PRO BLACKDR™

by BMRS

DRAG RACING FUEL CONNECTION SYSTEMS

Brown & Miller Racing Solutions

BMRS

Professional Race Hose & Fittings

• Designed Specifically for Extremely High Flow Top Fuel and Funny Car Fuel Systems

• Race Proven Smoothbore PTFE Hose with Extra Large Bore and High Pressure Rating

• Fittings Designed to Significantly Reduce Pressure Drop in Very High Flow Systems

- **All fittings have a large consistent bore through the entire fitting length**
- **All elbows have the same ID as the straight fitting of the same size**
- **All elbows have a larger bend radius to improve flow**
- **Uses a unique modified AN fitting design that adapts to existing AN adapters**
- **Further flow improvements when used with specially designed BMRS HIGH FLOW adapters**

What makes ProBlackDR™ the best?

1 **No** brazed joints. All fittings are BMRS quality.

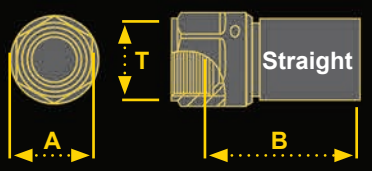
2 Notice the larger bend radius in this side by side comparison.

3 Larger more consistent bore through the fitting length both on straights and angled fittings.

ProBlackDR™ Fittings

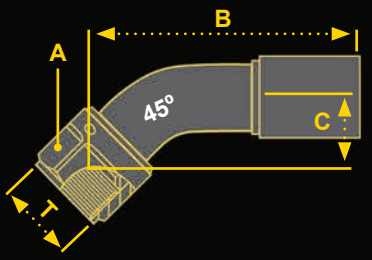
Straight Female

Angle	Part Number	Size	T (Thread Size)	A (ins)	B (ins)	B (mm)	C (ins)	C (mm)
-	DR-06-F4	6	9/16" x 18	11/16"	1.45	36.90	-	-
-	DR-08-F4	8	3/4" x 14	7/8"	1.50	38.20	-	-
-	DR-10-F4	10	7/8" x 14	1"	1.76	44.70	-	-
-	DR-12-F4	12	1-1/16" x 12	1-1/4"	2.00	51.00	-	-
-	DR-16-F4	16	1-5/16" x 12	1-1/2"	2.26	57.50	-	-



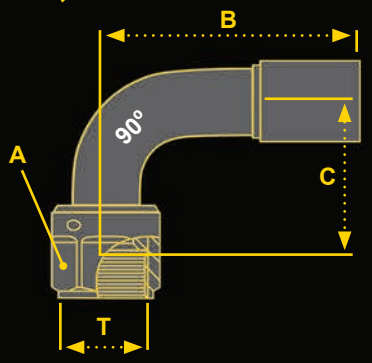
45° Elbow Female

Angle	Part Number	Size	T (Thread Size)	A (ins)	B (ins)	B (mm)	C (ins)	C (mm)
45°	DR-06-G4	6	9/16" x 18	11/16"	2.43	61.7	0.60	15.20
45°	DR-08-G4	8	3/4" x 14	7/8"	2.70	68.7	0.72	18.30
45°	DR-10-G4	10	7/8" x 14	1"	3.06	77.8	0.79	20.00
45°	DR-12-G4	12	1-1/16" x 12	1-1/4"	3.57	90.9	0.92	23.40
45°	DR-16-G4	16	1-5/16" x 12	1-1/2"	4.13	105.0	1.05	26.70



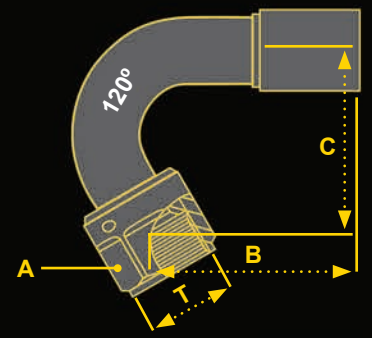
90° Elbow Female

Angle	Part Number	Size	T (Thread Size)	A (ins)	B (ins)	B (mm)	C (ins)	C (mm)
90°	DR-06-H4	6	9/16" x 18	11/16"	2.30	58.5	1.20	30.40
90°	DR-08-H4	8	3/4" x 14	7/8"	2.56	65.1	1.48	37.60
90°	DR-10-H4	10	7/8" x 14	1"	2.87	73.0	1.63	41.50
90°	DR-12-H4	12	1-1/16" x 12	1-1/4"	3.33	84.6	1.94	49.30
90°	DR-16-H4	16	1-5/16" x 12	1-1/2"	4.08	103.7	2.28	58.10



