3.1.1 TECHNICAL DATA

MAX OPERATING PRESSURE (PS): 360 bar

PRESSURE TEST (PT): 1.43 x PS

NOMINAL CAPACITIES: 0.2 - 0.7 - 1 - 1.5 - 3 - 5 - 10 - 15 - 20 - 25 - 35 - 55 litres

WORKING TEMPERATURE: -40 ÷ +150 °C

COMPRESSION RATIO (Po: P2): max. 1:4

FLUID VISCOSITY RANGE: 10 ÷ 400 cSt

RECOMMENDED VISCOSITY: 36 cSt

FLUID CONTAMINATION DEGREE:

class 21/19/16 according to ISO 4406/99

BODY MATERIAL:

- carbon steel shell painted with rust inhibitor RAL 8012
- nickel coating 25 40 µ
- stainless steel AISI 316L
- internal and external coating with RILSAN th. 0.6 mm

VALVES MATERIAL:

- phosphated or galvanized carbon steel in compliance with
- Directive 2002/95/EC (RoHS) to resist to corrosion
- stainless steel AISI 316L
- nickel coating 25-40 µ

BLADDER MATERIAL:

- P = Nitrile rubber (NBR)
- F = Low temp. nitrile rubber
- H = Nitrile for hydrocarbons
- K = Hydrogenated nitrile (HNBR)
- B = Butyl (IIR)
- E = Ethylene-propylene (EPDM)
- N = Chloroprene (Neoprene)
- Y = Epichlorohydrin (ECO)
- V = Fluorocarbon (FPM)

See Table 3.1c and/or Chapter 1.5

FILLING VALVE CONNECTION:

