



CRIMP CHART

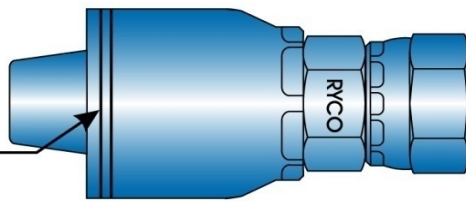
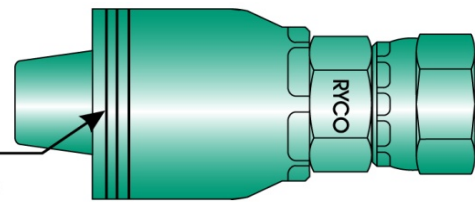
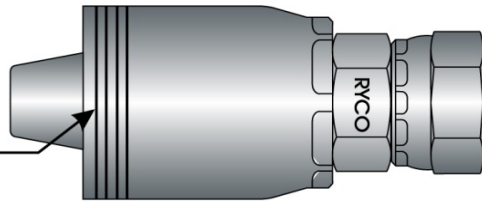
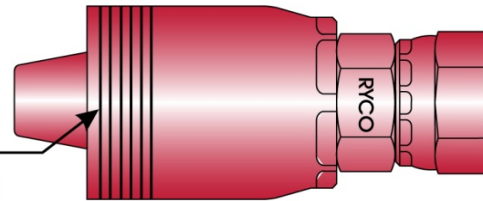
RYCO R165/165S

CRIMP DIMENSIONS

**R200-1 Spacer Kit required to crimp 90 degree bent tube couplings. Will not crimp any other bent tube couplings.

IDENTIFYING RYCO BITELOK COUPLINGS

RYCO Biteelok couplings (MarkIII) have distinctive series code grooves on the body of the ferrule.

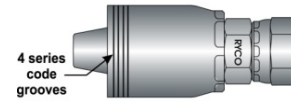
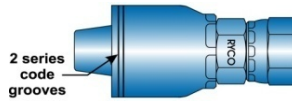
<p style="text-align: center;">T200 SERIES</p>  <p>2 series code grooves</p> <p>Only T200 couplings have TWO series code grooves at the end of the ferrule as shown</p>	<p style="text-align: center;">T400 SERIES</p>  <p>3 series code grooves</p> <p>Only T400 couplings have THREE series code grooves at the end of the ferrule as shown</p>
<p style="text-align: center;">T700 SERIES</p>  <p>4 series code grooves</p> <p>Only T700 couplings have FOUR series code grooves at the end of the ferrule as shown</p>	<p style="text-align: center;">T900 SERIES</p>  <p>6 series code grooves</p> <p>Only T900 couplings have SIX series code grooves at the end of the ferrule as shown</p>

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RYCO R165 CRIMP DIMENSIONS

ONE WIRE NON-SKIVE HOSE T200 COUPLINGS T700 COUPLINGS



AVENGER T1A BT1*	DIEHARD T1D T1F*	SLIDER T1S	SURVIVOR RQP1	CRIMP Ø ± 0.008"	MARK LENGTH inches	DIE CODE	GAUGE SETTING (approx)	CRIMP Ø ± 0.008"	MARK LENGTH inches	DIE CODE	GAUGE SETTING (approx)
T13A				0.602	0.75	14	1.30				
T14A	T14D	T14S	RQP14	0.681	0.98	16	1.30				
T15A	T15D	T15S	RQP15	0.736	0.98	16	2.70				
T16A	T16D	T16S	RQP16	0.846	0.98	20	1.50	0.984	1.14	24	1.00
T18A	T18D	T18S	RQP18	0.984	0.98	24	1.00	1.063	1.14	27	0.00
T110A	T110D	T110S	RQP110	1.114	1.18	27	1.30	1.220	1.26	27	4.00
T112A	T112D	T112S	RQP112	1.252	1.18	31	0.80	1.358	1.26	34	0.50
T116A	T116D	T116S	RQP116	1.594	1.18	39	1.50	1.654	1.69	39	3.00
T120A	T120D	T120S									
T124A	T124D	T124S									
T132A	T132D	T132S									

