



Diaphragm Accumulators
0.075 - 2.8 Litre
STDA

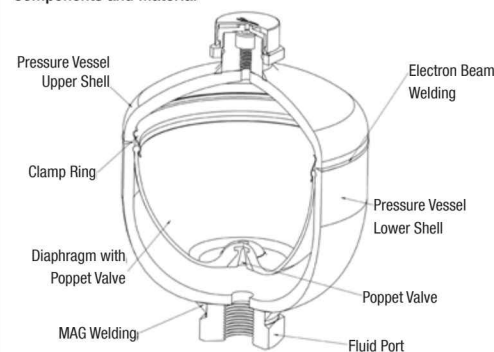
30 - 31



Diaphragm Accumulators Type STDA



Components and Material



Product Description

STAUFF diaphragm accumulators (non-repairable compact type) are used to store low volumes for oil service for 0.075 - 2.8 Litre models, with pressure up to 350 bar. The compact design and construction includes a 1/2" or 3/4" BSPP fluid port connection (depending on accumulator size) as standard, fitted with a resilient diaphragm and the housing made of high tensile steel construction.

Features

- Full flow fluid port
- Standard Nitrile rubber high strength bladder
- High flow button style bladder / port design
- Non-repairable diaphragm accumulator
- Electron beam welded steel shell
- Paint Specification:
UV Lacquer (0.075 - 1.4 Litre)
zinc phosphating spray-type UV-lacquer and UV-hardening
2K-Epoxy Resin Varnish (2 - 2.8 Litre)
iron phosphating spray-paint with 2K-Epoxy resin varnish

Technical Data

- M28x1.5 connection with socket head cap screw (standard)
- NBR (Buna-N®) diaphragm material (standard)
- Maximum compression ratio of
8:1 up to 1.4 Litres
6:1 2 and 2.8 Litres
- Operating temperature -10°C ... +80°C
- Operating pressure to 250 - 350 bar
- Capacity up to 2.8 Litres

Options

Gas Port

- USA Schrader Valve

Oil Port

- BSPP, metric, male / female metric combination

Oil Port Adaptors (for 0.075 -1.4 Litres)

- 1/2 BSPP - M27x2 metric male / male adaptor

Diaphragm Material

- NBR (Buna-N®)
- FKM (Viton®)

Other materials available on request

Applications

- Mobile and stationary hydraulics
- Light industrial
- Transport

Components and Material

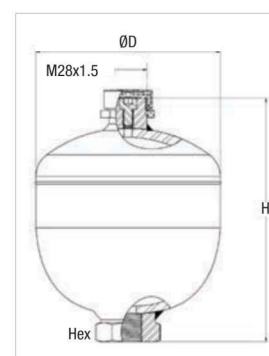
Main Components	Standard Material	Material Options
Shell	High strength alloy steel black enamel coating (non-repairable electron-beam welded construction)	Other materials available on request
Diaphragm	NBR (Buna-N®)	Hydriin (ECO)
		Temperature Rating -32°C ... +115°C
Diaphragm	NBR (Buna-N®)	FKM (Viton®)
		Temperature Rating -20°C ... +140°C
Gas Valve	Connection M28 with M6 socket head cap screw	G1/4" with US style gas core
Fluid Port Shut-Off Valve	Delrin	—

Maximum Flow Rates

Size (Ltr)	Maximum Recommended Flow			
	Normal Operation		Fully Discharging	
	GPM	LPM	GPM	LPM
0.075 & 0.16	11	40	2.6	10
0.32 & 1.40	26	100	11	40
2.00 & 2.80	42	160	16	60



Refer to pages 38 - 39 for accumulator clamps



Refer to page 31 for dimensions



Diaphragm Accumulators Type STDA

STDA - 075 - NBR - P3 - B - M - N - 1

①

②

③

④

⑤

⑥

⑦

⑧

① Type

STAUFF Diaphragm Non Repairable Accumulator **STDA**

② Accumulator Volume

0.075 Ltr	250 bar	007
0.16 Ltr	250 bar	016
0.32 Ltr	210 bar	032
0.5 Ltr	210 bar	050
0.75 Ltr	210 or 350 bar	075
1 Ltr	210 bar	100
1.4 Ltr	210 bar	140
2 Ltr	250 bar	200
2.8 Ltr	250 bar	280

Other pressures available on request

③ Diaphragm Material

NBR (Buna-N®)	NBR
Hydrin for Low Temp ECO	ECO
Fluoroelastomer FKM	FKM

④ Maximum Working Pressure

210 bar	P3
250 bar	P4
350 bar	P5

⑤ Oil Port Connection

Refer to table below

⑥ Gas Port Connection

M28x1.5 (standard)	M
STAUFF US Style Gas Valve (adaptor)	U

⑦ Non-Repairable

Non-Repairable	N
----------------	----------

⑧ Special Option

Standard	1
25 bar Pre-charge	25
50 bar Pre-charge	50

⑤

Connection Type	Volume (Ltr)									Note	Code
	0.075	0.16	0.32	0.5	0.75	1	1.4	2	2.8		
BSPP	G1/2"	G1/2"	G1/2"	G1/2"	G1/2"	G1/2"	G1/2"	G3/4"	G3/4"	* Standard for Australia, Brazil, China and Europe	B
Metric Male					M33x2.0						D
BSPP Female					G1/2"						D
UNF	9/16-18	9/16-18	9/16-18	3/4-16	3/4-16	3/4-16	3/4-16	1-1/6-12	1-1/6-12	** Standard for North America	U

Order Codes and Dimensions

Item No.	Designation	Nominal Capacity (Ltr)	Maximum Working Pressure (bar)	Gas Valve Connection	Fluid Port Connection	Dimensions (mm)			Weight (kg)
						D	H	Maximum Pre-Charge (bar)	
3426001010	STDA-007-NBR-P4-B-M-N-1	0.075	250	M28x1.5	G1/2	64	111	130	0.7
3426001011	STDA-016-NBR-P4-B-M-N-1	0.16	250	M28x1.5	G1/2	75	119	130	1
3426001012	STDA-032-NBR-P3-B-M-N-1	0.32	210	M28x1.5	G1/2	92.5	134	130	1.4
3426001013	STDA-050-NBR-P3-B-M-N-1	0.5	210	M28x1.5	G1/2	107	151	130	2
3426001014	STDA-075-NBR-P3-B-M-N-1	0.75	210	M28x1.5	G1/2	121	166	130	2.6
3426001015	STDA-075-NBR-P5-D-M-N-1	0.75	350	M28x1.5	M33x2.0 (M) / G1/2 (F)	128.5	184	130	4.4
3426001016	STDA-100-NBR-P3-B-M-N-1	1	210	M28x1.5	G1/2	136	180	130	3.5
3426001017	STDA-140-NBR-P3-B-M-N-1	1.4	210	M28x1.5	G1/2	147	191	130	6.6
3426001018	STDA-200-NBR-P4-B-M-N-1	2	250	M28x1.5	G3/4	156	252	130	9.2
3426001019	STDA-280-NBR-P4-B-M-N-1	2.8	250	M28x1.5	G3/4	174	267	125	10

