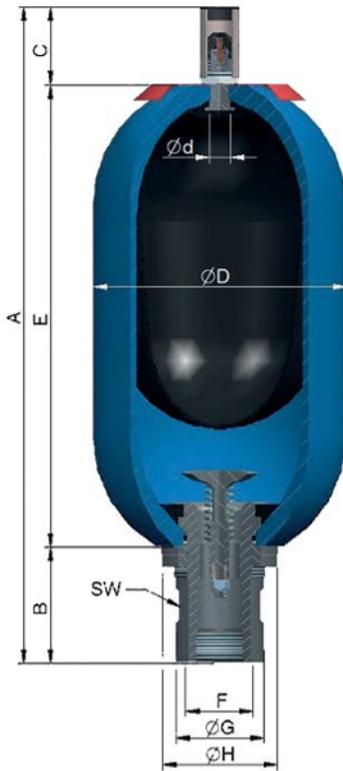


# BLADDER ACCUMULATOR HBS

## HBS ASME/CE



Version with two different approvals. For one, according to the Pressure Equipment Directive with CE marking and for another, according to ASME. Please observe the corresponding permissible operating pressures.

### TECHNICAL DATA

**VOLUME**  
10–57 litres

**COATING**  
Primed, RAL 5015

**MAX. PERMISSIBLE PRESSURE (PS)**  
420 bar with CE marking  
PED 2014/68/EU according to EN 14359

**MATERIALS**  
Body and connections: Carbon steel  
Bladder: NBR

4100 psi (280 bar) according to  
ASME VIII Div. I App. 22

**GAS VALVE**  
7/8" - 14 UNF

**PERMISSIBLE TEMPERATURES (TS)**  
-20°C to +80°C

**CONNECTIONS**  
BSP EN ISO 228, see table

**APPROVAL**  
DGRL 2014/68/EU  
Design EN 14359  
ASME VIII Div. I App. 22

DESIGNATION	GAS VOLUME [l]	WEIGHT [KG]	Q MAX. [l/MIN]	DIMENSIONS										P <sub>0</sub> :P <sub>2</sub> *
				A	B	C	ØD	Ød	E	F	ØG	ØH	SW1	
HBS 10-4100	9.2	38	900	570	101	68	226	22	401	G 2"	76	101	70	1:4
HBS 12-4100	11	41	900	670	101	68	226	22	501	G 2"	76	101	70	1:4
HBS 20-4100	18.1	60	900	880	101	68	226	22	711	G 2"	76	101	70	1:4
HBS 24-4100	22.5	68	900	1015	101	68	226	22	846	G 2"	76	101	70	1:4
HBS 32-4100	33.4	93	900	1400	101	68	226	22	1231	G 2"	76	101	70	1:4
HBS 50-4100	48.7	125	900	1915	101	68	226	22	1746	G 2"	76	101	70	1:4
HBS 57-4100	53	132	900	2010	101	68	226	22	1841	G 2"	76	101	70	1:4

\* Max. permissible pressure ratio.  
Manufacturing tolerances are not taken into account. Subject to modifications.



# BLADDER ACCUMULATOR HBS

## TYPE CODE

BLADDER ACCUMULATOR HBS		HBS 50 - 330 / 90 E 330 A A 25 A A D 000 X
<b>Nominal size</b>		
1 / 2.5 / 4.0 / 5.0 / 6.0 / 10 / 12 / 20 / 24 / 32 / 50 / 57		
<b>Max. operating pressure</b>		
E.g.: 330 or 350		
<b>Approval identification</b>		
ATEX	96	
CE + ASME	94	
CE	90	
CE + SELO	88	
DNV	73	
TRCU	71	
Further country approvals on request	XX	
<b>Calculation standard</b>		
EN 14359 (standard)	E	
AD 2000 (on request)	D	
ASME	A	
EN 14359 + ASME	U	
<b>Permissible approval operating pressure [bar]</b>		
<b>Accumulator body material</b>		
Carbon steel	A	
Carbon steel, plastic coating inside & outside	B	
Carbon steel, chemically nickel-plated inside & outside	C	
Stainless steel	R	
<b>Fluid connection material</b>		
Carbon steel	A	
Stainless steel	R	
<b>Bladder material</b>		
NBR (standard)	25	
ECO (hydrin)	02	
TT-NBR	10	
IIR (butyl)	40	
EPDM	47	
FKM (viton)	80	
<b>Gas connection material</b>		
Carbon steel	A	
Special connection, details in article description	Z	
<b>Size of gas connection*</b>		
7/8" - 14 UNF	A	
5/8" - 18 UNF	B	
Other designs, details in article description	Z	
<b>Size of oil connection</b>		
IG 3/4"	B	
IG 1 1/4"	C	
IG 2"	D	
M50 x 1.5	G	
Flange connection, details in article description	H	
High flow oil valve	I	
SAE 2" 3000 PSI	J	
SAE 1 1/2" 3000 PSI	K	
SAE 1 1/2" 6000 PSI	L	
Special connection, details in article description	Z	
<b>Nitrogen precharging</b>		
Standard 000 = transport precharge		
<b>Special design (details depending on order)</b>		
ATEX	X	
Details in article description e.g. paintwork RAL 5003	Z	