



*Always
Innovating*

Automotive Fluid Transfer Systems

Connecting & Fastening Solutions Guide



BRAKE, FUEL, TRANSMISSION LINES

TUBE NUTS, UNIONS, & ADAPTER FITTINGS

MERCHANDISING ASSORTMENTS & DISPLAYS

PERFORMANCE STEEL LINES & TUBE NUTS



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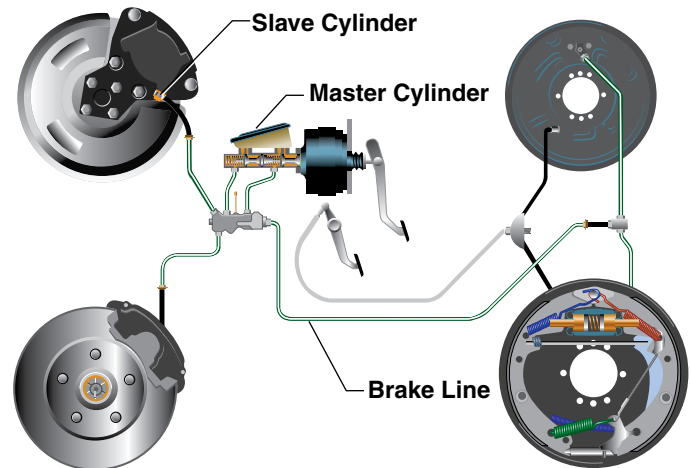
19

- Oil Cooler Lines
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BRAKING SYSTEM

The braking system is a critical component of any vehicle and literally controls the safety of drivers, passengers, and anyone else sharing the road. The tubing which carries the braking fluid between the master cylinder and the slave cylinders at the wheels is a vital part of this system. This tubing is extremely susceptible to the high-pressure it must handle (during braking) and the environment (adverse weather, road treatments, and road debris) to which it is continuously exposed.

AGS lines and coils are made of the most advanced materials and processes available today. Our tubing construction and coatings allow for the most workable, corrosion resistant, and safest product possible. In addition, the quality of the flares (end-forms) and tube nuts of all AGS lines meet and exceed standards for the best seal possible. While the vast majority of vehicles utilize 3/16", 1/4", or 6mm diameter tubing for brake applications, all AGS lines offer the same advanced construction and technology. For a complete explanation of the braking system go to www.agscompany.com.



BRAKE, FUEL, & TRANSMISSION TUBING SPECIFICATIONS

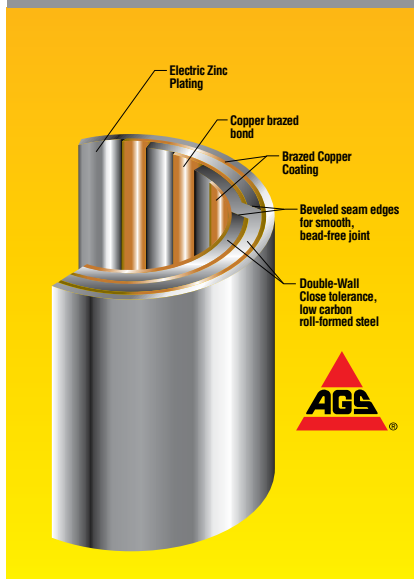
Size	Example	O.D.	Yield Strength (0.2% offset)	Tensile Strength	Working Pressure	Burst Pressure
300 Series	BL-308 or PA-308	3/16" (4.76mm)	24,656 PSI	42,061 PSI	4,500 PSI	17,900 PSI
400 Series	BL-408 or PA-408	1/4" (6.35mm)	24,656 PSI	42,061 PSI	3,000 PSI	12,100 PSI
500 Series	BL-508 or PA-508	5/16" (8.00mm)	24,656 PSI	42,061 PSI	2,300 PSI	9,200 PSI
600 Series	BL-608 or PA-608	3/8" (9.53mm)	24,656 PSI	42,061 PSI	1,800 PSI	7,400 PSI
700 Series	BL-708 or PA-708	6mm (.236")	24,656 PSI	42,061 PSI	3,300 PSI	13,100 PSI
300 CN Series	CNC-325	3/16" (4.76mm)	15,229 PSI	39,885 PSI	4,200 PSI	17,000 PSI
400 CN Series	CNC-425	1/4" (6.35mm)	15,229 PSI	39,885 PSI	2,900 PSI	11,500 PSI
500 CN Series	CNC-525	5/16" (8.00mm)	15,229 PSI	39,885 PSI	2,100 PSI	8,700 PSI
600 CN Series	CNC-625	3/8" (9.53mm)	15,229 PSI	39,885 PSI	1,700 PSI	7,000 PSI

All AGS tubing conforms to the following:

- Wall thickness = .028 (.70mm)
- Elongation in 2" (50mm) = 14%
- Hardness (Rockwell 30T Scale): 65
- Clean finish inside and out
- Leak and vibration resistance
- Specifications:
 - SAE J527b DIN 74234
 - SAE J1290 ISO 4038
 - SAE J1650 GM123M
 - ASTM A254

* Working and burst pressures calculated using the conservative Barlow's Formula. Tensile strength was used to indicate material strength and a safety factor of 4 was used to find working pressure.

STANDARD STEEL



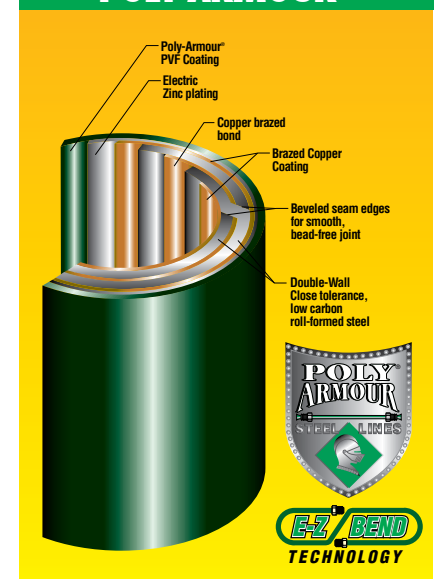
- Double-Walled
- Low Carbon Steel
- Copper Brazed
- Zinc Undercoating

90-10 COPPER NICKEL



- Single-Walled
- 90-10 Copper Nickel Alloy

POLY-ARMOUR®



- Double-Walled
- Low Carbon Steel
- Copper Brazed
- Zinc Undercoating
- PVF Coated
- EZ-Bend Technology

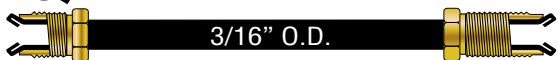
EZ-BEND® Technology refers to the combined features of the AGS Poly-Armour® lines and coils that make them easy to work with and bend. In the case of 3/16" diameter lines and coils, bending tools are not even necessary. All lines and coils (including AGS Standard Steel) are kink-proof and will retain shape after bending.



DOMESTIC STEEL LINES

3/16"

DOMESTIC STEEL LINE – SAE INVERTED FLARE



3/8-24 SHORT (BLF-12)

3/8-24 LONG (BLF-10)

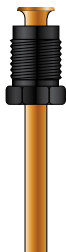
APPLICATION: BRAKE LINE FOR DOMESTIC VEHICLES

FITTINGS: BLF-10 AND BLF-12

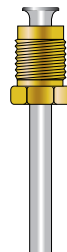
UNION: BLU-3



Poly-Armour Catalog No.
PA-308
PA-312
PA-320
PA-330
PA-340
PA-351
PA-360
PA-372



NiCopp Catalog No.
CN-308
CN-312
CN-320
CN-330
CN-340
CN-351
CN-360
CN-372



Standard Catalog No.	Description	Lines per Tube	Edelmann No.	Weatherhead No.
BL-308	3/16" X 8"	10	308ST	S308
BL-312	3/16" X 12"	10	312ST	S312
BL-320	3/16" X 20"	10	320ST	S320
BL-330	3/16" X 30"	10	330ST	S330
BL-340	3/16" X 40"	10	340ST	S340
BL-351	3/16" X 51"	10	351ST	S351
BL-360	3/16" X 60"	10	360ST	S360
BL-372	3/16" X 72"	10	—	—

1/4"

DOMESTIC STEEL LINE – SAE INVERTED FLARE



7/16-24 SHORT (BLF-13)

7/16-24 LONG (BLF-16)

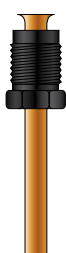
APPLICATION: BRAKE LINE FOR DOMESTIC VEHICLES

