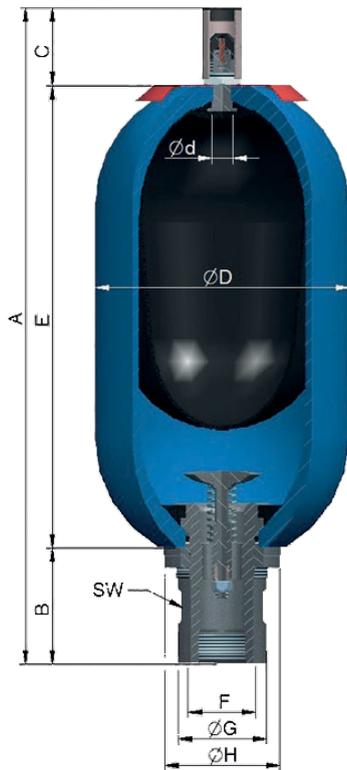


# BLADDER ACCUMULATOR HBS

## HBS STANDARD SERIES 330–350 BAR



The bladder accumulators in the HBS standard series are interchangeable with all renowned manufacturers in terms of dimensions and function.

### TECHNICAL DATA

**VOLUME**  
1–57 litres

**MAX. PERMISSIBLE PRESSURE (PS)**  
330/350 bar

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

**COATING**  
Primed, RAL 5015

### MATERIALS

Body and connections: Carbon steel  
Bladder: NBR

### GAS VALVE

7/8" - 14 UNF

### CONNECTIONS

BSP EN ISO 228, see table

### APPROVAL

DGRL 2014/68/EU, Design EN 14359, CE marking:  
applicable within the validity and acceptance range of PED  
Eurasian Economic Area: Applicable with EAC declaration (TR-CU 032)  
China: Applicable with additional documentation according to directives of the Chinese AQSIQ authority  
Corresponding certificates can be supplied.

Other designs and approvals on request

DESIGNATION	GAS VOLUME [l]	MAX. OPERATING PRESSURE [BAR]	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 1-350/...	1	350	5	240	330	54	68	114	22	208	G 3/4"	36	50	32	1:4
HBS 2,5-350/...	2.4	350	10	450	549	66	68	114	22	415	G 1 1/4"	36	50	50	1:4
HBS 4-350/...	3.7	350	16	450	436	66	68	168	22	302	G 1 1/4"	53	68	50	1:4
HBS 5-350/...	5	350	17	450	898	66	68	114	22	764	G 1 1/4"	36	50	50	1:4
HBS 6-350/...	6	350	20	450	562	66	68	168	22	428	G 1 1/4"	53	68	50	1:4
HBS 10-350/... L	10	350	28	450	826	66	68	168	22	692	G 1 1/4"	53	68	50	1:4
HBS 10-330/... K	9.2	330	32	900	586	101	68	221	22	417	G 2"	76	101	70	1:4
HBS 12-330/...	11	330	35	900	686	101	68	221	22	517	G 2"	76	101	70	1:4
HBS 20-330/...	18	330	53	900	896	101	68	221	22	727	G 2"	76	101	70	1:4
HBS 24-330/...	23	330	61	900	1031	101	68	221	22	862	G 2"	76	101	70	1:4
HBS 32-330/...	33	330	85	900	1419	101	68	221	22	1250	G 2"	76	101	70	1:4
HBS 50-330/...	48.7	330	123	900	1927	101	68	221	22	1758	G 2"	76	101	70	1:4
HBS 57-330/...	53	330	129	900	2012	101	68	221	22	1843	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	