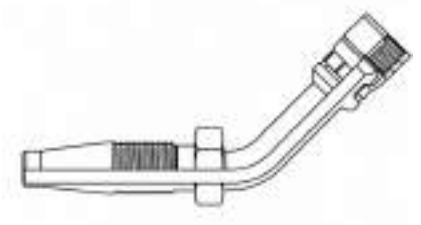
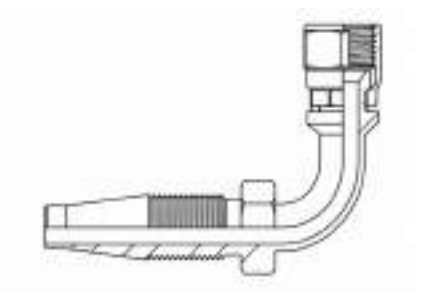
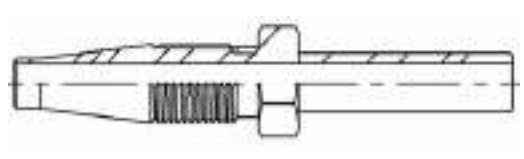
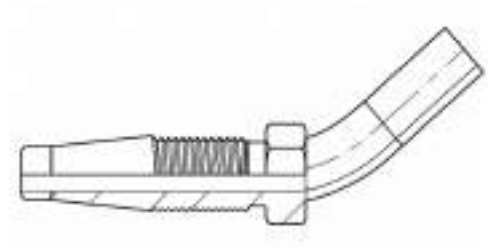
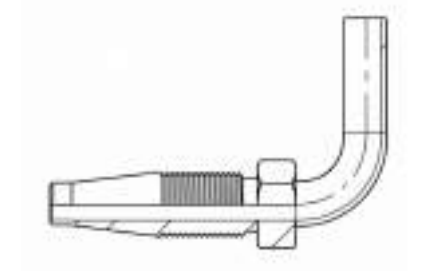
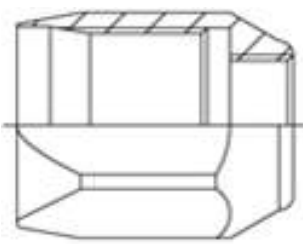
TUBE FITTINGS		
JIC COMPRESSION NUT		
	PART NUMBER	DESCRIPTION
	JCN-07	JIC 7/16 thread nut 1/4 tubeOD
	JCN-09	JIC 9/16 thread nut 3/8 tubeOD
	JCN-12	JIC 3/4 thread nut 1/2 tubeOD
	JCN-14	JIC 7/8 thread nut 5/8 tubeOD
	JCN-17	JIC1-1/16 threadnut 3/4 tubeOD
	JCN-21	JIC 1-5/16 threadnut 1-0tubeOD
TUBE FITTINGS		
JIC COMPRESSION SLEEVE		
	PART NUMBER	DESCRIPTION
	JCS-07	1/4 tube OD CAF JIC Sleeve
	JCS-09	3/8 tube OD CAF JIC Sleeve
	JCS-12	1/2 tube OD CAF JIC Sleeve
	JCS-14	5/8 tube OD CAF JIC Sleeve
	JCS-17	3/4 tube OD CAF JIC Sleeve
	JCS-21	1-0 tube OD CAF JIC Sleeve
TUBE FITTINGS		
BSPP F SWIVEL x TUBE WELD		
	PART NUMBER	DESCRIPTION
	BSF-TWF-0404	1/4 BSPFS x 1/4 OD T/Weld
	BSF-TWF-0606	3/8 BSPFS x 3/8 OD T/Weld
	BSF-TWF-0608	3/8 BSPFS x 1/2 OD T/Weld
	BSF-TWF-0808	1/2 BSPFS x 1/2 OD T/Weld
	BSF-TWF-0810	1/2 BSPFS x 5/8 OD T/Weld
	BSF-TWF-1212	3/4 BSPFS x 3/4 OD T/Weld
	BSF-TWF-1616	1-0 BSPFS x 1-0 OD T/Weld
	BSF-TWF-2020	1-1/4 BSPFS x 1-1/4 OD T/Weld
	BSF-TWF-2424	1-1/2 BSPFS x 1-1/2 OD T/Weld
	BSF-TWF-3232	2-0 BSPFS x 2-0 OD T/Weld

TUBE FITTINGS		
BSPT M x TUBE WELD		
	PART NUMBER	DESCRIPTION
	BTM-TWF-0404	1/4 BSPTM x 1/4 T/Weld F
	BTM-TWF-0406	1/4 BSPTM x 3/8 T/Weld F
	BTM-TWF-0606	3/8 BSPTM x 3/8 T/Weld F
	BTM-TWF-0608	3/8 BSPTM x 1/2 T/Weld F
	BTM-TWF-0808	1/2 BSPTM x 1/2 T/Weld F
	BTM-TWF-0810	1/2 BSPTM x 5/8 T/Weld F
	BTM-TWF-0812	1/2 BSPTM x 3/4 T/Weld F
	BTM-TWF-1212	3/4 BSPTM x 3/4 T/Weld F
	BTM-TWF-1216	3/4 BSPTM x 1-0 T/Weld F
	BTM-TWF-1616	1-0 BSPTM x 1-0 T/Weld F
	BTM-TWF-1620	1-0 BSPTM x 1-1/4 T/Weld F
	BTM-TWF-2020	1-1/4 BSPTM x 1-1/4 T/Weld F
	BTM-TWF-2424	1-1/2 BSPTM x 1-1/2 T/Weld F
	BTM-TWF-3232	2-0 BSPTM x 2-0 T/Weld F
TUBE FITTINGS		
JIC F x TUBE WELD		
	PART NUMBER	DESCRIPTION
	JIF-TWF-0704	7/16 JICFS x 1/4 T/Weld
	JIF-TWF-0906	9/16 JICFS x 3/8 T/Weld
	JIF-TWF-0908	9/16 JICFS x 1/2 T/Weld
	JIF-TWF-1206	3/4 JICFS x 3/8 T/Weld
	JIF-TWF-1208	3/4 JICFS x 1/2 T/Weld
	JIF-TWF-1210	3/4 JICFS x 5/8 T/Weld
	JIF-TWF-1408	7/8 JICFS x 1/2 T/Weld
	JIF-TWF-1410	7/8 JICFS x 5/8 T/Weld
	JIF-TWF-1712	1-1/16 JICFS x 3/4 T/Weld
	JIF-TWF-1716	1-1/16 JICFS x 1-0 T/Weld
	JIF-TWF-2116	1-5/16 JICFS x 1-0 T/Weld
	JIF-TWF-2120	1-5/16 JICFS x 1-1/4 T/Weld
	JIF-TWF-2620	1-5/8 JICFS x 1-1/4 T/Weld
	JIF-TWF-3024	1-7/8 JICFS x 1-1/2 T/Weld



TUBE FITTINGS		
JIC M x TUBE WELD		
	PART NUMBER	DESCRIPTION
	JIM-TWF-0704	7/16 JICM x 1/4 T/Weld
	JIM-TWF-0805	1/2 JICM x 5/16 T/Weld
	JIM-TWF-0904	9/16 JICM x 1/4 T/Weld
	JIM-TWF-0905	9/16 JICM x 5/16 T/Weld
	JIM-TWF-0906	9/16 JICM x 3/8 T/Weld
	JIM-TWF-0908	9/16 JICM x 1/2 T/Weld
	JIM-TWF-0910M	9/16 JICM x 10mm T/Weld 5/8hex
	JIM-TWF-1206	3/4 JICM x 3/8 T/Weld
	JIM-TWF-1208	3/4 JICM x 1/2 T/Weld
	JIM-TWF-1210	3/4 JICM x 5/8 T/Weld
	JIM-TWF-1408	7/8 JICM x 1/2 T/Weld
	JIM-TWF-1410	7/8 JICM x 5/8 T/Weld
	JIM-TWF-1412	7/8 JICM x 3/4 T/Weld
	JIM-TWF-1710	1-1/16 JICM x 5/8 T/Weld
	JIM-TWF-1712	1-1/16 JICM x 3/4 T/Weld
	JIM-TWF-1716	1-1/16 JICM x 1-0 T/Weld
	JIM-TWF-2112	1-5/16 JICM x 3/4 T/Weld
	JIM-TWF-2116	1-5/16 JICM x 1-0 T/Weld
	JIM-TWF-2120	1-5/16 JICM x 1-1/4 T/Weld
	JIM-TWF-2616	1-5/8 JICM x 1-0 T/Weld
	JIM-TWF-2620	1-5/8 JICM x 1-1/4 T/Weld
	JIM-TWF-2624	1-5/8 JICM x 1-1/2 T/Weld
	JIM-TWF-3024	1-7/8 JICM x 1-1/2 T/Weld
TUBE FITTINGS		
ORFS F SWIVEL x TUBE WELD		
	PART NUMBER	DESCRIPTION
	ORF-TWF-0906	9/16 ORFS FS x 3/8 T/Weld
	ORF-TWF-1106	11/16 ORFS FS x 3/8 T/Weld