FITTINGS: BLF-13 AND BLF-16

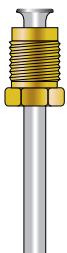
UNION: BLU-4



Poly-Armour Catalog No.
PA-408
PA-412
PA-420
PA-430
PA-440
PA-451
PA-460
PA-472



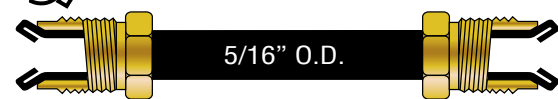
NiCopp Catalog No.
CN-408
CN-412
CN-420
CN-430
CN-440
CN-451
CN-460
CN-472



Standard Catalog No.	Description	Lines per Tube	Edelmann No.	Weatherhead No.
BL-408	1/4" X 8"	10	408ST	S408
BL-412	1/4" X 12"	10	412ST	S412
BL-420	1/4" X 20"	10	420ST	S420
BL-430	1/4" X 30"	10	430ST	S430
BL-440	1/4" X 40"	10	440ST	S440
BL-451	1/4" X 51"	10	451ST	S451
BL-460	1/4" X 60"	10	460ST	S460
BL-472	1/4" X 72"	10	—	—

5/16"

DOMESTIC STEEL LINE – SAE INVERTED FLARE



1/2-20 (BLF-14)

1/2-20 (BLF-14)

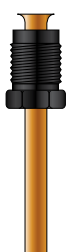
APPLICATION: FUEL & TRANSMISSION LINE FOR DOMESTIC VEHICLES

FITTINGS: BLF-14

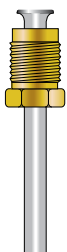
UNION: BLU-5



Poly-Armour Catalog No.
PA-508
PA-512
PA-520
PA-530
PA-540
PA-551
PA-560
PA-572



NiCopp Catalog No.
CN-508
CN-512
CN-520
CN-530
CN-540
CN-551
CN-560
CN-572



Standard Catalog No.	Description	Lines per Tube	Edelmann No.	Weatherhead No.
BL-508	5/16" X 8"	5	508ST	S508
BL-512	5/16" X 12"	5	512ST	S512
BL-520	5/16" X 20"	5	520ST	S520
BL-530	5/16" X 30"	5	530ST	S530
BL-540	5/16" X 40"	5	540ST	S540
BL-551	5/16" X 51"	5	551ST	S551
BL-560	5/16" X 60"	5	560ST	S560
BL-572	5/16" X 72"	5	—	—

3/8"

DOMESTIC STEEL LINE – SAE INVERTED FLARE



5/8-18 (BLF-15)

5/8-18 (BLF-15)

APPLICATION: FUEL & TRANSMISSION LINE FOR DOMESTIC VEHICLES

FITTINGS: BLF-15

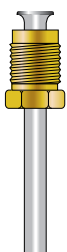
UNION: BLU-6



Poly-Armour Catalog No.
PA-608
PA-612
PA-620
PA-630
PA-640
PA-651
PA-660
PA-672



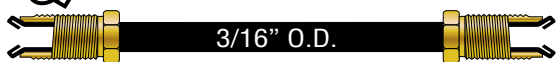
NiCopp Catalog No.
CN-608
CN-612
CN-620
CN-630
CN-640
CN-651
CN-660
CN-672



Standard Catalog No.	Description	Lines per Tube	Edelmann No.	Weatherhead No.
BL-608	3/8" X 8"	4	608ST	S608
BL-612	3/8" X 12"	4	612ST	S612
BL-620	3/8" X 20"	4	620ST	S620
BL-630	3/8" X 30"	4	630ST	S630
BL-640	3/8" X 40"	4	640ST	S640
BL-651	3/8" X 51"	4	651ST	S651
BL-660	3/8" X 60"	4	660ST	S660
BL-672	3/8" X 72"	4	—	—

3/16"

JAPANESE STEEL LINE – SAE INVERTED FLARE/METRIC



M10 X 1.0 LONG (BLF-40)

M10 X 1.0 LONG (BLF-40)

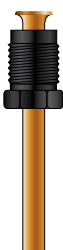
APPLICATION: BRAKE LINE FOR JAPANESE VEHICLES

FITTINGS: BLF-40

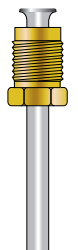
UNION: BLU-9



Poly-Armour Catalog No.
PAJ-308
PAJ-312
PAJ-320
PAJ-330
PAJ-340
PAJ-351
PAJ-360



NiCopp Catalog No.
CNJ-308
CNJ-312
CNJ-320
CNJ-330
CNJ-340
CNJ-351
CNJ-360
CNJ-372

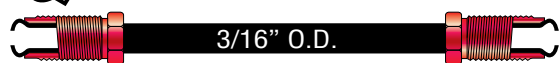


Standard Catalog No.
BLJ-308
BLJ-312
BLJ-320
BLJ-330
BLJ-340
BLJ-351
BLJ-360

Description	Lines per Tube	Edelmann No.	Weatherhead No.
3/16" X 8"	5	4308ST	SJ308
3/16" X 12"	5	4312ST	SJ312
3/16" X 20"	5	4320ST	SJ320
3/16" X 30"	5	4330ST	SJ330
3/16" X 40"	5	4340ST	SJ340
3/16" X 51"	5	4351ST	SJ351
3/16" X 60"	5	4360ST	SJ360

3/16"

BRITISH STEEL LINE – ISO BUBBLE FLARE



3/8-24 (BLF-38)

3/8-24 (BLF-38)

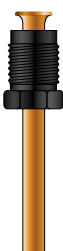
APPLICATION: BRAKE LINE FOR BRITISH VEHICLES

FITTINGS: BLF-38

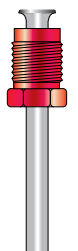
UNION: BLU-7



Poly-Armour Catalog No.
PAB-308
PAB-312
PAB-320
PAB-330
PAB-340
PAB-351
PAB-360



NiCopp Catalog No.
CNB-308
CNB-312
CNB-320
CNB-330
CNB-340
CNB-351
CNB-360
CNB-372

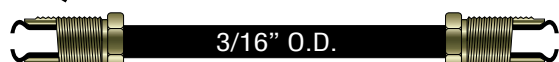


Standard Catalog No.
BLB-308
BLB-312
BLB-320
BLB-330
BLB-340
BLB-351
BLB-360

Description	Lines per Tube	Edelmann No.	Weatherhead No.
3/16" X 8"	5	5308ST	SB308
3/16" X 12"	5	5312ST	SB312
3/16" X 20"	5	5320ST	SB320
3/16" X 30"	5	5330ST	SB330
3/16" X 40"	5	5340ST	SB340
3/16" X 51"	5	5351ST	SB351
3/16" X 60"	5	5360ST	SB360

3/16"

EUROPEAN STEEL LINE – ISO BUBBLE FLARE/METRIC



M10 X 1.0 (BLF-39)

M10 X 1.0 (BLF-39)

APPLICATION: BRAKE LINE FOR EUROPEAN VEHICLES

FITTINGS: BLF-39

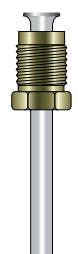
UNION: BLU-8



Poly-Armour Catalog No.
PAE-308
PAE-312
PAE-320
PAE-330
PAE-340
PAE-351
PAE-360



NiCopp Catalog No.
CNE-308
CNE-312
CNE-320
CNE-330
CNE-340
CNE-351
CNE-360
CNE-372

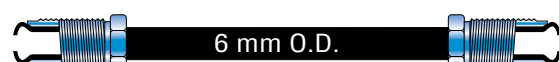


Standard Catalog No.
BLE-308
BLE-312
BLE-320
BLE-330
BLE-340
BLE-351
BLE-360

Description	Lines per Tube	Edelmann No.	Weatherhead No.
3/16" X 8"	5	6308ST	SC308
3/16" X 12"	5	6312ST	SC312
3/16" X 20"	5	6320ST	SC320
3/16" X 30"	5	6330ST	SC330
3/16" X 40"	5	6340ST	SC340
3/16" X 51"	5	6351ST	SC351
3/16" X 60"	5	6360ST	SC360

6mm

GM STEEL LINE – ISO BUBBLE FLARE/METRIC



M12 X 1.0 (BLF-51)

M12 X 1.0 (BLF-51)

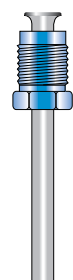
APPLICATION: BRAKE LINE FOR SOME GM VEHICLES (SATURN, CADILLAC)

FITTINGS: BLF-51

UNION: BLU-10



Poly-Armour Catalog No.
PA-708
PA-712
PA-720
PA-730
PA-740
PA-751
PA-760
PA-772



Standard Catalog No.
BL-708
BL-712
BL-720
BL-730
BL-740
BL-751
BL-760
BL-772

Description	Lines per Tube	Edelmann No.	Weatherhead No.
6mm X 8"	5	—	—
6mm X 12"	5	—	—
6mm X 20"	5	—	—
6mm X 30"	5	—	—
6mm X 40"	5	—	—
6mm X 51"	5	—	—
6mm X 60"	5	—	—
6mm X 72"	5	—	—



ADAPTER BRAKE LINES

AGS 8" adapter brake lines allow dissimilar connections to be made within the same system. Adapter lines are available in common brake line tube sizes 3/16", 1/4", and 6mm. AGS offers OE matching lines. ISO/Bubble to SAE/Inverted, English thread to Metric thread, and enlarging/reducing lines.

