

New compact, ergonomic ball valve with zero restriction for refrigerant flow.

YELLOW JACKET[®] Vacuum and Charging Hoses – industry proven performance

Featuring *Plus II*[™] Hoses with double barrier construction for the environment.



Hoses for most commonly used refrigerants, plus new refrigerants, blends and azeotropes.

UL recognized assemblies.

Ritchie[®]
ENGINEERING COMPANY INC.
Right with you on every call.

www.yellowjacket.com

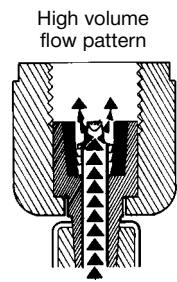
YELLOW JACKET® HOSES – there's one for every job with the name you know, the performance you want.

If you don't see the YELLOW JACKET brand name you're not getting the genuine item.

Other manufacturers say that "their hoses are as good as a YELLOW JACKET hose" – which is fine because it makes us the standard of comparison.

The original 1/4" YELLOW JACKET hose introduced in 1949 was widely accepted by industry professionals for all-weather flexibility and dependability.

With ongoing improvements throughout the years the original design is still hard at work. Among the many improve-



ments is the **Adjust-A-Valve-Opener™**. With this patented valve core depressor, you easily open all troublesome out-of-tolerance Schrader valves.

Simply adjust height with needle nose pliers. Use again and again. Replacement is convenient.

Hoses matched to the job and the refrigerant for reliability.

With the wide range of YELLOW JACKET

hoses – from premium 1/4" charging with permeation resistance to 3/4" heavy duty charging, stainless steel, and more – you can have just the right hose construction for the job. You can more readily match hose to commonly used refrigerants, as well as new refrigerants, blends and azeotropes.



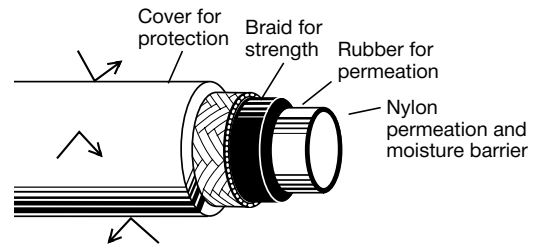
An extensive line for most commonly used refrigerants.

YELLOW JACKET PLUS II™ 1/4" CHARGING HOSES for the environment

YELLOW JACKET *Plus II* Hoses give you the proven performance benefits of the original line, plus multi-laminate construction with double barrier protection for CFC, HCFC and HFC control and system performance.

*Technical paper available on www.yellowjacket.com

- 1. Nylon permeation barrier** meets SAE requirements J2196.
- 2. Moisture barrier** provides maximum resistance to moisture migration which contaminates expensive refrigerants.



UL recognized assembly.



Hose safety inspection –

Inspect your hoses on a regular basis. If your hoses are more than 5 years old, we recommend that you replace them.

Since 1964, 1/4" YELLOW JACKET Charging Hoses have "year of

manufacture" coded on the rim of the nut. A series of dots, I's, X's, O's or A's

following YELLOW JACKET indicates the years as follows:

6	1964	6 OOOOOO	1983	6 AAAAAA	1989	6 BBBBBB	1995	6 CCCCCC	2001
1 .	1970	5 OOOOO	1984	5 AAAAA	1990	5 BBBBB	1996		
6 IIIII	1971	4 OOOO	1985	4 AAAA	1991	4 BBBB	1997		
1 I	1976	3 OOO	1986	3 AAA	1992	3 BBB	1998		
6 XXXXXX	1977	2 OO	1987	2 AA	1993	2 BB	1999		
1 X	1982	1 O	1988	1 A	1994	1 B	2000		

The latest advances –

- All YELLOW JACKET 1/4" *Plus II* colored hose assemblies are now fully UL recognized assemblies (File SA9737). That's not only the hose but the whole assembly, including SealRight™ low loss fittings and ball valves.
- YELLOW JACKET 3/8" standard hose is now *Plus II* construction available in red, blue and yellow.
- New compact 1/4" ball valve for tight spaces where a low loss fitting is needed. UL recognized.

HOSE LOCATOR

Hose type	Pg.	1/4"	3/8"	1/2"	5/8"	3/4"	Other
Premium charging	25						
3 Pak & 4 Pak	25-27						
<i>Plus II</i> charging	26-29						
134a automotive	29						
Standard charging	27						
Heavy duty charging	28, 29						
Heavy duty combination vacuum/charging	28, 29						
Ammonia	32						
Metal hose (page 30) is available from 1/4" to 3" MPT, sweat, flare. Teflon hose (page 31) from 1/4" to 3" MPT, flare.							

NOTE: Hoses not rated for use with R-290 butane or R-600 propane.

YELLOW JACKET® PREMIUM 1/4" CHARGING HOSES



Features in addition to the individual hose inspection, full size brass nuts, adjustable valve opener, and other features and benefits on page 24 –

- 2500 psi minimum burst and 500 psi maximum working pressure mean a 5 to 1 safety factor.
- Specially formulated rubber tube resists most refrigerants and assures long work life.
- Blow-off groove channels refrigerant out of the front of the nut to help prevent spray back.
- Hose cover pin-pricked to resist bubbling and bursting.
- 6" to 100' lengths in yellow, red, blue, and white. Longer lengths are available.
- Brass or chrome fittings.

3 Paks & 4 Paks

- Each hose color-coded for your convenience.
- 1/4" straight x 1/4" 45° angle fitting.

L.	Y - yellow		B - blue		W - white		R - red		3 - Pak			4 - Pak
	Y, B, W*	R, Y, B	R, W, B	R, Y, B	R, W, B	R, Y, B, W						
12"	11012	HA12Y	11212	HA12B	11412	HA12W	11612	HA12R				
24"	11024	HA24Y	11224	HA24B	11424	HA24W	11624	HA24R				
36"	11036	HA36Y	11236	HA36B	11436	HA36W	11636	HA36R	11963	11983	11973	11943
48"	11048	HA48Y	11248	HA48B	11448	HA48W	11648	HA48R	11964	11984	11874	11944
60"	11060	HA60Y	11260	HA60B	11460	HA60W	11660	HA60R	11965	11985	11975	11945
72"	11072	HA72Y	11272	HA72B	11472	HA72W	11672	HA72R	11966	11986	11976	11946
96"	11096	HA96Y	11296	HA96B	11496	HA96W	11696	HA96R	11968	11988	11978	–
10'	11110	HA120Y	11310	HA120B	11510	HA120W	11710	HA120R	* Color-coded: Y - yellow; B - blue; W - white; R - red			
12'	11112	HA144Y	11312	HA144B	11512	HA144W	11712	HA144R				
25'	11125	HA300Y	11325	HA300B	11525	HA300W	11725	HA300R				
50'	11150	HA600Y	11350	HA600B	11550	HA600W	11750	HA600R				
75'	11175	HA900Y	11375	HA900B	11575	HA900W	11775	HA900R				
100'	11200	HA1200Y	11399	HA1200B	11599	HA1200W	11799	HA1200R				

Hose with chrome plated fittings – longer lengths available

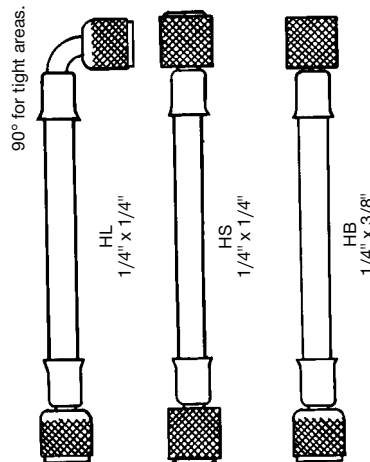
36"	11930	Yellow	11931	Blue	11932	White	11933	Red
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Hose gaskets page 34.