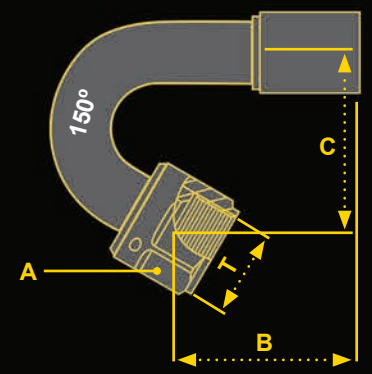
120° Elbow Female

Angle	Part Number	Size	T (Thread Size)	A (ins)	B (ins)	B (mm)	C (ins)	C (mm)
120°	DR-06-P4	6	9/16" x 18	11/16"	1.95	48.90	1.42	36.00
120°	DR-08-P4	8	3/4" x 14	7/8"	2.11	53.60	1.78	45.20
120°	DR-10-P4	10	7/8" x 14	1"	2.38	60.50	1.98-	50.20
120°	DR-12-P4	12	1-1/16" x 12	1-1/4"	3.07	78.10	2.37	60.20
120°	DR-16-P4	16	1-5/16" x 12	1-1/2"	3.64	92.40	2.85	72.30



150° Elbow Female

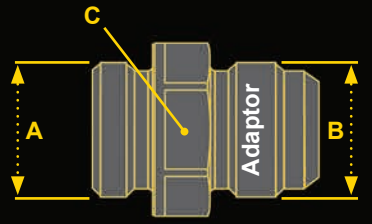
Angle	Part Number	Size	T (Thread Size)	A (ins)	B (ins)	B (mm)	C (ins)	C (mm)
150°	DR-06-R4	6	9/16" x 18	11/16"	1.68	42.7	1.42	36.10
150°	DR-08-R4	8	3/4" x 14	7/8"	1.80	45.9	1.82	46.10
150°	DR-10-R4	10	7/8" x 14	1"	2.21	56.3	2.03	51.50
150°	DR-12-R4	12	1-1/16" x 12	1-1/4"	2.64	67.0	2.46	62.40
150°	DR-16-R4	16	1-5/16" x 12	1-1/2"	3.00	103.7	3.01	76.50



High Flow Adaptors

Straight ORB MALE to JIC MALE

Part Number	A (Thread ORB Male)	B (Thread JIC Male)	C (A/F)
DR-A-K08-J08-4	-08 3/4" x 14	-08 3/4" x 14	7/8"
DR-A-K08-J10-4	-08 3/4" x 14	-10 7/8" x 14	7/8"
DR-A-K08-J12-4	-08 3/4x14	-12 1 1/16" x 12	7/8"
DR-A-K10-J08-4	-10 7/8" x 14	-08 3/4" x 14	1"
DR-A-K10-J10-4	-10 7/8" x 14	-10 7/8" x 14	1"
DR-A-K10-J12-4	-10 7/8" x 14	-12 1-1/16" x 12	1"
DR-A-K12-J08-4	-12 1-1/16" x 12	-08 3/4" x 14	1-1/4"
DR-A-K12-J12-4	-12 1-1/16" x 12	-12 1-1/16" x 12	1-1/4"



