

Single Channel Rental System

The RNAS Remediation Products Single Channel Injection System is an easy to use equipment package for electron donor injection into a single well. The rental system includes a water-driven proportional feeder, hoses, a flow meter, and wellhead fittings that attach to 1" or 2" well casings. The system is mounted on an aluminum A-frame that can be easily moved between locations or hung off the side of a tote. Two types of proportional feeders are available allowing for electron donor feed rates ranging from 0.4% to 10% by volume and total injection flow rates of 20-30 gallons per minute. This RNAS Single Dosing System can be rented with a manifold and extra hoses, flow meters, and wellheads to accommodate 4-6 wells at a time.

Highlights and Features

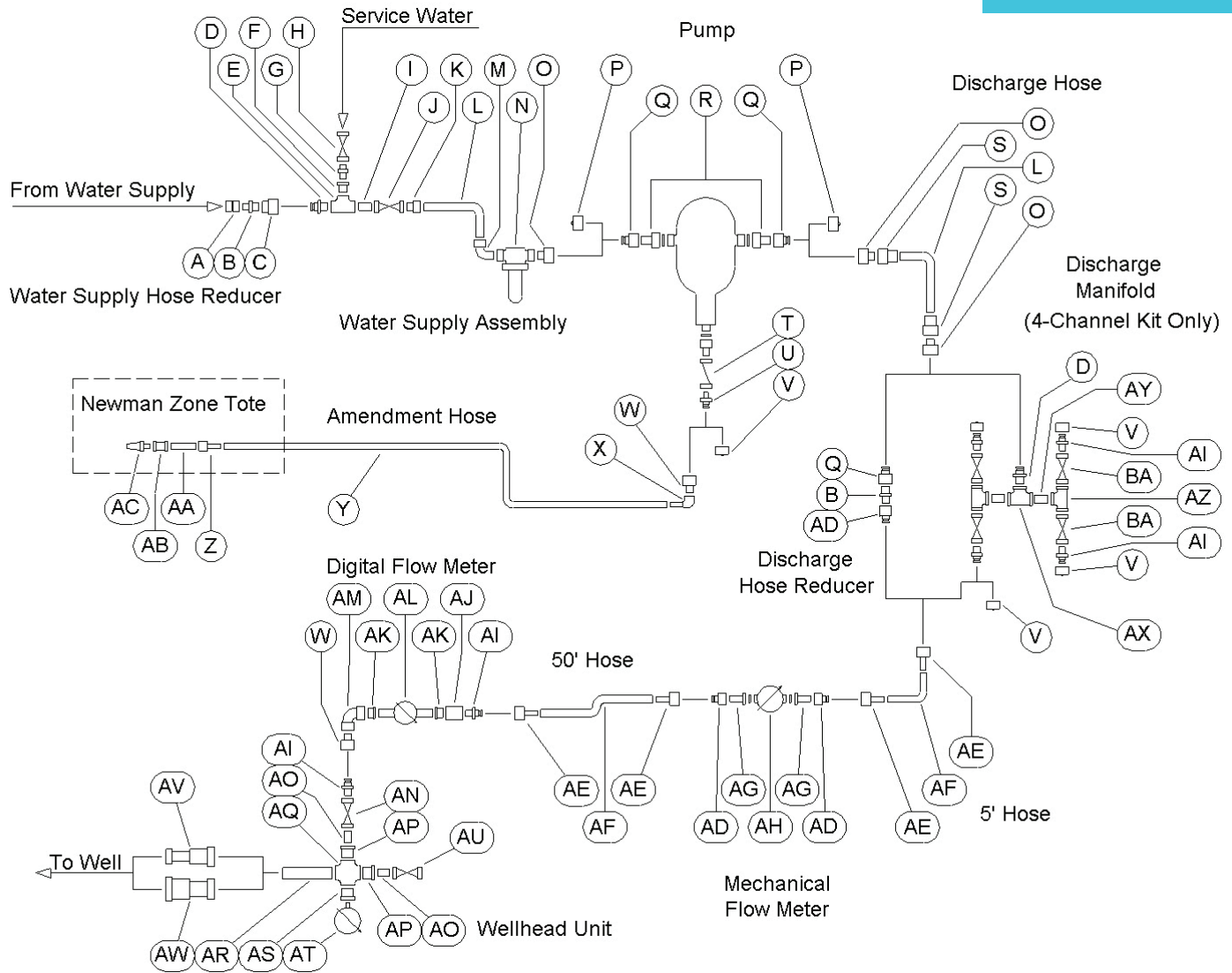
- Adapters allow water supply hoses for connections with a garden hose or camlock connections: ¾-inch, 1-inch or 1.5-inch male camlock fittings.
- Wellhead fittings attach to 1-inch or 2-inch well casings with compression fittings.
- Globe valve, pressure gauge and digital flow meter on the wellhead fitting allow for easy pressure and flow control at the injection point to maximize injection rates while protecting well seals.
- Digital totalizing flow meters (resettable - gallons delivered) make it easy to track injection volumes at each well.
- Mechanical flow meters on the manifold combined with the digital wellhead flow meters on the wellhead provide redundancy and allow for flow rates as between 0.25 gpm and 30 gpm per well.