3/16"

8" ADAPTER BRAKE LINES

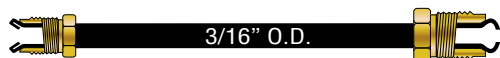


**Adapts Japanese port to a standard 3/16" Domestic brake system*

3/8-24 (BLF-12)

M10 x 1.0 (BLF-40)

Poly-Armour Catalog No.	Standard Catalog No.	Description	Lines per Tube	Edelmann No.	Nut Color
PAA-0310	BLA-0310	3/8-24 SAE Inverted to M10 x 1.0 SAE Inverted	5	—	Brass

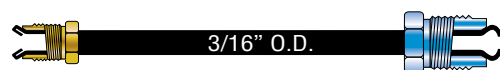


**Adapts metric bubble flare to a standard 3/16" Domestic brake system.*

3/8-24 (BLF-12)

M11 x 1.5 (BLF-47)

Poly-Armour Catalog No.	Standard Catalog No.	Description	Lines per Tube	Edelmann No.	Nut Color
PAA-Y311	BLA-Y311	3/8-24 SAE Inverted to M11 x 1.5 ISO Bubble	5	—	Yellow

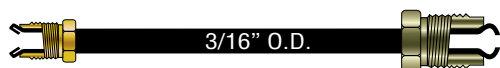


**Adapts metric bubble flare to a standard 3/16" Domestic brake system.*

3/8-24 (BLF-12)

M12 x 1.0 (BLF-48)

Poly-Armour Catalog No.	Standard Catalog No.	Description	Lines per Tube	Edelmann No.	Nut Color
PAA-B312	BLA-B312	3/8-24 SAE Inverted to M12 x 1.0 ISO Bubble	5	—	Blue



**Adapts metric bubble flare to a standard 3/16" Domestic brake system.*

3/8-24 (BLF-12)

M13 x 1.5 (BLF-49)

Poly-Armour Catalog No.	Standard Catalog No.	Description	Lines per Tube	Edelmann No.	Nut Color
PAA-0313	BLA-0313	3/8-24 SAE Inverted to M13 x 1.5 ISO Bubble	5	—	Olive

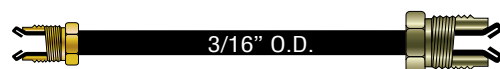


**Adapts 1/4" Domestic port to a standard 3/16" Domestic brake system.*

3/8-24 (BLF-12)

7/16-24 (BLF-11)

Poly-Armour Catalog No.	Standard Catalog No.	Description	Lines per Tube	Edelmann No.	Nut Color
PAA-R340	BLA-R340	3/8-24 SAE Inverted to 7/16-24 SAE Inverted	5	—	Red

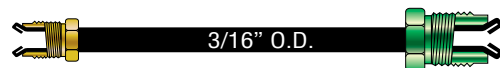


**Adapts 5/16" Domestic port to a standard 3/16" Domestic brake system.*

3/8-24 (BLF-12)

1/2-20 (NA)

Poly-Armour Catalog No.	Standard Catalog No.	Description	Lines per Tube	Edelmann No.	Nut Color
PAA-R350	BLA-R350	3/8-24 SAE Inverted to 1/2-20 SAE Inverted	5	328STA	Black

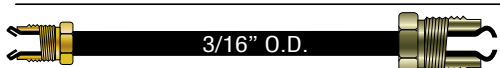


**Adapts 5/16" Domestic port to a standard 3/16" Domestic brake system.*

3/8-24 (BLF-12)

1/2-20 (BLF-41)

Poly-Armour Catalog No.	Standard Catalog No.	Description	Lines per Tube	Edelmann No.	Nut Color
PAA-G360	BLA-G360	3/8-24 SAE Inverted to 1/2-20 SAE Inverted	5	338STA	Green



**Adapts European port to a standard 3/16" Domestic brake system.*

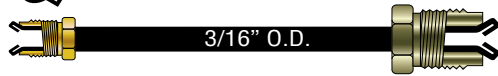
3/8-24 (BLF-12)

M10 x 1.0 (BLF-39)

Poly-Armour Catalog No.	Standard Catalog No.	Description	Lines per Tube	Edelmann No.	Nut Color
PAA-0380	BLA-0380	3/8-24 SAE Inverted to M10 x 1.0 ISO Bubble	5	—	Olive

3/16"

8" ADAPTER BRAKE LINES (Continued)



3/8-24 (BLF-12)

9/16-18 (BLF-42)

**Adapts 9/16-18 port to a standard 3/16" Domestic brake system.*

Poly-Armour Catalog No.	Standard Catalog No.	Description	Lines per Tube	Edelmann No.	Nut Color
PAA-0370	BLA-0370	3/8-24 SAE Inverted to 9/16-18 SAE Inverted	5	348STA	Olive

1/4"

8" ADAPTER BRAKE LINES



7/16-24 (BLF-13)

9/16-18 (BLF-43)

**Adapts 9/16-18 port to a standard 1/4" Domestic brake system.*

Poly-Armour Catalog No.	Standard Catalog No.	Description	Lines per Tube	Edelmann No.	Nut Color
PAA-B410	BLA-B410	7/16-24 SAE Inverted to 9/16-18 SAE Inverted	5	418STA	Blue



7/16-24 (BLF-13)

1/2-20 (BLF-44)

**Connects 5/16" Domestic port to a 1/4" Domestic brake system.*

Poly-Armour Catalog No.	Standard Catalog No.	Description	Lines per Tube	Edelmann No.	Nut Color
PAA-S420	BLA-S420	7/16-24 SAE Inverted to 1/2-20 SAE Inverted	5	—	Silver



7/16-24 (BLF-13)

7/16-24 (BLF-13)

**Connects 1/4" Domestic port to a 1/4" Domestic brake system.*

Poly-Armour Catalog No.	Standard Catalog No.	Description	Lines per Tube	Edelmann No.	Nut Color
PAA-B430	BLA-B430	7/16-24 SAE Inverted to 7/16-24 SAE Inverted	5	428STA	Brass

6mm

8" ADAPTER BRAKE LINES

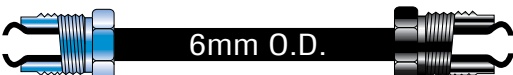


M12 x 1.0 (BLF-51)

M14 x 1.5 (BLF-53)

**Adapts non-standard metric bubble to standard 6mm brake system*

Poly-Armour Catalog No.	Standard Catalog No.	Description	Lines per Tube	Edelmann No.	Nut Color
PAA-B710	BLA-B710	M12 x 1.0 ISO Bubble to M14 x 1.5 ISO Bubble	5	—	Black



M12 x 1.0 (BLF-51)

M12 x 1.5 (BLF-52)

**Adapts non-standard metric bubble to standard 6mm brake system*

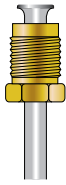
Poly-Armour Catalog No.	Standard Catalog No.	Description	Lines per Tube	Edelmann No.	Nut Color
PAA-B720	BLA-B720	M12 x 1.0 ISO Bubble to M12 x 1.5 ISO Bubble	5	—	Olive

FLOOR DISPLAYS



Poly-Armor Catalog No.

PAD-1*
PAD-2
PAD-3
PAD-4



Standard Catalog No.

BLD-1*
BLD-2
BLD-3
BLD-4
BLD-5

Description

Floor Display – (No Lines or Tubes)
Floor Display – Domestic/Import/Adapter Lines
Floor Display – Domestic Lines
Floor Display – Import Lines
Floor Display – Domestic/Import/Adapter Lines & Fittings

Dimensions With Lines Height x Width x Depth

30" x 11" x 18"
63" x 27" x 18"
63" x 11" x 18"
63" x 11" x 18"
63" x 27" x 18"

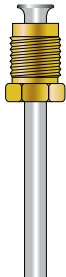
* Comes as 1 floor display for either import of domestic lines.

WALL DISPLAYS



Poly-Armor Catalog No.

PAD-14
PAD-15
PAD-18
PAD-19
PAD-20
PAD-21
PAD-22
PAD-23
PAD-26
PAD-28



Standard Catalog No.