SPECIAL 1/4" PREMIUM CHARGING HOSES

YELLOW JACKET 1/4" yellow charging hoses with special fittings include straight, 3/8" and 90° fittings. Other colors are available.

L.	1/4" fl. x 1/4" 90° fl.	1/4" fl. x 1/4" fl.	1/4" fl. x 3/8" fl.
36"	12036 HL36	13036 HS36	14036 HB36
48"	12048 HL48	13048 HS48	14048 HB48
60"	12060 HL60	13060 HS60	14060 HB60
72"	12072 HL72	13072 HS72	14072 HB72
Longer lengths available. Please specify.			
See page 34 for hose gaskets.			



FITTINGS AVAILABILITY FOR 1/4" PREMIUM AND PLUS II HOSES	Type		
Type	Str	45°	90°
1/8" female flare			
3/16" female flare			
1/4" female flare			
1/4" female SealRight			
3/8" female flare			
1/4" male flare			
1/8" MPT			
1/4" MPT			
1/2" female Acme			
14mm male			
Not all hose and fitting combinations are listed in this catalog. Ask for specifics.			

YELLOW JACKET® PLUS II™ 1/4" CHARGING HOSES with double barrier protection



YELLOW JACKET *Plus II* Hoses have proven performance benefits of the original line, plus double barrier protection for CFC, HCFC and HFC (R-404A, R-134a, R-507, R-407C, R-410A, etc.).

- 1. Nylon permeation barrier** meets UL requirements. 1/4" *Plus II* hose is UL 1963 recognized component for R-12, R-22, R-500, R-502, and R-134a.
- 2. Moisture barrier** provides improved resistance to moisture migration which contaminates expensive refrigerant.

Other features include 4000 psi minimum burst and 800 psi maximum working pressure for a 5 to 1 safety factor.

Color-coded 3-Pak

Standard 1/4" fitting or 45° with SealRight fitting at one end.

Plus II Hoses - standard 1/4" fittings				
L.	Yellow	Blue	Red	3 - Pak
12"	21012	21212	21612	–
24"	21024	21224	21624	–
36"	21036	21236	21636	21983
48"	21048	21248	21648	21984
60"	21060	21260	21660	21985
72"	21072	21272	21672	21986
96"	21096	21296	21696	21988
10'	21110	21310	21710	–
12'	21112	21312	21712	–
25'	21125	21325	21725	–
50'	21150	21350	21750	–
75'	21175	21375	21775	–
100'	21200	21399	21799	–
Multi-length 3-Paks - 21982 two 36", one 60" 21981 two 36", one 72"				

UL recognized assemblies (File SA9737).
Hoses with 5/16" service end for R-410A on page 48.

PLUS II HOSE with SealRight™ low loss anti-blow back fitting



- Low loss anti-blowback SealRight fitting immediately traps refrigerant in the hose when disconnected, helping meet non-venting regulations and prevent finger burns.
- 45° end for ease in tight areas.
- Gaskets resist deterioration from existing CFC's, plus new HFC refrigerants and oils.
- Available with SealRight fittings on both ends.
- New ball valve hose recommended for R-410A.

See page 94 for "C" Clip tool to disassemble end.

45° SealRight fitting at one end				
L.	Yellow	Blue	Red	3 - Pak
12"	22012	22212	22612	–
24"	22024	22224	22624	–
36"	22036	22236	22636	22983
48"	22048	22248	22648	22984
60"	22060	22260	22660	22985
72"	22072	22272	22672	22986
96"	22096	22296	22696	22988
10'	22110	22310	22710	–
12'	22112	22312	22712	–
25'	22125	22325	22725	–
50'	22150	22350	22750	–
75'	22175	22375	22775	–
100'	22200	22399	22799	–
Multi-length 3-Paks - 22982 two 36", one 60" 22981 two 36", one 72"				

UL recognized assemblies (File SA9737).

9" FLEXFLOW™ AND LOW LOSS ADAPTER HOSES



Easy retrofit of existing *Plus II* hoses with ball valve capabilities. Flexible hose between valve and fitting for handling in tight areas.

Compact Ball Valve Assemblies		
UPC#	Description	
29001	1/4" yellow ball valve adapter	UL
29201	1/4" blue ball valve adapter	UL
29601	1/4" red ball valve adapter	UL
29980	3-pak: 29001, 29201, 29601	UL
93842	1/4" compact ball valve – 3 Pak	
93843	1/4" compact ball valve – 45°	

UL Underwriters Laboratories Inc.
Registered Component Mark.

FlexFlow™ Assemblies	
UPC#	Description
25002	1/4" yellow FlexFlow adapter
25202	1/4" blue FlexFlow adapter
25602	1/4" red FlexFlow adapter
25980	3-pak: 25002, 25202, 25602
25802	1/4" Heavy Duty FlexFlow adapter
26002	3/8" Heavy Duty FlexFlow adapter
26202	Yellow std. "B" FlexFlow adapter
27002	Acme 1/2" yellow FlexFlow adapter
19095	Set of 2 handles and screws
93833	1/4" replacement ball valve only
93832	3/8" replacement ball valve only
25001	Replacement yellow hose only
25201	Replacement blue hose only
25601	Replacement red hose only

YELLOW JACKET® PLUS II™ HOSE with compact ball valve end



- Full flow valve for faster recovery.
- Low loss fitting.
- Hose and ball valve rated for higher pressure. 4000 psi burst and 800 psi working pressure uses standard gasket and valve opening.
- UL recognized assemblies (File SA9737).

- New compact design ball valve at end of hose fits tight areas and traps all the gas.

Plus II hose with new ball valve end				
L.	Yellow	Blue	Red	3 - Pak
36"	29036	29236	29636	29983
48"	29048	29248	29648	29984
60"	29060	29260	29660	29985
72"	29072	29272	29672	29986
96"	29096	29296	29696	29988
10'	29110	29310	29710	-
12'	29112	29312	29712	-
25'	29125	29325	29725	-
50'	29150	29350	29750	-
75'	29175	29375	29775	-
100'	29199	29399	29799	-

Hoses with 5/16" service end for R-410A on page 48.


PLUS II HOSE with FlexFlow™ valve



Available with FlexFlow valve –

- Valve handle position shows when valve is opened, closed or anywhere between.
- Improved smaller ergonomic valve with zero restriction for maximum flow.
- Flexible length of hose between valve and fitting makes access easier to tight areas.
- UL recognized assemblies (File SA9737).

