KURT HYDRAULICS

KURT AC REFRIGERANT PRODUCTS CATALOG

- Standard and Reduced Barrier Hoses
- Standard Barrier Hose Fittings
- Reduced Barrier Hose Fittings
- KurtClip Fittings

Complete Hydraulic Solutions

Experience matters! Kurt understands our customer's needs. We carry the right products to serve you. With over 40 years of experience manufacturing couplings in the United States, we know what products work. We uphold the highest standards for everything we produce, earning our reputation for exceptional service and quality.

2,895
Couplings

U.S.A.
Quality

200+
Hose Types

Massive Inventory, U.S. Warehouse

Our complete lineup of hoses and couplings is produced with the quality and reliability you expect from a U.S. company. With a centrally located Minnesota warehouse, we keep our North American distributors stocked, delivering the service you need.

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Kurt proudly designs and manufactures our couplings in the United States. All our products undergo rigorous testing to meet Kurt Hydraulics' standards of performance and durability.

Kurt is a 100% employee-owned, multi-division, high-precision manufacturing company supplying products and services to a global marketplace.

The Kurt Difference

KURT HYDRAULICS KURT MACHINING KURT DIE CASTING KURT WORKHOLDING

What makes Kurt different? It starts with what we put into our products, passion that leads to profound pride, and the endless desire to deliver perfection on time, every time. We know you deserve and demand our very best. That's why we'll never settle for good enough.

ABOUT KURT

- More than 75 years of manufacturing expertise
- Over 400 employees across 4 divisions
- 100% employee-owned
- 4 locations in Minnesota and Nebraska
- Over 400,000 square feet of manufacturing space
- Creators of the original Kurt Vise

KURT'S CORE FOUR // Four ways we lead the way

Stability

Since 1946, we've helped our clients exceed their own expectations by elevating ours.

Innovation

We stay on top of the latest trends with the fastest, most innovative machines and processes.

Precision

We're focused on creating painstakingly perfect products because our clients demand it.

Scale

No matter the volume or demand, Kurt is always there to deliver.

Kurt Hydraulics
A History of Excellence

1959-1967

Owned by Couplamatic, which was a manufacturer of swage couplings for 100R1 and 100R2 hose.

1968-1977

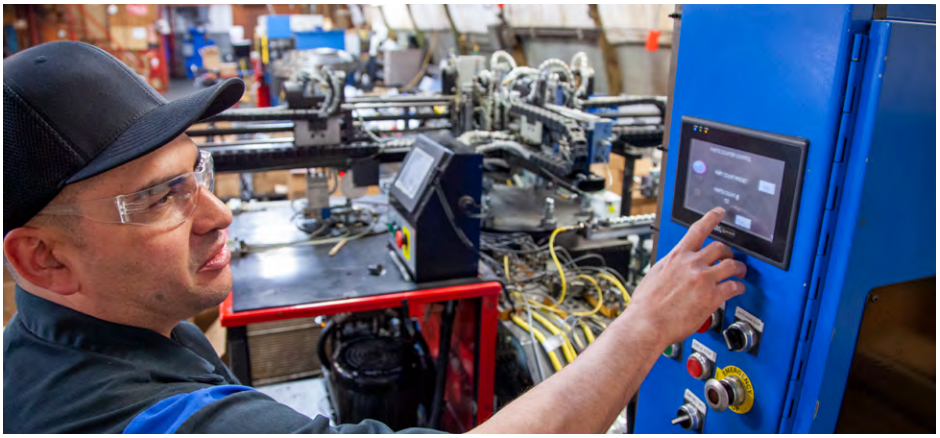
Purchased by Samuel Moore & Company, which controlled 80% of the market for bundled hose assemblies in the U.S. and began producing 100R7 couplings in 1968.

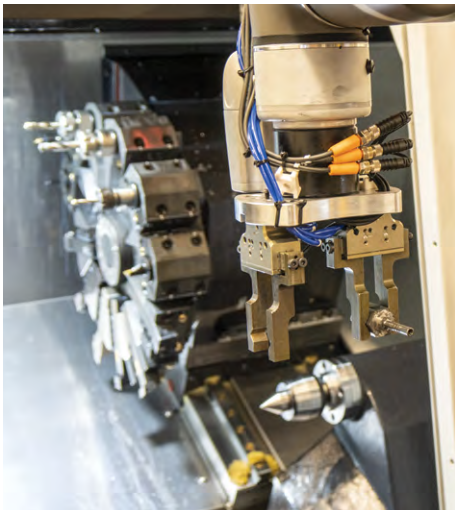
1978-1983

In 1978, Samuel Moore Company was sold to Eaton Corporation, which took over ownership of the Lyman Facility.

1984-Present

Kurt Manufacturing purchased the facility in Lyman in 1984 and continues to operate it today.

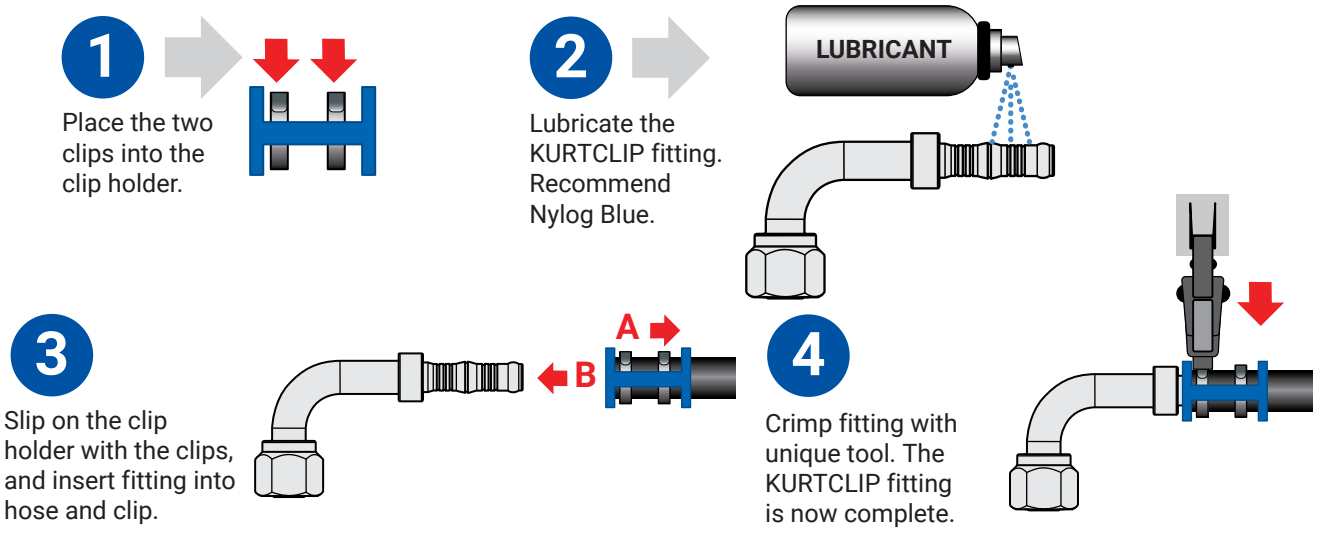




Kurt Hydraulics has been a U.S. manufacturer of hydraulic couplings and systems for over 40 years. We offer a full line of hydraulic couplings and a complete line of high-quality hydraulic hose—tested beyond SAE specifications. Kurt Hydraulics' hose and couplings are sold in North America through a trusted distributor network.