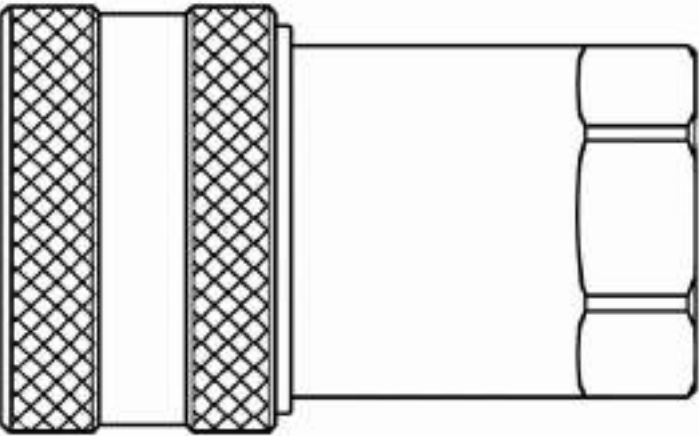
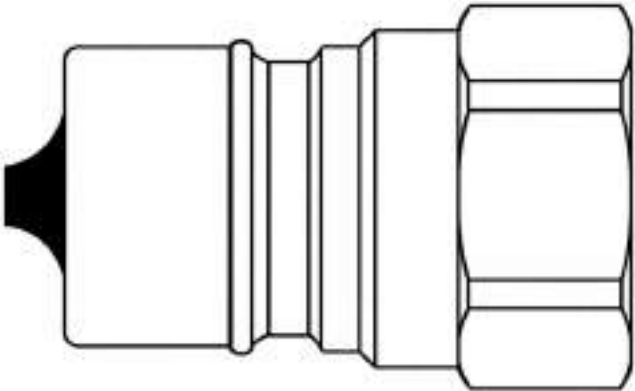
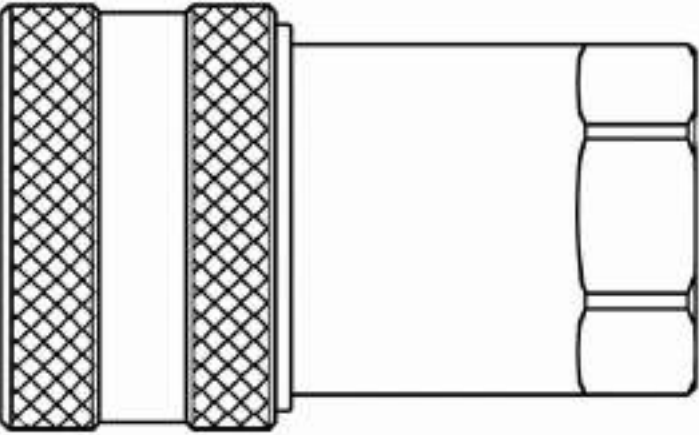
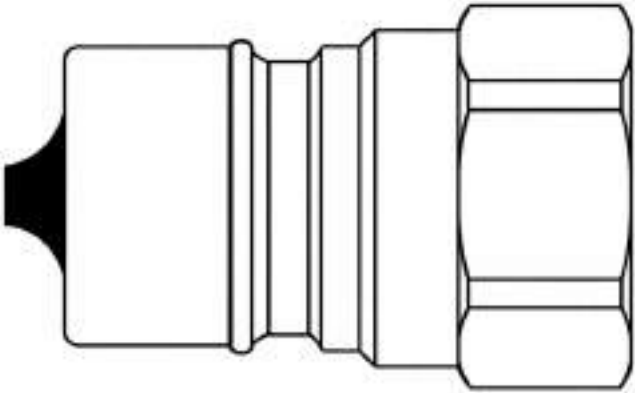
TUBE FITTINGS		
ORFS M x TUBE WELD		
	PART NUMBER	DESCRIPTION
	ORM-TWF-0904	9/16 ORFS M x 1/4 T/Weld
	ORM-TWF-0906	9/16 ORFS M x 3/8 T/Weld
	ORM-TWF-1106	11/16 ORFS M x 3/8 T/Weld
	ORM-TWF-1308	13/16 ORFS M x 1/2 T/Weld
	ORM-TWF-1610	1-0 ORFS M x 5/8 T/Weld
	ORM-TWF-1912	1-3/16 ORFS M x 3/4 T/Weld
	ORM-TWF-1916	1-3/16 ORFS M x 1-0 T/Weld
	ORM-TWF-2316	1-7/16 ORFS M x 1-0 T/Weld
	ORM-TWF-2320	1-7/16 ORFS M x 1-1/4 T/Weld
	ORM-TWF-2720	1-11/16 ORFS M x 1-1/4 T/Weld
	ORM-TWF-3224	2-0 ORFS M x 1-1/2 T/Weld

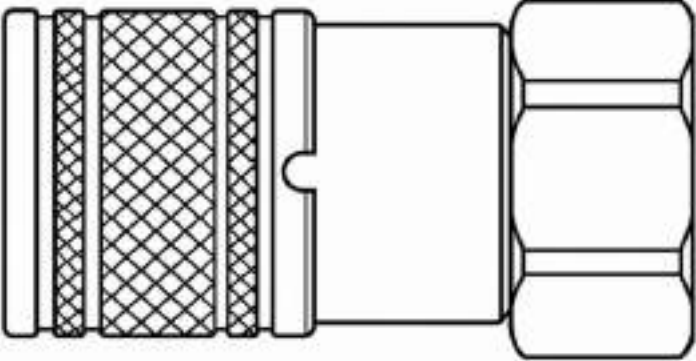
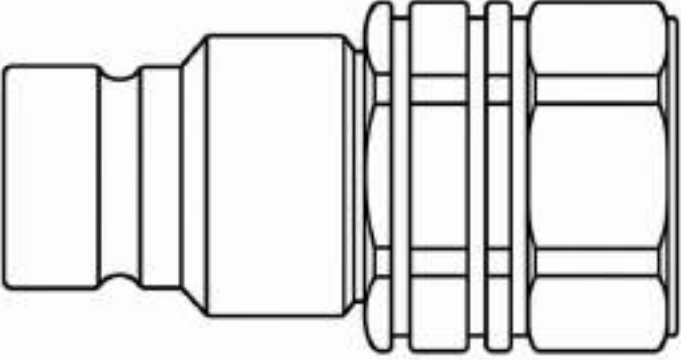
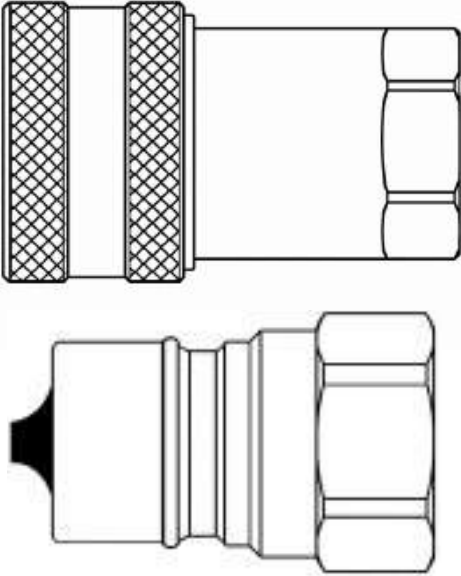
GREASE FITTINGS		
JIC F SWIVEL x 3/16 GREASE TAIL		
	PART NUMBER	DESCRIPTION
	RGT-JIF-0307	3/16 Grease Tail x 7/16 JICFS - Comes with Ferrule
GREASE FITTINGS		
45° JIC F SWIVEL x 3/16 GREASE TAIL		
	PART NUMBER	DESCRIPTION
	RGT-JIF-45S-0307	3/16 Grease Tail x 7/16 JICFS 45 Swept - Comes with Ferrule
GREASE FITTINGS		
90° JIC F SWIVEL x 3/16 GREASE TAIL		
	PART NUMBER	DESCRIPTION
	RGT-JIF-90S-0307	3/16 Grease Tail x 7/16 JICFS 90 Swept - Comes with Ferrule
GREASE FITTINGS		
METRIC STANDPIPE x 3/16 GREASE TAIL		
	PART NUMBER	DESCRIPTION
	RGT-MSP-0306	3/16 Grease Tail x 6mm S/Pipe - Comes with Ferrule
GREASE FITTINGS		
45° METRIC STANDPIPE x 3/16 GREASE TAIL		
	PART NUMBER	DESCRIPTION
	RGT-MSP-45S-0306	3/16 Grease Tail x 6mm S/Pipe 45 Swept 37mm Drop - Comes with Ferrule
GREASE FITTINGS		
90° METRIC STANDPIPE x 3/16 GREASE TAIL		
	PART NUMBER	DESCRIPTION
	RGT-MSP-90S-0306	3/16 Grease Tail x 6mm S/Pipe 90 Swept 37mm Drop - Comes with Ferrule
GREASE FITTINGS		
GREASE FERRULE		
	PART NUMBER	DESCRIPTION
	RGN-03	3/16 Grease Ferrule