FlexFlow valve 6" from angle end				
L.	Yellow	Blue	Red	3 - Pak
36"	25036	25236	25636	25983
48"	25048	25248	25648	25984
60"	25060	25260	25660	25985
72"	25072	25272	25672	25986
96"	25096	25296	25696	25988
10'	25110	25310	25710	-
12'	25112	25312	25712	-
25'	25125	25325	25725	-
50'	25150	25350	25750	-
75'	25175	25375	25775	-
100'	25199	25399	25799	-

Hose gaskets page 34. 

3/8" PLUS II "B" CHARGING HOSE now available in colors

Special design puts YELLOW JACKET features in a larger volume 5/16" I.D.hose.

Hose now uses *Plus II* technology which includes double barrier and higher working pressure.

working pressure 600 psi.

Available with larger selection of fittings to fit customer needs. Also available in red, yellow, and blue.

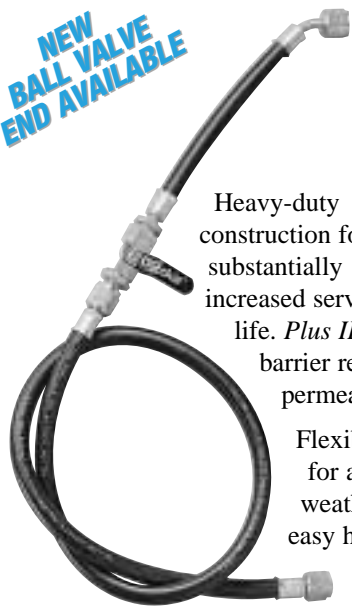
Burst pressure is now 3000 psi with



L.	Most commonly selected					Other selections				
	3/8" fl. str. x 3/8" fl. str			3/8" fl. x Flex-Flow	3/8" fl. str. x 3/8" 45°			3/8" fl. x 3/8" 90°	1/4" fl.str. x 1/4" fl. 45°	
	Yellow	Blue	Red		Yellow	Blue	Red			
36"	14536	B36	27836	28036	26236	18136	28236	28436	20036	20436
48"	14548	B48	27848	28048	26248	18148	28248	28448	20048	20448
60"	14560	B60	27860	28060	26260	18160	28260	28460	20060	20460
72"	14572	B72	27872	28072	26272	18172	28272	28472	20072	20472
96"	14596	B96	27896	28096	26296	18196	28296	28496	20096	20496
10'	14610	B120	27910	28110	26310	18210	28310	28510	20110	20510
12'	14612	B144	27912	28112	26312	18212	28312	28512	20112	20512
25'	14625	B300	27925	28125	26325	18225	28325	28525	20125	20525
50'	14650	B600	27950	28150	26350	18250	28350	28550	20150	20550
75'	14675	B900	27975	28175	26375	18275	28375	28575	20175	20575
100'	14699	B1200	27999	28199	26399	18299	28399	28599	20199	20599

YELLOW JACKET® PLUS II™ 1/4" HEAVY DUTY CHARGING HOSE

NEW BALL VALVE END AVAILABLE



Heavy-duty construction for substantially increased service life. *Plus II* barrier reduces permeation. Flexibility for all-weather easy handling.

- 900 psi working pressure; 3500 psi burst with 7/32" I. D. hose.
- Pulls 75 micron vacuum or better on 36" hose.
- This hose is also recommended for R-410A higher pressures.

L.	Most commonly selected			Other selections	
	HCA Hose Str. x Angle	Hose with FlexFlow	Hose with ball valve	HCL Hose Str. x 90°	HCS Hose Str. x Str.
12"	15012 HCA-12"	-	-	15212 HCL-12"	15412 HCS-12"
24"	15024 HCA-24"	-	-	15224 HCL-24"	15424 HCS-24"
36"	15036 HCA-36"	25836	29836	15236 HCL-36"	15436 HCS-36"
48"	15048 HCA-48"	25848	29848	15248 HCL-48"	15448 HCS-48"
60"	15060 HCA-60"	25860	29860	15260 HCL-60"	15460 HCS-60"
72"	15072 HCA-72"	25872	29872	15272 HCL-72"	15472 HCS-72"
96"	15096 HCA-96"	25896	29896	15296 HCL-96"	15496 HCS-96"
10'	15110 HCA-120"	25910	29910	Black only. Longer lengths available. Please specify.	
12'	15112 HCA-144"	25912	29912		
25'	15125 HCA-300"	25925	29925	The position of the new FlexFlow valve lets you know for sure when it's fully opened securely closed or anywhere between.	
50'	15150 HCA-600"	25950	29950		
75'	15175 HCA-900"	25875	29975		
100'	15199 HCA-1200"	25999	29999		

HEAVY DUTY PLUS II 3/8" COMBINATION CHARGING/HI-VACUUM HOSE



FlexFlow control valve

- Pull a vacuum much faster with this 5/16" I.D. heavy duty hose than with the 1/4" hose.
- Permeation resistant *Plus II* barrier.
 - Working pressure 750 psi; 3000 psi burst.

L.	Most commonly selected		Other selections			
	3/8" fl. str. x 3/8" fl. str.	3/8" fl. str. & FlexFlow	3/8" fl. x 3/8" 45°	3/8" fl. x 3/8" 90°	3/8" fl. x 1/4" 45°	1/4" fl. x 1/4" 45°
36"	15636 BC-36"	26036	19636	19836	16236 BCA-36"	20236
48"	15648 BC-48"	26048	19648	19848	16248 BCA-48"	20248
60"	15660 BC-60"	26060	19660	19860	16260 BCA-60"	20260
72"	15672 BC-72"	26072	19672	19872	16272 BCA-72"	20272
96"	15696 BC-96"	26096	19696	19896	16296 BCA-96"	20296
10'	15710 BC-120"	26110	19710	19910	Longer lengths available on hose in this chart. Please specify. Longer than 8' not recommended for evacuation.	20310
12'	15712 BC-144"	26112	19712	19912		20312
25'	15725 BC-300"	26125	19725	19925		20325
50'	15750 BC-600"	26150	19750	19950		20350
75'	15775 BC-900"	26175	19775	19975		20375
100'	15799 BC-1200"	26199	19799	19999		20399

CYLINDER VALVE HOSES with finger tight drum fitting

Designed for finger tight operation on 125 pound and 145 pound refrigerant cylinders.

- Gaskets seal without wrenches.
- 3/4" NPS at one end; 1/4" or 3/8" at the other.



L.	UPC #	Part #	Type	Fittings
12"	18612	CVX-12	1/4" heavy duty	1/4" Male flare x 3/4" NPS
12"	18912	CVY-12	3/8" heavy duty	3/8" Male flare x 3/4" NPS
72"	18072	CVH-72	1/4" premium	1/4" Female flare x 3/4" NPS
72"	18372	CVB-72	3/8" standard	3/8" Female flare x 3/4" NPS

Cylinder valve adapters available without hose. See page 34.

