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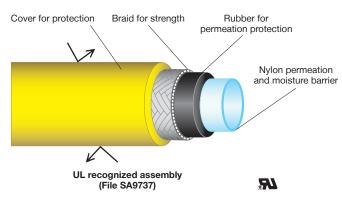


PLUS II™ HOSES

- UL recognized assemblies (File SA9737)
- The nylon permeation barrier meets SAE requirements J2196 for CFC, HCFC, HFC refrigerants
- Barrier provides improved resistance to moisture migration which contaminates expensive refrigerant
- 1/4" RYB PLUS II™ hoses are rated for 4000 psi (276 bar) minimum burst and 800 psi (55 bar) maximum working pressure and an operating temperature of -20° to 180°F (-28.8° to 82.2°C)
- Minimum bend radius: 6" (152 mm)
- Made in the USA



THE ANATOMY OF A HOSE



PLUS II™ Hoses with UL assemblies available in the following configurations:

- 1/4" with 1/4" flare fittings
- 1/4" with compact ball valve end
- 1/4" with SealRight™ low loss anti-blow back fitting
- 1/4" for 5/16" flare (1/2 20 thread) service ports for R-410A
- 1/4" with FlexFlow[™] valve

A2L HOSES FOR LEFT-HANDED REFRIGERANT TANKS R-32/454B



- Conversion adapters from 1/4" Female SAE flare LEFT-HANDED (LH) x 1/4" Female SAE flare right-handed for A2L refrigerants
- Easily identified by double ring on tightening knurl for LH connection
- The moisture barrier provides improved resistance to moisture migration which contaminates expensive refrigerants



- 1/4" PLUS II™ hoses are rated for 4000 psi (276 bar) minimum burst, 800 psi (55 bar) maximum working pressure and an operating temperature of -20° to 180°F (-28.8° to 82.2°C)
- UL recognized hose assemblies (File SA9737)
- Nylon permeation barrier meets SAE requirements J2196 for CFC, HCFC and HFC refrigerants
- Minimum bend radius: 6" (152 mm)
- Made in the USA



UPC #	Description
30260	Yellow PLUS II™ Hose, 60" ¼" LH to ¼" RH, 45°
30460	Yellow PLUS II™ Hose, 60" ¼" LH to ¼" RH, 45° w/Ball Valve
30660	Yellow PLUS II™ Hose, 60" 1/4" LH to 1/4" RH, 90°

See A2L Adapters in Section 6

Length	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				21982 two 36", one 60 21981 two 36", one 72

^{* 3} pak includes a red, yellow and blue hose.

Replacement parts		
UPC#	Description	
19020	Replacement gasket (10 pak)	
19302	Adjust-a-Valve™ opener (10 pak)	

PLUS II™ 1/4" HOSE With compact ball valve end



Designed for R-410A

- Metal handle at end of hose fits tight areas and traps all the gas
- Full flow valve
- Uses standard gasket and valve opener
- Made in the USA



UL recognized assemblies (File SA9737)

Compact ball valve end					
Length	Yellow	Blue	Red	3 pak	Black
36"	29036	29236	29636	29983	-
48"	29048	29248	29648	29984	-
60"	29060	29260	29660	29985	29595
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	-	-

Replace	Replacement parts		
UPC#	Description		
19020	Replacement gasket (10 pak)		
19302	Adjust-a-Valve™ opener (10 pak)		

PLUS II™ 1/4" HOSE With FlexFlow[™] valve



Designed for R-410A

- Valve handle position shows when valve is opened or closed
- Metal handle and smaller ergonomic valve with zero restriction for maximum flow
- Flexible length of hose between valve and fitting makes access to tight areas easier
- Made in the USA



UL recognized assemblies (File SA9737)

FlexFlow™ valve 8" from angle end				
Length	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	-

Replace	Replacement parts		
UPC#	Description		
19020	Replacement gasket (10 pak)		
19302	Adjust-a-Valve [™] opener (10 pak)		

PLUS II™ 1/4" HOSE With SealRight™ low loss anti-blow back fitting



UL recognized assemblies (File SA9737)

