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Hydrant Servicing

Almost NO Reason To Ever Dig Up a Hydrant to Fix a Leak

Any Flow®, C-1000, CNL-1000, M-2000, E-5000, ENL-5000, EM-5000, EMNL-5000, R-6000 & RNL-6000 Hydrants

Figure No. 1

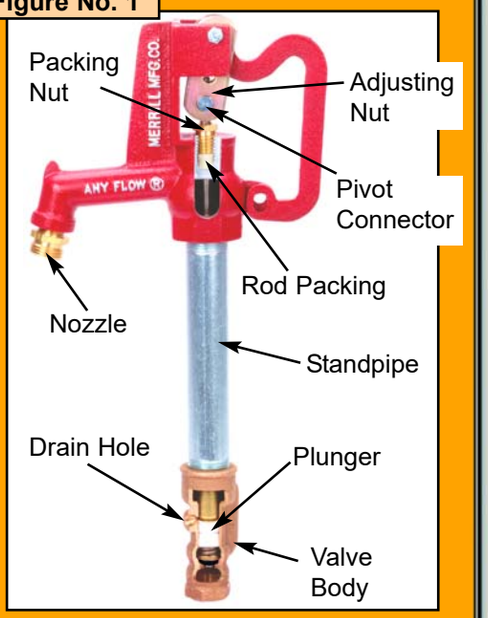
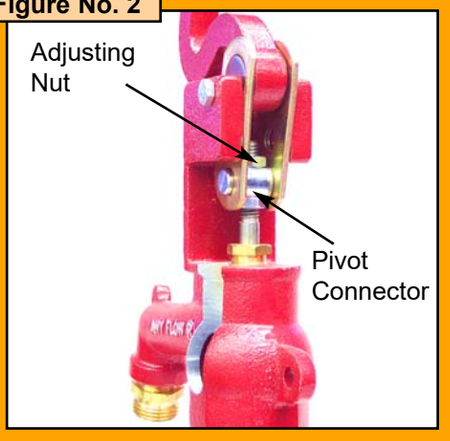


Figure No. 2



Any Flow®, C1000, CNL1000, M2000, R-6000, RNL-6000 - Leaking out of the packing

Figure No. 1

First tighten the packing nut a half turn while moving the handle up and down a few times. If this does not completely stop the leaking, turn the packing nut another half turn while moving the handle up and down. Sometimes this may have to be repeated again and again, depending on how long the leak has gone without being fixed. Small adjustments are much better than turning the nut a full turn or more right away, as that may not be necessary. If the adjustments do not cure the leak, a new packing piece must be installed under the packing nut. There is no reason to shut off the water to do this adjustment.

Any Flow®, C1000, CNL1000, M2000 - Leaking out the nozzle

Figure No. 2

This would mean the plunger needs to be lowered. To do this, the adjusting nut above and below the pivot connector need to be raised one turn. This may need to be repeated again to completely stop the leak. Smaller adjustments are better than adjusting several turns at once, as it might not be necessary. If three or so adjustments does not fix the leak, the plunger must be replaced. Most likely it is damaged or worn excessively. To replace the plunger, a piece of tape needs to be put around the standpipe just under the hydrant head and mark the location of nozzle. Turn off the water supply and unscrew the head from the standpipe and pull out the inside rod and plunger. Replace the plunger, lubricate and install back in standpipe. Tighten head so that the head touches the tape and probably no further adjustment may be necessary. Test to make sure it is draining properly by holding your hand over the outlet nozzle right away after shutting off hydrant for a few seconds, remove hand and you should hear a sound of air rushing into the hydrant. This means it is draining properly and should be in good working order. If it is not, do the adjustment as described above.

Any Flow®, C1000, CNL1000, M2000, R-6000, RNL-6000 - Leaking out the drain hole

Figure No. 1 and 2

What you need to know here is if it is leaking in the “off” position or the “on” position. **These are two completely different adjustments**. If it is leaking when in the “on” position, the plunger may be too low and the plunger is not coming up far enough to shut off the drain hole when the hydrant is running. Making small adjustments at a time is more critical here. Move the adjustment nuts down a half turn only. By going too far you will raise the plunger so much it will not shut off when the handle is down, causing it to leak out the nozzle. Or the plunger could be worn or damaged and needs to be replaced. If the leak continues when the hydrant is in the “off” position, the plunger needs a slight adjustment down. This means raise the adjustment nuts up a half turn to make the plunger go down. Again, if two or more adjustments does not fix the problem, the plunger needs to be replaced as in above directions. The only circumstances a hydrant would need to be dug up would be damage to the valve body or standpipe due to freezing weather or aggressive soil conditions and it rusted through. No amount of adjusting will fix this and those parts would need to be replaced. **There is no other reason to ever dig up a hydrant to fix it for a leak**. It is a 100 to 1 odds that a hydrant needs to be dug up to be fixed.