HYDRAULIC ACCESSORIES

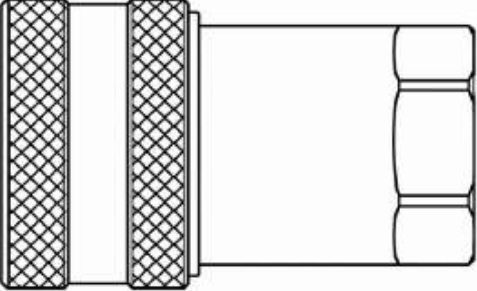
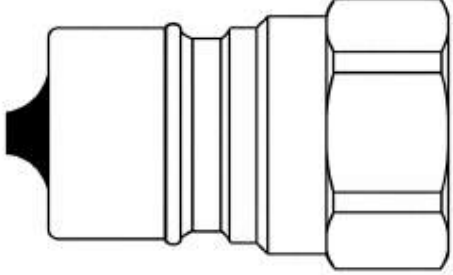
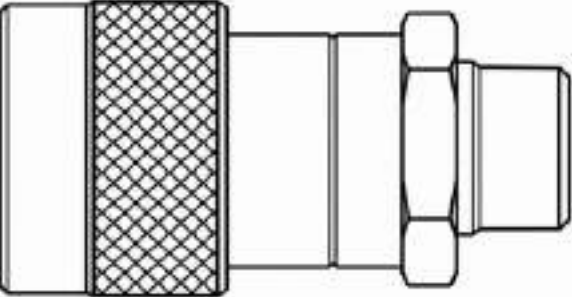
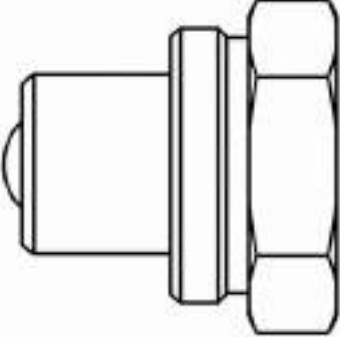


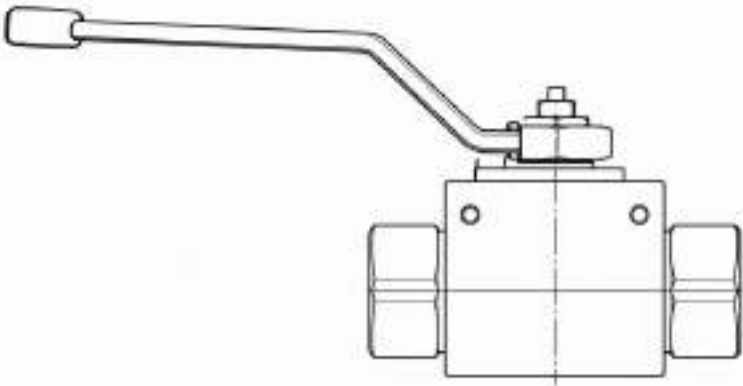
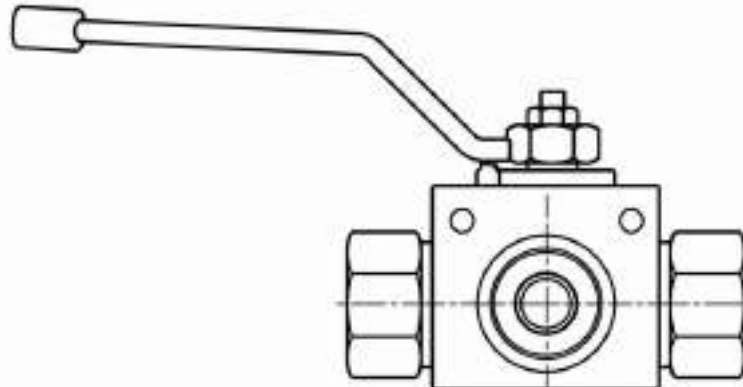


QUICK COUPLINGS		
	PART NUMBER	DESCRIPTION
	QRF-BPF-0404A	1/4 QRC ISO A Carrier
	QRF-BPF-0606A	3/8 QRC ISO A Carrier
	QRF-BPF-0808A	1/2 QRC ISO A Carrier
	QRF-BPF-1212A	3/4 QRC ISO A Carrier
	QRF-BPF-1616A	1-0 QRC ISO A Carrier
	QRF-BPF-2020A	1-1/4 QRC ISO A Carrier
	QRF-BPF-2424A	1-1/2 QRC ISO A Carrier
QUICK COUPLINGS		
ISO A MALE		
	PART NUMBER	DESCRIPTION
	QRM-BPF-0404A	1/4 QRC ISO A Probe
	QRM-BPF-0606A	3/8 QRC ISO A Probe
	QRM-BPF-0808A	1/2 QRC ISO A Probe
	QRM-BPF-1212A	3/4 QRC ISO A Probe
	QRM-BPF-1616A	1-0 QRC ISO A Probe
	QRM-BPF-2020A	1-1/4 QRC ISO A Probe
	QRM-BPF-2424A	1-1/2 QRC ISO A Probe
QUICK COUPLINGS		
ISO B FEMALE		
	PART NUMBER	DESCRIPTION
	QRF-BPF-0202B	1/8 QRC ISO B Carrier
	QRF-BPF-0404B	1/4 QRC ISO B Carrier
	QRF-BPF-0606B	3/8 QRC ISO B Carrier
	QRF-BPF-0808B	1/2 QRC ISO B Carrier
	QRF-BPF-1212B	3/4 QRC ISO B Carrier
	QRF-BPF-1616B	1-0 QRC ISO B Carrier
QUICK COUPLINGS		
ISO B MALE		
	PART NUMBER	DESCRIPTION
	QRF-BPF-0202B	1/8 QRC ISO B Probe
	QRF-BPF-0404B	1/4 QRC ISO B Probe
	QRF-BPF-0606B	3/8 QRC ISO B Probe
	QRF-BPF-0808B	1/2 QRC ISO B Probe
	QRF-BPF-1212B	3/4 QRC ISO B Probe
	QRF-BPF-1616B	1-0 QRC ISO B Probe

QUICK COUPLINGS		
FLAT FACE FEMALE		
	PART NUMBER	DESCRIPTION
	QFF-BPF-HD-0604	1/4 FFBody(28mm) x 1/4 BPF
	QFF-BPF-HD-1006	3/8 FFBody(32mm) x 3/8 BPF
	QFF-BPF-HD-1008	3/8 FFBody(32mm) x 1/2 BPF
	QFF-BPF-HD-1208	1/2 FFBody(38mm) x 1/2 BPF
	QFF-BPF-HD-1212	1/2 FFBody(38mm) x 3/4 BPF
	QFF-BPF-HD-1612	3/4 FFBody(42mm) x 3/4 BPF
	QFF-BPF-HD-1912	1-0 FFBody(47mm) x 3/4 BPF
	QFF-BPF-HD-1916	1-0 FFBody(47mm) x 1-0 BPF
	QFF-BPF-HD-2516	1-1/4 FFBody(55mm) x 1 BPF
	QFF-BPF-HD-2520	1-1/4 FFBody(55mm) x 1-1/4 BPF
QUICK COUPLINGS		
FLAT FACE FEMALE		
	PART NUMBER	DESCRIPTION
	QFM-BPF-HD-0604	1/4 FFProbe(16.2mm) x 1/4 BPF
	QFM-BPF-HD-1006	3/8 FFProbe(19.8mm) x 3/8 BPF
	QFM-BPF-HD-1008	3/8 FFProbe(19.8mm) x 1/2 BPF
	QFM-BPF-HD-1208	1/2 FFProbe(24.5mm) x 1/2 BPF
	QFM-BPF-HD-1212	1/2 FFProbe(24.5mm) x 3/4 BPF
	QFM-BPF-HD-1612	3/4 FFProbe(26.95mm) x 3/4 BPF
	QFM-BPF-HD-1912	1-0 FFProbe(30mm) x 3/4 BPF
	QFM-BPF-HD-1916	1-0 FFProbe(30mm) x 1-0 BPF
	QFM-BPF-HD-2516	1-1/4 FFProbe(36.1mm) x 1- BPF
	QFM-BPF-HD-2520	1-1/4FFProbe(36.1mm) x 1-1/4 BPF
QUICK COUPLINGS		
PBR TRUCK COUPLING		
	PART NUMBER	DESCRIPTION
	QRF-PBR-16	1-0 PBR Female Coupler
	QRM-PBR-16	1-0 PBR Male Coupler



