



**Permanent PermaSafe IX
Scovill Ends**

Internally expanded, permanent (requires special machinery for installation), Scovill-type couplings provide full flow of material being conveyed and are commonly used for the suction or discharge of fuel, oil, or other fluids (NOT for air or any plastic/non rubber hose tubes). They are used in home fuel oil delivery, marine refueling, tank truck service, or in aviation refueling applications (meets API 1529 for Aviation Fueling).

With Biodiesel/E85 biofuels coming on the market, the testing on its effects to metals is still being researched. Prolonged exposure to brass may accelerate the oxidation of the biodiesel and form sediments/gels/salts in the fuel line. 316 stainless steel may be more suitable for biofuels where there is frequent exposure or blends of over B20.

Replacement gaskets for the female ends are available (#N90-xxxBN). Assemblies used in critical applications must be tested/certified at regular intervals.

Please Note: Female NPSM scovills are only used for ease of installation. Due to the fact that NPSM thread seals on a gasket and will wear over time, they are not to be used in permanent applications. For permanent applications use an N270 pipe union which offers a mechanical seal.

Size	Part #	Stk	Price/Ea
Brass Solid Male NPT			
3/4"	N95-075	C	\$ 35.84
1"	N95-100	A	42.91
1-1/4"	N95-125	A	56.83
1-3/8"	N95-138 (1-1/2" NPT)	B	66.92
1-1/2"	N95-150	A	69.31
2"	N95-200	A	125.30
2-1/2"	N95-250	C	207.97
3"	N95-300	B	283.43
4"	N95-400	N	514.96
Brass Swivel Female NPSM			
3/4"	N96-075	N	\$ 66.80
1"	N96-100	C	69.55
1-1/4"	N96-125	C	82.97
1-3/8"	N96-138 (1-1/2" NPSM)	C	121.81
1-1/2"	N96-150	C	121.07
2"	N96-200	C	212.66
2-1/2"	N96-250	N	330.27
3"	N96-300	N	424.14
4"	N96-400	N	644.94
Brass Victaulic Groove			
1"	N95V-100BR	N	\$ 57.47
1-1/2"	N95V-150BR	N	104.40
2"	N95V-200BR	C	136.94



PermaSafe IX Scovill Ferrules

Hose I.D.	Part # (Ferrule ID)	Stk	Price Each
*Brass Ferrule			
1"	N97-100AA (1.469")	C	\$ 17.01
1"	N97-100A (1.516)	A	17.01
1"	N97-100B (1.562)	A	17.01
1"	N97-100C (1.609)	C	17.01
1-1/4"	N97-125AA (1.688)	C	\$ 24.13
1-1/4"	N97-125A (1.750)	C	24.13
1-1/4"	N97-125B (1.813)	A	24.13
1-1/4"	N97-125C (1.875)	C	24.13
1-3/8"	N97-138B (1.828)	C	\$ 28.87
1-3/8"	N97-138C (1.875)	C	28.87
1-3/8"	N97-138D (1.922)	C	28.87
1-1/2"	N97-150AA (1.968")	C	\$ 26.52
1-1/2"	N97-150A (2.031)	B	26.52
1-1/2"	N97-150B (2.094)	A	26.52
1-1/2"	N97-150C (2.156)	B	26.52
1-1/2"	N97-150D (2.214)	C	26.52
*Stainless Ferrule			
2"	N97-200AA (2.469)	C	\$ 30.44
2"	N97-200A (2.531)	C	30.44
2"	N97-200B (2.594)	B	30.44
2"	N97-200C (2.656)	B	30.44
2"	N97-200D (2.718)	C	30.70
2"	N97-200E (2.781)	C	54.89
2-1/2"	N97-250A (3.031")	N	\$ 67.45
2-1/2"	N97-250B (3.098)	C	67.45
2-1/2"	N97-250C (3.170)	C	67.45
2-1/2"	N97-250D (3.250)	C	67.45
3"	N97-300AA (3.625)	C	\$ 78.70
3"	N97-300A (3.703)	B	78.70
3"	N97-300B (3.781)	B	78.70
3"	N97-300C (3.844)	C	78.70
4"	N97-400C (4.687)	N	\$ 242.96
4"	N97-400D (4.718)	N	242.96
4"	N97-400E (4.750)	N	242.96
4"	N97-400G (4.812)	N	242.96

*Do not intermix various manufacturer's fittings/ferrules.



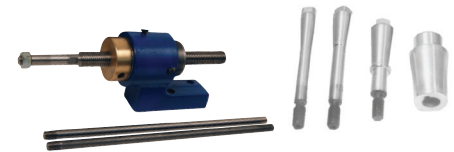
Assemblies used in critical applications must be tested/certified at regular intervals.



**Plated Steel Permanent
PermaSafe IX Scovill Ends**

Internally expanded, permanent (requires special machinery for installation), plated steel Scovill-type couplings are used on "small ID" cement, plaster, grout & shotcrete hoses where a standard barbed fitting reduces the flow and can clog small diameter hoses. For larger diameters, swage or external crimp type fittings are normally used for concrete, plaster, or grout as "internal expansion" fittings cannot be heat treated and will wear out quickly. Assemblies used in critical applications must be tested/certified at regular intervals. Do not repair cement, plaster, grout hoses due to tube wear, which results in coupling retention problems if attempting to repair.

Size	Part #	Stk	Price/Ea
Galvanized Solid Male NPT			
1"	N95-100GS	C	\$ 55.91
1-1/4"	N95-125GS	N	48.34
1-1/2"	N95-150GS	C	58.40
Galvanized Ferrule			
1"	N97-100144	C	\$ 44.21
1-1/4"	N97-125160	N	38.12
1-1/2"	N97-150222	C	39.62



Manual Scovill Expander

This is a hand operated pull through type coupling expander that is designed for small production runs or manual repairs of sizes 5/8" to 2" (as a guide and depending on model and drawbars, this unit will range in \$2500-3500 whereas electric, larger production machines can run \$8-12K). Each size (ie. N98-/N95-) requires a pull through punch (listed below) and a threaded 2" female reducer pipe coupling (ie. our N250-200-xxxBI) to attach to all male NPT ends before pull through. If attaching N96- "female" Scovills, then a N200-xxxBI close nipple is also required. Instructions are provided with machine.

Size	Part #	Stk	Price/Ea
Expander Machine Only			
5/8"-2"	2500HB0000	N	\$ 4,381.32
Pull Through Punches			
5/8"	2500HTL01	N	\$ 712.85
3/4"	2500HTL02	N	778.41
1"	2500HTL03	N	778.41
1-1/4"	2500HTL04	N	778.41
1-3/8"	2500HTL05	N	778.41
1-1/2"	2500HTL06	N	778.41
2"	2500HTL07	N	712.85

Size	Part #	Stk	Price/Ea
Threaded Couplings			
Various	N250-200-xxxBI	B	POR



Refer to the Technical Section on the selection, installation, use and maintenance of hose & fittings prior to use.