*T1F Fire Suppression & BT1 BioTrans - Use same Coupling Series, Crimp Diameters and Mark Length Dimensions as T1A and D

ONE & TWO WIRE PRESSURE WASHER HOSE T200 COUPLINGS T700 COUPLINGS

TORNADO PRESSURE WASHER TW1 PW2	CRIMP Ø ± 0.008"	SKIVE LENGTH inches	DIE CODE	GAUGE SETTING (approx)	CRIMP Ø ± 0.008"	SKIVE LENGTH inches	DIE CODE	GAUGE SETTING (approx)
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TW14	0.681	.87 Skive	16	1.30				
TW16	0.846	.87 Skive	20	1.50	0.984	1.06 Skive	24	1.00
TW18	0.984	.87 Skive	24	1.00	1.063	1.06 Skive	27	0.00
PW26	0.886	.87 Skive	20	2.50	1.024	1.06 Skive	24	2.00


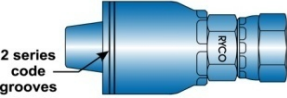
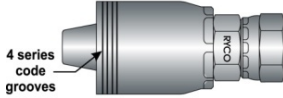
ONE & TWO WIRE ISOBARIC NON-SKIVE HOSE T200 COUPLINGS

AVENGER T3KA	DIEHARD T3KD	SLIDER T3KS	CRIMP Ø ± 0.008"	MARK LENGTH inches	DIE CODE	GAUGE SETTING (approx)
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T3K4A	T3K4D	T3K4S	0.681* ± 0.004"	0.98	16	1.30
T3K6A	T3K6D	T3K6S	0.846	0.98	20	1.50
T3K8A	T3K8D	T3K8S	0.984	0.98	24	1.00
T3K10A	T3K10D	T3K10S	1.154	1.18	27	2.30
T3K12A	T3K12D	T3K12S	1.291	1.18	31	1.80
T3K16A	T3K16D	T3K16S	1.634	1.18	39	2.50


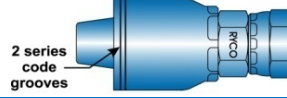
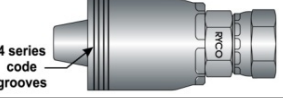
*T3K4A, T3K4D, T3K4S - Required crimping tolerance is ± 0.004" for this size only.

RYCO R165 CRIMP DIMENSIONS

TWO WIRE NON-SKIVE HOSE				T200 COUPLINGS				T700 COUPLINGS			
											
AVENGER	DIEHARD	SLIDER	SURVIVOR	CRIMP	MARK	DIE	GAUGE	CRIMP	MARK	DIE	GAUGE
T2A, T2C	T2D, TJ2D*			Ø	LENGTH	CODE	SETTING	Ø	LENGTH	CODE	SETTING
E2	TXA2D*	T2S	RQP2	± 0.008"	inches		(approx)	± 0.008"	inches		(approx)
T24A	T24D	T24S	RQP24	0.720	0.98	16	2.30				
T25A	T25D	T25S		0.783	0.98	16	3.90				
T26A	T26D	T26S	RQP26	0.886	0.98	20	2.50	1.024	1.14	24	2.00
T28A	T28D	T28S	RQP28	1.024	0.98	24	2.00	1.091	1.14	27	0.70
T210A	T210D	T210S	RQP210	1.154	1.18	27	2.30	1.260	1.26	31	1.00
T212A	T212D	T212S	RQP212	1.291	1.18	31	1.80	1.398	1.26	34	1.50
T216A	T216D	T216S	RQP216	1.634	1.18	39	2.50	1.681	1.69	39	3.70
T220A	T220D	T220S	RQP220								
T224A	T224D	T224S	RQP224								
T232A	T232D	T232S	RQP232								

*T2C, E2, TJ2D, TXA2D Series Hose - Use same Coupling Series, Crimp Diameters and Mark Length Dimensions as T2A, D, or S

