

MBSP Series

Diaphragm Accumulator



Energy Accumulators/Pulsation Dampers

Electron-beam welded Hydraulic Accumulators

- Large volume and performance range
- 0.07 to 3.5 litres
- Pressure range up to 350 bar (high bursting strength)
- Low maintenance design
- Long service life

Energy accumulation

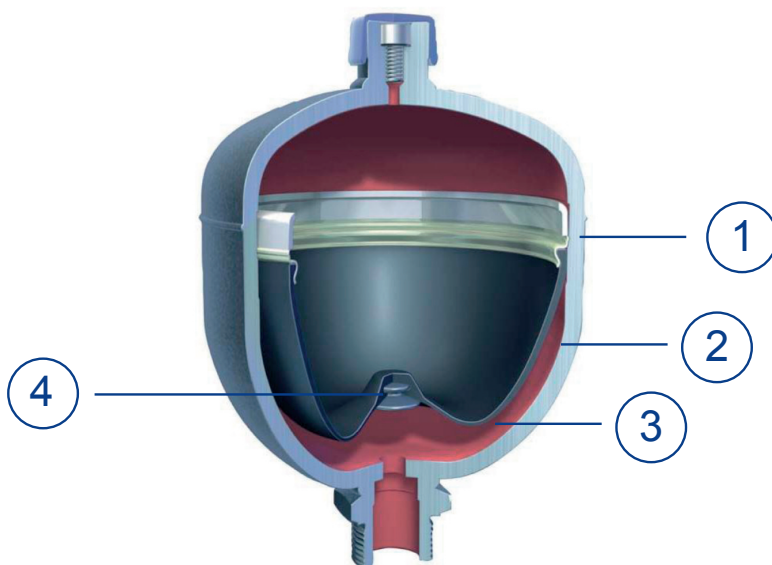
- Controlled energy delivery for hydraulic applications

Application-specific design

- The most varied diaphragm and housing materials available
- Refillable
- Low permeation

Pulsation damping

- Vibration and noise reduction with pressure surges
- Efficiency and extension of service life



1 Metal diaphragm clamping ring

- Secure reproducible clamping force of the diaphragm
- Controlled deformation for locking
- Stable metal ring vs. plastic ring

2 Optimized shape of the shell

- Weight reduction
- Strength integrity
- Wide range of pressure fluctuations

3 Optimized diaphragm shape and material selection

- Improved rolling properties
- Wide temperature range
- Low permeation

4 High durability poppet valve

- Not vulcanized to the diaphragm
- Allows fast motions of diaphragm
- Total discharging of fluid through incorporated discharging channels

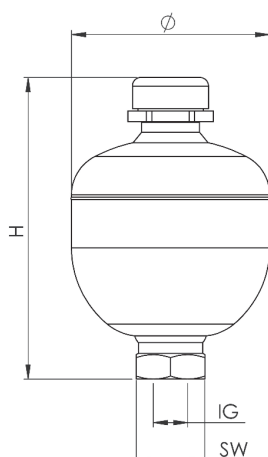
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TECHNICAL DATA

