

# **Pearl**<sup>®</sup> *Water Systems*

**Steel Tanks  
with Diaphragm**



# MNP

The MNP Series has been designed for a wide range of applications, including hydropneumatic systems, booster systems, irrigation systems, and reduction of water hammer effects.

The MNP Series tanks, made of steel, have an internal lining of virgin polypropylene and a chlorobutyl membrane, certified by the FDA. The membrane is fixed to the tank wall thanks to a steel ring. A bronze valve sealed with a plug and an "OR" ring helps prevent air from escaping.

The external coating of the MNP Series tanks, with almond colored polyurethane paint on an epoxy base, provides hundreds of hours of protection against UV rays and in aggressive environments.

## Features

- Fixed Butyl membrane
- Stainless steel water connection
- Internal lining in virgin polypropylene
- Finished with polyurethane paint on epoxy base
- Air valve plug sealed with O-ring anti leak
- Does not require maintenance
- Maximum Working Pressure: 150 PSI / 10 bar.
- Maximum working temperature of water: 90 ° C.
- NSF Standard 61, IAPMO R&T, ACS, CE certifications.
- Factory preload in Nitrogen (N2) for its operation.
- 100% Factory Tested.



## Nomenclature

**MNP**

### MODEL

M = Metallic  
N = NPT Thread  
P = PEARL

**200**

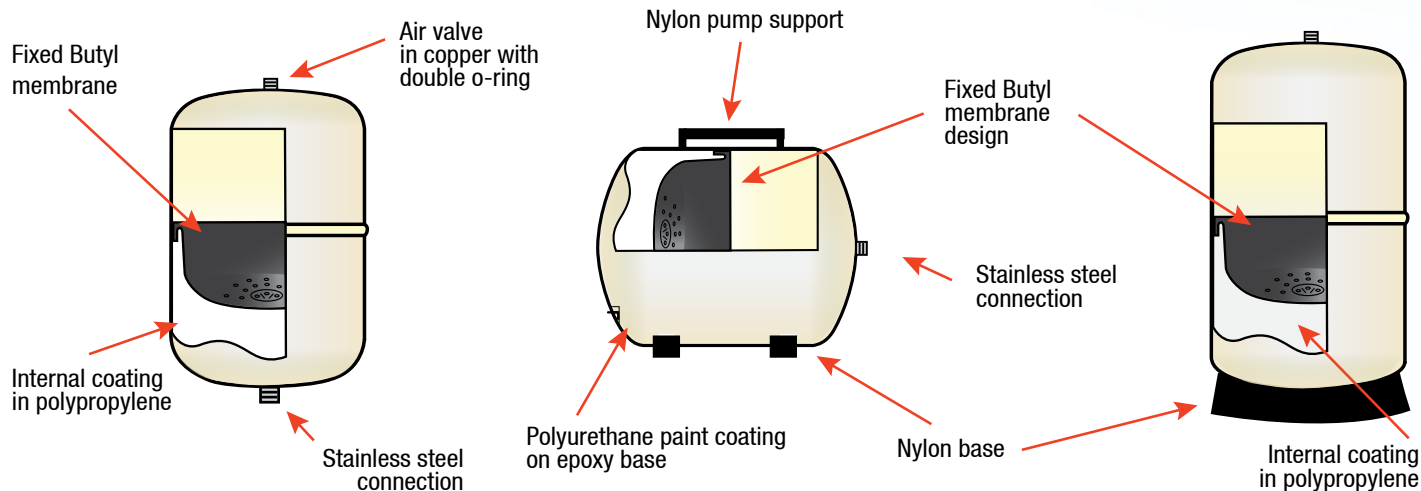
### VOLUME

Nominal volume  
tank in Liters

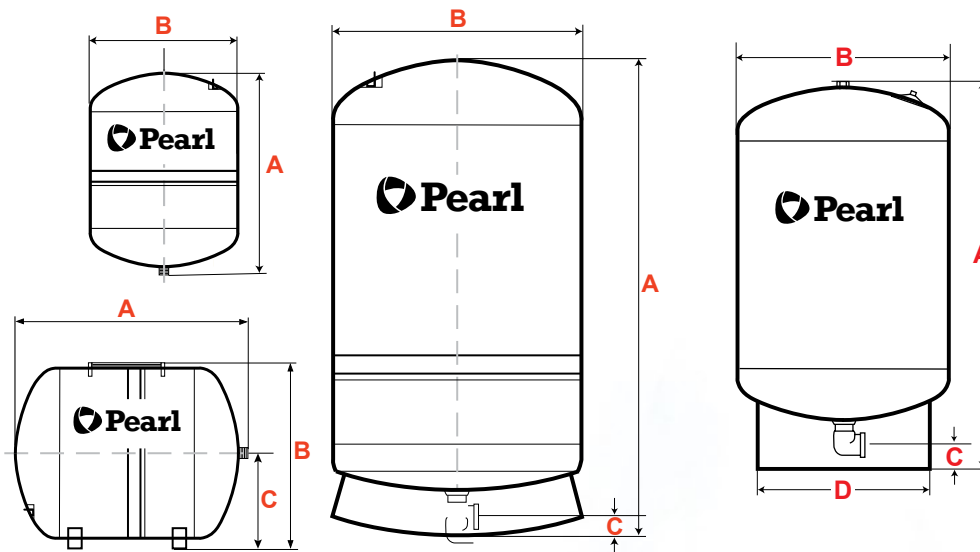
**V**

### TYPE

S = Spherical  
H = Horizontal  
V = Vertical base



## MNP - Steel Tank with Diaphragm



	MNP STEEL TANK SERIES SPECIFICATIONS												
	NOMINAL CAPACITY		CONNECTIONS	DIMENSIONS						SHIPPING BOX VOLUME		SHIPPING BOX WEIGHT	
				A		B		C					
NPT	[ lts ]	[ gal ]	[ in ]	[ cm ]	[ in ]	[ cm ]	[ in ]	[ cm ]	[ in ]	[ m³ ]	[ ft ³ ]	[ kgs ]	[ lbs ]
INLINE MODELS													
MNP1S*	1.3	0.35	1/2" SS MALE	20.1	7.9	12.0	4.7	-	-	0.0238	0.84	3.1	6.8
MNP3S*	3	0.5	3/4" or 1" SS MALE	22.0	8.7	14.0	5.5	-	-	0.0238	0.84	4.7	10.4
MNP8S	8	2.0	3/4" or 1" SS MALE	30.4	12.0	20.3	8.0	-	-	0.0147	0.52	2.3	5.1
MNP12S	12	3.2	3/4" or 1" SS MALE	38.4	15.1	22.9	9.0	-	-	0.0218	0.77	3.2	7.1
MNPE24S	24	6.0	3/4" or 1" SS MALE	36.4	14.3	28.0	11.0	-	-	0.0320	1.13	3.7	8.2
