

SPEICHER ACCUMULATORS



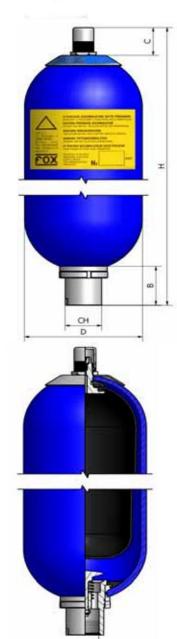












INTERNATIONAL SERIES BOTTOM REPARAIBLE

Technical Features:

Maximum working pressure (PS): 350/330 bar

Test Pressure (PT): PS x 1.43 bar **Body:** forged steel, sand and painted

Working temperature (TS): from - 20°C to + 80°C Standard bladder: can be used whit mineral oils and non

corrosive fluids

Installation position: vertical position (nitrogen valve upward)

Compression ratio:

- recommended: P2/P0 = 2.5- maximum: P2/P0 = 4

Mechanical life: the number of cycles is inversely proportional to the

increase of the compression ratio

Warranty: see dedicated page
Spare parts: see dedicated page

Special execution:

- inside and outside epoxy painted body

- inside and outside nickel, zinc, Teflon plated body

- bladders for working temperatures from -50 °C to +130 °C

According to:

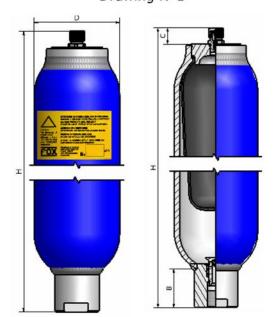
97/23/CE - PED 94/9/CE - ATEX Group II Cat 2

Туре	Max Pressure	Nitrogen Volume	Max Preload	Н	D	С	В	СН	Hydraulic Connection	Max Flow	Weight
	Bar	Litre	Bar	Mm	mm	mm	mm	mm		Litre/min	Kg
HB2.5	350	2.5	230	495	114	25	60	50	1"¼ BSP	220	12
HB4.5	350	4	230	410	168	47	60	50	1"¼ BSP	400	16
HB6	350	6	230	505	168	47	60	50	1"¼ BSP	350	19.5
HB10	350	10	230	775	168	47	60	50	1"¼ BSP	300	36
HB20	330	18.5	230	870	223	60	100	70	2" BSP	600	53
HB25	330	24.9	230	1030	223	60	100	70	2"BSP	570	62
HB35	330	33.5	230	1400	223	60	100	70	2" BSP	540	84
HB50	330	49	230	1900	223	60	100	70	2" BSP	500	115





Drawing N°1



Drawing N°2

TOP REPARAIBLE

Technical Features:

Maximum working pressure (PS): 250/210 /150 bar

Test pressure (PT): PS **x** 1,43 bar **Body:** made in painted carbon steel

Working temperature (TS): from - 20°C to + 80°C Standard bladder: can be used with mineral oils and

non corrosive fluids

Installation position: from vertical (nitrogen valve upward) to

horizontal position

Compression Ration:

- recommended: P2/P0 = 2.5- maximum : P2/P0 = 4

Mechanical life: the number of cycles is proportional to the

increase compression ratio

Warranty: see dedicated page
Spare parts: see dedicated page

Available:

- HTR .. T inside and outside zinc-plated body
- inside and outside epoxy painted body
- inside an outside nickel-plated body
- special bladder: FPM EPDM Hytrel Alcryn ecc...
- bladders for working temperatures till 150 °C
- HTR .. LT series for utilization oil temperature to 40°C
- hydraulic connection ½"BSP for the models marked with (*)

According to:

97/23/CE - PED 94/9/CE - ATEX II 2 G



Туре	Max Pressure	Nitrogen Volume	Max Preload	Н	D	С	В	Hydraulic Connection	Max Flow	Weight	Draw
	Bar	Litri	Bar	mm	mm	mm	mm		Lt./min	Kg	
HTR0.3	250	0.3	150	185	72	15	20	M 18X1.5 *	40	2	1
HTR0.35	250	0.35	150	155	93	15	20	M 18X1.5 *	45	2.5	1
HTR0.7	250	0.75	150	220	92	15	20	M 18X1.5 *	40	3.7	1
HTR1.5	250	1.5	150	280	115	15	25	M 18X1.5 *	40	5.3	1
HTR2.5	250	2.5	150	483	115	15	50	¾" BSP	110	11.5	2
HTR4.5	210	4.5	150	395	170	15	80	1"1/4 BSP	400	15	2
HTR6.5	210	6.5	150	520	170	20	60	1"1/4 BSP	350	24	2
HTR10	210	10	150	760	170	15	80	1"1/4 BSP	300	31	2
HTR20	150	19.5	100	845	220	15	110	2" BSP	600	59	2
HTR35	150	35	100	1500	220	15	110	2" BSP	540	90	2
HTR50	150	50	100	1990	220	15	110	2" BSP	500	121	2