QUICK COUPLINGS		
TEMA FEMALE		
	PART NUMBER	DESCRIPTION
	QRF-TEM-0808	08 H Flow Safety x 1/2 BSPPF Tema Interchange
	QRF-TEM-1212	12 H Flow Safety x 3/4 BSPPF Tema Interchange
	QRF-TEM-1616	16 H-Flow Safety 1-0BSPPF 250b Tema Interchange
QUICK COUPLINGS		
TEMA MALE		
	PART NUMBER	DESCRIPTION
	QRM-TEM-0808	08 H Flow Safety x 1/2 BSPPF Tema Interchange
	QRM-TEM-1212	12 H Flow Safety x 3/4 BSPPF Tema Interchange
	QRM-TEM-1616	16 H-Flow Safety 1-0 BSPPF 250b Tema Interchange
QUICK COUPLINGS		
JACKING		
 	PART NUMBER	DESCRIPTION
	QJF-NTM-0404 Ball	1/4 NPTM QRC Jacking Female Body (Ball Type)
	QJF-NTM-0404 Poppet	1/4 NPTM QRC Jacking Female Body (Poppet Type)
	QJF-NTM-0606 Ball	3/8 NPTM QRC Jacking Female Body (Ball Type)
	QJF-NTM-0606 Poppet	3/8 NPTM QRC Jacking Female Body (Poppet Type)
	QJM-NTF-0404 Ball	1/4 NPTF QRC Jacking Probe (Ball Type)
	QJM-NTF-0404 Poppet	1/4 NPTF QRC Jacking Probe (Poppet Type)
	QJM-NTF-0606 Ball	3/8 NPTF QRC Jacking Probe (Ball Type)
	QJM-NTF-0606 Poppet	3/8 NPTF QRC Jacking Probe (Poppet Type)

VALVES		
HIGH PRESSURE 2 WAY		
	PART NUMBER	DESCRIPTION
	BVB-04	1/4 BSPP 2 Way Ball Valve
	BVB-06	3/8 BSPP 2 Way Ball Valve
	BVB-08	1/2 BSPP 2 Way Ball Valve
	BVB-12	3/4 BSPP 2 Way Ball Valve
	BVB-16	1-0 BSPP 2 Way Ball Valve
	BVB-20	1-1/4 BSPP 2 Way Ball Valve
	BVB-24	1-1/2 BSPP 2 Way Ball Valve
	BVB-32	2-0 BSPP 2 Way Ball Valve
VALVES		
HIGH PRESSURE 3 WAY L-PORT		
	PART NUMBER	DESCRIPTION
	BVB-3W-04	1/4 BSPP 3 Way L-Port Ball Valve
	BVB-3W-06	3/8 BSPP 3 Way L-Port Ball Valve
	BVB-3W-08	1/2 BSPP 3 Way L-Port Ball Valve
	BVB-3W-12	3/4 BSPP 3 Way L-Port Ball Valve
	BVB-3W-16	1-0 BSPP 3 Way L-Port Ball Valve
	BVB-3W-20	1-1/4 BSPP 3 Way L-Port Ball Valve
	BVB-3W-24	1-1/2 BSPP 3 Way L-Port Ball Valve
	BVB-3W-32	2-0 BSPP 3 Way L-Port Ball Valve
VALVES		
HYDRAULIC CHECK VALVE		
	PART NUMBER	DESCRIPTION
	CHQ-BPF-04	1/4 BSPPF 0.35 bar Check Valve
	CHQ-BPF-06	3/8 BSPPF 0.35 bar Check Valve
	CHQ-BPF-08	1/2 BSPPF 0.35 bar Check Valve
	CHQ-BPF-12	3/4 BSPPF 0.35 bar Check Valve
	CHQ-BPF-16	1-0 BSPPF 0.35 bar Check Valve
	CHQ-BPF-20	1-1/4BSPPF 0.35 bar CheckValve
	CHQ-BPF-24	1-1/2BSPPF 0.5 bar CheckValve
	CHQ-BPF-32	2-0 BSPP Check Valve



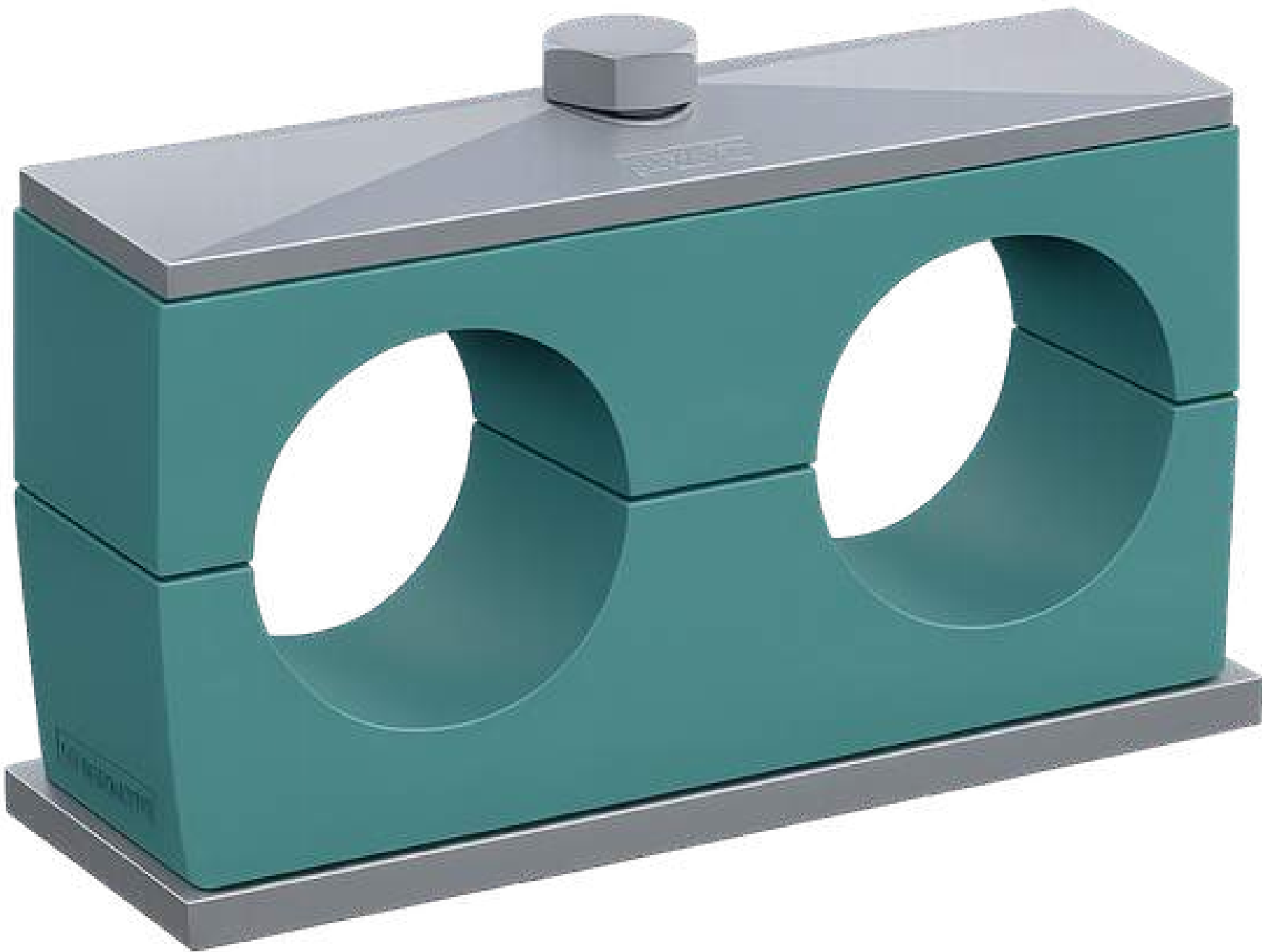
HOSE PROTECTION		
SPIRAL GUARD		
PART NUMBER	DESCRIPTION	QTY (M)
SGX12	12mm Plastic Hose Wrap	50
SGX16	16mm Plastic Hose Wrap	30
SGX20	20mm Plastic Hose Wrap	20
SGX25	25mm Plastic Hose Wrap	20
SGX32	32mm Plastic Hose Wrap	20
SGX40	40mm Plastic Hose Wrap	20
SGX50	50mm Plastic Hose Wrap	20
SGX63	63mm Plastic Hose Wrap	20
SGX75	75mm Plastic Hose Wrap	20
SGX90	90mm Plastic Hose Wrap	20
SGX110	110mm Plastic Hose Wrap	20