KurtClip hose fitting technology delivers a superior connection solution for multiple refrigerants such as: R134a, R404a, R410a, R457a, R513a, HF01234yf/yz and many other low temperature refrigerants.

- 75% Less permeation and moisture ingression than the presently available assembly solutions on the market.
- Quick assembly of host fittings with the break-through KurtClip technology.
- Color Coded Cages for each size



PART NUMBER	SIZE	DESCRIPTION
KC-06-8769	6	Yellow
KC-08-8769	8	Green
KC-10-8769	10	Blue
KC-12-8769	12	White
KC-14-8769	14	Silver
KC-16-8769	16	Black

PART NUMBER	SIZE	DESCRIPTION
KC-06-8768	6	Stainless Steel
KC-08-8768	8	Stainless Steel
KC-10-8768	10	Stainless Steel
KC-12-8768	12	Stainless Steel
KC-14-8768	14	Stainless Steel
KC-16-8768	16	Stainless Steel

PART NUMBER	SIZE	DESCRIPTION
KC-TOOL	All Sizes	Crimp Tool for KurtClip Clips above

Kurt Barrier Hoses

Kurt Hydraulics offers lines of standard and reduced barrier A/C hoses with couplings to match. When ordering hose, be sure to order the correct fitting series for the hose type. Kurt offers crimpable fittings for both hose type and quick-assembly KurtClip fittings for reduced barrier hose.

STANDARD BARRIER A/C HOSE

PART NUMBER	HOSE I.D. (IN.)	HOSE O.D. (IN.)	RATED W.P. (PSI)	MIN. BURST (PSI)	MIN. BEND (IN.)
BH-06	5/16	0.750	350	1,400	4.0
BH-08	13/32	0.910	350	1,400	4.7
BH-10	1/2	1.000	350	1,400	5.5
BH-12	5/8	1.130	350	1,400	6.5

REDUCED BARRIER A/C HOSE

PART NUMBER	HOSE I.D. (IN.)	HOSE O.D. (IN.)	RATED W.P. (PSI)	MIN. BURST (PSI)	MIN. BEND (IN.)
RBH-06	5/16	0.600	350	1,400	4.0
RBH-08	13/32	0.700	350	1,400	4.7
RBH-10	1/2	0.785	350	1,400	5.5
RBH-12	5/8	0.950	350	1,400	6.5

Standard Barrier vs Reduced Barrier Hoses and Fittings

Standard Barrier A/C Hose

Designed with a thicker inner barrier layer (typically nylon), standard barrier hose provides excellent resistance to refrigerant permeation—especially critical for systems using R-134a. It's highly durable and well-suited for heavy-duty or high-vibration applications, but comes with a larger outside diameter (OD) and reduced flexibility, which can make routing in tight spaces more challenging.

Reduced Barrier A/C Hose

Engineered with a thinner, more advanced barrier layer, reduced barrier hose delivers comparable permeation resistance while significantly improving flexibility and reducing overall hose OD. This makes installation easier in compact routing paths and tight engine compartments, while also contributing to weight savings—ideal for modern vehicle designs.

Bottom Line:

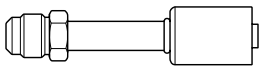
Choose standard barrier for maximum ruggedness in demanding environments; opt for reduced barrier when space constraints, ease of installation, and weight reduction are priorities.

Kurt Hydraulics AC fittings and hoses are validated to SAE J2064.

Standard Barrier Hose Fittings

STRAIGHT MALE FLARE

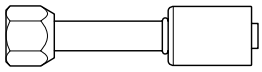
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD
BL06-06MS	6	6	5/16	5/8-18
BL08-08MS	8	8	13/32	3/4-16
BL10-10MS	10	10	1/2	7/8-14
BL12-12MS	12	12	5/8	1 1/16-14

STRAIGHT FEMALE FLARE

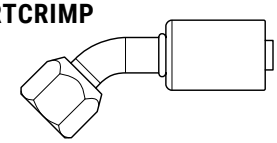
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD
BL06-06FSX	6	6	5/16	5/8-18
BL08-08FSX	8	8	13/32	3/4-16
BL10-10FSX	10	10	1/2	7/8-14
BL12-12FSX	12	12	5/8	1 1/16-14

45° FEMALE FLARE

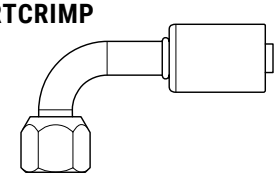
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD
BL08-08FSX45	8	8	13/32	3/4-16
BL10-10FSX45	10	10	1/2	7/8-14
BL12-12FSX45	12	12	5/8	1 1/16-14

90° FEMALE FLARE

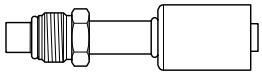
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD
BL06-06FSX90	6	6	5/16	5/8-18
BL08-08FSX90	8	8	13/32	3/4-16
BL10-10FSX90	10	10	1/2	7/8-14
BL12-12FSX90	12	12	5/8	1 1/16-14

STRAIGHT MALE O-RING, LONG PILOT

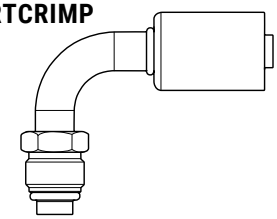
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD
BL-06-06TMS	6	6	5/16	5/8-18
BL-08-08TMS	8	8	13/32	3/4-18
BL-10-10TMS	10	10	1/2	7/8-18
BL-12-12TMS	12	12	5/8	1-1/16-16

90° MALE O-RING, LONG PILOT

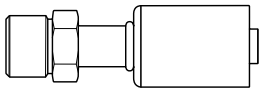
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD
BL-06-06TM90T	6	6	5/16	5/8-18
BL-08-08TM90T	8	8	13/32	3/4-18
BL-10-10TM90T	10	10	1/2	7/8-18
BL-12-12TM90T	12	12	5/8	1-1/16-16

STRAIGHT MALE INSERT O-RING

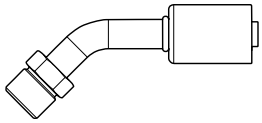
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD
BL-06-06MOR	6	6	5/16	5/8-18
BL-08-08MOR	8	8	13/32	3/4-16
BL-10-10MOR	10	10	1/2	7/8-14
BL-12-12MOR	12	12	5/8	1 1/16-14

45° MALE INSERT O-RING

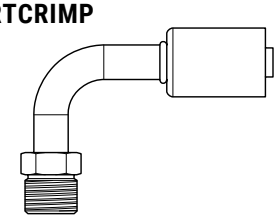
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD
BL-06-06MOR45	6	6	5/16	5/8-18
BL-08-08MOR45	8	8	13/32	3/4-16
BL-10-10MOR45	10	10	1/2	7/8-14
BL-12-12MOR45	12	12	5/8	1 1/16-14