DIAPHRAGM TYPE HYDROPNEUMATIC ACCUMULATORS HST/300 SERIES

Drawing 1

Drawing 2

Technical Features:

Maximum working pressure (PS): 300 bar

Test pressure (PT): PS*1.43 bar

Maximum precharge admissible: 210 bar

Body: made in painted carbon steel **Standard nitrogen valve:** 5/8" UNF

Constructive methodology: two different parts united whit a special

threading that under condition of dynamic pressure tends to self-block

Working temperature for standard execution:

from - 20°C to + 90°C

Standard diaphragm: can be used with mineral oils and

non corrosive fluids

Installation: in every position

Compression ratio:

- recommended: P2/P0 = 2.5- maximum : P2/P0 = 6

Mechanical life: the number of cycles is inversely proportional to the

increase compression ratio

Warranty: see dedicated page
Spare parts: see dedicated page

Available:

- HST .. T inside and outside zinc-plated body

- **HST..LT** with diaphragm suitable for working temperatures

to -40 °C

- HST .. M: rechargeable with nitrogen valve M28x1.5

- HST .. V: not rechargeable with a fixed nitrogen preload in

the factory

- HST .. S: separator of fluid execution

According to:

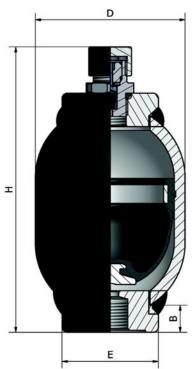
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CE A II 2 G/D

Туре	Max Pressure	Nitrogen Volume	Max Preload	Н	D	В	С	Hydraulic Connection	Max Flow	Weight	Draw.N°
	Bar	Litre	Bar	mm	mm	mm	mm	1 17 11.54 6 18 1 1 1 1 1 1	Litre/min	Kg	6
HST 0.04	300	0.04	210	100	60	35	11	3/8" BSP	35	0.7	2
HST 0.1	300	0.12	210	141	80	94	22	M 18X1.5	45	2.1	1
HST 0.35	300	0.35	210	152	101	100	22	M 18X1.5	50	3.2	1
HST 0.5	300	0.5	210	175	124	120	22	M 18X1.5	60	5	1
HST 0.7	300	0.7	210	218	100	80	22	M 18X1.5	55	5.5	1
HST 0.8	300	0.8	210	185	138	85	22	M 18X1.5	60	5.8	2
HST 1.3	300	1.3	210	232	120	180	22	M 18X1.5	55	7.9	1
HST 1.5	300	1.5	210	270	138	160	22	M 18X1.5	55	8.7	2
HST 2.3	300	2.3	210	340	138	165	22	M 18X1.5	55	10.5	2







PATENTED EXECUTION

Technical Features:

Maximum working pressure (PS): 250 bar

Test pressure (PT): PS x 1.43 bar

Maximum preload: 160 bar Body: in cold formed steel

Constructive methodology: end parts welded in protected argon

atmosphere

Working temperature for standard execution: from - 20°C to + 80°C Standard diaphragm: non replaceable can be used with mineral oils

and non corrosive fluids

Installation: in any position

Compression ratio:

- recommended: P2/P0 = 2.5 - maximum: P2/P0 = 4

Mechanical life: the number of cycles is inversely proportional to the

increase of the compression ratio

Warranty: see dedicated page
Spare parts: see dedicated page

Also available:

- H.. LT series for working temperature till - 40°C

- diaphragm for working with aggressive fluids

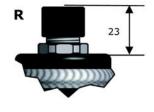
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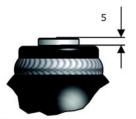
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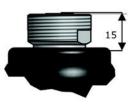
Nitrogen connection parts:

R = rechargeable %"UNF V = non rechargeable

M = rechargeable M28x1,5



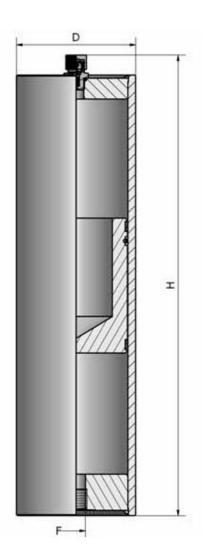




Dimensions with valve R type

Туре	P. Max	Nitrogen Volume	Max Preload	Н	D	Е	С	В	Hydraulic Connection	Max Flow	Weight
	Bar	Litres	Bar	mm	mm	mm	mm	mm		Litre/min	Kg
H100R	250	0.15	160	142	70	45	23	15	M 18X1.5	40	1.2
H350R	250	0.35	160	205	70	35	23	15	M 18X1.5	35	1.7
H500R	250	0.45	160	167	92	55	23	17	M 18X1.5	50	1.9
H700R	250	0.7	160	220	92	40	23	17	M 18X1.5	40	2.7
H1000R	250	1	160	200	115	60	23	19	M 18X1.5	50	3.5
H1400R	250	1.4	160	270	115	60	23	19	M 18X1.5	40	4.9
H2000R	250	2	160	350	115	60	23	19	M 18X1.5	40	5.8
H4000R	210	3.8	135	320	170	95	23	15	¾"BSP	80	14