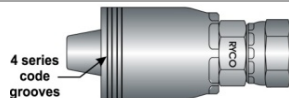
TWO WIRE COMPACT NON-SKIVE HOSE				T200 COUPLINGS				T700 COUPLINGS			
											
AVENGER	DIEHARD			CRIMP	MARK	DIE	GAUGE	CRIMP	MARK	DIE	GAUGE
DF2A	DF2D			Ø	LENGTH	CODE	SETTING	Ø	LENGTH	CODE	SETTING
				± 0.008"	inches		(approx)	± 0.008"	inches		(approx)
DF24A	DF24D			0.681	0.98	16	1.30				
DF26A	DF26D			0.868	0.98	20	1.70				
DF28A	DF28D			0.984	0.98	24	1.00				
DF210A	DF210D			1.114	1.18	27	1.30				
DF212A	DF212D			1.252	1.18	30	1.80				
DF216A	DF216D			1.594	1.18	39	1.50				

FOUR WIRE SPIRAL HOSE				T200 COUPLINGS				T700 COUPLINGS			
											
AVENGER	DIEHARD	SLIDER		CRIMP	SKIVE	DIE	GAUGE	CRIMP	MARK	DIE	GAUGE
H12A	H12D	H12S		Ø	LENGTH	CODE	SETTING	Ø	LENGTH	CODE	SETTING
				± 0.008"	inches		(approx)	± 0.008"	inches		(approx)
H1206A	H1206D	H1206S						1.024	1.14	24	2.00
H1208A	H1208D	H1208S						1.087	1.14	27	0.60
H1210A	H1210D	H1210S						1.260	1.26	31	1.00
H1212A	H1212D	H1212S						1.394	1.26	34	1.40
H1216A	H1216D	H1216S						1.665	1.69	39	3.30
H1220A	H1220D	H1220S									
H1224A	H1224D	H1224S									
H1232A	H1232D	H1232S									

RYCO R165 CRIMP DIMENSIONS

FOUR WIRE SPIRAL HOSE

T700 COUPLINGS



AVENGER	DIEHARD	CRIMP	MARK	DIE	GAUGE
HSPA	HSPD	Ø	LENGTH	CODE	SETTING
		± 0.008"	inches		(approx)

HSP06A	HSP06D	1.031	1.14	24	2.20
HSP08A	HSP08D	1.087	1.14	27	0.60

FOUR WIRE SPIRAL HOSE

T700 COUPLINGS

T900 COUPLINGS

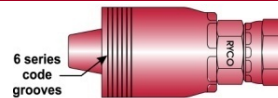
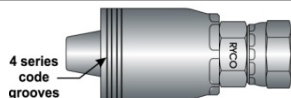
AVENGER	DIEHARD	CRIMP	MARK	DIE	GAUGE	CRIMP	MARK	DIE	GAUGE
HSHA	HSHD	Ø	LENGTH	CODE	SETTING	Ø	LENGTH	CODE	SETTING
		± 0.008"	inches		(approx)	± 0.008"	inches		(approx)

HSH12A	HSH12D								
HSH16A	HSH16D								
HSH20A	HSH20D								
HSH24A	HSH24D								
HSH32A	HSH32D								

FOUR & SIX WIRE SPIRAL HOSE

T700 COUPLINGS

T900 COUPLINGS



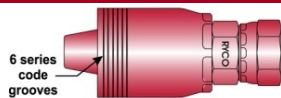
AVENGER	DIEHARD	SLIDER	CRIMP	MARK	DIE	GAUGE	CRIMP	MARK	DIE	GAUGE
H13A	H13D	H13S	Ø	LENGTH	CODE	SETTING	Ø	LENGTH	CODE	SETTING
			± 0.008"	inches		(approx)	± 0.008"	inches		(approx)

H1312A	H1312D	H1312S								
H1316A	H1316D	H1316S								
H1320A	H1320D	H1320S								
H1324A	H1324D	H1324S								
H1332A	H1332D	H1332S								

