

BlueJayTM HIGH TEMP ELBOWS & REDUCERS

Description

A blue cover, with multiple plies of polyester reinforcement for strength. Available as 90-degree elbow, 45-degree elbow, and reducers.

Construction

Liner (1.6mm/0.063" min), multiple plies of polyester reinforcement, blue jacket and gloss finish.

Specifications

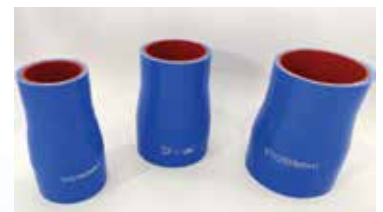
- Meets the operating requirements of SAE J20 R1 Class A.
- Temperature range is -40°F [-40°C] to 350°F [177°C].
- Standard Wall Thickness is 0.169in.-0.220in. [4.3 - 5.57mm].
- Working pressure should be calculated at 1/3 of the burst pressure.
- Varying lengths, specialty printing and matte finish are optionally available at an increased cost, for your application. Contact Purosil LLC for any required customization.

Applications

- In vehicle cooling.
- Industrial plumbing.
- Cold side CAC.
- Anywhere high temperature is seen and long life is needed.
- Resistant to coolant and additives.
- Resists ozone, hardening, cracking, cold leaks, aging, and many chemicals.

Warranty

5 years or 100,000 miles



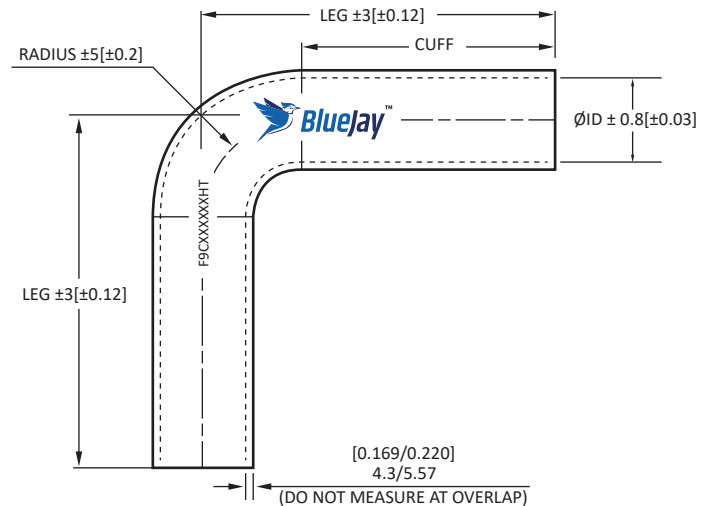
BlueJay™ Series No. F9CXXXXXXHT

Description

90 Degree High Temp Formed Hose

Technical Hose Specifications

- Temperature resistant silicone liner.
- Reinforced with multiple plies of polyester.
- UV and ozone resistant.
- Rated for -40°F to 350°F [-40°C to 177°C].
- Conforms to SAE J20 R1 Class A.
- Durometer: 65-75 Shore A.
- Radial Dilation less than 15%.



PART NUMBER	ID1		ID2		LEG		RADIUS		MIN. BURST	
	IN	MM	IN	MM	IN	MM	IN	MM	BAR	PSI
F9C050050.0707HT	0.50	12.70	0.50	12.70	7.0	177.8	0.75	19.1	29	425
F9C075075.0707HT	0.75	19.05	0.75	19.05	7.0	177.8	1.13	28.7	22	325
F9C100100.0707HT	1.00	25.40	1.00	25.40	7.0	177.8	1.50	38.1	21	299
F9C125125.0707HT	1.25	31.75	1.25	31.75	7.0	177.8	1.88	47.8	19	276
F9C150150.0707HT	1.50	38.10	1.50	38.10	7.0	177.8	2.25	57.2	17	249
F9C175175.0707HT	1.75	44.45	1.75	44.45	7.0	177.8	2.63	66.8	16	225
F9C200200.0707HT	2.00	50.80	2.00	50.80	7.0	177.8	2.50	63.5	14	200
F9C225225.0707HT	2.25	57.15	2.25	57.15	7.0	177.8	2.80	71.1	12	175
F9C250250.1111HT	2.50	63.50	2.50	63.50	11.0	279.4	3.13	79.5	10	149
F9C275275.1111HT	2.75	69.85	2.75	69.85	11.0	279.4	3.44	87.4	9	125
F9C300300.1111HT	3.00	76.20	3.00	76.20	11.0	279.4	3.75	95.3	6	87
F9C350350.1111HT	3.50	88.90	3.50	88.90	11.0	279.4	4.38	111.3	5	75
F9C400400.1111HT	4.00	101.60	4.00	101.60	11.0	279.4	5.00	127.0	3	49