Hose	Ounces of liquid held per foot of hose at 80°F.				
	R-12	R-22	R-502	R-134a	R-410A
1/4" Premium	.34	.31	.32	.31	.28
1/4" Plus II	.36	.33	.34	.33	.29
3/8" Standard	.85	.77	.78	.77	.68
3/8" Heavy Duty	.70	.63	.64	.64	.56

YELLOW JACKET® HEAVY DUTY PLUS II™ 1/2" and 5/8" COMBINATION CHARGING/ HI-VACUUM HOSE



Heavy-use construction with *Plus II* barrier technology for use with most refrigerants. Reduces permeation and vacuum loss. Features:

- Large ID reduces vacuum time substantially over 1/4" or 3/8" hose. Pull a more complete vacuum.
- Faster refrigerant transfer.
- Faster charging on large systems.
- 500 psi working pressure; 2000 psi burst. 1/2" and 5/8" assemblies.
- Various fittings available on request.
- 1/4" access valve connection standard on one end of CA and DA hoses.

L	Most commonly selected		Other selections			
	"C" 1/2" fl. x 1/2" fl.	"D" 5/8" fl. x 5/8" fl.	"CA" 1/4" angle end x 1/2" fl.	"DA" 1/4" angle end x 5/8" fl.	"C" 1/2" fl. x 3/8" fl.	"C" 3/8" fl. x 3/8" fl.
36"	15836 C-36"	16036 D-36"	16436 CA-36	16636 DA-36	19236	20636
48"	15848 C-48"	16048 D-48"	16448 CA-48	16648 DA-48	19248	20648
60"	15860 C-60"	16060 D-60"	16460 CA-60	16660 DA-60	19260	20660
72"	15872 C-72"	16072 D-72"	16472 CA-72	16672 DA-72	19272	20672
96"	15896 C-96"	16096 D-96"	16496 CA-96	16696 DA-96	19296	20696
10'	15910 C-120"	16110 D-120"	36" hose will pull to 25 microns and lower.		19310	20710
12'	15912 C-144"	16112 D-144"			19312	20712
25'	15925 C-300"	16125 D-300"	Hoses longer than 8' not recommended for evacuation.		19325	20725
50'	15950 C-600"	16150 D-600"			19350	20750

Black only. Longer lengths available. Specify type, length and fitting combination.

YELLOW JACKET HEAVY DUTY 3/4" CHARGING HOSE



Large 3/4" I.D. designed to save time in charging or evacuation of centrifugals and other large systems.

- Constructed for heavy duty use with most refrigerants.
- 500 psi working pressure; 2500 psi burst.
- Now available with hex fittings.
- Available with steel 3/4" female, 3/4" male flares or 3/4" male pipe.

L	3/4" fl. x 3/4" fl. – "O"-ring seal	3/4" hex x 3/4" hex copper gasket seal
12"	18412	20812
24"	18424	20824
36"	18436	20836
48"	18448	20848
60"	18460	20860
72"	18472	20872
96"	18496	20896
10'	18510	20910
12'	18512	20912
25'	18525	20925
50'	18550	20950

10 Pack of "O"-rings – 19012

AUTOMOTIVE MANIFOLD HOSES for 134a systems



These 1/4" hoses combine *Plus II* hose with Acme fittings to meet SAE requirements. You get *Plus II* double-barrier protection in a hose manufactured specifically for automotive applications. Fitting threads are 1/2" Acme fe. and 14mm male. Use adapters on page 36.

1/2" Acme end uses 19020 gasket.

	Yellow	Red	Blue
L	1/2" fe. Acme x 1/2" fe. Acme	1/2" fe. Acme x 14mm male	1/2" fe. Acme x 14mm male
36"	27036	27636	27236
48"	27048	27648	27248
60"	27060	27660	27260
72"	27072	27672	27272
96"	27096	27696	27296

Longer lengths available. Please specify. These fittings are not suitable for regular HVAC&R applications.

NOTE: These hoses meet SAE requirements J2196 and are U.L. 1963 recognized components for refrigerants R-12, R-22, R-500, R502, and R-134a.

General info and specs for all hose assemblies below

YELLOW JACKET® stainless steel assemblies are 300 series corrugated hose and braid for applications where temperature and pressure could be a problem.

With stainless steel braid wrapping a stainless steel core, all hoses on this page prevent permeation and moisture infusion. Use with all standard refrigeration oils and refrigerants, as well as the new alternative oils and refrigerants including R-123.

Standard and custom length assemblies are made to order for immediate shipment.

Stainless Steel Hose Specifications				
Size	Max psi working*	Flexing bend radius	Permanent bend radius	Temperature/pressure correction
1/4"	1275	5.5"	1"	68°F – 1.00 200°F – .86 300°F – .80 400°F – .78 500°F – .77 800°F – .76 900°F – .74 1000°F – .70
3/8"	1000	6.5"	1-1/4"	
1/2", 5/8"	1200	8.5"	1-1/2"	
3/4", 7/8"	725	10"	2"	
1", 1-1/8"	700	11.5"	2-3/4"	
1-1/4", 1-3/8"	550	13"	3-1/4"	
1-1/2"	450	15"	3-3/4"	
2"	450	17.5"	5"	
2-1/2"	300	21"	7"	
3"	350	23"	9"	

* PSI at 68°F with a four to one safety factor. Core is T-321 SS with 300 Series SS braid.

Applications: vacuum and charging, vibration isolation, movable components, and permanent application.

QUICK COUPLER ASSEMBLY – for vacuum & charging

Oversized to increase flow and speed evacuation. Pull 25 microns and better on 36" length. Brass quick coupler.

Other features:

- Standard 45° angle at one end on 1/4" and 3/8"; 90° available.
- Straight fittings only on 1/2", 5/8" and 3/4".



OAL	1/4" Str. x 45° 1/4" I.D.	3/8" Str. x 45° 3/8" I.D.	1/2" Str. x 1/2" I.D.	5/8" Str. x 1/2" I.D.	3/4" Str. x 3/4" I.D.
36"	81636	81736	81836	81936	82036
48"	81648	81748	81848	81948	82048
60"	81660	81760	81860	81960	82060

MALE PIPE ASSEMBLY – for large applications



UPC #	Fittings MPT	OAL ^a	Max psi @ 68°F
89111	3/4"	11"	725
89212	1"	12"	700
89313	1 1/4"	13"	550
89414	1 1/2"	14"	450
89518	2"	18"	350
89620	2 1/2"	20"	250
89722	3"	22"	200

* Minimum recommended length for satisfactory service.

BRASS FLARE ASSEMBLY for display cases etc.



Fl. size x length	Male fl. x Male fl.	Male fl. x Fe fl.	Fe. fl. x Fe. fl.
1/4" x 36"	82136	83136	84136
1/4" x 48"	82148	83148	84148
3/8" x 36"	82236	83236	84236
3/8" x 48"	82248	83248	84248
1/2" x 36"	82336	83336	84336
1/2" x 48"	82348	83348	84348
5/8" x 36"	82436	83436	84436
5/8" x 48"	82448	83448	84448
3/4" x 36"	82536	83536	84536
3/4" x 48"	82548	83548	84548

SWEAT FITTING ASSEMBLY



Sweat x Sweat

Female Sweat Fitting		Male Sweat Fitting	
86136	1/4" x 36"	85136	1/4" x 36"
86236	3/8" x 36"	85236	3/8" x 36"
86336	1/2" x 36"	85336	1/2" x 36"
86436	5/8" x 36"	85436	5/8" x 36"
86536	3/4" x 36"	85536	3/4" x 36"
86636	7/8" x 36"	85636	7/8" x 36"
86736	1 1/8" x 36"	85736	1 1/8" x 36"
86836	1 3/8" x 36"	85836	1 3/8" x 36"

NOTE: Custom lengths are available for all stainless steel hose assemblies on this page.