SIX WIRE SPIRAL HOSE

T900 COUPLINGS

6900N TWO PIECE COUPLINGS



AVENGER	DIEHARD	CRIMP	MARK	DIE	GAUGE	CRIMP	EXTERNAL SKIVE	INTERNAL SKIVE	DIE	GAUGE
H15A	H15D	Ø	LENGTH	CODE	SETTING	Ø	LENGTH	LENGTH	CODE	SETTING
		± 0.008"	inches		(approx)	± 0.008"	inches	inches		(approx)

H1512A	H1512D									
H1516A	H1516D									
H1520A	H1520D									
H1524A	H1524D									
H6032A	H6032D	H6032S								

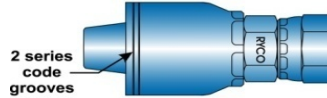
*Denotes internal skive and external skive **MUST** be completed before attaching 6900N coupling.

RYCO R165 CRIMP DIMENSIONS

ISOBARIC BRAID HOSE



T200 COUPLINGS



AVENGER T3000A			DIEHARD T3000D			SLIDER T3000S			CRIMP Ø ± 0.008"	MARK LENGTH inches	DIE CODE	GAUGE SETTING (approx)
T3004A	T3004D	T3004S				0.650	0.98	16	0.50			
T3005A	T3005D	T3005S				0.720	0.98	16	2.30			
T3006A	T3006D	T3006S				0.815	0.98	20	0.70			
T3008A	T3008D	T3008S				0.933	0.98	20	3.70			
T3010A	T3010D	T3010S				1.126	1.18	27	1.60			
T3012A	T3012D	T3012S				1.260	1.18	31	1.00			
T3016A	T3016D	T3016S				1.583	1.18	39	1.20			

AVENGER T4000A			DIEHARD T4000D			SLIDER T4000S			CRIMP Ø ± 0.008"	MARK LENGTH inches	DIE CODE	GAUGE SETTING (approx)
T4004A	T4004D	T4004S				0.650	0.98	16	0.50			
T4005A	T4005D	T4005S				0.760	0.98	16	3.30			
T4006A	T4006D	T4006S				0.846	0.98	20	1.50			
T4008A	T4008D	T4008S				0.992	0.98	24	1.20			
T4010A	T4010D	T4010S				1.134	1.18	27	1.80			
T4012A	T4012D	T4012S				1.291	1.18	31	1.80			
T4016A	T4016D	T4016S										

AVENGER T5000A			DIEHARD T5000D			SLIDER T5000S			CRIMP Ø ± 0.008"	MARK LENGTH inches	DIE CODE	GAUGE SETTING (approx)
T5004A	T5004D	T5004S				0.693	0.98	16	1.60			
T5005A	T5005D	T5005S				0.768	0.98	16	3.50			
T5006A	T5006D	T5006S				0.854	0.98	20	1.70			
T5008A	T5008D	T5008S				1.004	0.98	24	1.50			
T5010A	T5010D	T5008S										

AVENGER T6000A			DIEHARD T6000D			SLIDER T6000S			CRIMP Ø ± 0.008"	MARK LENGTH inches	DIE CODE	GAUGE SETTING (approx)
T6004A	T6004D	T6004S				0.693	0.98	16	1.60			
T6005A	T6005D	T6005S				0.748	0.98	16	3.00			
T6006A	T6006D	T6006S				0.866	0.98	20	2.00			

RYCO R165 CRIMP DIMENSIONS

ISOBARIC SPIRAL HOSE

T700 COUPLINGS



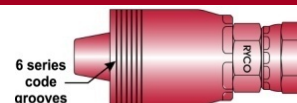
AVENGER DIEHARD SLIDER			CRIMP Ø	MARK LENGTH	DIE CODE	GAUGE SETTING (approx)
H3000A	H3000D	H3000S	± 0.008"	inches	CODE	(approx)
H3020A	H3020D	H3020S				
H3024A	H3024D	H3024S				
H3032A	H3032D	H3032S				