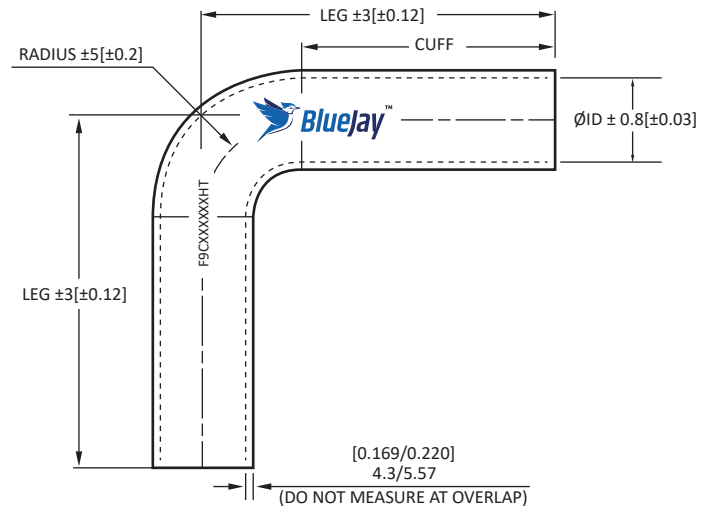
BlueJay™ Series No. F9CXXXXXXHT

Description

90 Degree High Temp Increase/Reducers

Technical Hose Specifications

- Temperature resistant silicone liner.
- Reinforced with multiple plies of polyester.
- UV and ozone resistant.
- Rated for -40°F to 350°F [-40°C to 177°C].
- Conforms to SAE J20 R1 Class A.
- Durometer: 65-75 Shore A.
- Radial Dilation less than 15%.



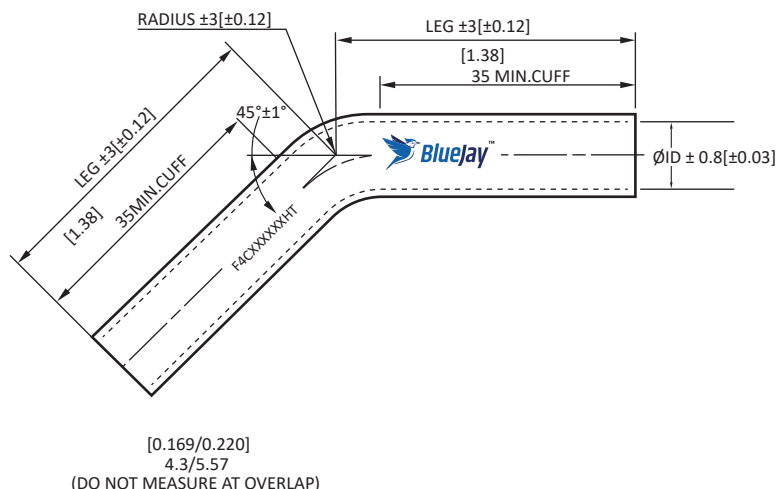
PART NUMBER	ID1		ID2		LEG		RADIUS		MIN. BURST	
	IN	MM	IN	MM	IN	MM	IN	MM	BAR	PSI
F9C100125.0707HT	1.00	25.40	1.25	31.75	7.0	177.8	0.75	19.05	19	276
F9C100150.0707HT	1.00	25.40	1.50	38.10	7.0	177.8	1.13	28.702	17	249
F9C150175.0707HT	1.50	38.10	1.75	44.45	7.0	177.8	1.5	38.1	16	225
F9C150200.0707HT	1.50	38.10	2.00	50.80	7.0	177.8	1.88	47.752	14	200
F9C200225.0707HT	2.00	50.80	2.25	57.15	7.0	177.8	2.25	57.15	12	175
F9C200250.0707HT	2.00	50.80	2.50	63.50	7.0	177.8	2.63	66.802	10	149
F9C250275.1111HT	2.50	63.50	2.75	69.85	11.0	279.4	2.5	63.5	9	125
F9C250300.1111HT	2.50	63.50	3.00	76.20	11.0	279.4	3.53	89.662	6	87
F9C300350.1111HT	3.00	76.20	3.50	88.90	11.0	279.4	3.13	79.502	5	75
F9C350400.1111HT	3.50	88.90	4.00	101.60	11.0	279.4	3.44	87.376	3	49