MALE PIPE ASSEMBLY – for connecting moving parts



Male NPT x Male NPT

UPC #	Fittings MPT	OAL	Max psi @ 68°F
87136	1/4"	36"	1125
87236	3/8"	36"	975
87336	1/2"	36"	875
87536	3/4"	36"	725

Get maximum benefit from your YELLOW JACKET metal hoses –

Keep your hoses on the job longer and the Ritchie Warranty in effect by avoiding sharp bending and twisting that causes early failure. The warranty does not cover fatigue failure.

SAFETY GOGGLES



Helps protect your eyes against metal particles, sparks, refrigerant gases, etc. when working on HVAC&R systems.

Safety goggles are recommended any time you work on a system.

UPC #	Description
11002	Safety goggles
11003	Ventilated safety goggles

A safe professional is a more productive one.

Always use a pressure regulator when using high pressure gases such as nitrogen. Hoses in this catalog are not recommended for use with high pressure gases such as nitrogen.

PRESSURE CONTROL HOSES



Replaces regular copper capillary tubing on failure cut out controls and refrigeration pressure controls, saving you money. Also eliminates capillary failure due to work hardening from vibration. Easy to install, long lasting. Works better than Teflon hose.

- 1/4" operates to 600 psi and 200°F. 3/8" operates to 500 psi and 200°F.
- Hex style fittings with 1/4" SAE thread. Straight or 90°.

1/4" Hex Fittings Assemblies		
L.	Str. x Str.	Str. x 90°
12"	78212	78113
18"	78218	78118
24"	78224	78124
30"	78230	78130
36"	78236	78136
48"	78248	78148
60"	78260	78160

3/8" Hex Fittings Assemblies		
L.	Str. x Str.	Str. x 90°
12"	00101	N/A
18"	00102	N/A
24"	00103	N/A
36"	00104	N/A
48"	00105	N/A
60"	00438	N/A

Applications:

- Industrial
- Commercial
- Supermarket rack

YELLOW JACKET® TEFLON® HOSE for wide variety of industrial applications



Specially-designed hose provides strength with stainless steel braid over a Teflon core. Features:

- Resistance to most corrosive materials.
- Temperature range from -100°F to 450°F.
- Variety of applications – high and low pressure chemical lines, hot water, steam, oil, air, petroleum

- products, food processing and more.
- Meets FDA requirements.
- 3/16"-3/4" SAE female swivel brass fittings; 1/8"-1" MPT brass fittings.
- 1/4" 90° x 1/4" straight flare.

Hose specifications				Brass SAE fe. flare swivels each end							Brass male pipe each end				
Hose I.D.	Max. W.P.	Min. burst	Min. bend	Flare size	Thread size	UPC# – overall length					Pipe thd.	UPC# – overall length			
						12"	18"	24"	36"	48"		12"	18"	24"	36"
1/8"	3000	12000	2"	3/16"	3/8-24	31112	31118	31124	31136	31148	–	–	–	–	–
3/16"	3000	12000	2"	1/4"	7/16-20	31212	31218	31224	31236	31248	1/8"	32212	32218	32224	32236
3/16"	3000	12000	3"	1/4"*	7/16-20(1)	31012	31018	31024	31036	31048	–	–	–	–	–
1/4"	3000	12000	3"	5/16"	1/2-20	31312	31318	31324	31336	31348	–	–	–	–	–
5/16"	3000	12000	4"	3/8"	5/8-18	31412	31418	31424	31436	31448	1/4"	32412	32418	32424	32436
13/32"	2000	8000	5.2"	1/2"	3/4-16	31512	31518	31524	31536	31548	3/8"	32512	32518	32524	32536
1/2"	1500	6000	6.5"	5/8"	7/8-14	31612	31618	31624	31636	31648	1/2"	32612	32618	32624	32636
5/8"	1200	4800	7.7"	3/4"	1 1/16-14	31712	31718	31724	31736	31748	3/4"	32712	32718	32724	32736
7/8"	1100	4400	8.7"								1"	32812	32818	32824	32836
NOTE: Not recommended for refrigerants because of permeation rate.				Brass fittings standard. Stainless available if specified, except for 3/8" and 3/4" SAE flare.							Brass fittings standard. Stainless fittings available if specified.				

Note: Above pressures in PSI

(1) 1/4" 90° x 1/4" straight hose

YELLOW JACKET® AMMONIA CHARGING HOSE

Designed with steel quick couplers at both ends. Features include:

- Regular CH20 gaskets for 1/4". CH11 gaskets for 3/8".
- 1/4" – 900 psi wp – 3500 psi burst.
- 3/8" – 500 psi wp – 2000 psi burst



Available black only



1/4" Str. fl. x 1/4" 45°			3/8" Str. fl. both ends	
L.	UPC #	Part #	UPC #	Part #
48"	16848	NHA-48"	19448	NBC-48"
72"	16872	NHA-72"	19472	NBC-72"
96"	16896	NHA-96"	19496	NBC-96"
10'	16910	NHA-120"	19510	NBC-120"
12'	16912	NHA-144"	19512	NBC-144"
Steel half union ammonia fittings				
UPC # 16801 (44372) – 1/4" male fl. x 1/4" MPT male Str.				
UPC # 16802 (44376) – 1/4" male fl. x 1/4" MPT male 90°.				
UPC # 16803 – 3/8" male fl. x 1/4" MPT male				

NH³ manifolds page 43.

AMMONIA HOSE – (permanent installation)



Specially designed 1/2" I.D. hose with 500 psi working pressure; 2000 psi burst steel fittings.

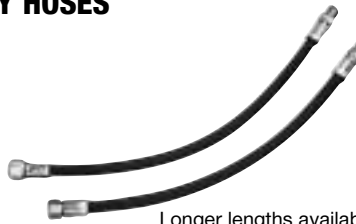
Not for use below -50°F.

L.	UPC # 1/4" MPT	UPC # 3/8" MPT	UPC # 1/2" MPT
6'	78506	78406	78306
8'	78508	78408	78308
10'	78510	78410	78310
12'	78512	78412	78312
Other lengths up to 50' available. Please specify length and size.			

YELLOW JACKET FUEL OIL ASSEMBLY HOSES

Reinforced 3/16" I.D. hose designed for quick pump to nozzle connection and oil burner connections.

Flexible to absorb vibration and swelling while providing positive cut-off.