AVENGER DIEHARD SLIDER			CRIMP Ø	MARK LENGTH	DIE CODE	GAUGE SETTING (approx)
H4000A	H4000D	H4000S	± 0.008"	inches	CODE	(approx)
H4006A	H4006D	H4006S	1.024	1.14	24	2.00
H4008A	H4008D	H4008S	1.059	1.14	24	2.90
H4010A	H4010D	H4010S	1.213	1.26	30	0.80
H4012A	H4012D	H4012S	1.374	1.26	34	0.90
H4016A	H4016D	H4016S	1.650	1.69	39	2.90
H4020A	H4020D	H4020S				
H4024A	H4024D	H4024S				
H4032A	H4032D	H4032S				

ISOBARIC SPIRAL HOSE

T700 COUPLINGS

T900 COUPLINGS



AVENGER DIEHARD SLIDER			CRIMP Ø	MARK LENGTH	DIE CODE	GAUGE SETTING (approx)	CRIMP Ø	MARK LENGTH	DIE CODE	GAUGE SETTING (approx)
H5000A	H5000D	H5000S	± 0.008"	inches	CODE	(approx)	± 0.008"	inches	CODE	(approx)
H5006A	H5006D	H5006S	1.024	1.14	24	2.00				
H5008A	H5008D	H5008S	1.087	1.14	27	0.60				
H5010A	H5010D	H5010S	1.260	1.26	31	1.00				
H5012A	H5012D	H5012S	1.394	1.26	34	1.40				
H5016A	H5016D	H5016S	1.650	1.69	39	2.90				
H5020A	H5020D	H5020S								
H5024A	H5024D	H5024S								
H5032A	H5032D	H5032S								

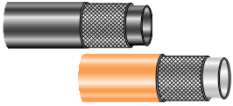
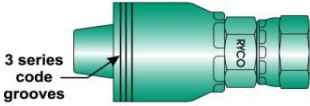
H6000A H6000D H6000S

T700 COUPLINGS



T900 COUPLINGS

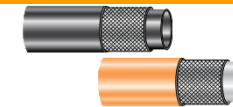

H6006A	H6006D	H6006S								
H6008A	H6008D	H6008S	1.087	1.14	26	1.60				
H6010A	H6010D	H6010S	1.228	1.26	31	0.20				
H6012A	H6012D	H6012S	1.394	1.26	34	1.40				
H6016A	H6016D	H6016S	1.654	1.69	39	3.00				
H6020A	H6020D	H6020S								
H6024A	H6024D	H6024S								
H6032A	H6032D	H6032S	SEE PAGE 4				SEE PAGE 4			

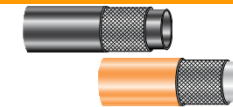

RYCO R165 CRIMP DIMENSIONS

THERMOPLASTIC HOSE				T400 COUPLINGS			
							
SPIDERLINE	SPIDERLINE	ISOLATOR	ISOLATOR	CRIMP	MARK	DIE	GAUGE
TWIN		TWIN		Ø	LENGTH		SETTING
RT7	RT7T	RT7N	RT7TN	± 0.008"	inches	CODE	(approx)
RT72				0.366*	0.55		
RT73				0.508	0.79	12	0.90
RT74	RT74T	RT74N	RT74TN	0.626	0.98	14	1.90
RT75	RT75T	RT75N	RT75TN	0.685	0.98	16	1.40
RT76	RT76T	RT76N	RT76TN	0.768	0.98	16	3.50
RT78	RT78T	RT78N	RT78TN	0.921	1.02	20	3.40
RT710	RT710T	RT710N	RT710TN	1.067	1.18		
RT712	RT712T	RT712N	RT712TN	1.181	1.18	27	3.00

*Important Note: Special die is required to assemble RT72 hose. Crimp tolerance is +/- .005"