Description

45 Degree High Temp Formed Hose

Technical Hose Specifications

- Temperature resistant silicone liner.
- Reinforced with multiple plies of polyester.
- UV and ozone resistant.
- Rated for -40°F to 350°F [-40°C to 177°C].
- Conforms to SAE J20 R1 Class A.
- Durometer: 65-75 Shore A.
- Radial Dilation less than 15%.



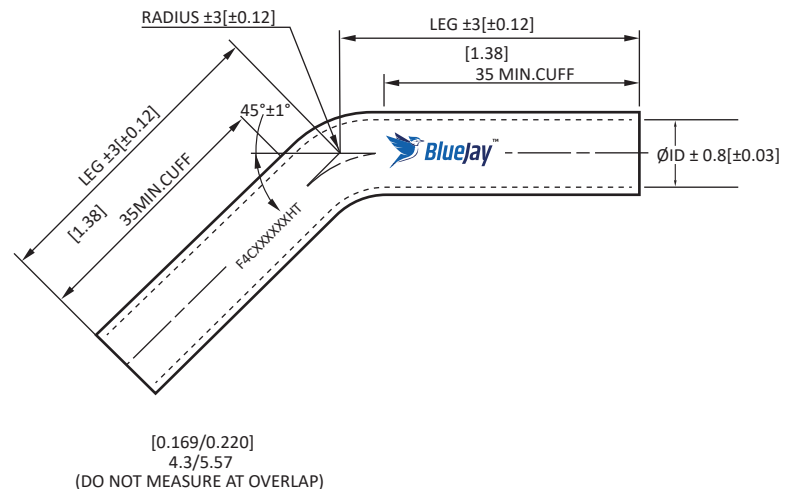
PART NUMBER	ID1		ID2		LEG		RADIUS		MIN. BURST	
	IN	MM	IN	MM	IN	MM	IN	MM	BAR	PSI
F4C050050.0505HT	0.50	12.70	0.50	12.70	5.0	127	0.75	19.05	29	425
F4C050050.0707HT	0.50	12.70	0.50	12.70	7.0	177.8	0.75	19.05	29	425
F4C075075.0505HT	0.75	19.05	0.75	19.05	5.0	127	1.13	28.702	22	325
F4C075075.0707HT	0.75	19.05	0.75	19.05	7.0	177.8	1.13	28.702	22	325
F4C100100.0505HT	1.00	25.40	1.00	25.40	5.0	127	1.5	38.1	21	299
F4C100100.0707HT	1.00	25.40	1.00	25.40	7.0	177.8	1.5	38.1	21	299
F4C125125.0707HT	1.25	31.75	1.25	31.75	7.0	177.8	1.88	47.752	19	276
F4C150150.0707HT	1.50	38.10	1.50	38.10	7.0	177.8	2.25	57.15	17	249
F4C175175.0707HT	1.75	44.45	1.75	44.45	7.0	177.8	2.63	66.802	16	225
F4C200200.0707HT	2.00	50.80	2.00	50.80	7.0	177.8	2.5	63.5	14	200
F4C225225.0707HT	2.25	57.15	2.25	57.15	7.0	177.8	3.53	89.662	12	175
F4C250250.1111HT	2.50	63.50	2.50	63.50	11.0	279.4	3.13	79.502	10	149
F4C275275.1111HT	2.75	69.85	2.75	69.85	11.0	279.4	3.44	87.376	9	125
F4C300300.1111HT	3.00	76.20	3.00	76.20	11.0	279.4	3.75	95.25	6	87
F4C350350.1111HT	3.50	88.90	3.50	88.90	11.0	279.4	4.38	111.252	5	75
F4C400400.1111HT	4.00	101.60	4.00	101.60	11.0	279.4	5	127	3	49