BLD-14
BLD-15
BLD-18
BLD-19
BLD-20
BLD-21
–
–
BLD-26
BLD-28

Description

Wall Display – Domestic (No Lines)
Wall Display – Import (No Lines)
Wall Display – 6mm Lines
Wall Display – Domestic Lines
Wall Display – Import Lines
Wall Display – Domestic & Import Lines
Wall Display – Domestic Lines (Installer Assortment)
Wall Display – Import Lines (Installer Assortment)
Wall Display – Adapter Lines
Wall Display – Adapter (No Lines)

Dimensions With Lines Height x Width x Depth

10" x 24" x 6"
10" x 17" x 3"
69" x 7" x 6"
69" x 24" x 6"
69" x 17" x 3"
69" x 42" x 6"
69" x 24" x 6"
69" x 17" x 6"
16" x 7" x 6"
10" x 7" x 6"

FLOOR DISPLAYS

DIMENSIONAL DATA

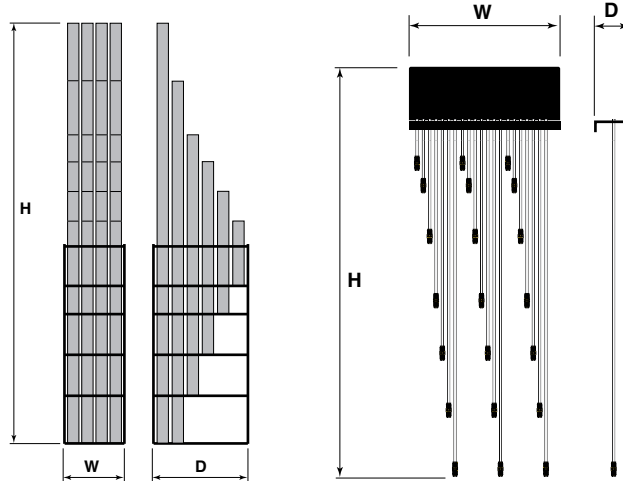


PAD-3

PAD-4

PAD-2

(PAD-3 + PAD-4 + ADAPTERS)



WALL DISPLAYS



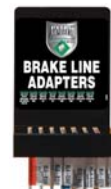
PAD-18



PAD-19




PAD-20



PAD-26

PAD-21

(PAD-19 + PAD-20)

 Poly-Armour Catalog No.	Standard Catalog No.	FLOOR DISPLAY				WALL DISPLAY						
		PAD-2	PAD-3	PAD-4		PAD-18	PAD-19	PAD-20	PAD-21	PAD-22	PAD-23	PAD-26
		BLD-2	BLD-3	BLD-4	*BLD-5	BLD-18	BLD-19	BLD-20	BLD-21			BLD-26
PA-308	BL-308	10	10		10		10		10	2		
PA-312	BL-312	10	10		10		10		10	2		
PA-320	BL-320	10	10		10		10		10	2		
PA-330	BL-330	10	10		10		10		10	2		
PA-340	BL-340	10	10		10		10		10	2		
PA-351	BL-351	10	10		10		10		10	2		
PA-360	BL-360	10	10		10		10		10	2		
PA-408	BL-408	10	10		10		10		10			
PA-412	BL-412	10	10		10		10		10			
PA-420	BL-420	10	10		10		10		10	2		
PA-430	BL-430	10	10		10		10		10	2		
PA-440	BL-440	10	10		10		10		10	2		
PA-451	BL-451	10	10		10		10		10	2		
PA-460	BL-460	10	10		10		10		10	2		
PA-508	BL-508	5	5		5		5		5			
PA-512	BL-512	5	5		5		5		5			
PA-520	BL-520	5	5		5		5		5			
PA-530	BL-530	5	5		5		5		5			
PA-540	BL-540	5	5		5		5		5			
PA-551	BL-551	5	5		5		5		5			
PA-560	BL-560	5	5		5		5		5			
PA-608	BL-608	4	4		4		4		4			
PA-612	BL-612	4	4		4		4		4			
PA-620	BL-620	4	4		4		4		4			
PA-630	BL-630	4	4		4		4		4			
PA-640	BL-640	4	4		4		4		4			
PA-651	BL-651	4	4		4		4		4			
PA-660	BL-660	4	4		4		4		4			
PA-708	BL-708					5						
PA-712	BL-712					5						
PA-720	BL-720					5						
PA-730	BL-730					5						
PA-740	BL-740					5						
PA-751	BL-751					5						
PA-760	BL-760					5						
PAB-308	BLB-308	5		5	5			5	5			
PAB-312	BLB-312	5		5	5			5	5			
PAB-320	BLB-320	5		5	5			5	5			
PAB-330	BLB-330	5		5	5			5	5			
PAB-340	BLB-340	5		5	5			5	5			
PAB-351	BLB-351	5		5	5			5	5			
PAB-360	BLB-360	5		5	5			5	5		2	
PAE-308	BLE-308	5		5	5			5	5		2	
PAE-312	BLE-312	5		5	5			5	5		2	
PAE-320	BLE-320	5		5	5			5	5		2	
PAE-330	BLE-330	5		5	5			5	5		2	
PAE-340	BLE-340	5		5	5			5	5		2	
PAE-351	BLE-351	5		5	5			5	5		2	
PAE-360	BLE-360	5		5	5			5	5		2	
PAJ-308	BLJ-308	10		10	10			5	5			
PAJ-312	BLJ-312	10		10	10			5	5		2	
PAJ-320	BLJ-320	10		10	10			5	5		2	
PAJ-330	BLJ-330	10		10	10			5	5		2	
PAJ-340	BLB-340	10		10	10			5	5			
PAJ-351	BLJ-351	10		10	10			5	5			
PAJ-360	BLJ-360	10		10	10			5	5		2	
PAA-B410	BLA-B410	5			5							5
PAA-G360	BLA-G360	5			5							5
PAA-R340	BLA-R340	5			5							5
PAA-R350	BLA-R350	5			5							5
PAA-S420	BLA-S420	5			5							5
PAA-B430	BLA-B430											5
PAA-O370	BLA-O370											5
PAA-O380	BLA-O380											5

*Also includes carded fitting assortment BLD-27 (see page 17 for contents)




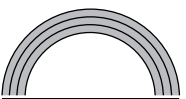

COILED TUBING

AGS coils are the same copper-brazed, double-walled, steel tubing as used in our pre-made lines. When combined with AGS tube nuts and flaring tool, 25 foot lengths are an economical solution for shops that want to build their own lines, custom lengths or non-standard applications.

3/16"

25' BRAKE LINE COIL

**Use to fabricate 3/16" Domestic, European, Japanese, British, and adapter brake lines*


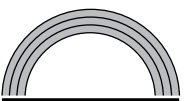

			
	Poly-Armour Catalog No.	Standard Catalog No.	NiCopp Catalog No.
25"	PAC-325	BLC-325	CNC-325
100"	NA	NA	CNC-3100

Description / Length	Tube Nuts *Purchased Separately
3/16" X 25'	BLF-10, 11, 12, 38, 39, 40, 41, 42, 47, 48, 49

1/4"

25' BRAKE LINE COIL

**Use to fabricate 1/4" Domestic and adapter brake lines*


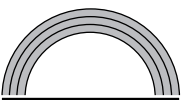

			
	Poly-Armour Catalog No.	Standard Catalog No.	NiCopp Catalog No.
25"	PAC-425	BLC-425	CNC-425
100"	NA	NA	CNC-4100

Description / Length	Tube Nuts *Purchased Separately
1/4" X 25'	BLF-13, 16, 43, 44, 46

5/16"

25' FUEL & TRANSMISSION LINE COIL

**Use to fabricate 5/16" fuel and transmission lines*




			
	Poly-Armour Catalog No.	Standard Catalog No.	NiCopp Catalog No.
25"	PAC-525	BLC-525	CNC-525
100"	NA	NA	CNC-5100

Description / Length	Tube Nuts *Purchased Separately
5/16" X 25'	BLF-14, FLR-009

3/8"

25' FUEL & TRANSMISSION LINE COIL

**Use to fabricate 3/8" fuel and transmission lines*



			
	Poly-Armour Catalog No.	Standard Catalog No.	NiCopp Catalog No.
25"	PAC-625	BLC-625	CNC-625
100"	NA	NA	CNC-6100

Description / Length	Tube Nuts *Purchased Separately
3/8" X 25'	BLF-15, FLR-008

6mm

25' BRAKE LINE COIL

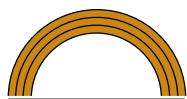
**Use to fabricate 6mm GM and adapter brake lines*

		
	Poly-Armour Catalog No.	Standard Catalog No.
25"	PAC-725	BLC-725
100"	NA	NA

Description / Length	Tube Nuts *Purchased Separately
6mm X 25'	BLF-51, 52, 53

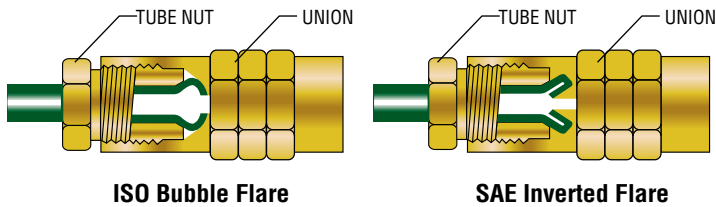
25' ANNEALED COPPER TUBING COIL

**For low pressure applications—not brake line*



Standard Catalog No.	Diameter	Description / Length	Compression Fitting *Purchased Separately
CT-225	1/8" (3.175mm)	1/8" X 25'	CF-0
CT-325	3/16" (4.763mm)	3/16" X 25'	CF-1
CT-425	1/4" (6.35mm)	1/4" X 25'	CF-2
CT-525	5/16" (7.938mm)	5/16" X 25'	CF-3
CT-625	3/8" (9.525mm)	3/8" X 25'	CF-4
CT-725	1/2" (12.7mm)	1/2" X 25'	CF-5

AGS Fittings are comprised of **Tube Nuts**, **Unions** (Couplers), and **Adapters**; used primarily in the automotive hydraulic braking, fuel, and transmission systems. Fittings are offered in a variety of packaging options, including: retail clam-shells, bulk boxed, and plastic tray assortments. The following provides guidelines for selecting and identifying fittings.



