

THAD Series



Index	Page No
• Introduction	02
Ordering Code	03
Unit Dimensions	04
Liquid end interface thread(Carbon steel Accumulators)	05
Stainless Steel Accumulators	05
Diaphragm Spare Parts	05



Introduction

Description

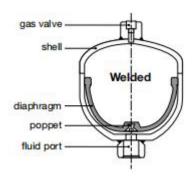
Diaphragm accumulators are a cost effective option for numerous functions involving energy storage, shock absorption or pulsation dampening in a hydraulic or fluid system. They are well suited for applications where smaller fluid volumes and flow rates are adequate and that require or involve:

- Compact design
- Low weight
- Flexible mounting positions
- Extremely quick shock response
- Low cost
- Low lubricity fluids, like water
- Diaphragm Accumulators have been successfully applied in both industrial and mobile applications for energy storage, maintaining pressure, leakage compensation, and vehicle hydraulic systems.

THM manufactures two types of diaphragm accumulators: Carbon steel diaphragm accumulator (Welded) Stainless steel diaphragm accumulator (Welded)

Construction

The welded version has a shell that is electron-beam welded, and therefore cannot be repaired.



Diaphragm Materials

Not all fluids are compatible with every elastomer at all temperatures, therefore, THM offers the following materials:

- NBR (Standard Nitrile)
- HNBR (Low Temperature Nitrile)
- IIR (Butyl)
- FPM (Fluoroelastomer)
- EPDM
- others (available upon request)

Corrosion Protection

For use with certain aggressive or corrosive fluids, or in a corrosive environment, THM offers protective coatings and corrosive resistant materials (i.e. stainless steel) for the parts that interface with the fluid or are exposed to the hostile environment.

Mounting Position

Diaphragm accumulators are designed to mount in any position. In systems where contamination is a problem, we recommend a vertical mount with the fluid port oriented downward

System Mounting

THM diaphragm accumulators are designed to be screwed directly onto the system. We also recommend the use of our mounting components, to minimize the risk of failure due to system vibrations.

Applications

Axle suspension Driver's cabs

Several applications possible, e.g. in:
Machines with hydraulic drives
Presses
Agricultural- and construction machines
Modern industrial robots
Gear Technology
Braking Systems
High-pressure cleaner
Drive hydraulics
Noise minimization
Vibration reduction



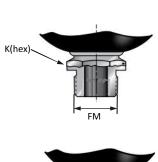
Ordering code

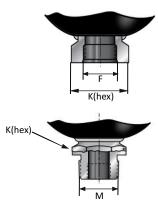
Series: THAD XXX = D	Diaphragm Accumulator (XXX = series designmation			
Size (in Liters,s 0.075 = 0.075L 0.16 = 0.16Lite 0.25 = 0.25Lite 0.32 = 0.32Lite 0.5 = 0.5Liters 0.75 = 0.75Liters 1.0 = 1.0Liters 1.4 = 1.4Liters 2.0 = 2.0Liters 2.8 = 2.8Liters 3.5 = 3.5Liters	ers ers			
Fluid Port Cor Connect Size F M:Metric thread J:American thr G:Inch unseale N:American pip	for Fluid Port d ead d pipe thread	= M = U = G = N		
Connection Typ F:Female threa M:Male thread FM:Female and	d	= F = M = FM		
Material Code Shell And Fluid Carbon steel Stainless steel			= C = S	
Diaphragm Col NBR HNBR IIR EPDM FPM	mpound		= N = H = I = E = F	
Compound	Basic Characteristic			
NBR	Suitable for most hydraulic fluids			
HNBR	Low temperature resistance, wear resistance			
IIR	Special for fire resistant hydraulic fluids			
	Corrosion resistance			
EPDM				

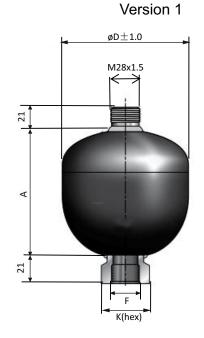


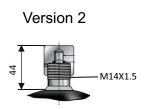
Unit Dimensions

(Dimensions in mm)