Designed for R-410A

- Low loss anti-blow back SealRight[™] fitting immediately traps refrigerant in the hose when disconnected, helping meet non-venting regulations and prevent finger burns
- 45° end for easy installation in tight areas
- Gaskets resist deterioration from existing CFC, HCFC and HFC refrigerants and oils
- Available with SealRight[™] fittings on both ends
- Made in the USA

45° SealRig	45° SealRight fitting at one end				
Length	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	-	

UPC#	Multi-length 3 pak
22981	Two 36" RB, one 72" Y
22982	Two 36" RB, one 60" Y

Replacement parts		
UPC#	Description	
19020	1/4" and 5/16" Replacement gasket (10 pak)	
19037	SealRight™ O-ring (10 pak)	
19038	Plug and gasket	
19039	Nut and clip	
19040	SealRight repair kit with valve, gasket, plug, spring and two O-rings	
19041	Complete kit includes 19038, 19039 and 19040	

PLUS II™ 1/4" HOSE For 5/16" flare (1/2 - 20 thread) service ports for R-410A



UL recognized assemblies (File SA9737)

- · Available with standard fittings or compact ball valve
- · Compatible with both POE and PVE oils
- Made in the USA

PLUS II[™] hose with 1/4" (7/16 – 20) Female flare on manifold connection and 5/16" (1/2 – 20) Female flare angled on service end

nda		

Length	Yellow	Blue	Red
36"	21403	21423	21463
60"	21405	21425	21465
72"	21406	21426	21466

For use with R-410A tanks with 1/4" fittings *Yellow PLUS I/" hose with standard 1/4" (7/16 – 20) flare fittings

Length	3 pak
36"	21483 (21036*, 21423, 21463)
60"	21485 (21060*, 21425, 21465)
72"	21486 (21072*, 21426, 21466)

PLUS II^{$^{\text{II}}$} hose with 5/16" (1/2 – 20) Female flare on manifold connection and 5/16" (1/2 – 20) Female flare angled on service end

Standard fitting

Length	Yellow	Blue	Red	3 pak
36"	21503	21523	21563	21583
60"	21505	21525	21565	21585
72"	21506	21526	21566	21586

PLUS II™ hose with compact ball valve (1/4" x 5/16")

Length	Yellow	Blue	Red	
36"	29403	29423	29463	
60"	29405	29425	29465	
72"	29406	29426	29466	

For use with R-410A tanks with 1/4" fittings

Length	3 pak	
36"	29483 (29036*, 29423, 2946	i3)
60"	29485 (29060* 29425 2946	55)

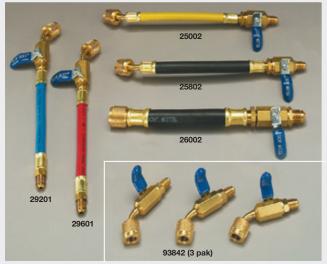
29486 (29072*, 29426, 29466) Compact ball valve (RYB 5/16" x 5/16")

Length	Yellow	Blue	Red	3 pak
36"	29003	29203	29603	29993
60"	29005	29205	29605	29995
72"	29006	29206	29606	29996

Replacement parts

Tiophacomoni parts					
UPC#	Description				
19020	1/4" and 5/16" Replacement gasket (10 pak)				
19302	Adjust-a-Valve™ opener (10 pak)				

9" FlexFlow™ AND LOW LOSS **ADAPTER HOSES**



UL recognized assemblies (File SA9737) (Valves SA10088) (except 25802 and 26002)

Designed for R-410A

- Easy retrofit of existing PLUS II[™] hoses with ball valve capabilities
- Flexible hose between valve and fitting for handling in tight areas
- Operating temperature -20° to 180°F (-28.8° to 82.2°C)*/**
- 800 psi working pressure***
- Minimum bend radius: 8" (203 mm)
- Made in the USA

Compact ball valve assemblies						
UPC#	Description					
29001	1/4" Yellow ball valve adapter					
29201	1/4" Blue ball valve adapter					
29601	1/4" Red ball valve adapter					
29980	29001, 29201, 29601 (3 pak)					
93843	1/4" Compact ball valve – 45°					
93842	1/4" Compact ball valve – 45° (3 pak)					