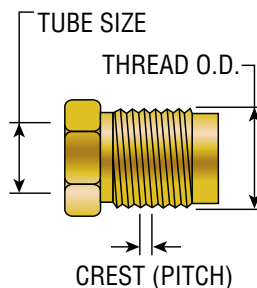
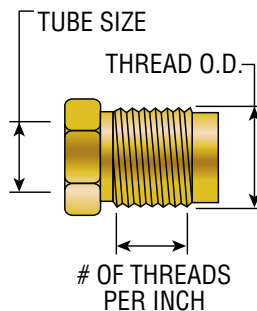
Automotive hydraulic brake fittings are formed to work with either SAE Inverted Double Flare (Domestic and Japanese vehicles) or ISO Bubble Flare (European and British vehicles). In either case, the fitting (whether a Tube Nut, Union, or Adapter) must be selected to match the end form of the tube or port it will be mating to or a proper seal will not be possible.

Standard UNF Imperial Threads

Nominal Tube Size	Thread O.D.	Threads Per Inch	Thread Description
3/16"	3/8	24	3/8-24
1/4"	7/16	24	7/16-24
5/16"	1/2	20	1/2-20
3/8"	5/8	18	5/8-18

Standard Metric Threads

Description Tube Size	Thread O.D.	Crest (Pitch)	Thread Description
Japanese 3/16"	10mm	1.0mm	M10 x 1.0
European 3/16"	10mm	1.0mm	M10 x 1.0
GM 6mm	12mm	1.0mm	M12 x 1.0
Fuel 5/16"	14mm	1.5mm	M14 x 1.5
Fuel 3/8"	16mm	1.5mm	M16 x 1.5



The charts and diagrams on the left refer to the standard thread measures for the nominal tube sizes and how they are determined for both imperial and metric fittings. Non-standard thread sizes do exist for each of the nominal tube sizes however and this is only used as a guide.

Example: BLF-41 has a tube size of 3/16" and a thread measure of 1/2-20.

Measuring Imperial Threads: Measure the O.D. of the threads and the number of threads in one inch.

Measuring Metric Threads: Measure the O.D. of the threads and the crest to crest distance (pitch) in millimeters between threads.

For more information on automotive fittings, go to www.agscompany.com

TUBE NUTS



Tube nuts are used in all types of automotive hydraulic lines, including: brake, fuel, oil, and transmission. To make connection, place nut over the tubing with the threaded end pointed towards the end to be flared (repeat on other end of tube). The tube flare will be clamped between the nut and the flare seat when tightened.

Fitting	5 per Card	10 per Bag	1 per Bag	100 per Box	Tube Size	Thread Size / Flare	Edelmann	Weatherhead
Steel	Use for 3/16" Domestic brake lines.							
	BLF-10C-5	BLF-10	BLF-10B	BLFX-10	3/16"	3/8-24 Inverted	121030	7896x3
	Use for 3/16" Domestic adapter brake lines.							
	BLF-11C-5	BLF-11	BLF-11B	BLFX-11	3/16"	7/16-24 Inverted	121034	NA
	Use for 3/16" Domestic brake lines.*							
	BLF-12C-5	BLF-12	BLF-12B	BLFX-12	3/16"	3/8-24 Inverted	121030	7896x3
	Use for 1/4" Domestic brake lines.*							
	BLF-13C-5	BLF-13	BLF-13B	BLFX-13	1/4"	7/16-24 Inverted	121004	105x4
	Use for 5/16" Domestic fuel and transmission lines.*							
	BLF-14C-5	BLF-14	BLF-14B	BLFX-14	5/16"	1/2-20 Inverted	121005	105x5

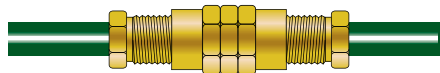
*Available in Black Oxide coated.

TUBE NUTS (Continued)








Fitting	5 per Card	10 per Bag	1 per Bag	100 per Box	Tube Size	Thread Size / Flare	Edelmann	Weatherhead
	Use for 3/8" Domestic fuel and transmission lines.*							
	BLF-15C-5	BLF-15	BLF-15B	BLFX-15	3/8"	5/8-18 Inverted	121006	105x6
	Use for 1/4" Domestic brake lines.							
	BLF-16C-5	BLF-16	BLF-16B	BLFX-16	1/4"	7/16-24 Inverted	121040	7896x4
	Use for 3/16" British brake lines.							
	BLF-38C-5	BLF-38	BLF-38B	BLFX-38	3/16"	3/8-24 Bubble	NA	NA
	Use for 3/16" European brake lines.							
	BLF-39C-5	BLF-39	BLF-39B	BLFX-39	3/16"	M10 x 1.0 Bubble	276110	NA
	Use for 3/16" Japanese brake lines.							
	BLF-40C-5	BLF-40	BLF-40B	BLFX-40	3/16"	M10 x 1.0 Inverted	121050	NA
	Use for 3/16" Domestic adapter brake lines.							
	BLF-41C-5	BLF-41	BLF-41B	BLFX-41	3/16"	1/2-20 Inverted	NA	NA
	Use for 3/16" Domestic adapter brake lines.							
	BLF-42C-5	BLF-42	BLF-42B	BLFX-42	3/16"	9/16-18 Inverted	121039	NA
	Use for 1/4" Domestic adapter brake lines.							
	BLF-43C-5	BLF-43	BLF-43B	BLFX-43	1/4"	9/16-18 Inverted	121049	NA
	Use for 1/4" Domestic adapter brake lines.							
	BLF-44C-5	BLF-44	BLF-44B	BLFX-44	1/4"	1/2-20 Inverted	121045	NA
	Use for 6mm Import adapter brake lines.							
	BLF-46C-5	BLF-46	BLF-46B	BLFX-46	6mm	M12 x 1.0 Bubble	NA	NA
	Use for 3/16" Import adapter brake lines.							
	BLF-47C-5	BLF-47	BLF-47B	BLFX-47	3/16"	M11 x 1.5 Bubble	276011	NA
	Use for 3/16" Import adapter brake lines.							
	BLF-48C-5	BLF-48	BLF-48B	BLFX-48	3/16"	M12 x 1.0 Bubble	276012	NA
	Use for 3/16" Import adapter brake lines.							
	BLF-49C-5	BLF-49	BLF-49B	BLFX-49	3/16"	M13x 1.5 Bubble	276013	NA
	Use for 6mm GM brake lines.							
	BLF-51C-5	BLF-51	BLF-51B	BLFX-51	6mm	M12 x 1.0 Bubble	NA	NA
	Use for 6mm GM adapter brake lines.							
	BLF-52C-5	BLF-52	BLF-52B	BLFX-52	6mm	M12 x 1.5 Bubble	NA	NA
	Use for 6mm GM adapter brake lines.							
	BLF-53C-5	BLF-53	BLF-53B	BLFX-53	6mm	M14 x 1.5 Bubble	NA	NA
	Use for 3/8" Domestic fuel lines.							
	FLR-008C	FLR-008	FLR-008B	FLRX-008	3/8"	M16 x 1.5 Surface Seal	121070	NA
	Use for 5/16" Domestic fuel lines.							
	FLR-009C	FLR-009	FLR-009B	FLRX-009	5/16"	M14 x 1.5 Surface Seal	121069	NA

*Available in Black Oxide coated.

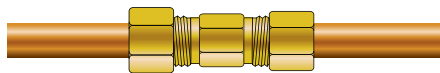
UNIONS



Unions are used to join two brake, fuel, or transmission lines together. This may be needed, for example, in long runs from the dual master cylinder to the rear axle. Match the thread and flare type to the lines being connected. It is important that both flare type and thread match for a leak-proof connection.