90° MALE INSERT O-RING

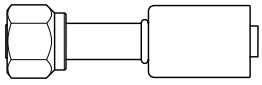
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD
BL-06-06MOR90	6	6	5/16	5/8-18
BL-08-08MOR90	8	8	13/32	3/4-16
BL-10-10MOR90	10	10	1/2	7/8-14
BL-12-12MOR90	12	12	5/8	1 1/16-14

STRAIGHT FEMALE O-RING LONG PILOT

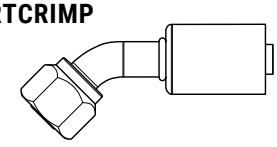
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD
BL06-06TFS	6	6	5/16	5/8-18
BL08-08TFS	8	8	13/32	3/4-16
BL10-10TFS	10	10	1/2	7/8-14
BL12-12TFS	12	12	5/8	1 1/16-14

45° FEMALE O-RING LONG PILOT

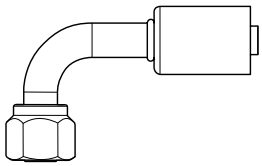
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD
BL06-06TF45T	6	6	5/16	5/8-18
BL08-08TF45T	8	8	13/32	3/4-16
BL10-10TF45T	10	10	1/2	7/8-14
BL12-12TF45T	12	12	5/8	1 1/16-14

90° FEMALE O-RING LONG PILOT

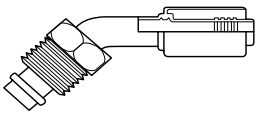
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD
BL06-06TF90T	6	6	5/16	5/8-18
BL08-08TF90T	8	8	13/32	3/4-16
BL10-10TF90T	10	10	1/2	7/8-14
BL12-12TF90T	12	12	5/8	1 1/16-14

45° MALE O-RING SWIVEL

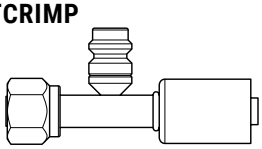
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD
BL-06-06TM45T	6	6	5/16	5/8 – 18
BL-08-08TM45T	8	8	13/32	3/4 – 18
BL-10-10TM45T	10	10	1/2	7/8 – 18
BL-12-12TM45T	12	12	5/8	1 1/16-16

STRAIGHT FEMALE O-RING LONG PILOT WITH R134A VALVE

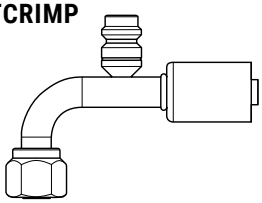
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD	PORT
BL06-06FTO-SP	6	6	5/16	5/8-18	16 (HP)
BL08-08FTO-SP	8	8	13/32	3/4-16	16 (HP)
BL10-10FTO-SP	10	10	1/2	7/8-14	13 (LP)
BL12-12FTO-SP	12	12	5/8	1 1/16-14	13 (LP)

90° FEMALE O-RING LONG PILOT WITH R134A VALVE

KURTCRIMP

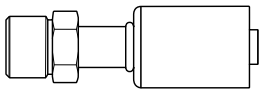


KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD	PORT
BL06-06F90TO-SP	6	6	5/16	5/8-18	16 (HP)
BL08-08F90TO-SP	8	8	13/32	3/4-16	16 (HP)
BL10-10F90TO-SP	10	10	1/2	7/8-14	13 (LP)
BL12-12F90TO-SP	12	12	5/8	1 1/16-14	13 (LP)

Reduced Barrier Hose Fittings

STRAIGHT MALE INSERT O-RING

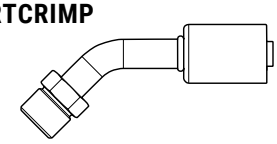
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD
BLR06-06MOR	6	6	5/16	5/8-18
BLR08-08MOR	8	8	13/32	3/4-16
BLR10-10MOR	10	10	1/2	7/8-14
BLR12-12MOR	12	12	5/8	1 1/16-14

45° MALE INSERT O-RING

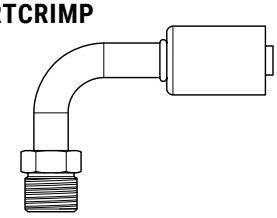
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD
BLR06-06MOR45	6	6	5/16	5/8-18
BLR08-08MOR45	8	8	13/32	3/4-16
BLR10-10MOR45	10	10	1/2	7/8-14
BLR12-12MOR45	12	12	5/8	1 1/16-14

90° MALE INSERT O-RING

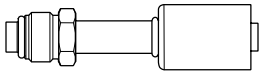
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD
BLR06-06MOR90	6	6	5/16	5/8-18
BLR08-08MOR90	8	8	13/32	3/4-16
BLR10-10MOR90	10	10	1/2	7/8-14
BLR12-12MOR90	12	12	5/8	1 1/16-14

STRAIGHT MALE O-RING SHORT PILOT

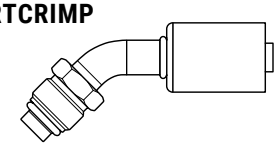
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD
BLR06-06TMS	6	6	5/16	5/8-18
BLR08-08TMS	8	8	13/32	3/4-18
BLR10-10TMS	10	10	1/2	7/8-18
BLR12-12TMS	12	12	5/8	1 1/16-16

45° MALE O-RING SHORT PILOT

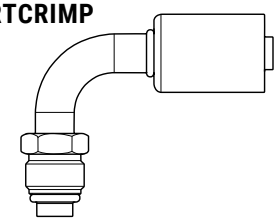
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD
BLR06-06TMS45	6	6	5/16	5/8-18
BLR08-08TMS45	8	8	13/32	3/4-18
BLR10-10TMS45	10	10	1/2	7/8-18
BLR12-12TMS45	12	12	5/8	1 1/16-16

90° MALE O-RING SHORT PILOT

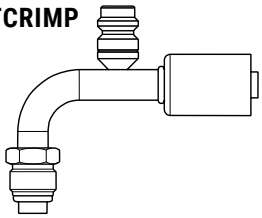
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD
BLR06-06TMS90	6	6	5/16	5/8-18
BLR08-08TMS90	8	8	13/32	3/4-18
BLR10-10TMS90	10	10	1/2	7/8-18
BLR12-12TMS90	12	12	5/8	1 1/16-16

90° MALE O-RING SHORT PILOT WITH R134A VALVE

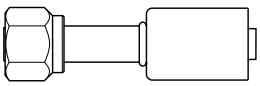
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD	PORT
BLR06-06F90TO-SP	6	6	5/16	5/8-18	16 (HP)
BLR08-08F90TO-SP	8	8	13/32	3/4-18	16 (HP)
BLR10-10F90TO-SP	10	10	1/2	7/8-18	13 (LP)
BLR12-12F90TO-SP	12	12	5/8	1 1/16-16	13 (LP)