FlexFlo	FlexFlow [™] assemblies					
UPC#	Description					
29011	1/4" to 5/16" Yellow FlexFlow™ adapter NEW!					
29211	1/4" to 5/16" Blue FlexFlow™ adapter NEW!					
29611	1/4" to 5/16" Red FlexFlow™ adapter NEW!					
25002	1/4" Yellow FlexFlow™ adapter					
25202	1/4" Blue FlexFlow™ adapter					
25602	1/4" Red FlexFlow™ adapter					
25980	25002, 25202, 25602 (3 pak)					
25802	1/4" Heavy duty FlexFlow™ adapter*					
26002	3/8" Heavy duty FlexFlow™ adapter*/***					
26202	Yellow standard "B" FlexFlow™ adapter**/***					
27002	Acme 1/2" Yellow FlexFlow™ adapter					
19095	Set of 2 handles and screws					

*25802 and 26002: Operating temperature -22° to 176°F (-30° to 80°C)

**26202: Operating temperature -20° to 200°F (-28.8° to 93.3°C)

***26002 and 26202: 3000 psi (207 bar) burst and 600 psi (41 bar) working pressures

Replace	Replacement parts			
UPC#	Description			
19011	3/8" Replacement gasket (10 pak)			
19020	1/4" Replacement gasket (10 pak)			
19302	Adjust-a-Valve [™] opener (10 pak)			



Underwriters Laboratories Inc. Registered Component Mark – applies to all standard 1/4" *PLUS If*[™] and 1/4" RYB FlexFlow[™] hoses



PLUS II™ 3/8" "B" CHARGING HOSE

Designed for R-410A

PLUS II[™] features in a larger volume hose for fast, high vacuum or charging.

- 3000 psi (207 bar) minimum burst, 600 psi (41 bar) maximum working pressure
- Operating temperature -20° to 180°F (-28.8° to 82.2°C)
- Minimum bend radius: 6" (152 mm)
- Large selection of fittings available
- Made in the USA

Replacement parts				
UPC#	Description			
19011	3/8" Replacement gasket (10 pak)			

Common selections					Other selections					
	3/8" Str. fl. x 3/8" Str. fl.			3/8" fl. x	3/8"	Str. fl. x 3/8	" 45°	3/8" Str. fl.	1/4" Str. fl.	
Length	Yell	ow	Blue	Red	FlexFlow	Yellow	Blue	Red	x 3/8" 90°	x 1/4" 45°
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



PLUS II™ 1/4" HEAVY DUTY CHARGING HOSE

Heavy duty construction for substantially increased service life.

Designed for R-410A

- Flexibility for all-weather easy handling
- Pulls 75 micron vacuum or better on 36" hose
- 4000 psi (276 bar) minimum burst, 800 psi (55 bar) maximum working pressure
- Operating temperature -22° to 176°F (- 30° to 80°C)
- Minimum bend radius: 6" (152 mm)
- Made in the USA

Replacement parts				
UPC#	Description			
19020	Replacement gasket (10 pak)			
19302	Adjust-a-Valve™ opener (10 pak)			

		Con	nmon selections		Other se	elections		
Length	HCA hos	e Str. x angle	Hose with FlexFlow [™]	Hose with ball valve	HCL hos	e Str. x 90°	HCS hos	e 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				
12'	15112	HCA-144"	25912	29912				
25'	15125	HCA-300"	25925	29925	Blac	k only. Longer	r lengths ava	ailable.
50'	15150	HCA-600"	25950	29950	Please specify.			
75'	15175	HCA-900"	25975	29975				
100'	15199	HCA-1200"	25999	29999				

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

Pulls a vacuum much faster than the 1/4" hose.