	Fitting	1 per Card	10 per Bag	1 per Bag	100 per Box	Tube Size	Thread Size / Flare	Edelmann	Weatherhead
Brass		Use for joining 3/16" Domestic brake lines.							
		BLU-3C	BLU-3	BLU-3B	BLUX-3	3/16"	3/8-24 Inverted	123300	302x3
		Use for joining 1/4" Domestic brake lines.							
		BLU-4C	BLU-4	BLU-4B	BLUX-4	1/4"	7/16-24 Inverted	123400	302x4
Brass		Use for joining 5/16" fuel and transmission lines.							
		BLU-5C	BLU-5	BLU-5B	BLUX-5	5/16"	1/2-20 Inverted	123500	302x5
		Use for joining 3/8" fuel and transmission lines.							
		BLU-6C	BLU-6	BLU-6B	BLUX-6	3/8"	5/8-18 Inverted	123600	302x6
Steel		Use for joining 3/16" British brake lines.							
		BLU-7C	BLU-7	BLU-7B	BLUX-7	3/16"	3/8-24 Bubble	275300	7940
Brass		Use for joining 3/16" European brake lines.							
		BLU-8C	BLU-8	BLU-8B	BLUX-8	3/16"	M10 x 1.0 Bubble	276000	7941
		Use for joining 3/16" Japanese brake lines.							
		BLU-9C	BLU-9	BLU-9B	BLUX-9	3/16"	M10 x 1.0 Inverted	274000	7934A
Brass		Use for joining 6mm GM brake lines.							
		BLU-10C	BLU-10	BLU-10B	BLUX-10	6mm	M12 x 1.0 Bubble	NA	NA

COMPRESSION UNIONS

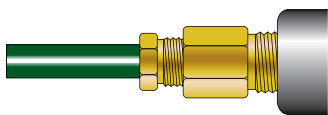


Compression unions are used in low pressure application such as: air, oil, and water. They are generally used to connect lengths of copper, brass, and aluminum tubing. To make connection, place the nut and then the sleeve over the tubing and then insert tube into the fitting body. When tight, the wedging action of sleeve between body and nut create a leak free connection.

	Fitting	1 per Card	10 per Bag	1 per Bag	100 per Box	Tube Size	Thread Size / Flare	Edelmann	Weatherhead
Brass		Use for joining 1/8" copper, brass, or aluminum tubing in low-pressure applications (NOT brake lines).							
		CF-0	CFB-0	CF-0B	CFX-0	1/8"	NA	162200	62 x 2
		Use for joining 3/16" copper, brass, or aluminum tubing in low-pressure applications (NOT brake lines).							
		CF-1	CFB-1	CF-1B	CFX-1	3/16"	NA	162300	62 x 3
		Use for joining 1/4" copper, brass, or aluminum tubing in low-pressure applications (NOT brake lines).							
		CF-2	CFB-2	CF-2B	CFX-2	1/4"	NA	162400	62 x 4
		Use for joining 5/16" copper, brass, or aluminum tubing in low-pressure applications (NOT brake lines).							
		CF-3	CFB-3	CF-3B	CFX-3	5/16"	NA	162500	62 x 5
		Use for joining 3/8" copper, brass, or aluminum tubing in low-pressure applications (NOT brake lines).							
		CF-4	CFB-4	CF-4B	CFX-4	3/8"	NA	162600	62 x 6
		Use for joining 1/2" copper, brass, or aluminum tubing in low-pressure applications (NOT brake lines).							
		CF-5	CFB-5***	CF-5B**	CFX-5*	1/2"	NA	162800	62 x 8

* CFX-5 available in quantities of 10 per box only. **CF-5B available in quantities of 5 per box only. ***CFB-5 available in quantities of 5 per bag only.

BRAKE ADAPTER FITTINGS



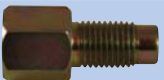


Adapter fittings are generally used to allow connection of standard brake lines to the different sized ports used in dual master cylinders. Simply match the male side of the adapter to the port connection on the dual master cylinder and the female side of the adapter to the brake line connection to be made.

Fitting	1 per Card	10 per Bag	1 per Bag	100 per Box	Female	Male	Edelmann	Weatherhead
	<i>Use for adapting a 7/16-24 Inverted port to a 5/16" Domestic fuel line.</i>							
	BLF-17C	BLF-17	BLF-17B	BLFX-17	1/2-20 Inverted	7/16-24 Inverted	258540	7917
	<i>Use for adapting a 1/2-20 Inverted port to a 3/8" Domestic fuel line.</i>							
	BLF-18C	BLF-18	BLF-18B	BLFX-18	5/8-18 Inverted	1/2-20 Inverted	258650	7915
	<i>Use for adapting a 1/2-20 Inverted port to a 1/4" Domestic brake line.</i>							
	BLF-19C	BLF-19	BLF-19B	BLFX-19	7/16-24 Inverted	1/2-20 Inverted	258450	7829
	<i>Use for adapting a 1/2-20 Inverted port to a 3/16" Domestic brake line.</i>							
	BLF-20C	BLF-20	BLF-20B	BLFX-20	3/8-24 Inverted	1/2-20 Inverted	258350	7909
	<i>Use for adapting a 9/16-18 Inverted port to a 5/16" Domestic fuel line.</i>							
	BLF-21C	BLF-21	BLF-21B	BLFX-21	1/2-20 Inverted	9/16-18 Inverted	258307	7913
	<i>Use for adapting a 7/16-24 Inverted port to a 3/16" Domestic brake line.</i>							
	BLF-22C	BLF-22	BLF-22B	BLFX-22	3/8-24 Inverted	7/16-24 Inverted	258340	7818
	<i>Use for adapting a 3/8-24 Inverted port to a 1/4" Domestic brake line.</i>							
	BLF-23C	BLF-23	BLF-23B	BLFX-23	7/16-24 Inverted	3/8-24 Inverted	258430	7828
	<i>Use for adapting a 5/8-18 Inverted port to a 5/16" Domestic fuel line.</i>							
	BLF-24C	BLF-24	BLF-24B	BLFX-24	1/2-20 Inverted	5/8-18 Inverted	258560	7916
	<i>Use for adapting a 9/16-18 Inverted port to a 1/4" Domestic brake line.</i>							
	BLF-25C	BLF-25	BLF-25B	BLFX-25	7/16-24 Inverted	9/16-18 Inverted	258403	7908
	<i>Use for adapting a 1/2-20 Inverted port to a 9/16-18 Inverted connection.</i>							
	BLF-26C	BLF-26	BLF-26B	BLFX-26	9/16-18 Inverted	1/2-20 Inverted	258306	7912
	<i>Use for adapting a 9/16-20 Inverted port to a 3/16" Domestic brake line.</i>							
	BLF-27C	BLF-27	BLF-27B	BLFX-27	3/8-24 Inverted	9/16-20 Inverted	258303	7910
	<i>Use for adapting a 9/16-18 Inverted port to a 3/16" Domestic brake line.</i>							
	BLF-28C	BLF-28	BLF-28B	BLFX-28	3/8-24 Inverted	9/16-18 Inverted	258302	7911
	<i>Use for adapting a Japanese port to a 3/16" Domestic brake line.</i>							
	BLF-29C	BLF-29	BLF-29B	BLFX-29	3/8-24 Inverted	M10 x 1.0 Inverted	270300	1433
	<i>Use for adapting a British port to a 3/16" Domestic brake line.</i>							
	BLF-30C	BLF-30	BLF-30B	BLFX-30	3/8-24 Inverted	3/8-24 Bubble	272330	1441
	<i>Use for adapting a European port to a 3/16" Domestic brake line.</i>							
	BLF-31C	BLF-31	BLF-31B	BLFX-31	3/8-24 Inverted	M10 x 1.0 Bubble	271300	1442
	<i>Use for adapting a Metric Bubble port to a 3/16" Domestic brake line.</i>							
	BLF-32C	BLF-32	BLF-32B	BLFX-32	3/8-24 Inverted	M11 x 1.5 Bubble	264000	7973
	<i>Use for adapting a Metric Bubble port to a 3/16" Domestic brake line.</i>							
	BLF-33C	BLF-33	BLF-33B	BLFX-33	3/8-24 Inverted	M12 x 1.0 Bubble	265000	7974