Type	Article No. *	Nominal Volume [l]	Permissible Operating Pressure (bar)	Oil Port			Gas Port	Ø [mm]	Height H [mm]	Weight [kg]	Max Permissible Pressure Ratio
				SW	IG	AG					
MBSP 0,07–250	007-1315-013-6X1	0.07	250	6kt32	G1/2"	–	M28x1.5	64	117	0.7	1:8
MBSP 0,07–250	007-1315-074-6X1	0.07	250	6kt19	–	M14x1.5	M28x1.5	64	107	0.7	1:8
MBSP 0,16–250	016-1315-024-6X1	0.16	250	6kt32	G1/2"	–	M28x1.5	75	126	1.0	1:6
MBSP 0,32–210	032-1315-044-6X1	0.32	210	6kt32	G1/2"	–	M28x1.5	92	141	1.5	1:8
MBSP 0,50–210	050-1315-013-6X1	0.5	210	6kt41	G1/2"	–	M28x1.5	107	159	2.0	1:8
MBSP 0,50–210	050-1315-023-6X1	0.5	210	6kt41	G1/2"	M33x1.5	M28x1.5	107	170	2.0	1:8
MBSP 0,50–330	050-1315-033-7X1	0.5	330	6kt41	G1/2"	–	M28x1.5	110	162	2.7	1:8
MBSP 0,50–330	050-1315-013-7X1	0.5	330	6kt41	G1/2"	M33x1.5	M28x1.5	110	159	2.7	1:8
MBSP 0,60–330	060-1315-013-7X1	0.6	330	6kt41	G1/2"	–	M28x1.5	110	178	3.0	1:4
MBSP 0,60–330	060-1315-023-7X1	0.6	330	6kt41	G1/2"	M33x1.5	M28x1.5	110	171	3.0	1:4
MBSP 0,75–210	075-1315-043-6X1	0.75	210	6kt41	G1/2"	–	M28x1.5	122	176	2.6	1:8
MBSP 0,75–210	075-1315-053-6X1	0.75	210	6kt41	G1/2"	M33x1.5	M28x1.5	122	169	2.6	1:8
MBSP 0,75–250	075-1315-063-6X1	0.75	250	6kt41	G1/2"	–	M28x1.5	124	176	3.2	1:8
MBSP 0,75–250	075-1315-073-6X1	0.75	250	6kt41	G1/2"	M33x1.5	M28x1.5	124	169	3.2	1:8
MBSP 0,75–350	075-1315-012-7X1	0.75	350	6kt41	G1/2"	–	M28x1.5	129	180	4.0	1:8
MBSP 0,75–350	075-1315-022-7X1	0.75	350	6kt41	G1/2"	M33x1.5	M28x1.5	129	173	4.0	1:8
MBSP 1,0–210	100-1315-083-6X1	1.0	210	6kt41	G1/2"	–	M28x1.5	136	188	3.7	1:8
MBSP 1,0–210	100-1315-063-6X1	1.0	210	6kt41	G1/2"	M33x1.5	M28x1.5	136	181	3.7	1:8
MBSP 1,0–350	100-1315-043-7X1	1.0	350	6kt41	G1/2"	–	M28x1.5	129	206	5.0	1:4
MBSP 1,0–350	100-1315-053-7X1	1.0	350	6kt41	G1/2"	M33x1.5	M28x1.5	129	199	5.0	1:4
MBSP 1,4–140	140-1315-033-5X1	1.4	140	6kt41	G1/2"	–	M28x1.5	147	191	4.5	1:8
MBSP 1,4–140	140-1315-043-5X1	1.4	140	6kt41	G1/2"	M33x1.5	M28x1.5	147	202	4.5	1:8
MBSP 1,4–210	140-1315-143-6X1	1.4	210	6kt41	G1/2"	–	M28x1.5	147	191	4.5	1:8
MBSP 1,4–210	140-1315-153-6X1	1.4	210	6kt41	G1/2"	M33x1.5	M28x1.5	147	202	4.5	1:8
MBSP 1,4–250	140-1315-112-6X1	1.4	250	6kt41	G1/2"	–	M28x1.5	152	202	5.5	1:8
MBSP 1,4–250	140-1315-122-6X1	1.4	250	6kt41	G1/2"	M33x1.5	M28x1.5	152	195	5.5	1:8
MBSP 1,4–350	140-1315-012-7X1	1.4	350	6kt41	G1/2"	–	M28x1.5	156	201	7.0	1:8
MBSP 1,4–350	140-1315-022-7X1	1.4	350	6kt41	G1/2"	M33x1.5	M28x1.5	156	194	7.0	1:8
MBSP 2,0–250	200-1315-142-6X1	2.0	250	6kt41	G3/4"	–	M28x1.5	156	255	9.5	1:6
MBSP 2,0–350	200-1315-042-7X1	2.0	350	6kt41	G3/4"	–	M28x1.5	156	255	9.5	1:6
MBSP 2,8–250	280-1315-012-6X1	2.8	250	6kt41	G3/4"	–	M28x1.5	174	270	11.0	1:6
MBSP 3,5–250	350-1315-013-6X1	3.5	250	6kt41	G3/4"	–	M28x1.5	174	309	13.0	1:4