- 5/8"-UNF std
- 7/8" UNF
- ¼" BSP

FLUID PORT CONNECTION: see 3.1dc - 3.1df -3.1eb - 3.1ec - 3.1fb - 3.1fd

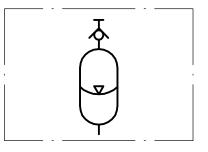
FLOW RATE: see Table 3.1db

WEIGHT: see Table 3.1db - 3.1df



3.1a

3.1.2 HYDRAULIC SYMBOL

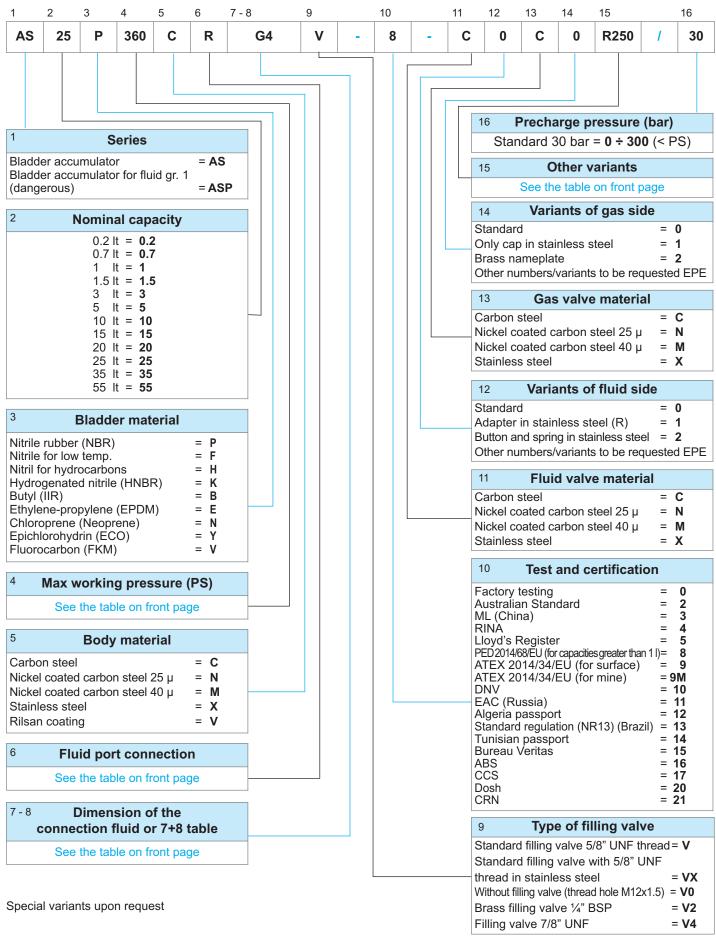


3.1b

3.1 E BLADDER ACCUMULATORS type AS and ASP



3.1.8 ORDER CODE



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⁴ Max working pressure (PS)										
Capacity litres	Carbon steel	Stainless steel								
0,2 ÷ 3	360 (100 only for ASP type)	150 - 210								
5 ÷ 55	360 (100 only for ASP type: 210 only for the version with connection L or other pressure related to connections B or U)	30 - 40 - 60 80 - 150 - 210								
1 ÷ 55	343 (for Certification RINA [4])	-								

6			
For AS0.7÷55	BSP ISO 228		
	with chamfer for OR (std)	=	Α
For AS0.2	BSP ISO 228 (std)	=	G
For AS3÷55	Metric	=	Μ
For AS0.7÷55	NPT-F	=	Ρ
For AS3÷55	internal thread SAE	=	S
For AS3÷55	adapter for flange SAE 3000 Psi	=	L
For AS3÷55	adapter for flange SAE 6000 Psi	=	н
For AS0.7÷55	flange ANSI	=	В
For AS0.7÷55	flange UNI - DIN	=	U
For AS0.7÷55	square flange	=	Q
For AS0.7÷55	adapter *	=	R
* assembled on the	e fluid valve connection type A		

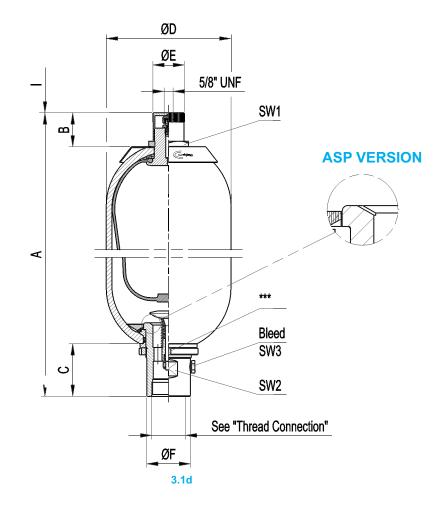
7	Dimension of the fluid conne	ection	15 Other variants Adapter + rupture disc set at xxx bar = Rxxx								
A G M P S L H B F ^O U F ^O U	rmer. 1" ANSI 1500 = 1/1500 (Pmax =	N/PN	Adapter + Tupture disc set at xxx bar $= \mathbf{K}\mathbf{X}\mathbf{X}$ (see Section 8.2) Adapter with connection for pressure gauge + rupture disk = $\mathbf{R}\mathbf{X}\mathbf{X}\mathbf{M}$ Adapter + Safety valve type VS224X set at xxx bar $= \mathbf{V}\mathbf{X}\mathbf{X}$ Adapter + Needle Valve of $\frac{1}{4}$ " BSP $= \mathbf{E}\mathbf{G}2$ Adapter + Stainless steel needle Valve of $\frac{1}{4}$ BSP $= \mathbf{E}\mathbf{G}2$ Adapter + excluding device with with full scale pressure gauge of xxx bar $= \mathbf{E}\mathbf{M}\mathbf{X}\mathbf{X}$ Adapter + excluding device of 90° with full scale pressure gauge of xxx bar $= \mathbf{E}\mathbf{L}\mathbf{M}\mathbf{X}\mathbf{X}$ Adapter + safety valve VS11 $= \mathbf{T}11$ Adapter + safety valve VS16 $= \mathbf{T}16$ Adapter + shut off 2-way valve $= \mathbf{S}2$ Adapter + shut off 3-way valve $= \mathbf{S}3$ Flushing with degree of contamination $\leq \dots$ class $= \mathbf{F}\mathbf{x}$ 75-80 μ thick polyurethane paint with colour to be specified $= \mathbf{W}\mathbf{X}\mathbf{X}$ Off-shore paint with colour to be specified $= \mathbf{X}1$ NORSOK System 1 paint with colour to be specified $= \mathbf{K}1$ NORSOK System 7B paint with colour to be specified $= \mathbf{K}\mathbf{7B}$ other variants upon request								
	(0.7÷55 I) Blind (0.7÷55 I) internal thread BSP ISO 228 NPT-F BSPT SAE	= 0 = G* = P* = N*	8 Dimension $1/8^{"}$ = 1 $4/4^{"}$ = 5 $1/4^{"}$ = 2 1" = 6 $3/8^{"}$ = 3 1" $1/4"$ = 7 $1/2^{"}$ = 4 1" $1/2"$ = 8 Dimension in inch - No.of pitch for inch 1 1 1 1 1								
Varia	Metric Metric	= M	Diameter/pitch								