- Operating temperature -22° to 176°F (- 30° to 80°C)
- 3000 psi (207 bar) minimum burst, 600 psi (41 bar) maximum working pressure
- Minimum bend radius: 8" (203 mm)
- Vacuum rated to 20 microns
- Made in the USA

Replacement parts					
UPC#	Description				
19020	1/4" Replacement gasket (10 pak)				
19011	3/8" Replacement gasket (10 pak)				
19302	Adjust-a-Valve [™] opener (10 pak)				



	Com	mon selec	tions	Other selections				
Length		Str. fl. Str. fl.	3/8" Str. fl. x 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			20310
12'	15712	BC-144"	26112	19712	19912		lengths	20312
25'	15725	BC-300"	26125	19725	19925		e. Please	20325
50'	15750	BC-600"	26150	19750	19950	specify. Longer than 8' not recommended for evacuation.		20350
75'	15775	BC-900"	26175	19775	19975			20375
100'	15799	BC-1200"	26199	19799	19999	ioi cva	oddioii.	20399

PLUS II™ 1/2" AND 5/8" HEAVY DUTY COMBINATION CHARGING/VACUUM HOSE

Heavy duty construction with PLUS II™ barrier technology reduces permeation and vacuum loss. Large I.D. reduces vacuum time substantially over 1/4" or 3/8" hose.

- Pull a more complete vacuum
- Faster refrigerant transfer
- Faster charging on large systems
- 3000 psi (207 bar) minimum burst, 600 psi (41 bar) maximum working pressure
- Operating temperature -22° to 176°F (-30° to 80°C)
- Other fittings available on request
- Minimum bend radius: 10" (254 mm)
- Vacuum rated to 20 microns
- Made in the USA



Replace	Replacement parts				
UPC#	Description				
19015	1/2" and 5/8" Replacement gaskets				
19020	1/4" Replacement gasket (10 pak)				
19011	3/8" Replacement gasket (10 pak)				
19302	Adjust-a-Valve™ opener (10 pak)				

	Common selections					Other selections				
Length	"C" 1/2 x 1/2		"D" 5, x 5/8	/8" fl. 8" fl.	"CA" angle end		"DA" angle end		1/2" fl. x 3/8" fl.	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"	26" h	يم النبير ممم	.II to 00 mi	24000	19310	20710
12'	15912	C-144"	16112	D-144"			ıll to 20 mid		19312	20712
25'	15925	C-300"	16125	D-300"	and lower. Hoses longer than 8' not 19325 20 recommended for evacuation.			20725		
50'	15950	C-600"	16150	D-600"	reco	mmenaea	ior evacua	tion.	19350	20750

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

PLUS II™3/4" HEAVY DUTY 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
- 3000 psi (206 bar) minimum burst, 600 psi (41 bar) maximum working pressure
- Available with steel 3/4" Female, 3/4"
 Male flares, 3/4" Male pipe or hex fittings
- Operating temperature -20° to 200°F (-28.8° to 93.3°C)
- Minimum bend radius: 12" (305 mm)
- Not for use with NH3



Length	3/4" 3/4" "O" rin	fl. –	3/4" hex x 3/4" hex copper gasket seal			
12"	18412	E-12"	20812			
24"	18424	E-24"	20824			
36"	18436	E-36"	20836			
48"	18448	E-48"	20848			
60"	18460	E-60"	20860			
72"	18472	E-72"	20872			
96"	18496	E-96"	20896			
10'	18510	E-120"	20910			
12'	18512	E-144"	20912			
25'	18525	E-300"	20925			
50'	18550	E-600"	20950			
Replace	Replacement parts					

Replace	Replacement parts		
UPC#	Description		
19012	3/4" "O" ring		
59655	3/4" Copper gasket		

AUTOMOTIVE MANIFOLD HOSES FOR R-134A SYSTEMS



These 1/4" hoses combine PLUS IITM hose with 1/2" Acme fittings to meet SAE requirements. You get PLUS IITM double barrier protection in a hose manufactured specifically for automotive applications. Fitting threads are 1/2" Acme Female and 14 mm Male fittings.

MADE IN THE USA

Color	Yellow	Blue	Red	3 pak
Length	Straight Acme QC x 45° Acme SealRight™	1/2" fe. Acme x 14 mm	1/2" fe. Acme x 14 mm	
60"	27460	27260	27660	27102
72"	27472	27272	27672	27101
96"	27496	27296	27696	27104
10'	27510	27310	27710	27103



AUTOMOTIVE CHARGING MANIFOLD AND HOSES FOR 1234YF SYSTEMS

Charging manifold and hoses designed specifically for 1234yf. Manifold body made of lightweight forged aluminum alloy for handling ease and the durability and reliability required for repeated use.