Brass

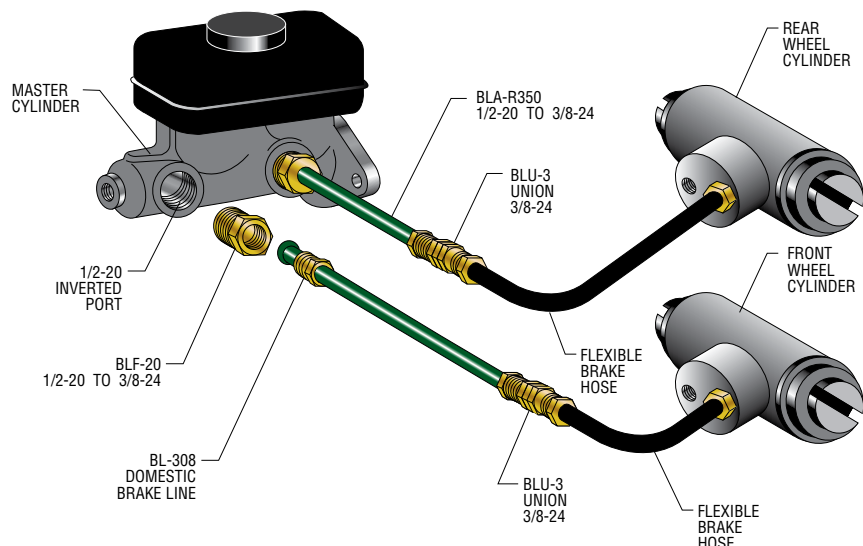
BRAKE ADAPTER FITTINGS (Continued)

Fitting	1 per Card	10 per Bag	1 per Bag	100 per Box	Female	Male	Edelmann	Weatherhead
Brass		Use for adapting a Metric Bubble port to a 3/16" Domestic brake line.						
	BLF-34C	BLF-34	BLF-34B	BLFX-34	3/8-24 Inverted	M13 x 1.5 Bubble	263000	7972
		Use for adapting a Metric Bubble port to a 3/16" Japanese brake line.						
	BLF-35C	BLF-35	BLF-35B	BLFX-35	M10 x 1.0 Inverted	M11 x 1.5 Bubble	NA	7935
Brass		Use for adapting a GM 6mm port to a 3/16" Japanese brake line.						
	BLF-36C	BLF-36	BLF-36B	BLFX-36	M10 x 1.0 Inverted	M12 x 1.0 Bubble	NA	7936
		Use for adapting a Metric Bubble port to a 3/16" Japanese brake line.						
	BLF-37C	BLF-37	BLF-37B	BLFX-37	M10 x 1.0 Inverted	M13 x 1.5 Bubble	NA	7937
Steel		Use for adapting a Metric Inverted port to a 3/16" British brake line.						
	BLF-54C	BLF-54	BLF-54B	BLFX-54*	3/8-24 Bubble	M9 x 1.0 Inverted	NA	NA
Steel		Use for adapting a 7/16-20 Bubble port to a 3/16" British brake line.						
	BLF-55C	BLF-55	BLF-55B	BLFX-55	3/8-24 Bubble	7/16-20 Bubble	NA	NA
Brass		Male elbow for 3/16" brake line						
	BLF-56C	BLF-56	BLF-56B	BLFX-56	3/8-24 Inverted	1/8" NPTF	122320	402 x 3
		Male connector for 3/16" brake line						
	BLF-57C	BLF-57	BLF-57B	BLFX-57	3/8-24 Inverted	1/8" NPTF	124320	202 x 3
		Male branch tee for 3/16" brake line						
Brass	BLF-58C	BLF-58	BLF-58B	BLFX-58	3/8-24 Inverted	1/8" NPTF	228200	3600 x 2
		Union tee for 3/16" brake line						
	BLF-59C	BLF-59	BLF-59B	BLFX-59	3/8-24 Inverted	NA	130333	702 x 3
Brass		Plug for 3/16" brake line						
	BLF-60C	BLF-60	BLF-60B	BLFX-60	NA	3/8-24 Inverted	120300	NA

* BLFX-54 available in quantities of 10 per box only.

BRAKE SYSTEM CONNECTION DIAGRAM

The diagram is simplified to show how the connection from master cylinder to the wheel cylinder is made. Two options for adapting the different sized ports on the master cylinder (1/2-20) to a standard 3/16" domestic brake system (3/8-24) are shown. One uses a simple adapter fitting (BLF-20) while the other uses an 8" adapter line (BLA-R350) and a union (BLU-3). Both are good solutions and accomplish the same objective.



ASSORTMENT DESCRIPTIONS

AGS Fitting Assortments are designed for the specialty and general repair shops. Each assortment contains a specific collection of fast moving fittings that should be kept on hand when working with automotive hydraulic braking systems. Assortments are packaged in shatter-resistant, see-through plastic trays. Locator labels on the inside lid make locating, selecting, and re-filling quick and easy.

BLFA-1 Tube Nut Assortment - 9 SKU

Includes nine specialized tube nuts used in 8" brake adapter lines for connecting different sized port openings on master cylinders to standard brake systems. Contains both SAE Inverted and ISO Bubble tube nuts as well as UNF Imperial and Metric threads.



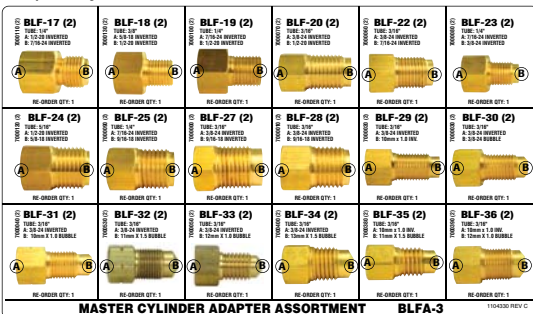
BLFA-2 Metric Fitting Assortment - 9 SKU

Assortment of nine most popular metric fittings (tube nuts, unions, and adapters) for use when working with braking systems of Japanese and European vehicles.



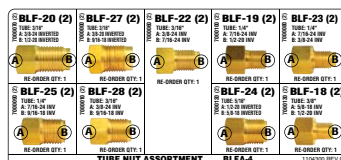
BLFA-3 Master Cylinder Adapter Assortment - 18 SKU

A complete master cylinder adapter assortment for converting different sized port opening on master cylinders to standard braking systems. Adapters are included for converting from non-standard UNF imperial threads to standard 3/16", 1/4", 5/16" and 3/8" brake, fuel, and transmission systems. Also convert domestic systems to import systems and vice-versa.



BLFA-4 Master Cylinder Adapter Assortment - 9 SKU

Nine of the most popular master cylinder adapters for Domestic vehicles. Adapt different sized port openings on master cylinders to standard 3/16" and 1/4" Domestic brake systems. Also includes adapters for converting between 5/16" and 3/8" port sizes.



BLFA-5 Large Fitting Assortment - 24 SKU

An assortment of 24 most popular Tube Nuts, Unions, and Adapters for most repair shops. Includes Tube Nuts for all Domestic applications, as well as 6mm and Japanese. Also includes Unions for 3/16" and 1/4" Domestic, Japanese and European vehicles. Popular adapters include European to Domestic and Japanese to Domestic. Also included are non-standard Tube Nuts for adapter line applications.



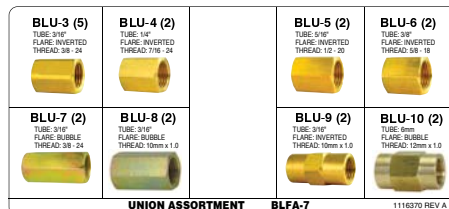
BLFA-6 Large Fitting Assortment - 18 SKU

An assortment of 18 Tube Nuts, Unions, and Adapters for any repair shop and especially those working on import vehicles. Includes Tube Nuts for all Import brake applications, as well as 3/16" Domestic. Also includes Unions for British and GM 6mm. Adapters include a 6mm to 3/16" Domestic brake system.



BLFA-7 Union Assortment - 8 SKU

An assortment of 8 brass unions for joining all types of brake and fluid transfer lines: Domestic 3/16", 1/4", 5/16", 3/8", Japanese, European, British, and 6mm.



BLD-27 Carded Fitting Assortment

Includes 20 of the most popular Unions and Brake Adapter Fittings. All fittings are carded, one fitting per clamshell. Rack is designed to fit in front of AGS Steel Line floor display. Display can also be wall-mounted separately.