Longer lengths available

UPC #	Description	Fittings	Lengths
78041	Pump to nozzle connector	3/16" Fe. fl. x 3/16" Fe. fl.	12"
78042	Pump to nozzle connector	1/4" Fe. fl. x 1/4" Fe. fl.	12"
78112	Pump to nozzle connector or gauge to pump	1/8" NPT Fe. swivel x 1/8" NPT Male	12"
78043	Pump to nozzle connector	3/16" Fe. fl. x 3/16" Fe. fl.	18"
78044	Pump to nozzle connector	1/4" Fe. fl. x 1/4" Fe. fl.	18"

OIL PUMP VIBRATION ELIMINATOR

Reinforced 5/16" I.D. rubber hose helps eliminate noise and vibration when installed in a heating system.



12 inch OA

UPC #	Description	Fittings
78012	Oil burner connector	3/8" Male flare x 1/4" NPT Male

VACUUM/CHARGE VALVE & CORE TOOLS



The original vacuum/charge valves to speed service work and remove and replace Schrader valves. Also, for fast recovery and vacuum.

UPC #	Description
18990	Deluxe vacuum / charge valve
18995	"O" ring set
18996	Shut-off stem
18997	Grappler rod and nut assembly
19000	Original vacuum / charge valve without extra 1/4" access port

SINGLE VALVES



Individual manifolds for high and low sides of system. Available with 0-500 psi pressure gauge or 30"-0-350 psi compound gauge.

Individual valves are available in two or three port versions. Nylon seals with double "O" rings.

UPC #	Description
40317	Hi-side manifold with gauge
40318	Lo-side manifold with gauge
40315	2 port valve – 1/8" NPT female x 1/4" male flare
40325	3 port valve – 1/8" NPT female x two 1/4" male flares
40350	2 port valve - 1/4" QC female with CH14 depressor x 1/4" male flare with Schrader

MODIFIED NEEDLE VALVE

In-line control.



UPC #	Description
69670	Needle type bleed valve 1/4" SAE
19020	Gaskets (10 pkg)

FULL CONTROL BALL VALVES FOR VACUUM/CHARGING

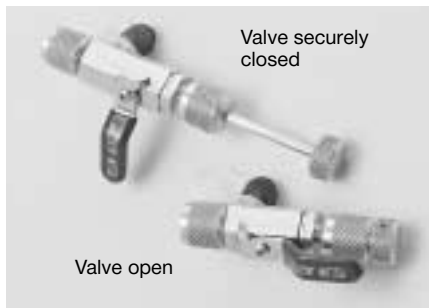


When building your own charging/vacuum system, these straight flow-through valves connect hoses and provide full-flow capacity. No angles to cause restrictions and pressure drops. Handle position shows when the valve is opened, securely closed and anywhere between. Use gaskets on page 34.

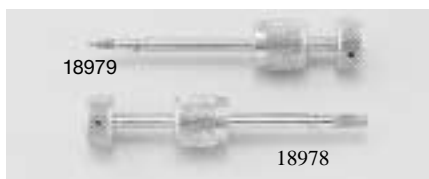
	M. fl. x M. fl.	M. fl. x Fe. fl.	M. fl. x 1/4" FPT
1/4" SAE*	93834	93844	93833
3/8" SAE*	93836	93846	93832
1/2" SAE	93838	93848	-
Acme 1/2"*	93830	93840	93831
19095	Replacement handle/screw for all 1/4", 3/8" & Acme valves		
19096	Replacement handle/screw for all 1/2"SAE valve		

* U.L. Listed

4 IN 1 BALL VALVE TOOL for vacuum, charge, cores and recovery



Remove and replace Schrader cores without losing charge.



- Vacuum valve.** Extra 1/4" side port to attach electronic micron vacuum gauge right at system for greater accuracy.
- Core removal access.** Lets you evacuate and charge through an unrestricted line for increased speed and higher vacuum.
- Core replacement.**
- Recovery valve.** Core removal allows recovery unit to work at maximum efficiency, speeding the recovery process.

UPC #	Description
18975	Vacuum/charge ball valve
18980	Accessory set - 2 piece
18978	Schrader rethreading accessory
18979	Broken Schrader remover acc.
18997	Grappler rod/nut assembly
18973	Gasket for 18975 (5 pk.)
18974	Seal Kit incl. core, cap, 3 "O"-rings, gasket

GAS RETENTION VALVE



Sturdy valve controls refrigerant flow from access fitting. Closes Schrader

before disconnecting. New back seat valve feature to retain gas in hose when disconnecting.

UPC #	Description
18993	Gas control valve
18995	"O"-ring set

NEW COMPACT BALL VALVE



Now a smaller ball valve more compact – still features full flow. Metal valve handle, add to hoses for charging and recovery. UL recognized assembly.

UPC #	Description
93844	1/4" compact ball valve – straight
93843	1/4" compact ball valve – 45°
93842	Set of 3 – 45° compact ball valves

YELLOW JACKET SUPERHEAT CALCULATION KIT



With the 18975 access valve, °F and °C digital thermometer and core extractor tool you can easily take an internal temperature reading for calculating system superheat.

- Read from -58°F to 302°F (-50°C to 150°C).
- Remove and replace broken Schrader cores without opening system.
- Chase damaged threads.
- See other features on this page for 4 in 1 ball valve tool.



UPC #	Description
69104	Complete Superheat Kit and Accessories (as shown)
69103	Superheat Kit w/o accessory kit
69106	Digital Thermometer and Nut - 40° to 230° F
69107	Pocket Thermometer - page 60

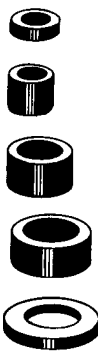
Snap-It™ COUPLER

- Snaps on over 1/4" flare threads with Schrader cores.
- Forms tight connection immediately.
- Instantly activates the Schrader in access fitting.
- Instantly shuts off end of hose when sleeve is pulled back and coupler pops off access fitting.
- Virtually no gas release to atmosphere. Eliminates frostbite.
- One piece construction.



UPC #	Description
19090	Snap-it™ Coupler
19094	O ring for coupler (10 pkg)

QUICK COUPLER GASKETS & "O"-RINGS



The only gaskets designed for optimum performance with YELLOW JACKET® Charging Hoses. Works with all refrigerants. Manufactured to strict tolerances to resist blow out.

For 1/4" - 3/4" Regular & Heavy Duty hose

UPC #	Part	Qty.	Hose/Coupler
19010	CH20 and CH14	6 3	1/4" hose opener
19020	CH20/10	10	1/4" hose 1/2" Acme hose
19005	CH20/100	100	1/4" hose
19011	CH11	10	3/8" hose
19015	CH80	10	1/2"-5/8" hose
19012	-	10	3/4" hose
18001	-	10	Cylinder Valve**
19021	-	10	1/8" Coupler
19025*	-	10	1/4" "O"-ring
19026*	-	10	3/8" "O"-ring
19027*	-	10	1/2" "O"-ring
19034	-	10	"O"-ring for 14mm male
19037	-	10	1/4" SealRight "O"-ring
19094	-	10	Snap-It "O"-rings

* Gaskets for some metal hoses. Others uses 19020 or 19011 gaskets.

** Flat washer.

PARTS KITS & EMPTY BOXES



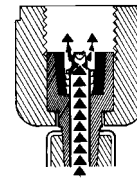
19003 COMPLETE KIT includes following gaskets, valve openers and SealRight parts in a 12 compartment case #19003.

