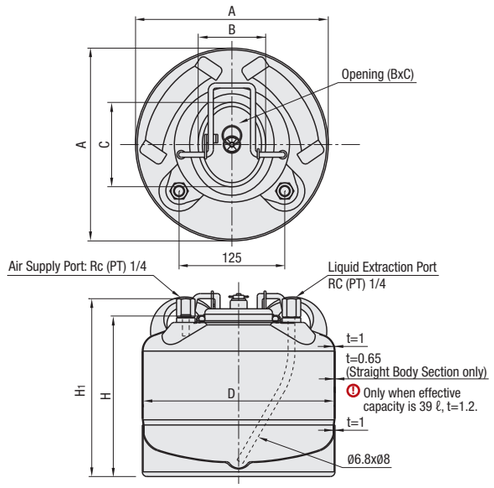
Pressure Tanks

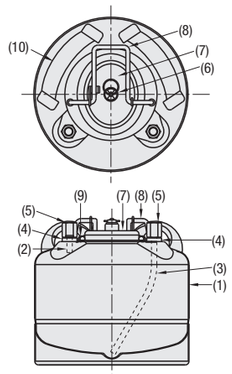
Simplified Type

Pressure Tanks – Simplified Type

Type	Material		Surface Finish	Normal Operating Pressure
	O-Ring	Others		
TNKD	Nitrile Rubber	Refer to "Component List"	Inner Surface-Deoxidized Outer Surface-Hairline	0.49 MPa or lower
TNKDF	Fluororubber			



RoHS10



Component List

Part No.	Name of Parts	Material
(1)	Pressure Tank Body	304 Stainless Steel
(2)	Pressure Air Pipe	304 Stainless Steel
(3)	Suction Pipe	304 Stainless Steel
(4)	O-Ring	Nitrile Rubber
(5)	Hex Reducing Sockets	304 Stainless Steel
(6)	Relief Valve	304 Stainless Steel
(7)	Lid for Pressure Tank	304 Stainless Steel
(8)	Handle for Locking Lid	304 Stainless Steel
(9)	O-Ring	Nitrile Rubber
(10)	Carrying Handle	304 Stainless Steel

Features of Nitril Rubber **P.2567**.
Features of O-Ring **P.3449** and **3529**.

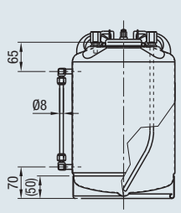
Part Number		At Full Capacity (ℓ)	Inner Diameter D	Effective Capacity Depth H	H_1	A	B	C	Weight kg
Type	Effective Capacity (ℓ)								
TNKD	5	5.2	226.7	192	210	228	81	97	2
	10	10.3		347	365				2.5
	20	20.5		580	598				3.8
	39	39.0	312.6	598	621	315			7.4

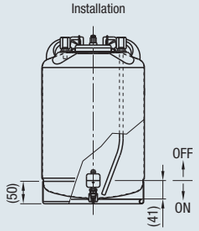
Part Number Example

Part Number
TNKD5

Part Number Alterations

Part Number - (LG, FS)
TNKD20 - LG-FS

Alterations	Code	Spec.
Installation of Level Gauge 	LG	Install level gauge to provide visual view of the liquid level. Install level gauge at a position of 65mm from upper surface and 70mm from the bottom outside of the tank. TNKD5 is not applicable.

Alterations	Code	Spec.
Low Level Float Switch Installation 	FS	Install a switch to operate as alarm or signal of level of liquids such as water and oil. Switch will be turned on at a position of 41 mm or lower from bottom of the tank. For details of Low Level Float Switches, refer to **P.3455**.

Pressure Tanks

Standard / Fixed Holes & Selectable Type

Pressure Tanks – Standard Type

RoHS10

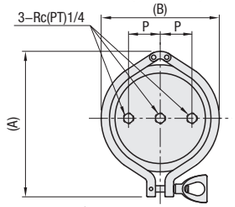
Type		Material				Surface Finish	Normal Operating Pressure
Number of Holes Fixed	Number of Holes Selectable Type	Main Body	Clamp	Lid	O-Ring		
TNKA	TNKAH	304 Stainless Steel			Nitrile Rubber	Buffed (main body only) Inner & Outer Surface: #400 Equivalent Except Weld Bead Portion on I.D.	0.5 Mpa or Lower
TNKAF	TNKAFH				Fluororubber		

Feature of Nitrile Rubber / Fluororubber **P.2567**. Feature of O-Ring: **P.3449, 3529**.