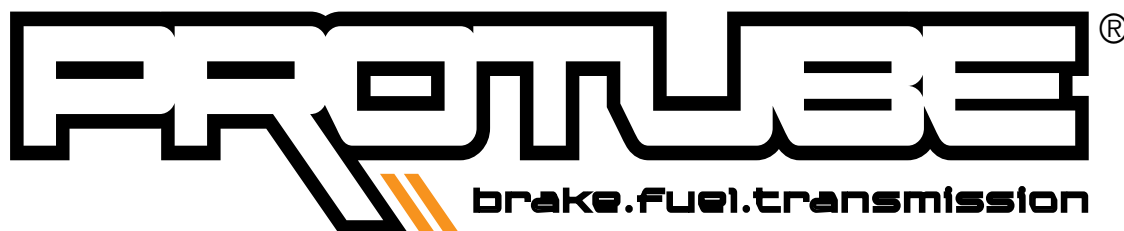
ASSORTMENT CONTENTS

Fitting Part No.	ASSORTMENTS							
	BLFA-1	BLFA-2	BLFA-3	BLFA-4	BLFA-5	BLFA-6	BLFA-7	BLD-27
BLF-10						10		
BLF-11	5				10			
BLF-12					10			
BLF-13					10			
BLF-14					10			
BLF-15						10		
BLF-16					10			
BLF-17			2					5*
BLF-18			2	2	5	5		5*
BLF-19			2	2		5		5*
BLF-20			2	2		5		5*
BLF-22			2	2				5*
BLF-23			2	2				5*
BLF-24			2	2				5*
BLF-25			2	2				5*
BLF-27			2	2				5*
BLF-28			2	2				5*
BLF-29		5	2		5			5*
BLF-30			2		5			5*
BLF-31		2	2		5	5		5*
BLF-32			2			5		
BLF-33			2			5		
BLF-34			2			5		
BLF-35			2					
BLF-36			2					
BLF-38						10		
BLF-39	5	5				10		
BLF-40		5			10	10		
BLF-41	5				5			
BLF-42	5				5			
BLF-43	5				5			
BLF-44	5				5			
BLF-47	5	5			5			
BLF-48	5	5			5			
BLF-49	5	5			5			
BLF-51						5		
BLF-52						5		
BLF-53						5		
BLU-3					5		2	5*
BLU-4					5		2	5*
BLU-5					5		2	5*
BLU-6						2	2	5*
BLU-7						2	2	5*
BLU-8		2			5		2	5*
BLU-9		2			5		2	5*
BLU-10						2	2	
FLR-008					2			
FLR-009					2			

* All Fittings are carded with one fitting per clamshell.



PERFORMANCE STEEL LINES & COILS



Professional custom car builders make sure the details are covered. Protube Performance Steel lines make sure ALL the details are covered. Gives a professional and custom look to race cars, hot rods, tuner cars, etc...

- Copper-brazed & zinc coatings = **High Corrosion Resistance**
- Double-wall, low carbon steel = **High Pressure Capable**

- EZ-Bend™ construction = **Easy to Bend, No Kinking**
- 6 colors in 4 diameters, coiled or straight lengths = **Custom Professional Detail**

* Lines below shown with Black Oxide Steel Tube Nuts & Flare. Lines come unflared & Black Oxide Tube Nuts sold separately.



RACING RED



BLAZIN' BLUE



CHROME YELLOW



GO FAST GREEN



QUICK SILVER



STEALTH BLACK

STRAIGHT LINES

Protube Line Catalog No.	Description	Lines per Tube
BLP-360R	3/16" x 5'	5
BLP-460R	1/4" x 5'	5
BLP-572R	5/16" x 6'	5
BLP-672R	3/8" x 6'	5
BLP-360B	3/16" x 5'	5
BLP-460B	1/4" x 5'	5
BLP-572B	5/16" x 6'	5
BLP-672B	3/8" x 6'	5
BLP-360Y	3/16" x 5'	5
BLP-460Y	1/4" x 5'	5
BLP-572Y	5/16" x 6'	5
BLP-672Y	3/8" x 6'	5
BLP-360G	3/16" x 5'	5
BLP-460G	1/4" x 5'	5
BLP-572G	5/16" x 6'	5
BLP-672G	3/8" x 6'	5
BLP-360S	3/16" x 5'	5
BLP-460S	1/4" x 5'	5
BLP-572S	5/16" x 6'	5
BLP-672S	3/8" x 6'	5
BLP-360D	3/16" x 5'	5
BLP-460D	1/4" x 5'	5
BLP-572D	5/16" x 6'	5
BLP-672D	3/8" x 6'	5

25' COILS

Protube Coil Catalog No.	Description
BLPC-325R	3/16" x 25'
BLPC-425R	1/4" x 25'
BLPC-525R	5/16" x 25'
BLPC-625R	3/8" x 25'
BLPC-325B	3/16" x 25'
BLPC-425B	1/4" x 25'
BLPC-525B	5/16" x 25'
BLPC-625B	3/8" x 25'
BLPC-325Y	3/16" x 25'
BLPC-425Y	1/4" x 25'
BLPC-525Y	5/16" x 25'
BLPC-625Y	3/8" x 25'
BLPC-325G	3/16" x 25'
BLPC-425G	1/4" x 25'
BLPC-525G	5/16" x 25'
BLPC-625G	3/8" x 25'
BLPC-325S	3/16" x 25'
BLPC-425S	1/4" x 25'
BLPC-525S	5/16" x 25'
BLPC-625S	3/8" x 25'
BLPC-325D	3/16" x 25'
BLPC-425D	1/4" x 25'
BLPC-525D	5/16" x 25'
BLPC-625D	3/8" x 25'






BLACK OXIDE STEEL TUBE NUTS

Carded Catalog No.	Qty	Tube Size	Threaded Size/Flare	Material	Coating
BLPF-12C-5	5	3/16"	3/8-24 Inverted	Steel	Black Oxide
BLPF-13C-5	5	1/4"	7/16-24 Inverted	Steel	Black Oxide
BLPF-14C-5	5	5/16"	1/2-20 Inverted	Steel	Black Oxide
BLPF-15C-5	5	3/8"	9/16-18 Inverted	Steel	Black Oxide
BLPF-38C-5	5	3/16"	3/8-24 Bubble	Steel	Black Oxide
BLPF-39C-5	5	3/16"	M10 x 1.0 Bubble	Steel	Black Oxide
BLPF-40C-5	5	3/16"	M10 x 1.0 Inverted	Steel	Black Oxide



OIL COOLER LINES

ENGINE OIL COOLER LINES

Oil Cooler Line	Cat. No.	Description
	OCL-001	GM-2004-96 S10 Blazer, S15 Jimmy, S15 Sonoma, Bravada w/ 4.3L V-6 4WD Engine Oil Filter Hose
	OCL-101	GM-1999 Escalade, 1999-96 K Series w/ 5.0L, 2000-96 K Series w/ 5.7L, 1999-96 Suburban w/ 5.7L, 2000-96 Tahoe, Yukon w/ 5.7L, 4WD Engine Oil Cooler Upper-Inlet Hose
	OCL-102	GM-1994-88 S10 Blazer, S15 Jimmy, 1990-88 S15 Pickup, 1993-91 S15 Sonoma, 1991 S15 Syclone, 1993-92 Typhoon, 1994-91 Bravada w/ 4.3L V-6 4WD Engine Oil Filter Hose
	OCL-123	GM-2000-96 C/K Series, Suburban, Lower Outlet
	OCL-200	1996-2004, Crown Victoria, Grand Marquis, Town Car

AGS Engine Oil Cooler Lines are your best choice to avoid costly repairs with a high quality replacement solution.

➤ Superior Triple Crimp offers longer lasting, failure proof connection

➤ Premium CSM (Chlorosulphonated Polyethylene) Hose

➤ All installation hardware included to make replacement quick and easy

➤ End connection protectors guard against damage and contamination during shipping

➤ Aluminum tubing offers higher corrosion resistance than OE steel lines.

HOSE ASSEMBLIES

FUEL HOSE ASSEMBLIES

Fuel Clamp	Cat. No.	OE Hose No.	OE Sending Unit	Description
	FHA-GM1	22522706 14092558	25026816 25026821 25091334 25091401	1987-1989 Beretta, Corsica
	FHA-GM2	10050160	25004992 25091315 25091363 25092098 25092751 25092775 25092778 25093482 25093511 25093773 25093783	1985-1991 Cavalier, J2000, Skyhawk, Skylark, Sunbird 1986-1991 Achieva, Calais, Grand Am, Somerset 1985-1989 Cimarron, Firenze
	FHA-GM3	22527471 25528623	25091657 25092972 25093316 25027211 25027290 25027332	1985-1991 LeSabre, 98 Regency Deville, Fleetwood 1986-1990 Bonneville, Custom Cruiser, Delta 88, Electra, Park Avenue
	FHA-GM4	22528784 22528785	25093521 25092346 25092134 25094740	1986-1988 Celebrity, Century, Ciera

GM Fuel Hose Assemblies avoid costly OE replacement when replacing sending unit / fuel pump. Lines become rusted and corroded, requiring cutting. AGS assemblies save up to 80% over OE.

➤ Complete Pre-packaged Kit. Ready to install.

➤ Application Specific Fuel Supply and Return Lines

➤ Cost-saving solution for common problem

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The Terminator – The first in-line multi-flare tool . . . that works!

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