HOSE PROTECTION		
BURST SLEEVE		
PART NUMBER	DESCRIPTION	QTY (M)
HBP-018	18mm Kevlar Burst Sleeve	100
HBP-023	23mm Kevlar Burst Sleeve	100
HBP-029	29mm Kevlar Burst Sleeve	100
HBP-031	31mm Kevlar Burst Sleeve	100
HBP-036	36mm Kevlar Burst Sleeve	100
HBP-040	40mm Kevlar Burst Sleeve	100
HBP-045	45mm Kevlar Burst Sleeve	100
HBP-056	56mm Kevlar Burst Sleeve	100
HBP-063	63mm Kevlar Burst Sleeve	100
HBP-071	71mm Kevlar Burst Sleeve	100
HBP-093	93mm Kevlar Burst Sleeve	100
HBP-110	110mm Kevlar Burst Sleeve	100
HBP-180	180mm Kevlar Burst Sleeve	100



HYDRAULIC ACCESSORIES	
PIPE CLAMPS - SINGLE	
PART NUMBER	DESCRIPTION
PCS-6.4	6.4mm Pipe Clamp Single
PCS-08	8mm Pipe Clamp Single
PCS-10	10mm Pipe Clamp Single
PCS-12.7	12.7mm Pipe Clamp Single
PCS-14	14mm Pipe Clamp Single - To suit R2SC-04
PCS-15	15mm Pipe Clamp Single - To suit R2HT-04
PCS-16	16mm Pipe Clamp Single
PCS-18	18mm Pipe Clamp Single - To suit R2SC-06 & R2HT-06
PCS-20	20mm Pipe Clamp Single
PCS-21.3	21.3mm Pipe Clamp Single -To suit R2SC-08 & R2HT-08
PCS-25	25mm Pipe Clamp Single - To suit R2SC-10 & R2HT-10
PCS-29	29mm Pipe Clamp Single - To suit R2SC-12 & R2HT-12
PCS-33	33mm Pipe Clamp Single
PCS-36	36mm Pipe Clamp Single - To suit R2SC-16
PCS-38	38mm Pipe Clamp Single - To suit R2HT-16
PCS-42	42mm Pipe Clamp Single
PCS-44.5	44.5mm Pipe Clamp Single
PCS-47.6	47.6mm Pipe Clamp Single
PCS-50.8	50.8mm Pipe Clamp Single



HYDRAULIC ACCESSORIES	
PIPE CLAMPS - DOUBLE	
PART NUMBER	DESCRIPTION
PCD-6.4	6.4mm Pipe Clamp Double
PCD-08	8mm Pipe Clamp Double
PCD-10	10mm Pipe Clamp Double
PCD-12.7	12.7mm Pipe Clamp Double
PCD-14	14mm Pipe Clamp Double - To suit R2SC-04
PCD-15	15mm Pipe Clamp Double - To suit R2HT-04
PCD-16	16mm Pipe Clamp Double
PCD-18	18mm Pipe Clamp Double - To suit R2SC-06 & R2HT-06
PCD-20	20mm Pipe Clamp Double
PCD-21.3	21.3mm Pipe Clamp Double -To suit R2SC-08 & R2HT-08
PCD-25	25mm Pipe Clamp Double - To suit R2SC-10 & R2HT-10
PCD-29	29mm Pipe Clamp Double - To suit R2SC-12 & R2HT-12
PCD-33	33MM Pipe Clamp Double
PCD-36	36mm Pipe Clamp Double - To suit R2SC-16
PCD-38	38mm Pipe Clamp Double - To suit R2HT-16
PCD-42	42mm Pipe Clamp Double
PCD-44.5	44.5mm Pipe Clamp Double
PCD-47.6	47.6mm Pipe Clamp Double
PCD-50.8	50.8mm Pipe Clamp Double



GUAGES	
63MM BOTTOM ENTRY	
PART NUMBER	DESCRIPTION
PG63-V0-B	-1/+0Bar (-14.5PSI) 63mm Vacuum Gauge - Bottom Entry
PG63-V3-B	-1/+3Bar (-14.5/43PSI) 63mm Vacuum/Pressure Gauge - Bottom Entry
PG63-6B-B	0-6Bar (87PSI) 63mm Pressure Gauge - Bottom Entry
PG63-10B-B	0-10Bar (145PSI) 63mm Pressure Gauge - Bottom Entry
PG63-16B-B	0-16Bar (232PSI) 63mm Pressure Gauge - Bottom Entry
PG63-25B-B	0-25Bar (362PSI) 63mm Pressure Gauge - Bottom Entry
PG63-40B-B	0-40Bar (580PSI) 63mm Pressure Gauge - Bottom Entry
PG63-60B-B	0-60Bar (870PSI) 63mm Pressure Gauge - Bottom Entry
PG63-100B-B	0-100Bar (1450PSI) 63mm Pressure Gauge - Bottom Entry
PG63-160B-B	0-160Bar (2320PSI) 63mm Pressure Gauge - Bottom Entry
PG63-250B-B	0-250Bar (3625PSI) 63mm Pressure Gauge - Bottom Entry
PG63-315B-B	0-315Bar (4568PSI) 63mm Pressure Gauge - Bottom Entry
PG63-400B-B	0-400Bar (5800PSI) 63mm Pressure Gauge - Bottom Entry
PG63-500B-B	0-500Bar (7250PSI) 63mm Pressure Gauge - Bottom Entry
PG63-600B-B	0-600Bar (8702PSI) 63mm Pressure Gauge - Bottom Entry



GUAGES	
63MM REAR ENTRY	
PART NUMBER	DESCRIPTION
PG63-V0-R	-1/+0Bar (-14.5PSI) 63mm Vacuum Gauge - Rear Entry
PG63-V3-R	-1/+3Bar (-14.5/43PSI) 63mm Vacuum/Pressure Gauge - Rear Entry
PG63-6B-R	0-6Bar (87PSI) 63mm Pressure Gauge - Rear Entry
PG63-10B-R	0-10Bar (145PSI) 63mm Pressure Gauge - Rear Entry
PG63-16B-R	0-16Bar (232PSI) 63mm Pressure Gauge - Rear Entry
PG63-25B-R	0-25Bar (362PSI) 63mm Pressure Gauge - Rear Entry
PG63-40B-R	0-40Bar (580PSI) 63mm Pressure Gauge - Rear Entry
PG63-60B-R	0-60Bar (870PSI) 63mm Pressure Gauge - Rear Entry
PG63-100B-R	0-100Bar (1450PSI) 63mm Pressure Gauge - Rear Entry
PG63-160B-R	0-160Bar (2320PSI) 63mm Pressure Gauge - Rear Entry
PG63-250B-R	0-250Bar (3625PSI) 63mm Pressure Gauge - Rear Entry
PG63-315B-R	0-315Bar (4568PSI) 63mm Pressure Gauge - Rear Entry
PG63-400B-R	0-400Bar (5800PSI) 63mm Pressure Gauge - Rear Entry
PG63-500B-R	0-500Bar (7250PSI) 63mm Pressure Gauge - Rear Entry
PG63-600B-R	0-600Bar (8702PSI) 63mm Pressure Gauge - Rear Entry



GUAGES	
GUAGE ACCESSORIES	
PART NUMBER	DESCRIPTION
PG63-BRACKET	63mm Gauge Bracket
PG63-PB	63mm Guage Protective Boot
PG63-PM	63mm Gauge Panel Mount
FT299/44	Pressure Gauge Swiv Adapt x 1/4" BSPTM