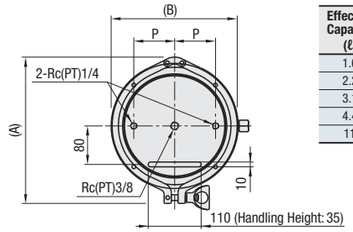
Effective Capacity (ℓ)	Weight (kg)		
	Main Body	Lid	Tank Clamp
1.6	1.96	0.62	0.42
2.2	2.45	0.8	0.75
3.1	3.13	1.42	0.95
4.4	3.77	2.18	1.05
11	11.35	3.45	2.2

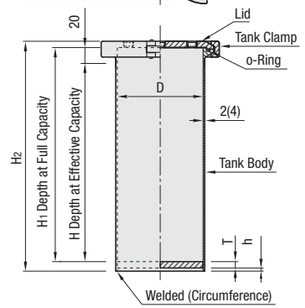
Effective Capacity (ℓ)	Lid & Clamp					
	T_1	(D_1)	(D_2)	P	(A)	(B)
1.6	10	120	103	30	166	133
2.2		135	118	40	184	149
3.1	12	160	143		213	174
4.4		190	166		246	204
11		244	216	85	302	258

Number of Holes Fixed Type: 3 Holes (4.4 or less)

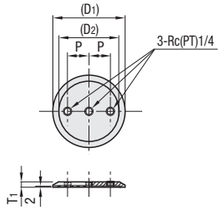


3 Holes (11ℓ)

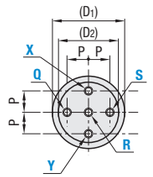




Lid (Number of Holes Fixed)
For 3 Hole



Lid (Number of Holes Selectable Type)
3–5 Holes



Values in ( ) are for effective capacity 11ℓ.
For detailed clamp dimension, refer to **P.3529**.
Please read "Precautions for Use" and "Handling Instruction" on **P.3449** before use.
For no hole type, there is no PT hole.
Tank with capacity 11ℓ comes with carrying handle.
Select Q, R, S for three holes; Q, R, S, X for four holes; Q, R, S, X, Y for five holes.

Part Number		Number of Hole Selection for Fixed Type	For "Number of Holes Selectable Type" Only		At Full Capacity (ℓ)	Inner Diameter D	Effective Capacity Depth H	At Full Capacity Depth H_1	H_2	T	h
Type	Effective Capacity (ℓ)		Number of Holes	* Rc (PT) Q, R, S, X, Y							
Number of Holes Fixed Type TNKA TNKAH (O-Ring: Nitrile Rubber)	1.6	0	3	1 (1/8)	1.7	95.6	230	250	270	8	4
	2.2		4	2 (1/4)	2.4	108.3	250	270	290		
TNKAF TNKAFH (O-Ring: Fluororubber)	3.1			3 (3/8)	3.4	133	230	250	273		5
	4.4	3			4.8	158.4	230	250	275	10	
Number of Holes Selectable Type	11		5		11.8	208.3	330	350	377	12	

To specify *marked Q, R, S, X and Y, use the numbers in front of ( ): 1, 2, 3.
Full capacity level is a theoretical value that is obtained by calculation (base area x depth). Use within the effective depth (up to -20 mm from upper surface).
Reference: Effective Capacity (ℓ)≒ Radius cm (D / 2 / 10) x 3.14 x Depth at Effective Capacity cm (H / 10) / 1000 (At full capacity, H_1 is used as H)

For Number of Holes Selectable Type, choose between Q–Y according to the number of holes. Specify up to S for the 3 holes, up to Y for the 5 holes.

Part Number Example

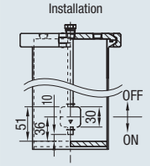
Part Number - No. of Holes - Q - R - S - X - Y

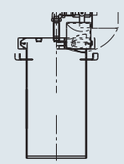
Number of Holes Fixed Type: 3 Holes	TNKA2.2	- 3	-	
Number of Holes Selectable Type: 3 Holes	TNKAH3.1	- 3	- Q2 – R3	- S3
Number of Holes Selectable Type: 5 Holes	TNKAH4.4	- 5	- Q1 – R2	- S3 - X2 - Y2

Part Number Alterations

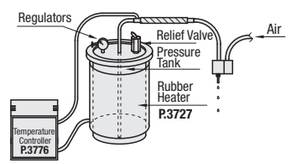
Part Number - No. of Holes Selection - Q - R - S - X - Y - (FS)

TNKA2.2	- 4	- Q2	- R2	- S3	- X3		- FS
TNKAF3.1	- 3						- AN

Alterations	Code	Spec.
Low Level Float Switch Installation 	FS	Install a switch to operate as alarm or signal of level of liquids such as water and oil. Stern tip will be suspended at 10 mm from bottom of Tanks. For details of Low Level Float Switches, refer to **P.3455**.

Alterations	Code	Spec.
Safety Function Type 	AN	Install Safety Cover and Support Angle. For details of features and dimensions, see overview page: **P.3449**. Applicable only to Number of Hole Fixed Type

Application Example



Pump feed a material whose viscosity changes with surrounding temperature, while maintaining the viscosity constant, by controlling the temperature.