Technical Features:

Maximum working pressure (PS): 250 (bar)

Test pressure (PT): PS x 1,43 (bar)

Working temperature (T): from -20°C to +80°C

Type: "piston type accumulator , not repairable "

Construction method: plated carbon steel body with welded end-parts and

a sliding internal piston (in according whit European

Directive 97/23/CE PED).

Separation piston made in aluminium alloy.

Seals:

- standard execution : NBR

- made on request : Poliuretane - FKM - PTFE

Installation position: in any position.

Spare parts: "R" valve (for nitrogen preload)

Warranty: see dedicated page

According to: 97/23/CE - PED 94/9/CE - ATEX

Notes :

The model list illustrates the mainly requested execution. Are available execution and capacity on request.

Туре	Max pressure	Nitrogen volume	Max preload pressure	Н	D	Hydraulic connection	Max flow	Weight
	bar	Litri	bar	mm	mm	F	Lt/minuto	Kg
HP0,35	250	0,35	150	277	70	1/2" BSP	80	3,2
HP0,7	250	0,7	150	387	70	½" BSP	80	6
HP1	250	1	150	487	115	¾"BSP	150	8.7
HP2	250	2	150	427	115	¾"BSP	150	11,3
HP4	250	4	150	682	115	¾"BSP	150	16,7
HP6	250	6	150	942	115	¾"BSP	150	23



DIAPHRAGM TYPE PULSATION DAMPENERS HSTX/150-210 SERIES



Drawing N°1

Drawing N°2

Technical Features:

Maximum working pressure (PS): 150 / 210 bar

Test pressure (PT) : PS*1.43 bar

Body: in AISI 316L stainless steel

Constructive methodology: two or three different parts united whit a

special threading that under condition of dynamic pressure tends to self-block

Diaphragm: different types in relation to the used fluid:

-Perbunan (NBR)

-Butile

-Nitrile (NBR)

-Poliuretano

-EPDM

-Viton

Installation position: in every position

Compression ratio:

- recommended: P2/P0 = 2.5- maximum : P2/P0 = 4

Mechanical life: the number of cycles is inversely proportional to the

increase of the compression ratio.

For pulsation dampener applications, the nitrogen value must be from 60% to 80% of the working pressure also in relation with the working

temperature.

Warranty: see dedicated page

Spare parts: see dedicated page

Also available:

- execution for working pressure further 500 bar

According to:

97/23/CE - PED 94/9/CE - ATEX

CE®

II 2 G/D

Туре	Max Pressure	Nitrogen Volume	Max Preload	Н	D	С	В	Hydraulic Connection	Weight	Draw.
	bar	litre	bar	mm	mm	mm	mm		Kg	N°
HSTX 0.04	210	0.04	150	100	60	11	35	3/8" BSP	0.7	2
HSTX 0.1	150/210	0.12	105/150	138	80	23	-	1/2"BSP	2.2	1
HSTX 0.35	150/210	0.35	105/150	152	100	23	-	1/2"BSP	3.7	1
HSTX 0.7	150/210	0.7	105/150	215	100	23	-	¾"BSP	5	1
HSTX 0.8	150/210	0.8	105/150	180	138	23	77	¾"BSP	6.1	2
HSTX 1.5	150/210	1.5	105/150	270	138	23	170	1"BSP	8.7	2
HSTX 2.3	150/210	2.3	105/150	360	138	23	170	1"BSP	10.5	2
HSTX 4.5	150/210	4.5	105/150	370	180	18	-	1"BSP	24	1
HSTX 10	150/210	10	105/150	740	180	18	-	1"1/4 BSP	45	1

Fer Hydraulik

BLADDER PULSATION DAMPENERS HTRX SERIES



Hydropneumatic bladder accumulator with stainless steel body AISI316L in welded execution. The HTRX series is suitable for the use with water and with the aggressive fluids used on the alimentary, chemical, pharmaceutical and petrochemical sectors.

Technical Features:

Maximum working pressure (PS): 30 / 150 bar

Test pressure (PT): > 1.43 x PS Body: in AISI 316L stainless steel

Constructive methodology: two (draw.1) or three (draw.2) different parts

welded together

Bladder: different type in relation to the used fluid:

-Perbunan (NBR) -Butile -Nitrile (NBR)

-Poliuretane -EPDM -Viton -Hytrel

Installation position: from vertical position (nitrogen valve upward) to horizontal

Compression ratio:

- recommended : P2/P0 = 2.5- maximum : P2/P0 = 4

Mechanical life: the number of cycles is inversely proportional to the increase

of the compression ratio.