THERMOPLASTIC HOSE				T400 COUPLINGS			
							
SPIDERLINE	SPIDERLINE	ISOLATOR	ISOLATOR	CRIMP	MARK	DIE	GAUGE
TWIN		TWIN		Ø	LENGTH		SETTING
TP7	TP7T	TP7N	TP7TN	± 0.008"	inches	CODE	(approx)
TP72	TP72T	TP72N	TP72TN				
TP73	TP73T	TP73N	TP73TN				
TP74	TP74T	TP74N	TP74TN	0.587	0.98	14	0.90
TP75	TP75T	TP75N	TP75TN	0.657	0.98	16	0.70
TP76	TP76T	TP76N	TP76TN	0.744	0.98	16	2.90
TP78	TP78T	TP78N	TP78TN	0.878	0.98	20	2.30
TP710	TP710T	TP710N	TP710TN	1.016	1.18	24	1.80
TP712	TP712T	TP712N	TP712TN	1.114	1.18	27	1.30
TP716	TP716T	TP716N	TP716TN	1.480	1.30		

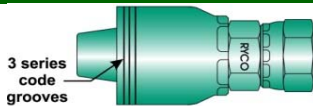
THERMOPLASTIC HOSE				T400 COUPLINGS			
							
TP3000				CRIMP	MARK	DIE	GAUGE
				Ø	LENGTH		SETTING
				± 0.008"	inches	CODE	(approx)
TP3004				0.587	0.98	14	0.90
TP3006				0.76	0.98	16	3.30
TP3008				0.941	0.98	20	3.90

THERMOPLASTIC HOSE				T1000 COUPLINGS			
							
SPIDERLINE	SPIDERLINE	ISOLATOR	ISOLATOR	CRIMP	MARK	DIE	GAUGE
TWIN		TWIN		Ø	LENGTH		SETTING
TP8	TP8T	TP8N	TP8TN	± 0.008"	inches	CODE	(approx)
TP84	TP84T	TP84N	TP84TN	0.571	0.98	14	0.50
TP86	TP86T	TP86N	TP86TN	0.709	0.98	16	2.00
TP88	TP88T	TP88N	TP88TN	0.843	0.98	20	1.40

RYCO R165 CRIMP DIMENSIONS

SUCTION & RETURN HOSE

T400 COUPLINGS



SUCTION RETURN SR	DEFIANT SRF	CRIMP Ø ± 0.008"	MARK LENGTH inches	DIE CODE	GAUGE SETTING (approx)
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SR12	SRF12			1.323	1.10	31	2.60
SR16				1.693	1.22	39	4.00
	SRF16			1.591	1.22	39	1.40
SR20	SRF20						
SR24	SRF24						
SR32	SRF32						
SR40							

MINING HOSE

T200 COUPLINGS

T400 COUPLINGS

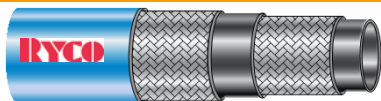


MINE SPRAY MS1000	COAL SPRAY CS1000	CRIMP Ø ± 0.008"	MARK LENGTH inches	DIE CODE	GAUGE SETTING (approx)	CRIMP Ø ± 0.008"	MARK LENGTH inches	DIE CODE	GAUGE SETTING (approx)
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MS1012	CS1012			1.220	1.18	31	0.00		
MS1016	CS1016			1.543	1.18	39	0.20		
MS1020	MS1020							1.780	1.85
MS1024	MS1024								
MS1032	MS1032								

HIGH PRESSURE DRILL RIG HOSE



T700 COUPLINGS




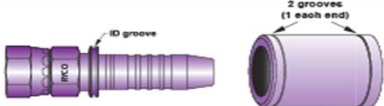
DRILLER D2B	CRIMP Ø ± 0.008"	MARK LENGTH inches	DIE CODE	GAUGE SETTING (approx)
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D224B				
D232B				

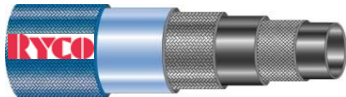
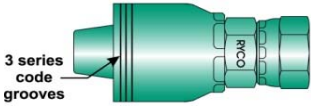
RYCO R165 CRIMP DIMENSIONS