Smoothbore PTFE Hose

Aramid Fibre Braid

Hose & Specifications

Part Number	Hose Size	Int/Dia. (nom.)		O/Dia. (nom.)		Min. Bend Radius		Max. Op. Pressure		Max. Vacuum Rating	Weight	
	(nom.)	(ins)	(mm)	(ins)	(mm)	(ins)	(mm)	(Bar)	(psi)	(Ins/Hg)	Kg/m	Lbs./ft
DR-06-AM	3/8"	0.394	10.0	0.530	13.50	2.00	50	55.8	810	-	0.100	0.067
DR-08-AM	1/2"	0.536	13.6	0.690	17.50	3.00	76	51.7	750	-	0.140	0.094
DR-10-AM	5/8"	0.658	16.7	0.843	21.40	4.00	100	48.3	700	-	0.204	0.137
DR-12-AM	3/4"	0.780	19.8	0.953	24.20	5.00	126	44.8	650	-	0.236	0.158
DR-16-AM	1"	1.040	26.4	1.250	31.70	6.00	150	34.5	500	-	0.354	0.237

Performance figures relate to max operating temperature of 130°C (266°F).
No vacuum rating.

Stainless Steel Braid

Hose & Specifications

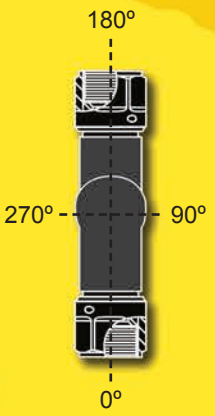
Part Number	Hose Size	Int/Dia. (nom.)		O/Dia. (nom.)		Min. Bend Radius		Max. Op. Pressure		Max. Vacuum Rating	Weight	
	(nom.)	(ins)	(mm)	(ins)	(mm)	(ins)	(mm)	(Bar)	(psi)	(Ins/Hg)	Kg/m	Lbs./ft
DR-06-SS	3/8"	0.394	10.0	0.530	13.50	1.00	25	82.7	1200	28	0.160	0.107
DR-08-SS	1/2"	0.536	13.6	0.690	17.50	1.50	38	68.9	1000	28	0.225	0.151
DR-10-SS	5/8"	0.658	16.7	0.843	21.40	2.00	50	62.0	900	28	0.336	0.226
DR-12-SS	3/4"	0.780	19.8	0.953	24.20	2.50	63	51.7	750	28	0.383	0.257
DR-16-SS	1"	1.040	26.4	1.250	31.70	3.00	75	41.3	600	28	0.540	0.362

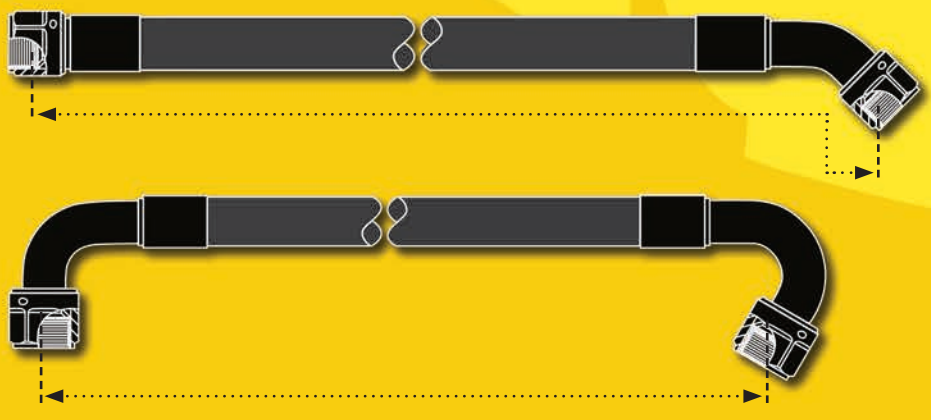
Operating pressure performance figures relate to max operating temperature of 160°C (320°F).
Vacuum rating relates to a max operating temperature of 130°C (266°F).

Hose Assembly Length and Orientation Measurement

The angle is measured from the center line of the nearest fitting when this fitting is positioned at 6 o'clock to the center line of the other fitting. This is measured in degrees counterclockwise. **NOTE:** In this example the orientation is 180º.

In these examples, the illustrations show how to measure the overall length of various assemblies for ordering purposes. **NOTE:** *International Standard*.





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