- Five 1/8" gaskets
- Five 1/8" valve openers
- 100 1/4" gaskets
- Ten 1/4" and 3/16" adjustable CH14 valve openers
- Ten 1/4" valve openers
- Ten 3/8" gaskets
- Ten 1/2"-5/8" gaskets
- Ten cylinder valve gaskets
- Ten SealRight "O"-rings
- Four SealRight plug assemblies
- Four SealRight nut and clip

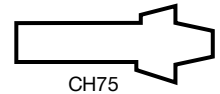
EMPTY PARTS BOXES

UPC #	Size	Description
19004	11" x 6 3/4" x 3/4"	Kit box with parts label
60177	11" x 6 3/4" x 3/4"	6 compartments empty
60178	11" x 6 3/4" x 3/4"	12 compartments empty
60135	11" x 6 3/4" x 3/4"	18 compartments empty

YELLOW JACKET ADJUST-A-VALVE™ OPENERS



High volume flow pattern



The patented "adjust-a-valve" opens out of tolerance Schrader valves in 1/4" and 3/16" couplers. Simply rotate the opener with needle nose pliers to the desired height. When finished, rotate back. (Pat. No. 3592439).

UPC #	Part	Description
19302	CH14	Ten adjust. valve openers
19301	CH75	Ten 1/4" valve openers
19304	-	Ten 1/8" valve openers

QUICK COUPLER-STYLE BRAZE-IN FITTINGS



For service professionals who need a braze-in brass fitting with replaceable soft seat, these quick coupler-style fittings are the same as supplied on metal hose. Assemblies available in straight, 45°, and 90°.

UPC#	Description
19082	1/4" str. fe. fl. w/CH20 gasket
19083	1/4" 45° fe. fl. w/CH20 gasket
19084	1/4" 90° fe. fl. w/CH20 gasket
19085	3/8" str. fe. fl. w/CH11 gasket
19086	3/8" 45° fe. fl. w/CH11 gasket
19087	3/8" 90° fe. fl. w/CH11 gasket
19088	1/2" str. only fe. w/quad ring

Use 19020 (CH20), 19011 (CH11) and 19027 seals (quad ring).

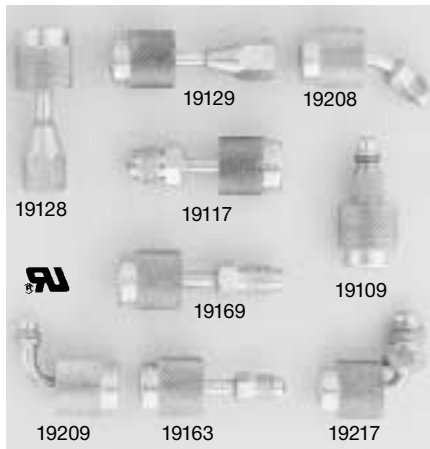
125 & 145 LB. CYLINDER VALVE ADAPTER

Finger tight adapters fit 125 and 145 lb. cylinders. No wrench. Seal remains seated. 1/4" or 3/8" male fitting.



UPC #	Description
19105	3/4" NPS finger tight cylinder adapter with 1/4" male flare
19106	3/4" NPS finger tight cylinder adapter with 3/8" male flare

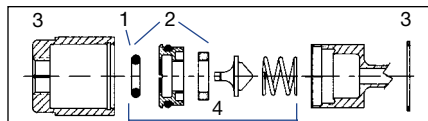
SealRight™ QUICK COUPLERS



Innovative SealRight fittings automatically and immediately trap refrigerant in the hose when disconnected, helping meet non-venting regulations and preventing finger burns. One-piece attaches quickly, saving up to 50% in time compared to 2-piece quick couplers. Works with or without Schrader core.

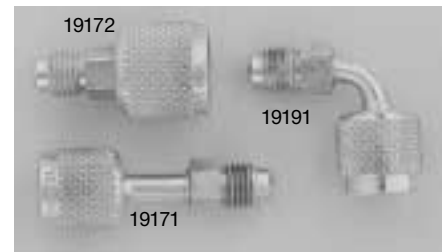
Gaskets resist deterioration from CFC, HCFC, HFC refrigerants, and new oils. Field serviceable.

UPC #	Description
19109	1/4" SealRight Str. x 1/4" male fl.
19208	1/4" SealRight 45° x 1/4" male fl.
19209	1/4" SealRight 90° x 1/4" male fl.
19100	Set of 19109 and 19209
19117	1/4" SealRight Str. x 3/8" male fl.
19217	1/4" SealRight 90° x 3/8" male fl.
19128	1/4" SealRight Str. x 1/8" fe. FPT
19129	1/4" SealRight Str. x 1/4" fe. FPT
19169	Acme 1/2" SealRight x 1/2" Acme
19163	Acme 1/2" SealRight x 1/4" male fl.



19037	Pkg. of 10 "O"-rings (1)
19038	Plug assembly with all seals (2)
19039	Nut and clip (3)
19040	Rebuild kit includes #4
19041	Overhaul kit with all above parts

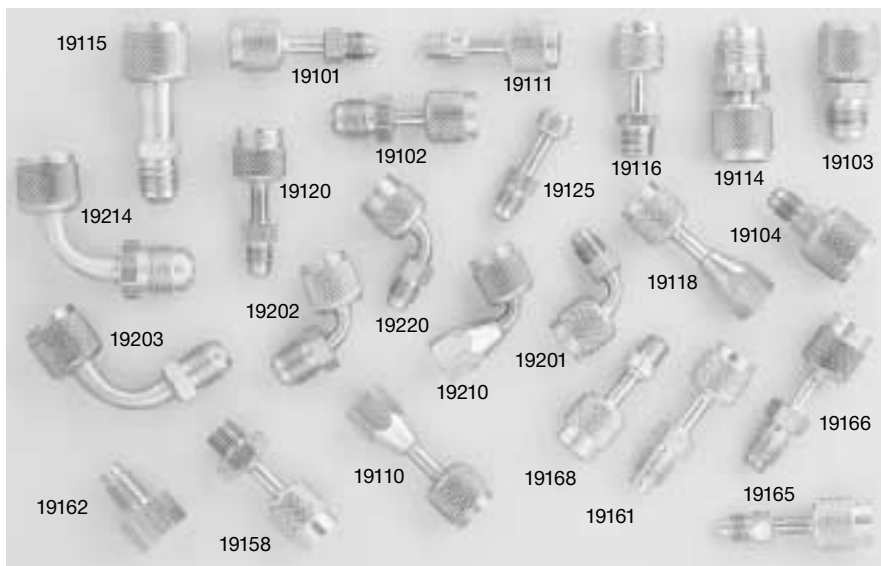
YELLOW JACKET® QUICK COUPLERS (Schrader core in male end)



All couplers have Schrader cores in male flare end. Female coupler end has deep knurling for easy handling. Patented CH14 "Adjust-a-valve" opener in all 1/4" female ends.

UPC #	Description
Straight Quick Couplers	
19171	1/4" female QC x 1/4" male fl.
19172	3/8" female QC x 1/4" male fl.
90° Bend Quick Couplers	
19191	1/4" female QC x 1/4" male fl.
19192	3/8" female QC x 1/4" male fl.