TEFLON HOSE			1100 TWO PIECE COUPLINGS				
							
TEFLON®			CRIMP	MARK	DIE	GAUGE	
RTH1			Ø	LENGTH	CODE	SETTING	
			± 0.008"	inches		(approx)	
RTH14			0.579	0.91	14	0.70	
RTH16			0.654	0.94	16	0.60	
RTH18			0.744	1.06	16	2.90	
RTH110			0.898	1.34	20	2.80	
RTH112			1.067	1.34	27	0.10	
RTH116			1.398	1.46	34	1.50	

TEFLON® DuPont Registered TM

TEFLON HOSE			10000 TWO-PIECE COUPLINGS				
							
TEFLON®			CRIMP	MARK	DIE	GAUGE	
RTH1			Ø	LENGTH	CODE	SETTING	
			± 0.008"	inches		(approx)	
RTH14			0.579	0.91	14	0.70	
RTH16			0.654	0.94	16	0.60	
RTH18			0.744	1.06	16	2.90	
RTH110			0.898	1.34	20	2.80	
RTH112			1.067	1.34	27	0.10	
RTH116			1.398	1.46	34	1.50	

TEFLON® DuPont Registered TM

TRANSPORT HOSE			T400 COUPLINGS				
							
TRUCKER	SURVIVOR		CRIMP	MARK	DIE	GAUGE	
T5*	RQP5*	COUPLINGS	Ø	LENGTH	CODE	SETTING	
			± 0.008"	inches		(approx)	
T54	RQP54	USE T400-03	0.575	0.79	14	0.60	
T55	RQP55	USE T400-04	0.681	0.98	16	1.30	
T56	RQP56	USE T400-05	0.744	0.98	16	2.90	
T58	RQP58	USE T400-06	0.846	0.98	20	1.50	
T510	RQP510	USE T400-08	0.984	1.02	24	1.00	
T512	RQP512	USE T400-10	1.130	1.22	27	1.70	
T516	RQP516	USE T400-14	1.339	1.22	34	0.00	
T520	RQP520	USE T400-18	1.614	1.34	39	2.00	
T524	RQP524	USE T400-22					
T532	RQP532	USE T400-29					

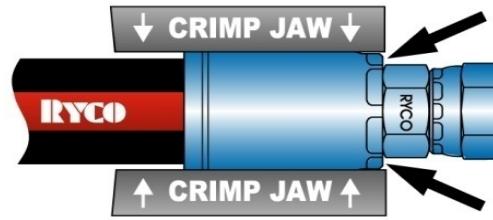
*Ensure matched couplings for hose diameter is used i.e. T54 = T400-03

RYCO R165 CRIMP DIMENSIONS

CRIMPING RYCO BITELOK COUPLINGS

BITELOK CRIMP LENGTH

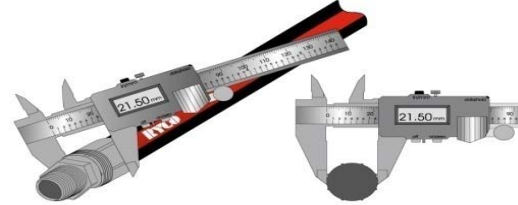
Bitelok couplings **MUST** be crimped over the entire length of the ferrule including the nose crimp where the ferrule is attached to the insert.



Crimp over the entire length of the ferrule.

Measuring Crimp Dimensions

Each crimp must be measured across the flats, with a vernier caliper halfway down the length of the ferrule.



MEASURE ACROSS FLATS HALFWAY ALONG FERRULE

CAUTION - DO NOT MIX/MATCH PRODUCT

Hydraulic Hose from one manufacturer is usually not compatible with fittings supplied by another manufacturer. It is the responsibility of the hose assembly fabricator to consult the manufacturer's written assembly instructions or the manufacturers directly before intermixing hose and fittings from two manufacturers. Similarly, assembly equipment from one manufacturer is usually not interchangeable with that of another manufacturer. It is the responsibility of the hose assembly fabricator to consult the manufacturer's written instructions or the manufacturers directly for the proper assembly equipment. Always follow the manufacturer's instructions for proper preparation and fabrication of hose assemblies.

Important Note:

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