TEST FITTINGS	
TEST 20 ADAPTORS	
PART NUMBER	DESCRIPTION
SMK20G1/8PC	Test 20 (M16×2) hydraulic test point x 1/8" BSPP male
SMK20G1/4PC	Test 20 (M16×2) hydraulic test point x 1/4" BSPP male
SMK20G3/8PC	Test 20 (M16×2) hydraulic test point x 3/8" BSPP male
SMK20G1/2PC	Test 20 (M16×2) hydraulic test point x 1/2" BSPP male
SMK20R1/8KPD	Test 20 (M16×2) hydraulic test point x 1/8" BSPT male
SMK201/4KPD	Test 20 (M16×2) hydraulic test point x 1/4" BSPT male
SMK2012LPK	Test 20 (M16×2) hydraulic test point x M18 x 1.5 female (12L metric)
SMK2015LPK	Test 20 (M16×2) hydraulic test point x M22 x 1.5 female (15L metric)
SMK20JIC7/16	Test 20 (M16×2) hydraulic test point x 7/16" JIC female (UNF 7/16-20)
SMK20JIC9/16	Test 20 (M16×2) hydraulic test point x 9/16" JIC female (UNF 9/16-18)
SMK20JIC3/4	Test 20 (M16×2) hydraulic test point x 3/4" JIC female (UNF 3/4-16)
SMK207/16UNFPE	Test 20 (M16×2) hydraulic test point x 7/16"-20 UNF male
SMK201/2UNFPE	Test 20 (M16×2) hydraulic test point x 1/2"-20 UNF male
SMK209/16UNFPE	Test 20 (M16×2) hydraulic test point x 9/16"-18 UNF male
SMK20M12-15PC	Test 20 (M16×2) hydraulic test point x M12 x 1.5 metric male
SMK20M14-15PC	Test 20 (M16×2) hydraulic test point x M14 x 1.5 metric male
SMK20M16-15PC	Test 20 (M16×2) hydraulic test point x M16 x 1.5 metric male



MH-XZTK-70P		
Pressure Guage		QTY
Digital pressure guage: Ø80mm ~ 700BAR/1000PSI/70MPa - BSP with protector		2
Digital pressure guage: Ø80mm ~ 160BAR/2300PSI/16MPa - BSP with protector		1
Test Hose Assembly		QTY
Test Hose Length: 1.5m/5ft		2
Test Hose Length: 3m/10ft		1
Test Coupling		QTY
1	1/8" BSPP	2
2	1/4" BSPP	2
3	3/8" BSP	1
4	M8 x 1.0	1
5	M10 x 1.0	1
6	M10 x 1.25	1
7	M12 x 1.5	1
8	M14 x 1.5	1
9	M16 x 1.5	1
10	5/16-20 UNF	1
11	7/16-20 UNF	1
12	1/2-20 UNF	1
13	9/16-18 UNF	1
14	1/8" BSPT	1
15	1/4" BSPT	1
16	1/8" NPT	1
17	1/4" NPT	1
18	7/16 JIC	1
Quick Release Coupling		
B Quick Connect for Catepillar/case/john deere (1/8" BSP F)		2
C Quick Connect for Komatsu/Hitachi (1/4" BSP F)		2

HYDRAULIC EQUIPMENT



P16 HAND PUMP



The **MF-P16HP** is a hand-operated hydraulic crimping machine designed for workshop repairs and on-site use. It is user-friendly, lightweight, and compact, making it easy to transport and operate in any location.



TECHNICAL DATA	
Max crimping dia (mm)	10-45
Max crimping dia (Inches)	0.39-1.77
Max crimping force (kN)	955
Max crimping force (Tonnage)	95
Cycle time 10mm (s)	
Hose size ID (inches)	1
Die set series	P16
Max opening (mm)	(+) 20
Max opening without dies (mm)	59
Master die D / L (mm)	39 / 64
Master die D / L (inches)	1.54 / 2.52
Motor power	Hand Operated
DIMENSIONS (L x W x H)	
P16HP (mm)	330 x 450 x 291
P16HP (Inch)	13 x 17.7 x 11.5
Package (mm)	475 x 460 x 410
Package (Inch)	18.7 x 16.9 x 16.1
WEIGHT (KG)	
N.W	26
G.W	34

P16 DIES			
DIE SET NO.	CRIMPING RANGE	I.D (mm)	L (mm)
P16/06*	6.0 - 8.0	6	55
P16/08*	8.0 - 10.0	8	55
P16/10*	10.0 - 12.0	10	55
P16/12*	12.0 - 14.0	12	55
P16/14	14.0 - 16.0	14	55
P16/16	16.0 - 19.0	16	55
P16/19	19.0 - 23.0	19	55
P16/23	23.0 - 27.0	23	55
P16/27	27.0 - 31.0	27	65
P16/31	31.0 - 38.0	31	65
*: Non Standard Die			

MH16AP CRIMPER



The **P16AP** is an air-operated hydraulic crimping machine designed for repair workshops and field service applications. Easy to use, lightweight, and compact, it can be conveniently transported and operated in any location.



TECHNICAL DATA	
Max crimping dia (mm)	10-45
Max crimping dia (Inches)	0.39-1.77
Max crimping force (kN)	955
Max crimping force (Tonnage)	95
Cycle time 10mm (s)	
Hose size ID (inches)	1
Die set series	P16
Max opening (mm)	(+) 20
Max opening without dies (mm)	59
Master die D / L (mm)	39 / 64
Master die D / L (inches)	1.54 / 2.52
Motor power	Air Pressure
DIMENSIONS (L x W x H)	
P16HP (mm)	440 x 400 x 300
P16HP (Inch)	17.3 x 15.7 x 11.8
Package (mm)	600 x 480 x 450
Package (Inch)	23.6 x 18.9 x 17.7
WEIGHT (KG)	
N.W	30
G.W	42

P16 DIES			
DIE SET NO.	CRIMPING RANGE	I.D (mm)	L (mm)
P16/06*	6.0 - 8.0	6	55
P16/08*	8.0 - 10.0	8	55
P16/10*	10.0 - 12.0	10	55
P16/12*	12.0 - 14.0	12	55
P16/14	14.0 - 16.0	14	55
P16/16	16.0 - 19.0	16	55
P16/19	19.0 - 23.0	19	55
P16/23	23.0 - 27.0	23	55
P16/27	27.0 - 31.0	27	65
P16/31	31.0 - 38.0	31	65
*: Non Standard Die			

P32D CRIMPER

The **MF-P32D** hose crimping machine is engineered for efficient crimping of hoses up to 2" diameter. Designed for workshop use, it features a user-friendly CNC control system for fast, accurate, and reliable operation.

CNC system features

- Setup Max. Opening
- Correction/Offset
- Pressure Maintaining Time Delay Function
- Speed Change
- Quality Report
- Pressure Control
- Step Crimping
- Save Crimping Data
- Counting
- Setup Special Die

control

- Semi-Automatic
- Automatic
- CNC

Standard features

- Quick Change Tool
- Die Racks
- Foot Pedal

TECHNICAL DATA	
Max crimping dia (mm)	10-87
Max crimping dia (Inches)	0.39-3.42
Max crimping force (kN)	2000
Max crimping force (Tonnage)	200
Cycle time 10mm (s)	3.3 / 5.5
Hose size ID (inches)	2
Die set series	P32
Max opening (mm)	(+) 33
Max opening without dies (mm)	132
Master die D/L (mm)	99 / 80
Master die D/L (inches)	3.9 / 3.15
Motor Tri/Mono (kW/HP)	3.7 / 5 - 4 / 5.3
Oil tank volume	42
Crimping / hour	700 / 850
Motor voltage (V) Tri	200 / 220 / 380 / 440
Motor voltage (V) Mono	220 / 230 / 240
DIMENSIONS (L x W x H)	
Machine (mm)	650 x 470 x 1400
Machine (Inch)	22.6 x 18.5 x 55.1
Package (mm)	880 x 880 x 890
Package (Inch)	34.6 x 34.6 x 35
WEIGHT (KG)	
N.W	305
G.W	335

P32 DIES			
DIE SET NO.	CRIMPING RANGE	I.D (mm)	L (mm)
P32/06*	6.0 - 8.0	6	55
P32/08*	8.0 - 10.0	8	55
P32/10*	10.0 - 12.0	10	55
P32/12*	12.0 - 14.0	12	55
P32/14	14.0 - 16.0	14	55
P32/16	16.0 - 19.0	16	55
P32/19	19.0 - 23.0	19	55
P32/22	22.0 - 26.0	22	70
P32/26	26.0 - 30.0	26	70
P32/30	30.0 - 34.0	30	70
P32/34	34.0 - 39.0	34	75
P32/39	39.0 - 45.0	39	75
P32/45	45.0 - 51.0	45	90
P32/51	51.0 - 57.0	51	90
P32/57	57.0 - 63.0	57	100
P32/63	63.0 - 69.0	63	100
P32/69	69.0 - 75.0	69	100
P32/74*	74.0 - 80.0	74	100
P32/78*	78.0 - 87.0	78	100
*: Non Standard Die			



P32CSD MOBILE CRIMPER

24V & 12V

The **MF-P32CSD** hose crimping machine is designed for fast and efficient crimping of up to 2" diameter hydraulic hoses. Compact and easy to operate, it is ideal for car service and repair applications. Powered by a 12V or 24V battery system, it offers reliable performance and portability for field or workshop use (12V NON DIGITAL).