STRAIGHT FEMALE O-RING LONG PILOT

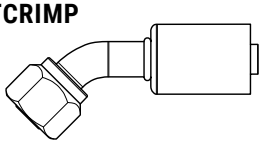
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD
BLR06-06TFS	6	6	5/16	5/8-18
BLR08-08TFS	8	8	13/32	3/4-16
BLR10-10TFS	10	10	1/2	7/8-14
BLR12-12TFS	12	12	5/8	1 1/16-14

45° FEMALE O-RING LONG PILOT

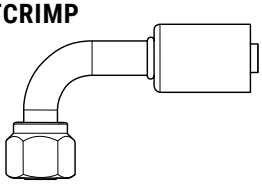
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD
BLR06-06TFS45T	6	6	5/16	5/8-18
BLR08-08TFS45T	8	8	13/32	3/4-16
BLR10-10TFS45T	10	10	1/2	7/8-14
BLR12-12TFS45T	12	12	5/8	1 1/16-14

90° FEMALE O-RING LONG PILOT

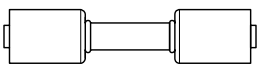
KURTCRIMP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD
BLR06-06TFS90T	6	6	5/16	5/8-18
BLR08-08TFS90T	8	8	13/32	3/4-16
BLR10-10TFS90T	10	10	1/2	7/8-14
BLR12-12TFS90T	12	12	5/8	1 1/16-14

IN-LINE SPLICER

KURTCRIMP

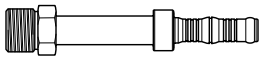


KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	RUN
BLR06-06RM	6	6	5/16	42
BLR06-08RM	6	8	13/32	42
BLR08-08RM	8	8	13/32	42
BLR08-10RM	8	10	1/2	42
BLR10-10RM	10	10	1/2	42
BLR10-12RM	10	12	5/8	42
BLR12-12RM	12	12	5/8	42

KurtClip Fittings

STRAIGHT MALE INSERT O-RING

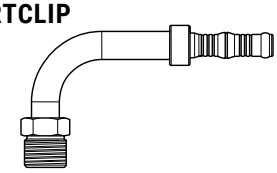
KURTCLIP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD	RUN
KC06-06MOR	6	6	5/16	5/8-18	66
KC08-08MOR	8	8	13/32	3/4-16	60
KC10-10MOR	10	10	1/2	7/8-14	60
KC12-12MOR	12	12	5/8	1 1/16-14	101

90° MALE INSERT O-RING

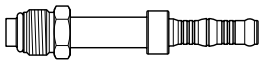
KURTCLIP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD	DROP	RUN
KC06-06MOR90	6	6	5/16	5/8-18	40	60
KC08-08MOR90	8	8	13/32	3/4-16	55	65
KC08-10MOR90	8	10	1/2	3/4-16	45	44
KC10-10MOR90	10	10	1/2	7/8-14	65	70
KC10-12MOR90	10	12	5/8	7/8-14	65	70

STRAIGHT MALE O-RING SHORT PILOT

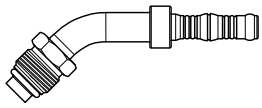
KURTCLIP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD	RUN
KC06-06TMS	6	6	5/16	5/8-18	37
KC08-08TMS	8	8	13/32	3/4-18	47
KC10-10TMS	10	10	1/2	7/8-18	57
KC12-12TMS	12	12	5/8	1 1/16-16	60

45° MALE O-RING SHORT PILOT

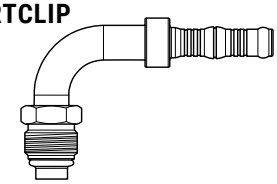
KURTCLIP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD	DROP	RUN
KC06-06TM45T	6	6	5/16	5/8-18	22	50
KC08-08TM45T	8	8	13/32	3/4-18	27	60
KC10-10TM45T	10	10	1/2	7/8-18	27	67
KC10-12TM45T	10	12	5/8	7/8-18	27	67

90° MALE O-RING SHORT PILOT

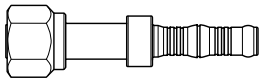
KURTCLIP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD	DROP	RUN
KC06-06TM90T	6	6	5/16	5/8-18	40	32
KC08-08TM90T	8	8	13/32	3/4-18	45	40
KC10-10TM90T	10	10	1/2	7/8-18	52	50
KC12-12TM90T	12	12	5/8	1 1/16-16	60	60

STRAIGHT FEMALE O-RING LONG PILOT

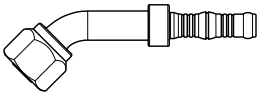
KURTCLIP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD	RUN
KC06-06TFS	6	6	5/16	5/8-18	37
KC08-08TFS	8	8	13/32	3/4-16	42
KC10-10TFS	10	10	1/2	7/8-14	50
KC12-12TFS	12	12	5/8	1 1/16-14	55

45° FEMALE O-RING LONG PILOT

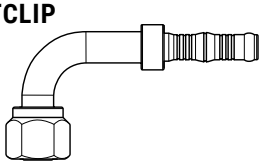
KURTCLIP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD	DROP	RUN
KC06-06TFS45T	6	6	5/16	5/8-18	15	37
KC08-08TFS45T	8	8	13/32	3/4-16	15	52
KC10-10TFS45T	10	10	1/2	7/8-14	17	55
KC12-12TFS45T	12	12	5/8	1 1/16-14	25	65

90° FEMALE O-RING LONG PILOT

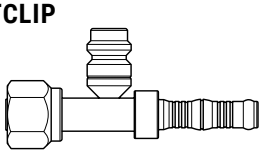
KURTCLIP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD	DROP	RUN
KC06-06TFS90T	6	6	5/16	5/8-18	30	40
KC08-08TFS90T	8	8	13/32	3/4-16	35	50
KC10-10TFS90T	10	10	1/2	7/8-14	40	57
KC12-12TFS90T	12	12	5/8	1 1/16-14	60	60

STRAIGHT FEMALE O-RING LONG PILOT WITH R134A VALVE

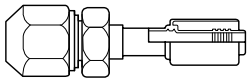
KURTCLIP



KURT P/N	FTG	HOSE	HOSE I.D. (IN.)	THREAD	PORT	RUN
KC06-06TFC-SP	6	6	5/16	5/8-18	16 (HP)	46
KC08-08TFC-SP	8	8	13/32	3/4-16	16 (HP)	42
KC10-10TFC-SP	10	10	1/2	7/8-14	13 (LP)	50
KC10-12TFC-SP	10	12	5/8	7/8-14	13 (LP)	50
KC12-12TFC-SP	12	12	5/8	1 1/16-14	13 (LP)	53

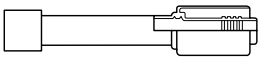
Repair Fittings, Splicers, and Braze-In Service Ports