MADE IN THE USA

Color	Yellow	Blue	Red				
Length	3/16" hose (12 mm barb x 45° QC)	3/16" hose (12 mn	n x 12 mm barb)				
36"	17803	17823	17863				
48"	17804	17824	17864				
60"	17805	17825	17865				
72"	17806	17826	17866				
96"	17808	17828	17868				
120"	17810	17830	17870				
144"	17812	17832	17872				
180"	17815	17835	17875				
4004 CT	4004 (Table Observed Marifold						

1234yf Test & Charging Manifold

9849 TITAN® 2-Valve Manifold with 72" PLUS II™ SAE RYB hoses with couplers, R/B gauges, bar/psi/kPa, R1234yf, °F

MADE IN

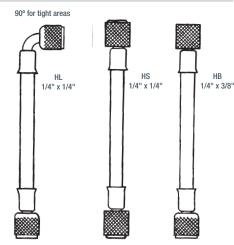
SPECIAL 1/4" PLUS II™ CHARGING HOSES

YELLOW JACKET® 1/4" yellow charging hoses with special fittings include straight, 3/8" and 90° fittings. Red and blue hoses also available.

Length	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

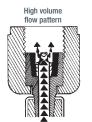
Longer lengths available. Please specify.

Replacement parts				
UPC#	Description/Quantity			
19010	1/4" Gasket (6 pak) and valve depressor (3 pak)			
19020	Replacement gasket (10 pak)			
19302	Adjust-a-Valve™ opener (10 pak)			



HOSE COMPARISON CHART

1/4" Flexible hoses	3/8" Flexible hoses	1/2" and 5/8" Flexible hoses
Easily connects to 1/4" Male flare access fitting on system	Evacuates and charges faster than 1/4" hose	Evacuates and charges faster than 1/4" hose
		Allows you to pull a deeper vacuum
		More efficient job of removing moisture and contaminants from the system
PLUS II [™] 1/4" Charging hose (SealRight, [™] FlexFlow and ball valve ends)	PLUS II™ 3/8" Charging hose	PLUS II™ 1/2" and 5/8" Charging hose
Adjust-a-Valve™ valve core depressor easily opens all out-of-tolerance Schrader valves (SealRight hoses offer different technology)	PLUS II™ hoses with double barrier protection	PLUS II™ hoses with double barrier protection
PLUS II [™] hoses offer double barrier protection		Large I.D. reduces vacuum time
Nylon layer for permeation, braid for strength, and outer cover for protection		substantially over 1/4" or 3/8" hose Faster refrigerant transfer and faster
Fully UL recognized assemblies		charging on large systems
(File SA9737)		Wide selection of fittings are available
Temp: -20° to 180°F (-28.8° to 82.2°C)	Temp: -20° to 180°F (-28.8° to 82.2°C)	Temp: -22° to 176°F (-30° to 80°C)
Burst: 4000 psi (276 bar) minimum	Burst: 3000 psi (207 bar) minimum	Burst: 3000 psi (207 bar) minimum
Working: 800 psi (55 bar) maximum	Working: 600 psi (41 bar) maximum	Working: 600 psi (41 bar) maximum
Safety factor: 5 to 1	Safety factor: 5 to 1	Safety factor: 5 to 1
Available lengths: 12 inches to 100 feet	Available lengths: 12 inches to 100 feet	Available lengths: 12 inches to 100 feet



The Adjust-a-Valve™ valve core depressor easily opens out-of-tolerance Schrader valves. Simply adjust height with needle nose pliers. Designed for repeat usage; replacement is convenient.

Fittings available <i>PLUS II</i> [™] hoses							
Туре	Str.	45°	90°				
1/8" Female flare							
3/16" Female flare							
1/4" Female flare							
1/4" Female SealRight™							
3/8" Female flare							
5/16" Female flare							
1/4" Male flare							
1/8" NPT Male							
1/4" NPT Male							
1/2" Female Acme							
14 mm Male							
Not all hose and fitting combinations are listed in this catalog. As	k for specifics						

Inspect your hoses on a regular basis.