Description

45 Degree High Temp Increase/Reducer

Technical Hose Specifications

- Temperature resistant silicone liner.
- Reinforced with multiple plies of polyester.
- UV and ozone resistant.
- Rated for -40°F to 350°F [-40°C to 177°C].
- Conforms to SAE J20 R1 Class A.
- Durometer: 65-75 Shore A.
- Radial Dilation less than 15%.



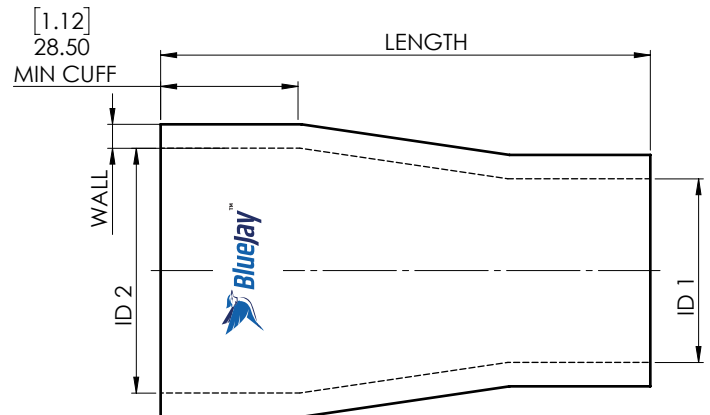
PART NUMBER	ID1		ID2		LEG		RADIUS		MIN. BURST	
	IN	MM	IN	MM	IN	MM	IN	MM	BAR	PSI
F4C100125.0707HT	1.00	25.40	1.25	31.75	7.0	177.8	0.75	19.05	19	276
F4C100150.0707HT	1.00	25.40	1.50	38.10	7.0	177.8	1.13	28.702	17	249
F4C150175.0707HT	1.50	38.10	1.75	44.45	7.0	177.8	1.5	38.1	16	225
F4C150200.0707HT	1.50	38.10	2.00	50.80	7.0	177.8	1.88	47.752	14	200
F4C200225.0707HT	2.00	50.80	2.25	57.15	7.0	177.8	2.25	57.15	12	175
F4C200250.0707HT	2.00	50.80	2.50	63.50	7.0	177.8	2.63	66.802	10	149
F4C250275.1111HT	2.50	63.50	2.75	69.85	11.0	279.4	2.5	63.5	9	125
F4C250300.1111HT	2.50	63.50	3.00	76.20	11.0	279.4	3.53	89.662	6	87
F4C300350.1111HT	3.00	76.20	3.50	88.90	11.0	279.4	3.13	79.502	5	75
F4C350400.1111HT	3.50	88.90	4.00	101.60	11.0	279.4	3.44	87.376	3	49

Description

High Temp Straight Reducer Hose

Technical Hose Specifications

- Temperature resistant silicone liner.
- Reinforced with multiple plies of polyester.
- UV and ozone resistant.
- Rated for -40°F to 350°F [-40°C to 177°C].
- Conforms to SAE J20 R1 Class A.
- Durometer: 65-75 Shore A.
- Radial Dilation less than 15%.