COMPRESSION REPAIR COUPLING



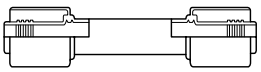
KURT P/N	HOSE	HOSE I.D. (IN.)	THREAD
BL-06-06MV	6	5/16	N/A
BL-08-08MV	8	13/32	N/A
BL-10-10MV	10	1/2	N/A
BL-12-12MV	12	5/8	N/A

BRAZE ON FOR BEADLOCK SYSTEM



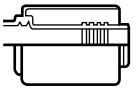
KURT P/N	HOSE	HOSE I.D. (IN.)	THREAD
BL-06-06BR	6	5/16	N/A
BL-08-08BR	8	13/32	N/A
BL-10-10BR	10	1/2	N/A
BL-12-12BR	12	5/8	N/A

STRAIGHT SPLICER



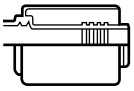
KURT P/N	HOSE	HOSE I.D. (IN.)	THREAD
BL-06-06RM	6	5/16	N/A
BL-08-08RM	8	13/32	N/A
BL-10-10RM	10	1/2	N/A
BL-12-12RM	12	5/8	N/A

AC FERRULE



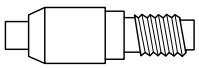
KURT P/N	HOSE	HOSE I.D. (IN.)	THREAD
ACF-06	6	5/16	N/A
ACF-08	8	13/32	N/A
ACF-10	10	1/2	N/A
ACF-12	12	5/8	N/A

AC FERRULE REDUCED



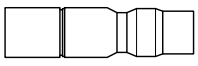
KURT P/N	HOSE	HOSE I.D. (IN.)	THREAD
ACF-06-REDUCED	6	5/16	N/A
ACF-08-REDUCED	8	13/32	N/A
ACF-10-REDUCED	10	1/2	N/A
ACF-12-REDUCED	12	5/8	N/A

BRAZE IN SERVICE PORT



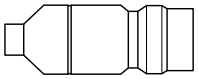
KURT P/N
ACP348

BRAZE IN SERVICE PORT



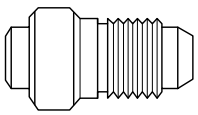
KURT P/N
ACP349

BRAZE IN SERVICE PORT



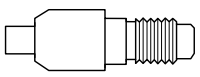
KURT P/N
ACP350

BRAZE IN SERVICE PORT



KURT P/N
ACP351
ACP352

BRAZE IN SERVICE PORT



KURT P/N
ACPM12A

Kurt Hydraulics offers a full range of Crimpers

SCAN FOR CRIMP SPECIFICATIONS

KH32K Electronically-Controlled Hydraulic Crimper

KH-60 Hydraulic Crimper

KH-60-P Portable Crimper

KH16P Portable Crimper

From fully automated to manual to portable, Kurt has a crimper to cover all your shop or field-repair needs.

Kurt Hydraulics' new crimper lineup includes two new models and two updated models to meet customer needs in the truck, in the field and in the shop. The KH32K is electronically controlled and our largest new crimper. It has the range and power to crimp our smallest hoses right up to our largest coupling and hose combination. The new KH16P, our smallest and lightest crimper, is your best asset where flexibility and portability matter most. The Kurt KH-60 models have been updated for 2025. These two models work best where large crimp capacity and power are required in a smaller crimper.

- **KH32K:** Crimps from: 1/8" to 2" hose diameters. Fully automated—plunger-pump design generates more crimping force—crimps 2-inch, 6-wire hoses. Includes 12 dies.
- **KH-60:** 60+ ton capacity. 1/8" to 1-1/4" 6-wire capabilities. 110V electric. Includes 5 dies.
- **KH-60-P:** Portable version of KH-60. Hydraulic and hand pump options available.
- **KH16P:** Crimps from: 1/8" to 1" hose diameters. Fully portable. Includes 6 dies.

Kurt Crimp Specifications

Kurt AC hoses and fittings can be crimped with standard hydraulic crimpers using the die sets included with the machines. Kurt's range of crimpers is also compatible with our selection of hoses and fittings. The charts below show how to set our manual crimper models. SCAN the QR code at left to access downloadable crimper specifications.

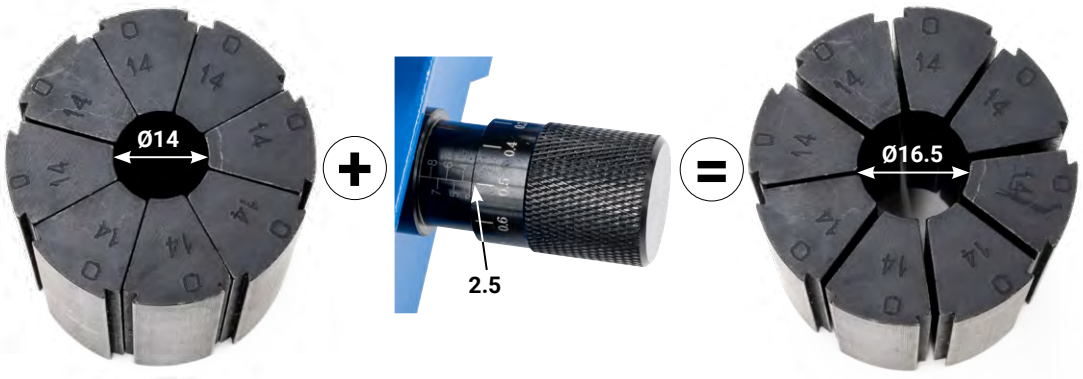
Crimp Specifications: Kurt KH-60 Hydraulic Crimper & KH-60-P Portable Crimper

SAE Dash Size	Hose Number	Fitting Series	KH-60 Crimper Die position	KH-60 Crimper Die Part No.	Crimp Diameter (+/-.005)	Approx. Gauge Setting
-6	BHR-06	BLR-SERIES-5/16	Full Crimp	KHC-0520	0.590	84
-8	BHR-08	BLR-SERIES-13/32	Full Crimp	KHC-0670	0.692	93
-10	BHR-10	BLR-SERIES-1/2	Full Crimp	KHC-0670	0.771	78
-12	BHR-12	BLR-SERIES-5/8	Full Crimp	KHC-0830	0.929	78
-6	BH-06	BL-SERIES-5/16	Full Crimp	KHC-0670	0.767	79
-8	BH-08	BL-SERIES-13/32	Full Crimp	KHC-0830	0.877	89
-10	BH-10	BL-SERIES-1/2	Full Crimp	KHC-0830	1.003	63
-12	BH-12	BL-SERIES-5/8	Full Crimp	KHC-0830	1.082	46

Crimp Specifications: Kurt KH16P Portable Crimper

SAE Dash Size	Hose Number	Fitting Series	Die position	KH16P Crimper Die	Crimp Diameter (+/-.005)	KH16P Crimper Dial Setting
-6	BHR-06	BLR-SERIES-5/16	Full Crimp	Die No. 14	0.590	1.5
-8	BHR-08	BLR-SERIES-13/32	Full Crimp	Die No. 14	0.692	4.5
-10	BHR-10	BLR-SERIES-1/2	Full Crimp	Die No. 18	0.771	2
-12	BHR-12	BLR-SERIES-5/8	Full Crimp	Die No. 21	0.929	3.1
-6	BH-06	BL-SERIES-5/16	Full Crimp	Die No. 18	0.767	1.5
-8	BH-08	BL-SERIES-13/32	Full Crimp	Die No. 21	0.877	1
-10	BH-10	BL-SERIES-1/2	Full Crimp	Die No. 21	1.003	5
-12	BH-12	BL-SERIES-5/8	Full Crimp	Die No. 21	1.082	7

How to dial in a crimp setting with the KH16P Portable Crimper



DIE DIAMETER + CRIMPER DIAL SETTING = FINAL CRIMPED SIZE

(EXAMPLE: Ø14 + 2.5 = Ø16.5 mm)

KH16P Crimper Settings

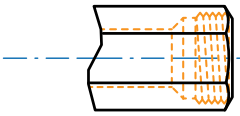
If using the Kurt KH16P Portable Crimper, the included die set is numbered on the top.