Since 1964, YELLOW JACKET® 1/4" charging hoses have "year of manufacture" coded or listed on the rim of the nut. Prior to 2006, a series of I's, X's, O's, A's, B's or C's indicated the year. Since mid-2006, the actual year of manufacture has been used. *If your hoses are more than five years old, we recommend that you replace them.*

6	1964	4 BBBB	1997
1	1970	3 BBB	1998
6 IIIIII	1971	2 BB	1999
1 I	1976	1 B	2000
6 XXXXXX	1977	6 CCCCCC	2001
1 X	1982	5 CCCCC	2002
6 000000	1983	4 CCCC	2003
10	1988	3 CCC	2004
6 AAAAAA	1989	2 CC	2005
1 A	1994	1 C or 2006	2006
6 BBBBBB	1995	2007	2007
5 BBBBB	1996	All after 2007 are stamped v	vith year of mfg.

Ounces of liquid held per foot of hose at 80° F							
Hose type	R-22	R-134a	R-404A	R-407C	R-410A		
1/4" <i>PLUS II</i> ™	0.33	0.33	0.29	0.31	0.29		
1/4" Heavy duty	0.31	0.32	0.27	0.30	0.28		
3/8" <i>PLUS II</i> ™	0.77	0.78	0.67	0.73	0.68		
3/8" Heavy duty	0.77	0.78	0.67	0.73	0.68		
1/2" Heavy duty	1.68	1.70	1.47	1.60	1.49		
3/4" Heavy duty	3.53	3.58	3.09	3.37	3.13		

AMMONIA CHARGING HOSE



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

- Regular CH20 gaskets for 1/4" hoses (19010, 19020).
 CH11 gaskets for 3/8" hoses (19011)
- 1/4" and 3/8" 2500 psi (172 bar) minimum burst, 500 psi (34 bar) maximum working pressure
- 1/4" operating temperature -20° to 176°F (-28.8° to 80°C) and minimum bend radius: 6" (152 mm)
- 3/8" operating temperature -22° to 176°F (-30° to 80°C) and minimum bend radius: 8" (203 mm)
- Made in the USA

1/4"	Str. fl. x 1/4" 45°		3	3/8" Str. fl. bo	th ends
UPC#	Part#	Ler	ngth	UPC#	Part#
16848	NHA-48"	48	3"	19448	NBC-48"
16872	NHA-72"	72	2"	19472	NBC-72"
16896	NHA-96"	90	6"	19496	NBC-96"
16910	NHA-120"	1	0'	19510	NBC-120"
16912	NHA-144"	12'		19512	NBC-144"
Steel ha	lf union ammonia	a fitting	gs		
UPC#	Description				
16801	1/4" Male fl. x 1/4" NPT N		Male Str.		
16802	1/4" Male fl. x 1/4'	NPT M	ale 90°		
16803	3/8" Male fl. x 1/4"	' NPT M	ale		

 $\ensuremath{\text{NH}}_3$ manifold on page 23.

FUEL OIL ASSEMBLY HOSES

Reinforced hose designed for quick pump to nozzle connection and oil burner connections.

- Flexible to absorb vibration and swelling while providing positive cut-off
- 4000 psi (276 bar) minimum burst and 800 psi (55 bar) maximum working pressure
- Operating temperature -20° to 180°F (-28.8° to 82.2°C)
- Minimum bend radius: 6" (152 mm)
- Made in the USA

UPC#	Length	Description
78041	12"	3/16" Female flare x 3/16" Female flare Pump to nozzle connector
78042	12"	1/4" Female flare x 1/4" Female flare Pump to nozzle connector
78112	12"	1/8" NPT Female swivel x 1/8" NPT Male Pump to nozzle connector or gauge to pump
78043	18"	3/16" Female flare x 3/16" Female flare Pump to nozzle connector
78044	18"	1/4" Female flare x 1/4" Female flare Pump to nozzle connector

Longer lengths available.

OIL PUMP VIBRATION ELIMINATOR

Reinforced rubber hose helps eliminate noise and vibration when installed in a heating system.

- 3000 psi (207 bar) minimum burst, 600 psi (41 bar) maximum working pressure
- Operating temperature -20° to 180°F (-28.8° to 82.2°C)
- Minimum bend radius: 6" (152 mm)
- Made in the USA



	UPC#	Length	Description
ı	78012	12"	3/8" Male flare x 1/4" NPT Male oil burner connector

CYLINDER VALVE HOSESWith finger tight drum fitting

Designed for finger tight operation on 125 lb. and 145 lb. refrigerant cylinders. Gaskets seal without wrenches.