MNP35S	35	10	3/4" or 1" SS MALE	56.4	22.2	29.0	11.4	-	-	0.0549	1.94	6.8	15.0
HORIZONTAL MODELS													
MNP20H	20	4.5	3/4" or 1" SS MALE	36.4	14.3	28.0	11.0	14	5.5	0.0374	1.32	4.4	9.7
MNP24H	24	6.0	3/4" or 1" SS MALE	41.5	16.3	29.0	11.4	14.8	5.8	0.0439	1.55	5.4	11.9
MNP35H	35	10	3/4" or 1" SS MALE	56.4	22.2	29.0	11.4	14.8	5.8	0.0620	2.19	7.4	16.4
MNP60H	60	14	3/4" or 1" SS MALE	53.6	21.1	39.0	15.3	19.1	7.5	0.0971	3.43	11.1	24.5
MNP80H	80	20	3/4" or 1" SS MALE	71.4	28.1	39.0	15.3	19.1	7.5	0.1334	4.71	14.7	32.5
MNP100H	100	28	1" SS MALE	71.0	28.0	43.0	16.9	22.5	8.9	0.1416	5.00	15.0	33.1
VERTICAL MODELS WITH BASE													
MNP60V	60	14	1" SS FEMALE 90°	59.2	23.4	39.0	15.3	2.9	1.1	0.1042	3.68	11.0	24.3
MNP80V	80	20	1" SS FEMALE 90°	77.0	30.3	39.0	15.3	2.9	1.1	0.1362	4.81	14.6	32.2
MNP100V	100	28	1" SS FEMALE 90°	76.5	30.1	43.0	16.9	2.9	1.1	0.1526	5.39	15.2	33.5
MNP120V	120	32	1" SS FEMALE 90°	114.8	45.2	39.0	15.3	2.9	1.1	0.1917	6.77	22.7	50.1
MNP130V	130	34	1" SS FEMALE 90°	78.5	30.9	55.0	21.7	4.4	1.7	0.2384	8.42	24.5	54.1
MNP150V	160	44	1 1/4" SS FEMALE 90°	93.1	36.7	55.0	21.7	4.4	1.7	0.2885	10.19	27.8	61.3
MNP200V	200	53	1 1/4" SS FEMALE 90°	106.6	42.0	55.0	21.7	4.4	1.7	0.3401	12.01	31.1	68.6
MNP235V	235	62	1 1/4" SS FEMALE 90°	119.6	47.1	55.0	21.7	4.4	1.7	0.3701	13.07	37.7	83.2
MNP300V	305	81	1 1/4" SS FEMALE 90°	146.3	57.6	55.0	21.7	4.4	1.7	0.4610	16.28	47.1	103.9
MNP325V	325	86	1 1/4" SS FEMALE 90°	110.5	45.5	65.0	25.6	4.4	1.7	0.4958	17.51	48.5	106.9
MNP450V	450	120	1 1/4" SS FEMALE 90°	141.0	55.5	65.0	25.6	4.4	1.7	0.6853	24.20	61.5	135.6
STAINLESS STEEL MODELS													
SNP18S	18	4.5	3/4" or 1" SS MALE	36.4	14.3	28.0	11.0	-	-	0.032	1.13	3.7	8.2
SNP24S	24	6.0	3/4" or 1" SS MALE	41.5	16.3	29	11.4	-	-	0.0428	1.51	4.8	10.6
SNP18H	18	4.5	3/4" or 1" SS MALE	36.4	14.3	28	11	14	5.5	0.0374	1.32	4.4	9.7
SNP24H	24	6.0	3/4" or 1" SS MALE	41.5	16.3	29	11.4	14.8	5.8	0.0439	1.55	5.4	11.9

\* MNP1S and MNP3S: 4 PIECES / CASE

Factory precharge pressure: 30 PSI / 2bar

Highly engineered plastic bases. Models MNP325V and MNP450V in steel.

In-line and horizontal models up to 80 liters with 3/4" connection.

Place "R" at the end of the model.

Available in 16 bar.



Available in Stainless Steel

