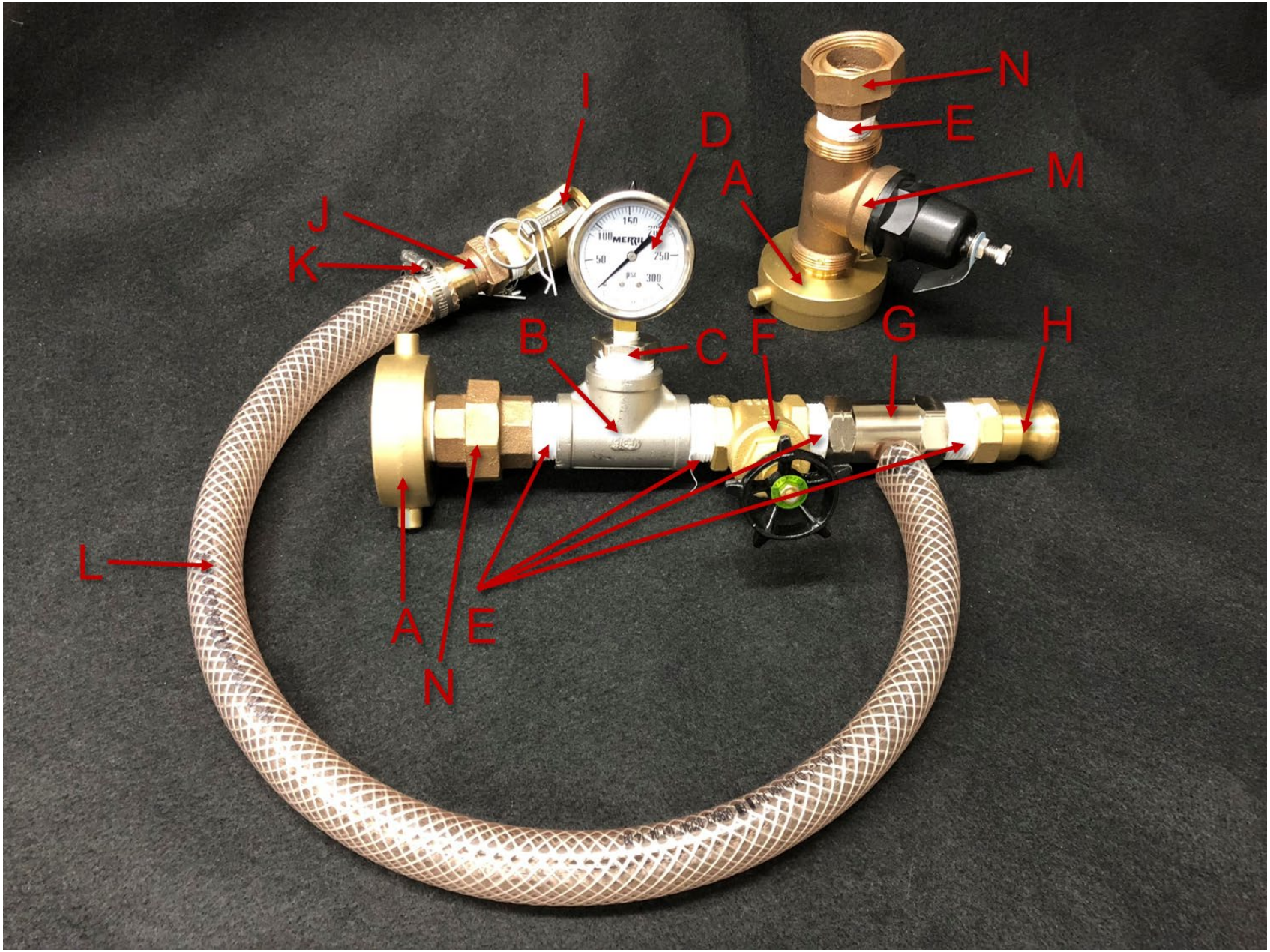
United States Environmental Protection Agency

Hydrant Sampler Parts List



Hydrant Sampler Parts List

Section of Sampler	Item	Photo Letter	Quantity Per Sampler
Main	Brass hydrant reducer (2.5" FNST inlet by 1" MNPT outlet)[1]	A	1
Main	1" MNPT red brass nipple, closed threaded	E	3
Main	1" FNPT red brass tee	B	1
Main	1" FNPT brass gate valve	F	1
Main	Dole flow control valve, 20.0 gpm, 1" FNPT inlet/outlet	G	1
Main	1" MNPT x 1" ID red brass hose adapter	J	1
Main	#16 hose clamp for 1" ID hose	K	1
Main	Thread sealant tape, PTFE, 3/4" x 520"	-	1
Main	1" ID hose (reinforced PVC), per ft	L	4
Main	1" cam and groove fitting, forged brass coupler, coupling type D, female coupler x FNPT connection type	I	1
Main	1" cam and groove fitting, forged brass adapter, coupling type A, male adapter x FNPT connection type	H	1
Pressure Gauge	1" MNPT x 1/4" FNPT chrome plated brass reducing bushing	C	1
Pressure Gauge	Pressure gauge, filled, 2.5", 300 psi, SS	D	1

If system pressure exceeds 150 psi at sampling location[2]:

Section of Sampler	Item	Photo Letter	Quantity Per Adapter
PRV adapter	Brass hydrant reducer (2.5" FNST inlet by 1" MNPT outlet)	A	2
PRV adapter	1" FNPT brass, water pressure reducing valve (PRV)	M	1
PRV adapter	1" FNPT brass union	N	2
Main	1” MNPT red brass nipple, closed threaded	E	2

Many parts needed for the hydrant sampler are available through plumbing supply, scientific, and home improvement vendors. Please contact Matthew Alexander (alexander.matthew@epa.gov) if you have specific questions about constructing a sampler.

[1] Some distribution systems have special hydrant threads specific to their system, however the majority use FNST.

[2] Fittings are rated for a maximum of 150 psi. The sampler may not be safe when system pressures exceed this value. Therefore, this list includes a pressure reducing valve (PRV), which can be easily connected and removed.