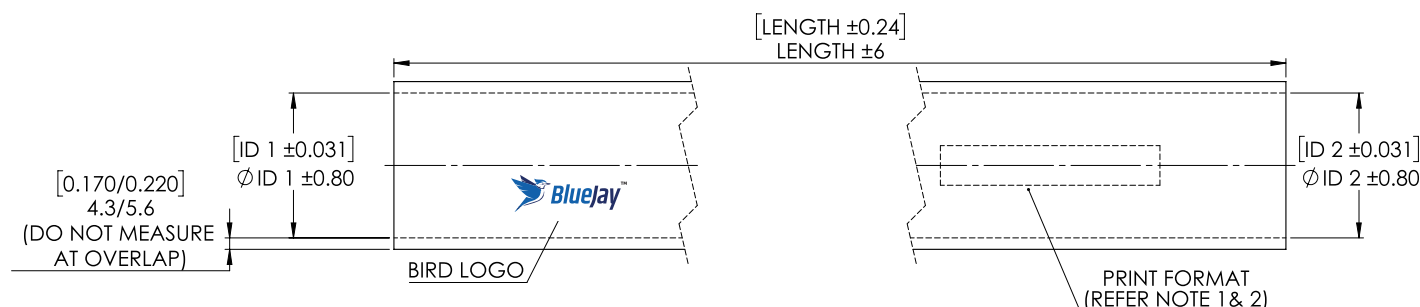
PART NUMBER	ID1		ID2		LEG		MIN. BURST	
	IN	MM	IN	MM	IN	MM	BAR	PSI
STC100125.0004HT	1.00	25.40	1.25	31.75	4	101.6	19	276
STC100150.0004HT	1.00	25.40	1.50	38.10	4	101.6	17	249
STC150175.0004HT	1.50	38.10	1.75	44.45	4	101.6	16	225
STC150200.0004HT	1.50	38.10	2.00	50.80	4	101.6	14	200
STC200225.0004HT	2.00	50.80	2.25	57.15	4	101.6	12	175
STC200250.0004HT	2.00	50.80	2.50	63.50	4	101.6	10	149
STC250275.0004HT	2.50	63.50	2.75	69.85	4	101.6	9	125
STC250300.0004HT	2.50	63.50	3.00	76.20	4	101.6	6	87
STC300350.0004HT	3.00	76.20	3.50	88.90	4	101.6	5	75
STC350400.0004HT	3.50	88.90	4.00	101.60	4	101.6	3	49

Description

High Temp Straight Hose

Technical Hose Specifications

- Temperature resistant silicone liner.
- Reinforced with multiple plies of polyester.
- UV and ozone resistant.
- Rated for -40°F to 350°F [-40°C to 177°C].
- Conforms to SAE J20 R1 Class A.
- Durometer: 65-75 Shore A.
- Radial Dilation less than 15%.



PART NUMBER	ID1		ID2		LEG		MIN. BURST	
	IN	MM	IN	MM	IN	MM	BAR	PSI
STC050050.0036HT	0.50	12.70	0.50	12.70	36.00	914.4	29.3	425.0
STC062062.0036HT	0.625	15.87	0.625	15.87	36.00	914.4	25.9	375.7
STC075075.0036HT	0.75	19.05	0.75	19.05	36.00	914.4	22.4	324.9
STC100100.0036HT	1.00	25.40	1.00	25.40	36.00	914.4	20.6	298.8
STC125125.0036HT	1.25	31.75	1.25	31.75	36.00	914.4	19.0	275.6
STC150150.0036HT	1.50	38.10	1.50	38.10	36.00	914.4	17.2	249.5
STC175175.0036HT	1.75	44.45	1.75	44.45	36.00	914.4	15.5	224.8
STC200200.0036HT	2.00	55.80	2.00	55.80	36.00	914.4	13.8	200.2
STC225225.0036HT	2.25	57.15	2.25	57.15	36.00	914.4	12.1	175.5
STC250250.0036HT	2.50	63.50	2.50	63.50	36.00	914.4	10.3	149.4
STC275275.0036HT	2.75	69.85	2.75	69.85	36.00	914.4	8.6	124.7
STC300300.0036HT	3.00	76.20	3.00	76.20	36.00	914.4	6.0	87.0
STC350350.0036HT	3.50	88.90	3.50	88.90	36.00	914.4	5.2	75.4