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Figure No. 3

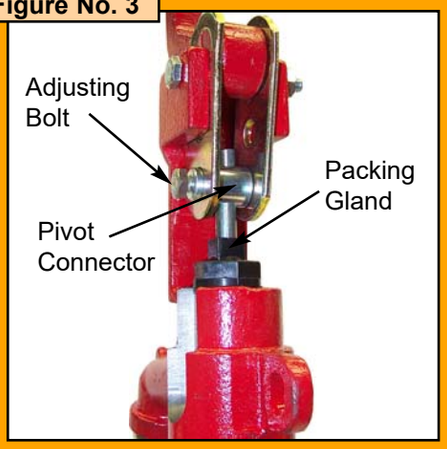


Figure No. 4

Installation Instructions

E-5000, ENL-5000, EM-5000, EMNL-5000 Hydrants

Figure No. 3

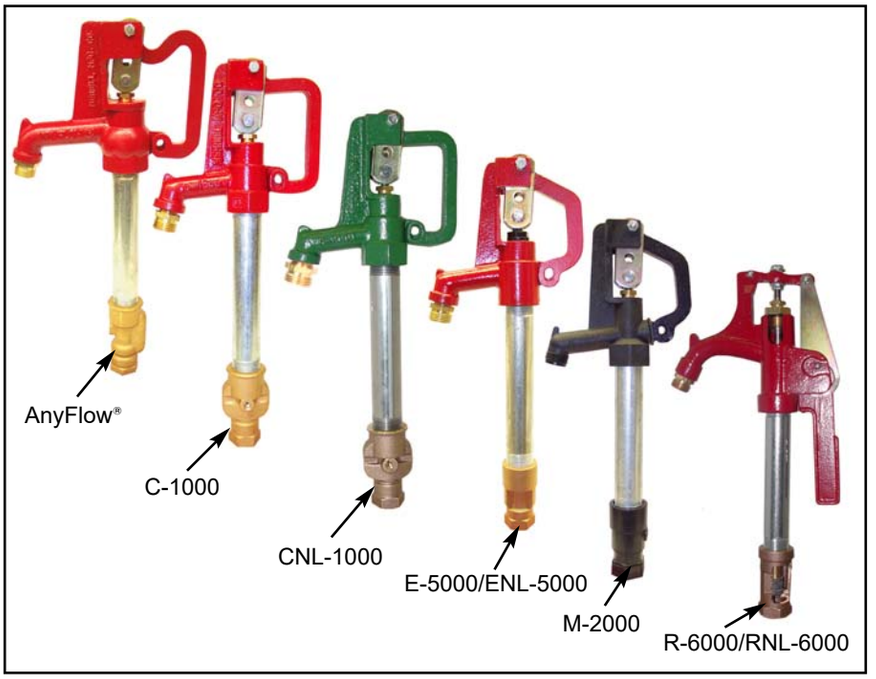
The symptoms and the adjustments are basically the same as the other models, except the E-5000/ENL-5000/EM-5000/EMNL-5000 have a bolt turned into the pivot connector for the adjustment. Instead of moving the adjusting nut up and down, you would move the pivot connector up and down. This is done by loosening the bolt on the side of the pivot connector and moving the pivot connector slightly in the proper direction to move the plunger either up or down as the symptoms require. Refer to the other models for instructions on what to do for each type of adjustment. The only difference is the loosening and retightening of the bolt in the pivot connector, instead of moving the adjusting nuts.

R-6000 & RNL-6000 Plunger Replacement

Figure No. 4

To replace the plunger, turn off the water supply. Take off the rocker arm and unscrew the packing gland. Lift out packing gland, rod & plunger. Replace plunger, lubricate it and install back in valve. Install packing gland and rocker arm. Turn on water and if necessary adjust plunger accordingly.

Ritchie® Hydrant Head Replacement - You may replace your Ritchie® Hydrant Head with a Merrill R-6000 using a R-121R parts kit.



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