YELLOW JACKET (QC) QUICK COUPLERS – expanded line



All couplers in our expanded line are manufactured full size with deep knurling for easy handling. The line also includes couplers with such special features as –

- Patented CH14 "Adjust-a-valve" opener in all 1/4" female ends.

Acme conversion couplers are available to aid in recovery where recovery tank has incompatible threads. Also used to convert R-134a refrigerant

UPC #	Description
Gauge Quick Couplers with CH14 adjustable valve opener	
19110	1/4" female QC x 1/8" fe. NPT
19210	1/4" female QC 90° x 1/8" fe. NPT

UPC #	Description
Straight Quick Couplers	
19125	1/8" female QC x 1/4" male fl. (Ford)
19120	3/16" female QC x 1/4" male fl. (GM)
19101	1/4" female QC x 1/4" male fl.
19102	1/4" female QC x 3/8" male fl.
19111	1/4" fe. QC Str. x 1/8" male NPT
19116	1/4" fe. QC Str. x 1/4" male NPT
19118	1/4" fe. QC Str. x 1/4" fe. NPT
19103	3/8" fe. QC x 3/8" male fl.
19104	3/8" fe. QC x 1/4" male fl.
19115	1/2" female QC x 3/8" male fl.
19114	3/8" female QC x 1/2" male fl.
90° Quick Couplers	
19220	3/16" fe. QC 90° x 1/4" male fl.
19201	1/4" female QC 90° x 1/4" male fl.
19202	1/4" female QC 90° x 3/8" male fl.
19203	3/8" female QC 90° x 3/8" male fl.
19214	3/8" female QC 90° x 1/2" male fl.
R-410A couplers – 45° – with schrader valve	
19173	5/16" fe. QC x 1/4" m. fl. w/Schrader
19174	1/4" fe. QC x 5/16" m. fl. w/Schrader
ACME 1/2" Couplers – Auto Straight	
19161	1/4" fe. QC x 1/2" male Acme
19162	1/4" fe. hex x 1/2" male Acme for permanent applications
19166	1/2" Acme male x 1/2" Acme fe.
19165	1/2" Acme female x 1/4" male fl.
19168	1/2" Acme female x 1/8" male NPT
19158	1/2" Acme female x 14mm male

AUTOMOTIVE R-134a A/C COUPLERS – PREMIUM

EXPANDED SELECTION
3 Thread Combination



- Integral safety sleeve holds coupler securely to service port.
- Highest flow characteristics.
- Low profile for tight applications.

Couplers interface with R-134a service ports. 14mm female thread or 1/4" and 3/8" male flare available.

- Quick, easy connect/disconnect.
- Control valve for access to systems even at working pressures.

UPC #	Description
41301	Chrome hi side x 14mm R-134a couplers
41302	Chrome lo side x 14mm R-134a couplers
41327	Hi side x 3/8" m.fl., R-134a couplers
41328	Lo side x 3/8" m.fl., R-134a couplers
41337	Hi side x 1/4" m.fl., R-134a couplers
41338	Lo side x 1/4" m.fl., R-134a couplers
41300	"O"-ring kit for above
19157	14mm Male x 1/4" male fl.
19034	"O"-ring for 19157

NEW

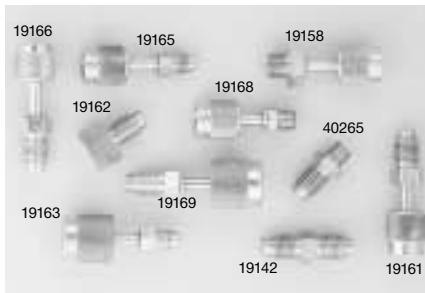
NEW AUTOMOTIVE R-134a A/C COUPLERS – ECONOMY



A basic coupler to snap onto R-134a service parts. Instant flow. Convert your R-12 hoses for R-134a service.

UPC #	Description
41318	Lo side coupler w/ 1/4" flare
41317	Hi side coupler w/ 1/4" flare

AUTOMOTIVE A/C FITTINGS COUPLERS



Adapter fitting designed to work with 1/2" Acme 14 mm threads.

UPC #	Description
19157	14 mm M. x 1/4" male fl.
19156	14 mm M. x 3/8" male fl.
19161	1/2" Acme M. x 1/4" fe. fl.
19165	1/2" Acme Fe. x 1/4" male fl.
19158	1/2" Acme Fe. x 14mm male
19162	1/2" Acme M. x 1/4" fe. fl. Hex
19168	1/2" Acme Fe. x 1/8" male pipe
19169	1/2" Acme M. x 1/2" Acme SealRight
19163	1/2" Acme SealRight x 1/4" M. fl.
19166	1/2" Acme Fe. x 1/2" Acme male
40265	1/2" Acme M. x 1/8" MPT Half Union
19142	1/2" Acme Union
19153	1/2" Acme Fe Hex x 13mm R-134a low side male for a/c system not shown

NEW VACUUM PUMP ADAPTER



Convert a 3/8" or 1/2" vacuum pump intake into R-12 and R-134a compatible fittings.

UPC #	Description
36018	1/2" pump adapter with 1/4" flare and 1/2" Acme male fittings
36019	3/8" pump adapter with 1/4" flare and 1/2" Acme male fittings

PUMP INTAKE FITTING ADAPTER



Reducing adapters for intakes on SuperEvac™ and other pumps.

UPC #	Description
19130	3/8" fe. fl. x 1/4" m. fl. adapter
19131	1/2" fe. fl. x 3/8" m. fl. adapter
19132	1/2" fe. fl. x 1/4" m. fl. adapter
19160	1/2" fe. fl. x 1/2" m. Acme adapter
19133	3/8" fe. fl. x 1/2" m. fl. adapter

ADD-A-HOSE COUPLERS UNIONS



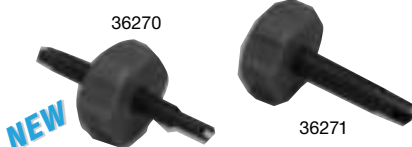
For recovery, many service professionals use longer hoses.

Add-a-hose couplers easily connect hoses to the length desired.

UPC #	Male flare	UPC #	Male flare
19143	3/16"	19150	5/8"
19144	1/4"	19152	3/4"
19146	3/8"	19142	Acme 1/2"
19148	1/2"	-	-

NEW AUTOMOTIVE RETROFIT ACCESSORY TOOLS

Valve core removers/installers –



36270 Double-ended universal valve core remover/installer for easy

replacement of standard and GM R-12 large bore valve cores.

36271 R-134a universal large bore core remover/installer.

36015 R-12 port repair reamer/threader recuts stripped 1/8", 3/16", and 1/4" R-12 service ports.

36265 R-134a reamer for service ports



deburrs and chamfers in one motion, eliminating sharp edges that can damage coupler "O"-rings.



UPC #	Description
36270	Universal valve core remover/installer
36271	R-134a universal large bore core remover/installer
36015	R-12 port repair reamer/threader
36265	R-134a reamer for service ports