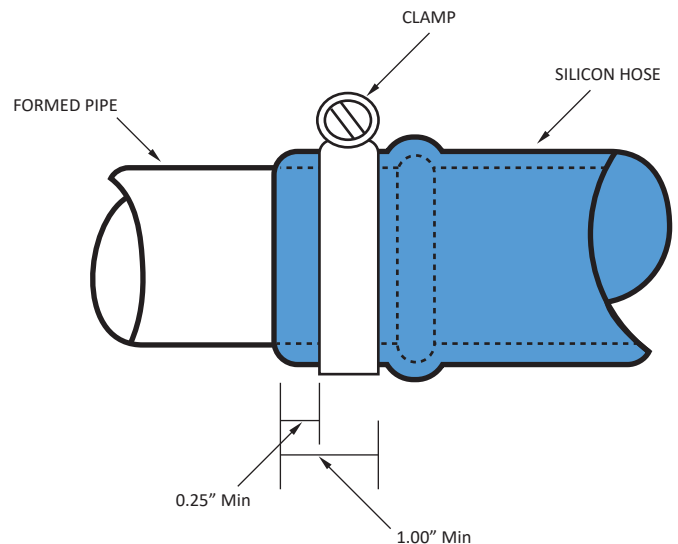
BlueJayTM
Series No. STCXXXXXX.YYYYHT

PART NUMBER	ID1		ID2		LEG		MIN. BURST	
	IN	MM	IN	MM	IN	MM	BAR	PSI
STC375375.0036HT	3.75	95.25	3.75	95.25	36.00	914.4	4.2	60.1
STC400400.0036HT	4.00	101.60	4.00	101.60	36.00	914.4	3.4	49.3
STC050050.0039HT	0.50	12.70	0.50	12.70	39.37	1000.0	29.3	425.0
STC062062.0039HT	0.625	15.87	0.625	15.87	39.37	1000.0	25.9	375.7
STC075075.0039HT	0.75	19.05	0.75	19.05	39.37	1000.0	22.4	324.9
STC100100.0039HT	1.00	25.40	1.00	25.40	39.37	1000.0	20.6	298.8
STC125125.0039HT	1.25	31.75	1.25	31.75	39.37	1000.0	19.0	275.6
STC150150.0039HT	1.50	38.10	1.50	38.10	39.37	1000.0	17.2	249.5
STC175175.0039HT	1.75	44.45	1.75	44.45	39.37	1000.0	15.5	224.8
STC200200.0039HT	2.00	50.80	2.00	50.80	39.37	1000.0	13.8	200.2
STC225225.0039HT	2.25	57.15	2.25	57.15	39.37	1000.0	12.1	175.5
STC250250.0039HT	2.50	63.50	2.50	63.50	39.37	1000.0	10.3	149.4
STC275275.0039HT	2.75	69.85	2.75	69.85	39.37	1000.0	8.6	124.7
STC300300.0039HT	3.00	76.20	3.00	76.20	39.37	1000.0	6.0	87.0
STC350350.0039HT	3.50	88.90	3.50	88.90	39.37	1000.0	5.2	75.4
STC375375.0039HT	3.75	95.25	3.75	95.25	39.37	1000.0	4.2	60.1
STC400400.0039HT	4.00	101.60	4.00	101.60	39.37	1000.0	3.4	49.3

BlueJay™ Fit and Clamping

The below guidelines follow TMC RP 332 C

- Hose should be snug on pipe and not loose.
- If needed lubricate with water and mild liquid soap solution, Do NOT lubricate hoses with ethylene glycol, propylene glycol, or petroleum-based products.
- DO NOT over tighten clamps.
- Leave a minimum of 0.25in. open from clamp to end of hose.
- Clamp straight around hose. DO NOT clamp on pipe bead.
- Contact us for about the necessary clamps for your application.



For the JAY20™ Series, the following clamps and torque values are recommended:

Clamp Type	Description	Torque (in.-lbs.)
PCL - XXXWS	Wave Seal 360™ Heavy-Duty Constant tension clamp	40
PCL-XXXCT	Constant torque with 9/16" or 5/8" band	70 - 90
PLC-XXXTB-S	Vibration resistant spring-loaded T-Bolt	60-70

See TMC RP 332 C for more information