Find the correct die set, dial in the crimp setting on the dial and follow operational instructions included in the manual.

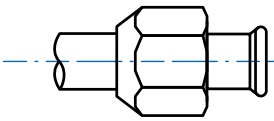
Engineering & Design

Standard for Threaded Connections

Female Flare
FF

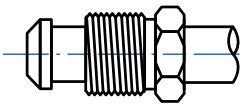


Rigid design

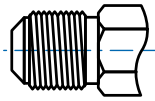


Swivel nut / Tube end

Male Flare
MF

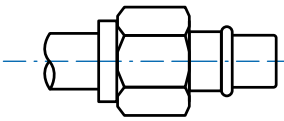


Swivel nut / Tube end

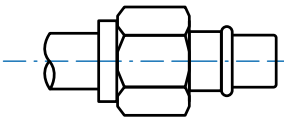


Rigid design

Female O-Ring
FOR

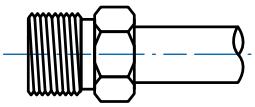


Swivel nut / Tube end

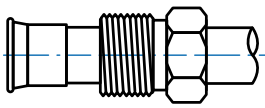


Swivel nut / Tube end

Male Insert O-Ring
MIO

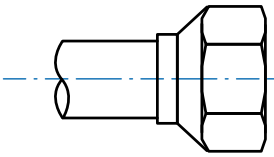


Rigid design



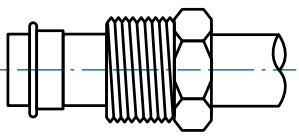
Swivel nut / Tube end

Female Insert O-Ring
FIO



Rigid design

Male O-Ring
MOR



Swivel nut / Tube end

Determination of Fitting Sizes

FITTING SIZE	THREAD*
1/4 = 4	7/16
5/16 = 5	9/16
3/8 = 6	5/8
1/2 = 8	3/4
5/8 = 10	7/8
3/4 = 12	1 1/16

*Thread Pitch May Vary.

Standard Torque Specifications

SIZE	FLARE	O-RING		THREAD*
		STEEL TUBING	ALUM. TUBING	
4	11-13 ft./lbs.	30-35 ft./lbs.	5-7 ft./lbs.	7/16
5	15-17 ft./lbs.	30-35 ft./lbs.	8-10 ft./lbs.	9/16
6	18-20 ft./lbs.	30-35 ft./lbs.	11-13 ft./lbs.	5/8
8	36-39 ft./lbs.	30-35 ft./lbs.	15-20 ft./lbs.	3/4
10	52-57 ft./lbs.	30-35 ft./lbs.	21-27 ft./lbs.	7/8
12	71-79 ft./lbs.	30-35 ft./lbs.	28-33 ft./lbs.	1 1/16

*Thread Pitch May Vary.

General Performance Requirements

Components covered by this specification must meet 350 psig maximum working pressure and 1750 psig minimum burst pressure.

Recommended Tubing Sizes

Size standardization reduces cost through decreased material inventory and increased purchasing volumes. To help achieve this goal, the recommended tube sizes listed in Table 1 should be used if possible.

SIZE	INCH	MATERIAL	OUTER X WALL THICKNESS
4	1/4	Steel	0.250" x 0.028" 0.250" x 0.035"
6	3/8	Steel	0.375" x 0.035"
		Aluminum	0.375" x 0.049"
8	1/2	Steel	0.500" x 0.049"
		Aluminum	0.500" x 0.049"
10	5/8	Steel	0.625" x 0.049"
		Aluminum	0.625" x 0.049"
12	3/4	Steel	0.750" x 0.049"
		Aluminum	0.750" x 0.049"
14	7/8	Steel	0.875" x 0.049"
		Aluminum	0.875" x 0.065"

Table 1

Recommended Tubing Material

Position of X, Y, Z coordinates on a drawing.
When positioning the xyz coordinates on a drawing, the end points should be marked according to Figures 1, 2, 3 and 4. These points designate point of sealing contact, end of tube or point of interface with hose component.

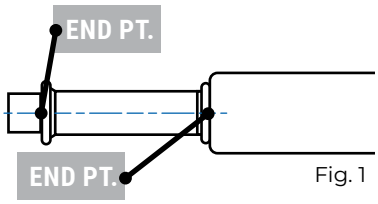


Fig. 1

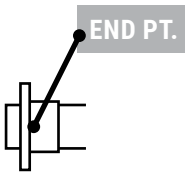


Fig. 3

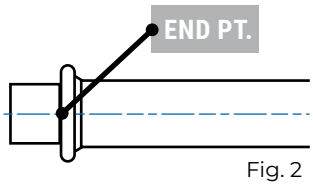


Fig. 2

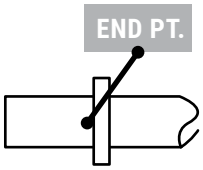


Fig. 4

Tube bending specifications

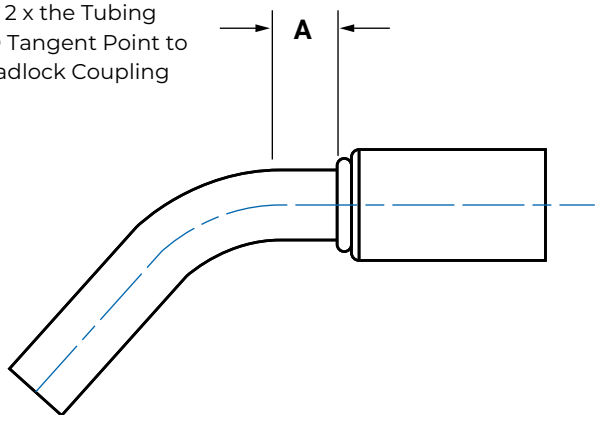
Bending radii and minimal straight pipe ends are defined in Table 2. Smaller radii are not possible to prevent collapsing of the pipe bend. The straight ends are necessary for grip for the bending machine. Minimum distance between bend radii shall not exceed diameter of tube.