UPC#	Description
19020	Replacement gasket for 1/4" and 1/2" Acme hose (10 pak)
18001	Cylinder gasket (10 pak)

Use cylinder valve adapters only. See page 33.

UPC#	L.	Part#	Туре	Fittings	Burst pressure	Working pressure	Operating temp.	Min. bend radius
18612	12"	CVX-12	1/4" Heavy duty	1/4" Male flare x 3/4" NPS	4000 psi (276 bar)	800 psi (55 bar)	-22 to 176 (-30° to 80°C)	6" (152 mm)
18912	12"	CVY-12	3/8" Heavy duty	3/8" Male flare x 3/4" NPS	3000 psi (207 bar)	600 psi (41 bar)	-22 to 176 (-30° to 80°C)	8" (203 mm)
18072	72"	CVH-72	1/4" Original	1/4" Female flare x 3/4" NPS	2500 psi (172 bar)	500 psi (34 bar)	-20 to 180 (-28.8° to 82.2°C)	6" (152 mm)
18372	72"	CVB-72	3/8" Standard	3/8" Female flare x 3/4" NPS	3000 psi (207 bar)	600 psi (41 bar)	-20 to 200 (-28.8° to 93.3°C)	6" (152 mm)

HIGH PRESSURE CONTROL HOSE

For HFC, HCFC and CFC refrigerants and hydrocarbons



The YELLOW JACKET® pressure control hose is constructed of a thermoplastic polymer inner tube and cover. This new material eliminates the vibration problems that are present in copper capillary tube installations.

The higher temperature ratings of this thermoplastic to 266° F eliminate the failures caused by maximum load conditions on rubber type pressure control hoses.

Between the inner tube and the cover, the hose is reinforced with a polyester braid of high tensile strength with high modulus, giving it the ability to withstand higher pressures.

Available in any combination of 1/4" or 3/8" brass SAE flare straight or 90° angle fittings. Hex nuts are brass. Copper gaskets provide the best possible seal.

- Improved permeation characteristics. R-134a permeation tested at: 0.188 oz./ft./yr. 0.0118 lb./ft./yr 17.6 gr./m./yr.
- Results with other refrigerants will also show superior performance characteristics
- For use with most HFCs such as R-134a, R-404A, R-407A, R-407B, R-407C, R-410A and R-507, HCFC such as R-22, HC's, R290 and
- Usable oil types include polyol ester, alkylbenzene and mineral oils.

Specifications

I.D.: .156" (4.0 mm) O.D.: .325" (8.2 mm)

Working pressure: 800 psi, 55 bar, 5.5 MPa Burst pressure: 4000 psi, 276 bar, 27.6 MPa Minimum temperature: -49° F (-44° C) Maximum temperature: 266° F (130° C) Minimum bend radius: 4" (102 mm)

Length*	UPC#					
(assembly)	1/4" Str. x Str.	1/4" Str. x 90°	1/4" 90° x 90°	3/8" Str. x Str.	3/8" Str. x 90°	
12"	78612	78712	78812	78912	79112	
18"	78618	78718	78818	78918	79118	
24"	78624	78724	78824	78924	79124	
30"	78630	78730	78830	78930	79130	
36"	78636	78736	78836	78936	79136	
48"	78648	78748	78848	78948	79148	
60"	78660	78760	78860	78960	79160	
72"	78672	78772	78872	78972	79172	
96"	78696	78796				

^{*} Special lengths are readily available.



STAINLESS STEEL HOSE SPECIFICATIONS

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.

Applications: vacuum and charging, vibration isolation, movable components and permanent application. **Not for use with NH**₃.