CNC system features

- Setup Max. Opening
- Correction/Offset
- Pressure Maintaining Time Delay Function
- Speed Change
- Quality Report
- Pressure Control
- Step Crimping
- Save Crimping Data
- Counting
- Setup Special Die

TECHNICAL DATA	
Max crimping dia (mm)	10-87
Max crimping dia (Inches)	0.39-3.42
Max crimping force (kN)	2000
Max crimping force (Tonnage)	200
Cycle time 10mm (s)	3.3 / 5.5
Hose size ID (inches)	2
Die set series	P32
Max opening (mm)	(+) 33
Max opening without dies (mm)	132
Master die D/L (mm)	99/80
Master die D/L (inches)	3.9 / 3.15
Motor (kW) 12v / 24v	1.6 / 2.25
Motor (kW) 12v / 24v	2.1 / 3.05
Oil tank volume (L)	4
Crimping / Hour	100
DIMENSIONS (L x W x H)	
P16HP (mm)	440 x 400 x 300
P16HP (Inch)	17.3 x 15.7 x 11.8
Package (mm)	600 x 480 x 450
Package (Inch)	23.6 x 18.9 x 17.7
WEIGHT (KG)	
P16HP N.W	30
P16HP G.W	42



P32 DIES			
DIE SET NO.	CRIMPING RANGE	I.D (mm)	L (mm)
P32/06*	6.0 - 8.0	6	55
P32/08*	8.0 - 10.0	8	55
P32/10*	10.0 - 12.0	10	55
P32/12*	12.0 - 14.0	12	55
P32/14*	14.0 - 16.0	14	55
P32/16	16.0 - 19.0	16	55
P32/19	19.0 - 23.0	19	55
P32/22	22.0 - 26.0	22	70
P32/26	26.0 - 30.0	26	70
P32/30	30.0 - 34.0	30	70
P32/34	34.0 - 39.0	34	75
P32/39	39.0 - 45.0	39	75
P32/45	45.0 - 51.0	45	90
P32/51	51.0 - 57.0	51	90
P32/57	57.0 - 63.0	57	100
P32/63	63.0 - 69.0	63	100
P32/69	69.0 - 75.0	69	100
P32/74*	74.0 - 80.0	74	100
P32/78*	78.0 - 87.0	78	100
*: Non Standard Die			

MH120L CRIMPER

The **MH120L** is suitable for small batch production and high-efficiency operation, with the capability to crimp up to 2" R13/R15 or 3" 2SP hoses. Designed with a compact, ergonomic structure to maximise operator safety, strength, and ease of use.

CNC system features

- Setup Max. Opening
- Correction/Offset
- Pressure Maintaining Time Delay Function
- Speed Change
- Quality Report
- Pressure Control
- Step Crimping
- Save Crimping Data
- Counting
- Setup Special Die

control

- Semi-Automatic
- Automatic
- CNC

Standard features

- Quick Change Tool
- Mirror
- Electric Backstop Device
- Die Racks
- Foot Pedal



TECHNICAL DATA	
Max crimping dia (mm)	118
Max crimping dia (Inches)	4.65
Max crimping force (kN)	2450
Max crimping force (Tonnage)	245
Cycle time 10mm (s)	1.8
Hose size ID (inches)	2"
Die set series	P20 & YB120L
Max opening (mm)	(+) 52
Max opening without dies (mm)	170
Master die D/L (mm)	118 / 97
Master die D/L (inches)	4.65 / 3.82
Motor Power (kW/HP)	4 / 5.44
Oil tank volume	70
Motor voltage (V) Tri	200/220/380/400/440
DIMENSIONS (L x W x H)	
Machine (mm)	1100 x 830 x 1600
Machine (Inch)	43.3 x 32.7 x 63.0
Package (mm)	1025 x 1025 x 1740
Package (Inch)	40.4 x 40.4 x 68.5
WEIGHT (KG)	
N.W	790
G.W	840

P120 DIES			
DIE SET NO.	CRIMPING RANGE	I.D (mm)	L (mm)
P20/06*	6.0 - 8.0	6	25
P20/08*	8.0 - 10.0	8	25
P20/10*	10.0 - 12.0	10	55
P20/12*	12.0 - 14.0	12	55
P20/14	14.0 - 16.0	14	55
P20/16	16.0 - 19.0	16	55
P20/19	19.0 - 23.0	19	55
P20/23	23.0 - 27.0	23	55
P20/27	27.0 - 31.0	27	70
P20/31	31.0 - 36.0	31	70
P20/36	36.0 - 41.0	36	75
P20/41	41.0 - 47.0	41	75
P20/47	47.0 - 52.0	47	85
P120L/52	52.0 - 57.0	52	100
P120L/57	57.0 - 63.0	57	100
P120L/63	63.0 - 69.0	63	115
P120L/69	69.0 - 74.0	69	115
P120L/74*	74.0 - 79.0	74	115
P120L/79*	79.0 - 84.0	79	115
P120L/84*	84.0 - 92.0	84	115
P120L/92*	92.0 - 100.0	92	115
P120L/100*	100	100	115
*: Non Standard Die			

mh140 crimper

The **MH140** crimping machine has been designed to crimp up to 2 1/2" 4-wire spiral hoses or 4" industrial hose. Max opening 222mm. MH140 die system with adaptor dies suitable for larger, medium and even small sized fittings

CNC system features

- Setup Max. Opening
- Correction/Offset
- Pressure Maintaining Time Delay Function
- Speed Change
- Quality Report
- Pressure Control
- Step Crimping
- Save Crimping Data
- Counting
- Setup Special Die

control

- Semi-Automatic
- Automatic
- CNC

Standard features

- Quick Change Tool
- Mirror
- Electric Backstop Device
- Die Racks
- Foot Pedal

TECHNICAL DATA	
Max crimping dia (mm)	6-140
Max crimping dia (Inches)	0.24-5.51
Max crimping force (kN)	3200
Max crimping force (Tonnage)	320
Cycle time 10mm (s)	1.5
Hose size ID (inches) Hydraulic / Industrial	2 1/2" / 4"
Die set series	P32 & P140
Max opening (mm)	(+) 82
Max opening without dies (mm)	222
Master die D/L (mm)	140 / 97
Master die D/L (inches)	5.51 / 3.82
Motor Power (kW/HP)	4 / 5.44
Oil tank volume	120
Crimping / hour	2400
Motor voltage (V) Tri	200/220/380/400/440
DIMENSIONS (L x W x H)	
Machine (mm)	1050 x 810 x 1800
Machine (Inch)	41.3 x 31.9 x 70.9
Package (mm)	1105 x 945 x 1890
Package (Inch)	43.5 x 37.2 x 74.4
Station (mm)	870 x 650 x 1060
Station (Inch)	34.3 x 25.6 x 41.7
Package (mm)	955 x 725 x 1340
Package (Inch)	37.6 x 28.5 x 52.8
WEIGHT (KG)	
Machine N.W	980
Machine G.W	1035
Station N.W	250
Station G.W	300

P120 DIES			
DIE SET NO.	CRIMPING RANGE	I.D (mm)	L (mm)
P32/06*	6.0 - 8.0	6	55
P32/08*	8.0 - 10.0	8	55
P32/10*	10.0 - 12.0	10	55
P32/12*	12.0 - 14.0	12	55
P32/14	14.0 - 16.0	14	55
P32/16	16.0 - 19.0	16	55
P32/19	19.0 - 23.0	19	55
P32/22	22.0 - 26.0	22	70
P32/26	26.0 - 30.0	26	70
P32/30	30.0 - 34.0	30	70
P32/34	34.0 - 39.0	34	75
P32/39	39.0 - 45.0	39	75
P32/45	45.0 - 51.0	45	90
P32/51	51.0 - 57.0	51	90
P32/57	57.0 - 63.0	57	100
P32/63	63.0 - 69.0	63	100
P32/69	69.0 - 74.0	69	100
P32/74*	74.0 - 78.0	74	100
P32/78*	78.0 - 84.0	78	100
P140/84*	84.0 - 92.0	84	110
P140/92*	92.0 - 100.0	92	110
P140/100*	100 - 108.0	100	110
P140/108*	108.0 - 116.0	108	110
P140/116*	116.0 - 124.0	116	110
P140/124*	124.0 - 132.0	124	110
P140/132*	132.0 - 140.0	132	110
*: Non Standard Die			