SIZE	OUTER Ø X THICKNESS	POSSIBLE BEND RADII			1.5 X Ø TUBE*
		1	2	3	
4	0.250" x 0.035"	0.500"	0.625"	0.750"	0.38"
6	0.375" x 0.035"	0.625"	0.750"	10.000"	0.56"
8	0.500" x 0.049"	0.750"	10.000"		0.75"
10	0.625" x 0.049"	10.000"	10.250"		0.94"
12	0.750" x 0.049"	10.250"	10.500"		10.12"
14	0.875" x 0.049"	10.500"	20.000"		10.31"

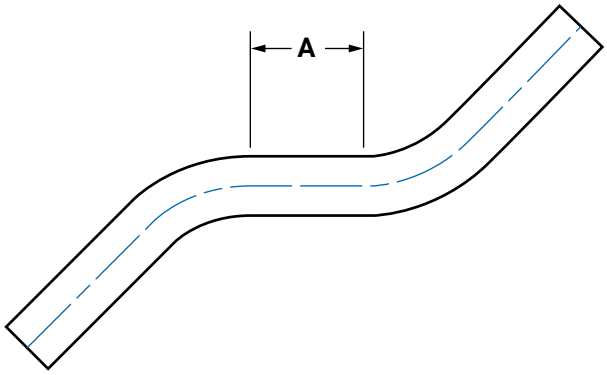
Table 2

* Basic rule. Not standard. Depends on routing of tubing.

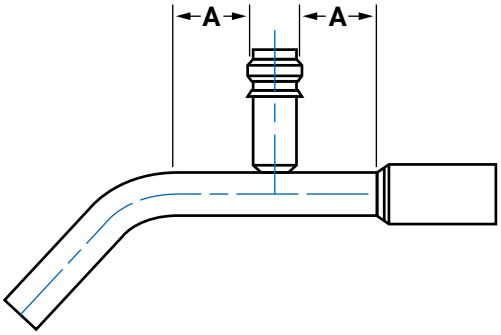
A = 2 x the Tubing OD Tangent Point to Beadlock Coupling



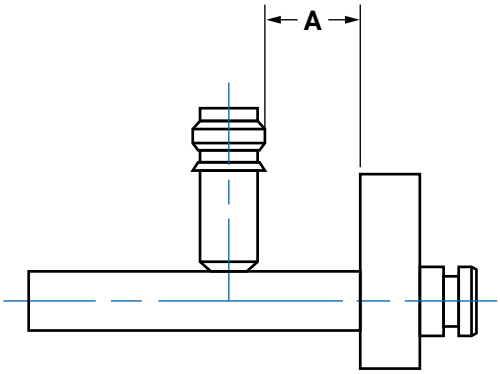
A = 2 x the Tubing OD for distance between Bends



A = 2 x the Tubing OD for Tangent Point to Valve Housing & Housing to Beadlock Coupling



A = 2 x the Tubing OD for Valve Housing to Endform



Maximum tube lengths that can run in benders are the following:

We typically bend up to 116" tube lengths. Tubes that are 1" and greater O.D. and longer than 116 inches in length will require engineering review.

Bends with 180-degree rotations:

If a part has two 90-degree bends back-to-back with a 180-degree rotation between the two, we will need 75 mm minimum length from tangent to tangent between the 90-degree bends to clear the clamp holders in CNC bend.

Braze parts on outside of the pipe

The recommended minimal distance for brazing a valve or pipe on the outside diameter of a pipe is 40 mm from both the crimp ferrule and bend. Preferably the valve or pipe should be put on a straight end of a pipe. Brazing in bends is possible but could lead to larger tolerances.

Press fit -0.002 to -0.004. Slip fit +0.002 to +0.004.

Welded Bracket to Tube

The recommended max bracket thickness of 3 mm to be welded to 0.049" wall tube and 4 mm bracket to 0.065" wall tube. NOTE: Any bracket thicker than 4 mm must have a thicker wall than 0.065" to prevent burn through.

Weld Patterns

Weld patterns must be called out for all brackets. If customer has no weld patterns called out; the account manager must reach out to obtain one before proceeding. Any deviations to weld or braze callouts must have the customer approval before proceeding with any changes.

Length and tolerances

HOSE:

Unless otherwise specified, overall hose assembly length tolerance is + 2% and - 1%.

TUBE:

In general, the DIN ISO 2768-1 standard will be followed for all other measurements.

Hose and Crimp Design Best Practice

Due to the design of hose crimping machines, there are two critical considerations that must be accounted for when designing hose fittings. Both must be satisfied—if either one is overlooked, the fitting cannot be successfully crimped onto the hose. Fig.5

Fig.5 Open Crimper

The first consideration is the minimum distance (L1) between the centerline of the crimping jaws (C) and the edge of the crimping machine (see Fig.6). This limitation directly impacts fitting design.

For a hose fitting, L1 represents the minimum distance between the centerline of the fitting and the inside surface of the bend on the opposite side (see Fig.7). If this distance is too small, the fitting will not properly fit within the crimping envelope of the machine.

Minimum L1 requirements:
Manchester Die: at least 96.85 mm
Lomar Die: at least 76.65 mm

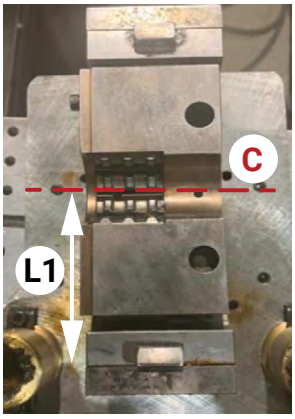


Fig.6

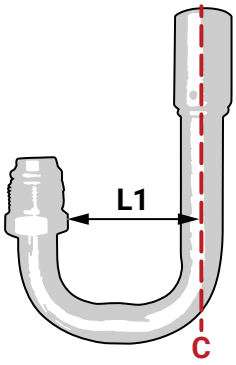


Fig.7

Minimum bend radius

The minimum bend radius of varies by hose type. For detailed information consult hose specifications online.

Bending moment

The bending moment varies by hose type. For detailed information consult hose specifications online.

Minimum burst pressure

The minimum burst pressure varies by hose type. For detailed information consult hose specifications online.

Working pressure

The working pressure varies by hose type. For detailed information consult hose specifications online.

Minimum tensile strength

The minimum tensile strength varies by hose type. For detailed information consult hose specifications online.

Corrosion resistance

Unless otherwise specified, the ASTM B633 (standard specification for electro deposited coatings of zinc on iron and steel) standard will be used for surface protection. Zinc Hex Free Clear/Black has a max salt spray performance of 200 hours. Anything over 200 hours needs to be Electro Plated Zinc Nickel.

The angle between 2 fittings on a drawing

The angle between 2 fittings on a hose as shown in Fig.8 and Fig.9. is determined throughout the AC Hose and Fitting lineup using the angle diagrams below. We recommended referring to the drawings below when determining angles.