	Stainless steel hose specifications						
	Size	Max psi working*	Flexing bend radius	Permanent bend radius	Temperature/pressure correction		
Ī	1/4"	1275 (88 bar)	5.5"	1"	68°F – 1.00		
ĺ	3/8"	1000 (69 bar)	6.5"	1-1/4"	200°F86 300°F80		
	1/2," 5/8"	1000 (69 bar)	8.5"	1-1/2"	400°F – .78		
ĺ	3/4"	725 (50 bar)	10"	2"	500°F77 800°F76		
	1"	700 (48 bar)	11.5"	2-3/4"	900°F74		
ĺ	1-1/4"	550 (38 bar)	13"	3-1/4"	1000°F – .70		

 $^{^{\}star}$ PSI at 68°F with a 4-to-1 safety factor. Core is T-321 SS with 300 Series SS braid.

Standard and custom length assemblies are made to order. Minimum length 12."

QUICK COUPLER ASSEMBLY

For vacuum and charging

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

- · Brass quick coupler
- 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"
- Made in the USA



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

SWEAT FITTING ASSEMBLY



	male t fitting		ale t 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"

Manufactured with straight, copper sweat ends.

- · Male sweat to fit inside mating tube
- Female sweat to fit outside mating tube
- · Made in the USA



GET MAXIMUM BENEFIT FROM YOUR YELLOW JACKET METAL HOSES

Keep your hoses on the job longer and the YELLOW JACKET warranty in effect by avoiding sharp bending and twisting that causes early failure. The warranty does not cover fatigue failure. Replace gaskets in quick couplers as needed to ensure a proper sealing.

FLARE ASSEMBLY For display cases, etc.



Stainless steel assemblies are made with a combination of Male and Female flares. Custom assemblies can be made.



Fl. size	Male fl.	Male fl.	Fe. fl.
x length	x Male fl.	x 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

NOTE: Stainless steel hoses are made-to-order and cannot be returned.

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

CO₂ TEST AND CHARGING MANIFOLDS

Manifold and hoses designed specifically for transcritical CO₂ (R-744) applications.



The YELLOW JACKET® TITAN® Test and Charging Manifold for transcritical CO₂ systems is constructed with a forged aluminum alloy body making it lightweight for handling ease and durability. No sightglass means added safety. It features true 45° SAE flare hoses 78" in length.

- Large, easy-to-read 3-1/8" (80 mm) liquid-filled red and blue, 1% accuracy (Class 1) gauges; psi/bar
- Proven, double "O"-ring piston for reliability and long service life.
- Exclusive 100 mesh filter in-line on all flare fittings helps keep out particulate material and extends the life of the seats.
- · Fourth hose to enable connection to hi/lo sides, refrigerant tank, and vacuum pump for diagnostics, evacuation and charging without switching hoses.
- 3/8" vacuum port for use with larger hose to cut evacuation time by up to 33% (all other fittings on unit are 1/4").
- Dedicated transcritical CO₂ hose 78" (200 cm) in length
- Designed and assembled in the USA





Specifications

Scales:

LP 30 in. Hg/1500 psi (-1/+105 bar)

-60° to 85°F (-52° to 30°C) HP 0/3000 psi (0/210 bar)

4-valve forged aluminum body

Precision stainless steel valve feed screws

No sight glass for added safety

Class 1, 3-1/8" (80 mm), oil-filled, pulse-free

Fittings: (3) 1/4"; (1) 3/8" (vacuum application only)

Hoses: Three (3) black, 78" (200 cm), 1/4" SAE fittings (45°)

- Operating pressure 1740 psi (120 bar)
- · High pressure copper gaskets

One (1) yellow, 78" (200 cm), 3/8" SAE fittings

- · Operating pressure 594 psi (41 bar)
- · Neoporene built-in gaskets

UPC#	Description	
45925	TITAN® CO2 Manifold with hoses (3) black and (1) yellow	
45930	CO2 Tanscritical Test and Charging Manifold with Quick Couplers	
UPC#	Replacement Parts	
45922	CO2 78" (200 cm) black replacement hose (single)	
45923	Nylon CO2 Manifold bag with handle and straps (optional)	
45924	CO2 Manifold Briefcase	
14579	3/8" 78" (200 cm) yellow replacement hose (single)	
49193	High pressure replacement gauge	
49194	Low pressure replacement gauge	
79472	1/4" STR X 45° CO2 Hose 72"	
79510	1/4" STR X 45° CO2 Hose 120"	

For replacement parts, refer to the manual (also available at yellowjacket.com)