Model	Max Working/	Volume	Max Working	Weight	Dia-me ter	Main Height	Commo	m Fluid Con Thread	nection	Max Flow	SW(mm)	
	Charging Pressure	(L)	Pressure (BAR)	(KG)	D(mm)	A(mm)	Metric	British	US	Rate L/min		
THAD210		0.075	210	1.0	66	72			9/16			
THAD250		0.075	250	1.0	66	72			-18	10		
THAD210		0.16	210	1.2	75	80	M14X		UNF	10		
THAD250		0.16	250	1.2	75	80	1.5		UNF			
THAD210		0.25	210	1.8	89	93						
THAD330		0.25	330	1.8	89	93						
THAD210		0.32	210	2.1	95	99						
THAD330		0.32	330	2.1	95	99		O1/0			20	
THAD210	8:1	0.5	210	2.9	101	113.8		G1/2	0/4		32	
THAD330	0.1	0.5	330	2.9	101	113.8			3/4 -16	25		
THAD210		0.75	210	4.2	125	128.5	M18X		UNF	25		
THAD330		0.75	330	4.2	125	128.5	1.5		OIVI			
THAD210		1.0	210	5.4	142	140						
THAD330		1.0	330	5.4	142	140						
THAD210		1.4	210	8.0	157	169						
THAD330		1.4	330	8.0	157	169						
THAD210		2.0	210	10.0	173	193						
THAD330		2.0	330	10.0	173	193						
THAD210		2.5	210	10.6	173	207			1 1/10			
THAD330		2.5	330	10.6	173	207	M22X	G3/4	2X	1 1/16		41
THAD210	4.4	2.8	210	11.2	173	228	1.5		G3/4 -12 UNF	40 4	41	
THAD330	4:1	2.8	330	11.2	173	228			UINF			
THAD210		3.5	210	13.8	173	275.2						
THAD330		3.5	330	13.8	173	275.2						

Dimensions are general information only, all critical dimensions should be verified Dimensions are in millimeter and kilogram



Liquid end interface thread(Carbon steel Accumulators)

	British	G1/4 Male/Female thread	G1/2 Male/Female thread	
	DIIIISII	G3/8 Male/Female thread	G3/4 Female thread	
	US	9/16-18UNF Male/Female thread 3/4-16UNF Male/Female threa		
Common		7/8-14UNF Male/Female thread	1 1/16-12UNF Female thread	Compound Pad
Common	Metric	M14X1.5 Male/Female thread	M18X1.5 Male/Female thread	
	M16X1.5 Male/Female thread		M22X1.5 Male/Female thread	
	Combination	G1/2 Female thread AND M33X1.5 Male	G3/4 Female thread AND M45X1.5 Male thread	
	Combination	thread	G5/4 Female tilleau AND M45/1.5 Male tilleau	
Optional		Metric (M) British (G) American	Unified (UNF) American Pipe (NPT)	O-Ring
Οριιοπαι		Internal and External Double Thread (G+M,M+M,UNF+M)		

Stainless Steel Accumulators

Volume (L)	Max Working Pressure (BAR)	Model Code	Fluid Connection Thread Size	Fluid Port Sealing Way		
0.16	210	THAD210-0.16-G1/2-SH-W				
0.32	210	THAD210-0.32-G1/2-SH-W				
0.5	210	THAD210-0.5-G1/2-SH-W				
0.75	210	THAD210-0.75-G1/2-SH-W	04/0			
0.75	330	THAD330-0.75-G1/2-SH-W	G1/2 Female thread			
1.0	210	THAD210-1.0-G1/2-SH-W	- Terriale tilleau	O-Ring		
1.0	330	THAD330-1.0-G1/2-SH-W				
1.4	210	THAD210-1.4-G1/2-SH-W				
1.4	330	THAD330-1.4-G1/2-SH-W				
0.0	210	THAD210-2.0-G3/4-SH-W				
2.0	330	THAD330-2.0-G3/4-SH-W				
0.5	210	THAD210-2.5-G3/4-SH-W	G3/4			
2.5	330	THAD330-2.5-G3/4-SH-W	Female thread			
0.0	210	THAD210-2.8-G3/4-SH-W				
2.8	330	THAD330-2.8-G3/4-SH-W				

Diaphragm Spare Parts

Part Number	item	Part Number	item
001369	Vent Screw M8, Version 1	014653	Liquid end protective cap
053482	CompoundPad(NBR and Carbon steel),M8	023541	Liquid end CompoundPad/ O-Ring
210430	Plastic Valve Protection Cap, Version 1	254101	Gas valve core (Version 4)
450130	Metal Valve Protection Cap, Version 1	354021	Valve seal cap (Version 4)
001475	O-ring (28x1.9)		





The specified data is for product description purposes only and may not be deemed to be guaranteed unless expressly confirmed in the contract.



THM Huade Hydraulics Pvt Ltd

F-127, Phase-VIII, Focal Point, Ludhiana-141010, Punjab (INDIA) PH: 0161-2672777, 0161-2672778

E-mail: sales@thmhuade.com Website: www.thmhuade.com