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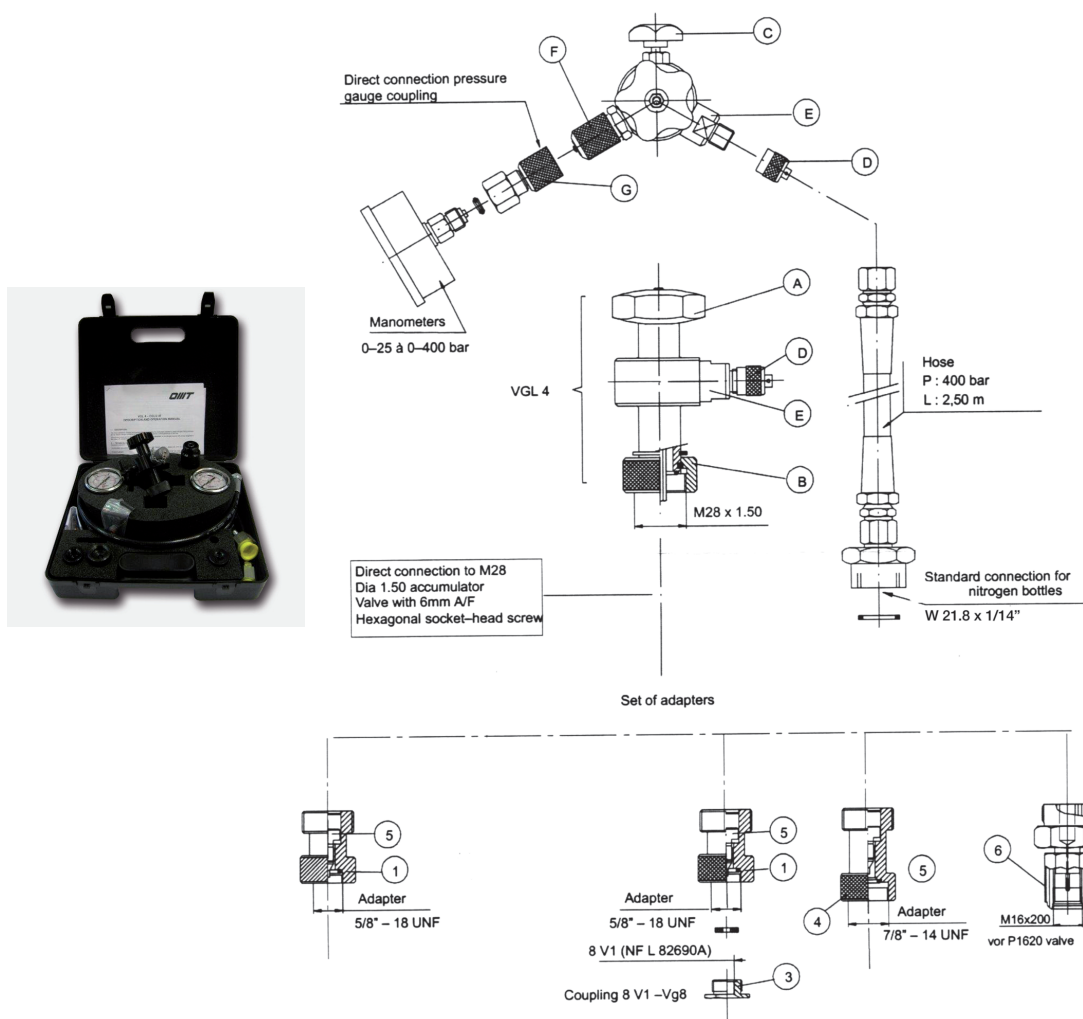
Diaphragm Accumulator



Accumulator Standard Product Range

Volume litre	Maximum Working Pressure								
	100	140	140	210	250	300	330	350	500
0,075					X				X
0,16					X				
0,32				X	X	X			
0,5			X	X	X		X		
0,6							X		
0,75				X	X			X	
1				X	X			X	
1,4		X		X	X			X	
2	X				X			X	
2,8					X			X	
3,5					X			X	

Precharging Nitrogen Kit



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Applications