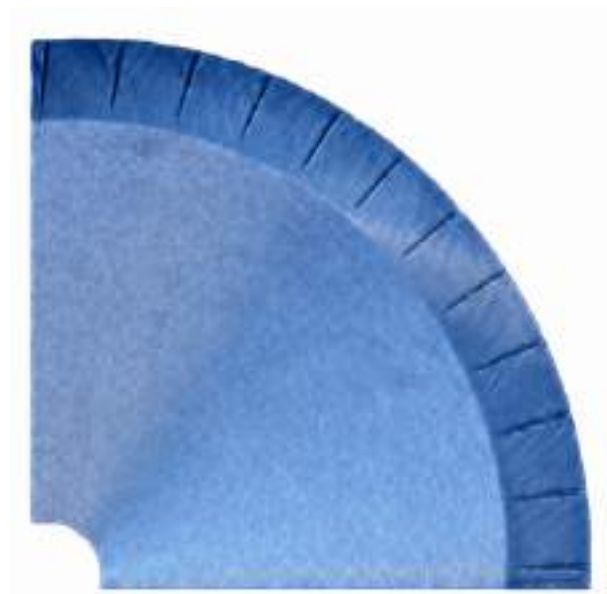
C300 CUT OFF SAW



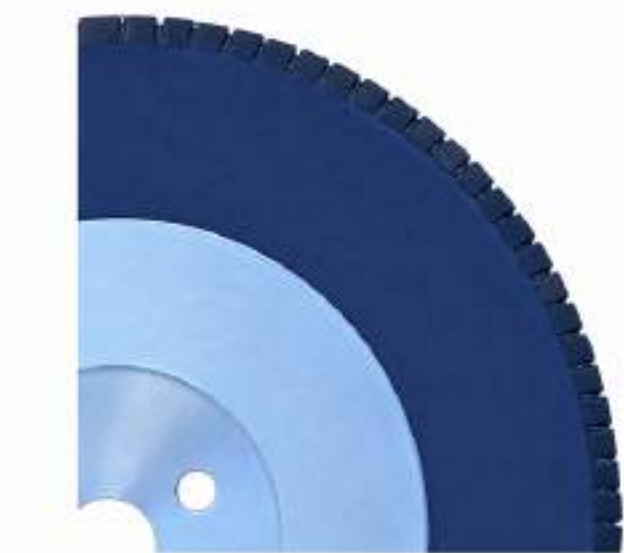
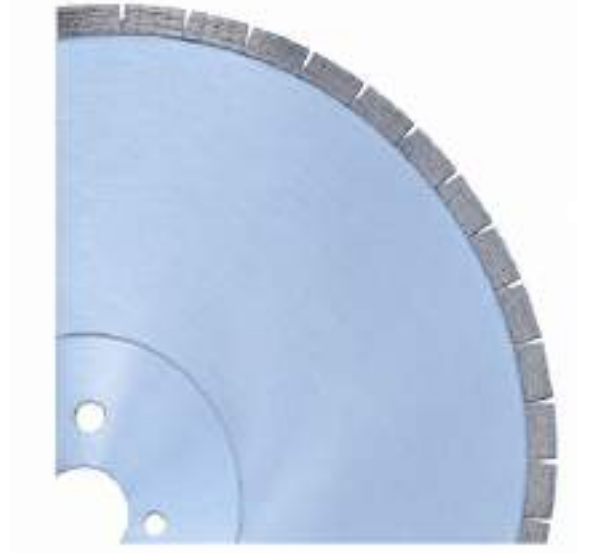
The **MH-C300** Hose Cut-Off Saw is designed to cut hydraulic hose up to 2” 4-wire spiral. Built for workshop use, it features a simple manual operation and user-friendly design for fast, efficient cutting.

TECHNICAL DATA	
Max. hose size (Inch)	2"
Diameter (Blade) ext (mm)	300*4*32
Air Power	
Motor (kW) Tri / Mono	4 / 2.2
Motor (HP) Tri / Mono	5.3 / 2.99
Velocity 50hz (RPM)	2850
Velocity 60hz (RPM)	3370
Motor Voltage: Tri	220v / 380v
Motor Voltage: Mono	220v
DIMENSIONS (L x W x H)	
Machine (mm)	580 x 600 x 930
Machine (Inch)	22.8 x 23.6 x 36.6
Package (mm)	705 x 625 x 740
Package (Inch)	27.8 x 24.6 x 29.1
WEIGHT (KG)	
N.W	78
G.W	110

STANDARD BLADE
Slotted Blade (Chinese)



OPTIONAL BLADES	
Slotted Blade (Spanish)	Slotted Blade (High Speed Steel)



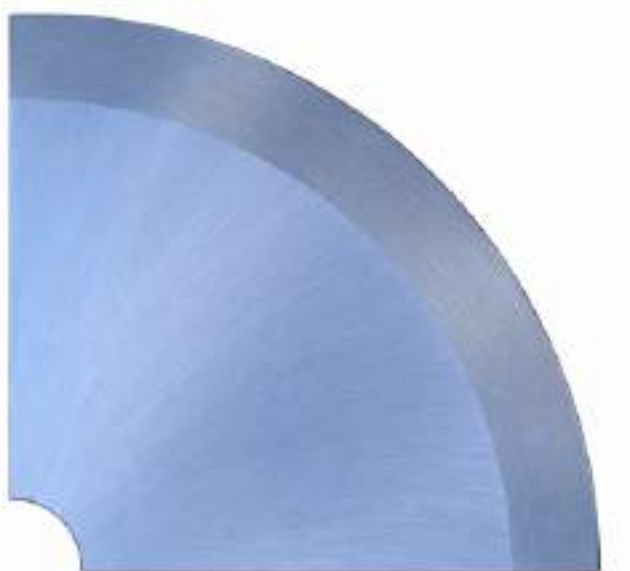
C250CS CUT OFF SAW



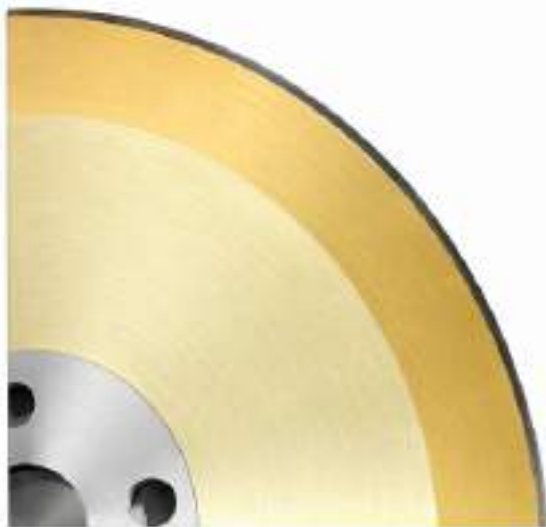
The **MH-C250CS** Hose Cut-Off saw has been designed to cut up to 1" diameter 4-wire spiral hose. CS models have been designed for service tuck use. Both bettery powred in 12v or 24v options.

TECHNICAL DATA	
Max. hose size (Inch)	1"
Diameter (Blade) ext (mm)	250*3.5*32
Air Power	
Motor (kW) DC12v	1.8
Motor (HP) DC24v	2.2
Velocity (RPM)	2560
DIMENSIONS (L x W x H)	
Machine (mm)	500 x 500 x 400
Machine (Inch)	19.7 x 19.7 x 15.7
Package (mm)	625 x 505 x 510
Package (Inch)	24.6 x 19.9 x 20.1
WEIGHT (KG)	
N.W	26
G.W	29

STANDARD BLADE
Slotted Blade (Chinese)



OPTIONAL BLADES	
Slotted Blade (Spanish)	Slotted Blade (High Speed Steel)





MASTERHOSE CRIMP-SPEC CHART

Hose	Fitting	-4	-6	-8	-10	-12	-16	-20	-24	-32
R1S	GM Series	17.0±0.3	20.7±0.3	24.2±0.3	26.1±0.3	31.1±0.3	40.0±0.3	50.1±0.3	56.6±0.3	68.8±0.3
R2SC	GM Series	16.8±0.3	20.8±0.3	24.1±0.3	26.6±0.3	31.5±0.3	39.6±0.3	48.9±0.3	60.6±0.3	72.3±0.3
R2HT	GM Series	17.8±0.3	21.6±0.3	25.0±0.3	27.2±0.3	32.3±0.3	41.1±0.3	52.8±0.3	60.6±0.3	72.3±0.3
R4K	GM Series		22.4±0.3	25.4±0.3	28.7±0.3	32.4±0.3	41.2±0.3	50.9±0.3	57.6±0.3	
R6K	MH Series					35.0±0.3	43.8±0.3	52.8±0.3	60.6±0.3	
HWG	GM Series	17.8±0.3	21.6±0.3							





MASTERHOSE AUSTRALIA

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