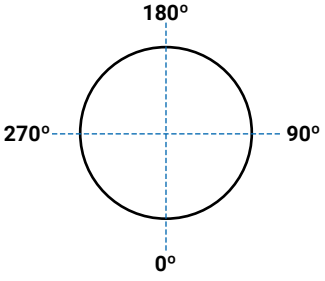


Fig.8

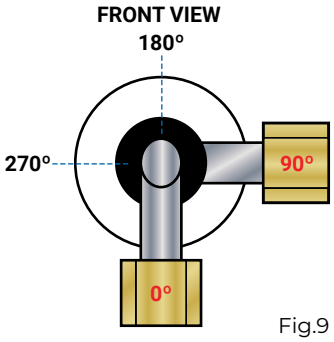
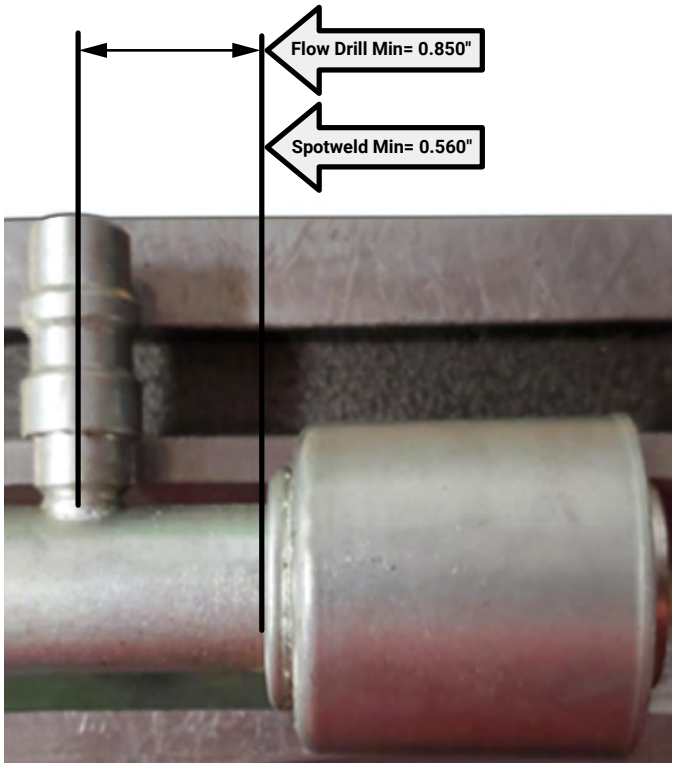


Fig.9

Fig.8 shows the angle indicator reference. In the example in Fig.9 keep one fitting end facing you with the connection facing downwards. Then read the angle of the other fitting according the angle indicator. Thus, when looking at Fig.9, this means the angle here is: 90°.

Minimum hole distance for Valve Stems (Flow Drill and Spot weld)

The minimum distance for spot welding of a stem from the coupling shell is 0.560 and for a Flow Drill it is 0.850. See example below.



Zinc Electroplating

All steel products receive Clear Zinc Electroplating for the highest quality finish and corrosion resistance.

Testing Capabilities

- Daily titration testing of all tanks.
- Destructive and adhesion testing conducted every shift to ASTM standards.
- In-House Hull Cell testing occurs on plating solution.
- 3rd Party salt spray testing by an approved A2LA accredited lab is conducted at regular intervals for process monitoring.

Rack Plating

Barrel Plating

ASTM
ATTM B633
CAT
1EO397E

Chrysler
PS-79
PS-1207
PS-Plating

Ford
WSS-M21P17B1
WSDM-MIP85-A
WSS-M1P85-B

GM
GMW3044
GM4345

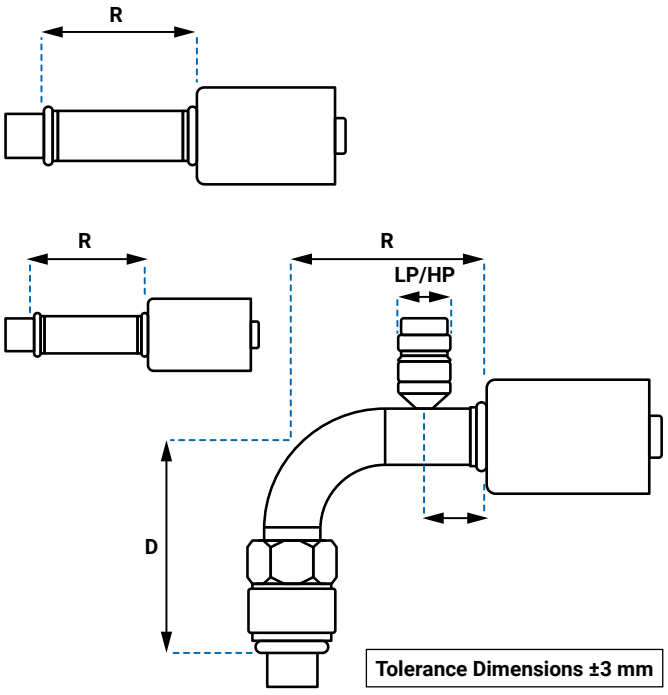
Honda
HE2 D2003

John Deere
JDM F23
JDS 117

MTD
100015

Toyota
TSH6524G

Run and Drop



Kurt Hydraulics

Customer Service

is Customer Satisfaction

With the best customer service team in the industry just a phone call away, distributors experience short response times and nearly immediate resolution for most issues. Centrally located in Minnesota, our customer service team is ready to respond to your product and ordering needs.

Products ship from domestic warehouses with on-hand inventory, ensuring customers have Kurt products when they need them. Kurt durability, selection and quality assurance mean hoses and couplings stay in the field longer and perform more reliably.

Domestic warehousing with immediate delivery from a large inventory of hoses and couplings.

All hose & coupling product lines received rigorous burst and impulse testing, often in excess of SAE standards.

Kurt hoses and couplings meet the German DIN standard, SAE, and ISO standards.

Where **Quality** is Part of Kurt's Process

Kurt Hydraulics AC fittings and hoses are validated to SAE J2064.

Have you ever had a hydraulic hose failure? Nobody wants that. If you went for a budget brand you might have just lost all the margin you gained. Customers choose Kurt Hydraulics to ensure this won't happen—all our hose and coupling lines at Kurt Hydraulics go through impulse and burst testing before they get the Kurt name stamped on them.

Kurt couplings are manufactured in our U.S. ISO-certified facility with quality testing up to and often beyond SAE specifications. High-pressure hoses are burst tested to four times rated pressure and impulse tested to 1 million cycles. Kurt Hydraulics products are tested on a continuing basis—it's not a one and done process for us—we take quality seriously.

"Market leading quality is our secret sauce. While we may not be the biggest player on the block, our quality and product lineup rival, and in many cases exceed that of the top market players."

KURT
HYDRAULICS

1-866-257-7995

hydraulicsales@kurt.com
kurthydraulics.com

5280 Main Street N.E.
Minneapolis, MN 55421

Scan to view the entire Kurt Hydraulics lineup

Kurt Hydraulics is ISO Certified and 100% Employee Owned.

06-15-2026