Water Supply Requirements and Injection Pressure Recommendations

Typical wellhead injection pressures are 5 psig to 20 psig. Wellhead pressures above 20 psig may result in failure of the compression coupler seals – maximum wellhead pressure should be limited in shallow wells to prevent failure of well seals. The Dosmatics are mechanical feeders driven by water pressure and flow and require a minimum of 10 psig of pressure across the feeder to operate properly. The manifold, flow meters and hoses have additional flowing head losses. We recommend a water supply pressure of 30-50 psig at the system inlet to provide for flowing head losses and the wellhead pressure. Do not exceed the maximum operating pressure of the Dosmatic feeders.

Feeder Model	Flow Rate	Injection Rate	Operating pressure
<i>SuperDos 20</i>	0.05-20 GPM	2-10 %	5-65 psi
<i>SuperDos 30</i>	0.15-30 GPM	0.4-5 %	5-100 psi





ITEM	SIZE	SIZE	SIZE	SIZE	
A Swivel hose to pipe fitting NHF x NPT (F)	3/4" x 3/4"	W Banjo MPT x Coupler	3/4"	AT Pressure gauge, 0-30 psi, glycerine filled	2"
B Polypropylene reducing nipple MPT	1 x 3/4"	X PVC elbow Insert x FPT	3/4"	AU Ball valve, brass	3/4"
C Banjo FPT x Coupler	1"	Y Clear vinyl tubing	3/4" ID	AV Wellhead compression fitting	1 1/2" x 1"
D Banjo MPT x Adapter	1"	Z PVC female adapter Insert x FPT	3/4"	AV Sch 40 PVC compression coupler	1"
E Sch 40 PVC tee FPT	1"	AA 4" std galv stl nipple tbe	1 1/2"	AV Sch 40 PVC compression coupler	1 1/2"
F Sch 40 PVC reducing bushing MPT x FPT	1" x 3/4"	AB Std galv mal coupler	1"	AW Wellhead compression fitting	1 1/2" x 2"
G Double male brass connector GHM x MPT	3/4" x 3/4"	AC Suction line strainer	1"	AW Sch 40 PVC compression coupler	2"
H Single water hose shut-off	3/4"	AD Banjo FPT x Adapter	3/4"	AX Injection frame	1-Channel
I Sch 80 PVC close nipple	1"	AE Banjo Hose x Coupler	3/4"		
J Utility ball valve	1"	AF Reinforced clear vinyl tubing	3/4" ID		
K Sch 40 PVC male adapter Socket x MPT	1"	AG Water meter installation coupling	3/4" x 1/2" x 3/4"		
L TigerFlex hose	1"	AH Water meter, brass, 1/4 - 20 gpm	5/8" x 3/4"		
M Sch 40 PVC street elbow Socket x MPT	1"	AI Banjo MPT x Adapter	3/4"		
N Banjo Poly T-Strainer - FPT	1"	AJ Sch 40 PVC female adapter Socket x FPT	3/4"		
O Banjo MPT x Coupler	1"	AK Sch 40 PVC reducing bushing Spigot x Socket	3/4" x 1/2"		
P Banjo dust cap	1"	AL Paddle wheel flow meter w/ totalizer	1/2"		
Q Banjo FPT x Adapter	1"	AM Sch 40 PVC 90 elbow Socket x FPT	3/4"		
R Dosmatic A20-10% pump	-	AN Ashai/America globe valve	3/4"		
R Dosmatic A30-5% pump	-	AO Sch 80 PVC close nipple	3/4"		
S Sch 40 PVC female adapter Socket x FPT	1"	AP Sch 40 PVC reducing bushing Spigot x FPT	1 1/2" x 3/4"		
T Plastomatic diaphragm check valve	1/2"	AQ Sch 40 PVC cross Socket	1 1/2"		
U Banjo MPT x Adapter	1/2"	AR Sch 40 clear PVC pipe	1 1/2" OD		
V Banjo dust cap	3/4"	AS Sch 40 PVC reducing bushing Spigot x FPT	1 1/2" x 1/4"		