Special variants on request

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3.1.9 DIMENSIONS



Acc. type AS-ASP in carbon steel	Nominal gas volume litres	Effective gas volume litres	Working pressure <i>bar</i>	Ped cat. fluids of group 2 AS	Ped cat. fluids of group 1 ASP	Max.diff. pressure P2-P1 <i>bar</i>	Flow rate <i>I/min</i>	Max.comp. ratio P0/P2	A mm	B mm	C mm	ØD mm	ØE mm	ØF mm	l mm	SW 1 mm	SW 2 mm	SW 3 mm	Bleed	Acc. dry weight kg
AS/ASP 0,2	0,2	0,2	360	Art.3 (3)		100	160	1:4	252 ± 2	23	40	53	20	26	140	24	23	4*	M5	1,7
AS/ASP 0,7	0,7	0,65	360	Art.3 (3)	III	100	300	1:4	280 ±1,5	47	52	90	25	36	140	32	32	4*	M5	4,2
AS/ASP 1	1	1	360	Art.3 (3)		100	300	1:4	296 ± 5	47	52	114	25	36	140	32	32	4*	M5	5,2
AS/ASP 1,5	1,5	1,5	360	I	III	100	300	1:4	355 ±5	47	52	114	25	36	140	32	32	4*	M5	6,3
AS/ASP 3	3	2,95	360		IV	100	600	1:4	554 ± 8	47	65	114	25	53	140	32	50	4*	M5	11
AS/ASP 5	5	5	360		IV	100	600	1:4	458 ± 10	47	65	168	25	53	140	32	50	4*	M5	15
AS/ASP 10	10	9,1	360	IV	IV	100	1000	1:4	569 ± 10	60	93	220	60	77	140	70	70	19**	1/4" BSP	33
AS/ASP 15	15	14,5	360	IV	IV	100	1000	1:4	719 ± 10	60	93	220	60	77	140	70	70	19**	1/4" BSP	43
AS/ASP 20	20	18,2	360	IV	IV	100	1000	1:4	879 ± 10	60	93	220	60	77	140	70	70	19**	1/4" BSP	48
AS/ASP 25	25	23,5	360	IV	IV	100	1000	1:4	1044 ±15	60	93	220	60	77	140	70	70	19**	1/4" BSP	59
AS/ASP 35	35	33,5	360	IV	IV	100	1000	1:4	1393 ±15	60	93	220	60	77	140	70	70	19**	1/4" BSP	78
AS/ASP 55	55	50	360	IV	IV	100	1000	1:4	1904 ±15	60	93	220	60	77	140	70	70	19**	1/4" BSP	108
* Allen wren	ch		** Ex. wr	ench		*** see ch	apter 3.	.1.12.2 tab	le 3.1ab											3.1db

* The maximum differential pressure is the maximum allowable difference between the maximum pressure and the minimum working pressure (P2-P1) to have an infinite life cycle of the accumulator (greater than 2,000,000 cycles). ** Flow rate measured using mineral oil with viscosity of 36 cSt at 50°C and ΔP = 5 bar