For pulsation dampner applications, the nitrogen value must be from 60% to 80% of the working pressure also in relation with

the pump's type and the working temperature

Warranty: see dedicated page
Spare parts: see dedicated page

According to:

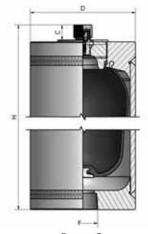
97/23/CE - PED 94/9/CE - ATEX ASME VIII° div.1

II 2 G/D





Draw. 1

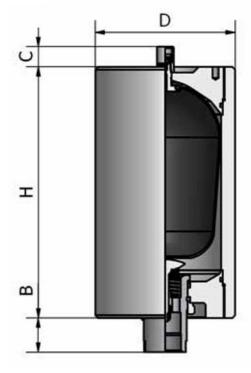


Draw. 2

Туре	Max Pressure	Test Pressure	Nitrogen Volume	Max Preload	Н	D	С	Hydraulic Connection	Weight	Draw.
	Bar	Bar	Litre	Bar	mm	mm	mm		Kg	N.
HTRX 0.35	150	214.5	0.35	105	175	90	25	3/4"NPT	2.8	1
HTRX 0.7	150	214.5	0.7	105	228	90	25	¾"NPT	4	1
HTRX 1.5	70	100.1	1.5	49	270	114	25	1"NPT	7	2
HTRX 2.5	70	100.1	2.5	49	405	114	25	1"NPT	9	2
HTRX 4.5	50	71.5	4.5	35	350	168	25	1"½ NPT	15	2
HTRX 6.5	50	71.5	6.5	35	486	168	25	2"BSP	19	2
HTRX 10	50	71.5	10	35	720	168	25	2"BSP	25	2
HTRX 20	30	42.9	20	21	750	220	40	3"BSP	36	2
HTRX 35	30	42.9	35	21	1290	220	40	3"BSP	58	2
HTRX 50	30	42.9	50	21	1780	220	40	3"BSP	75	2







TOP REPAIRABLE

Bladder type hydropneumatic accumulators with body in AISI 316L stainless steel

Technical features:

Maximum working pressure (PS): 220 bar

Test pressure (PT): > 1,43 x PS Body: in AISI 316L Stainless Steel

Construction methods: three different parts united whit a special

threading that under conditions of dynamic pressure tends to self-block

Bladder: differently type due to the fluid utilized:

-Perbunan (NBR) -Butil -Nitrile (NBR)

-Poliuretano -EPDM -Viton

Installation position: vertical position, nitrogen valve upward

Compression Ration:

- recommended: P2/P0 = 2.5- maximum : P2/P0 = 4

Mechanical life: the number of the cycles is inversely proporzioned

to

the increase of the compression ration. To be used as antipulsation dampner, the precharged pressure should be between 60%

and

80% of the working pressure depending also

to the

temperature value.

Warranty: see dedicated page
Spare parts: see dedicated page

Available:

- flanged execution on requests

According to

97/23/CE - PED 94/9/CE - ATEX ASME VIII° div.1



Туре	Max Pressure	Test pressure	Nitrogen Volume	Н	D	С	В	Hydraulic connection	Weight
	bar	bar	litri	mm	mm	mm	mm		Kg
ACSX 10	220	314.6	10	450	250	36	70	2"BSP	59.7
ACSX 20	220	314.6	20	735	250	36	70	2"BSP	99.2
ACSX 25	220	314.6	25	885	250	36	70	2"BSP	120.1
ACSX 35	220	314.6	35	1265	250	36	70	2"BSP	172.9
ACSX 50	220	314.6	50	1750	250	36	70	2"BSP	240.3



DIAPHRAGM TYPE HYDROPNEUMATIC ACCUMULATORS BTHX SERIES



Technical features:

Maximum working pressure (PS): 210 Bar

Test pressure (PT): 315 Bar

Body: in AISI 316 L stainless steel

Diaphragm: in PTFE (Teflon)

Working temperature: -50°C ÷ +150°C

Installation position: from vertical (nitrogen valve upward) to

horizontal position

Preload pressure:

- $P0 = 0.6 \times P1$ for SIMPLEX and DUPLEX pump

 $-P0 = 0.7 \times P1$ for TRIPLEX pump

 $-P0 = 0.8 \times P1$ for QUINTUPLEX and other pump

Mechanical life: the number of cycles is inversely proportional to

the increase of the compression ratio.

For pulsation damper applications , the nitrogen value must be from 60% to 80% of the working pressure also in relation with the working

temperature

Warranty: see dedicated page

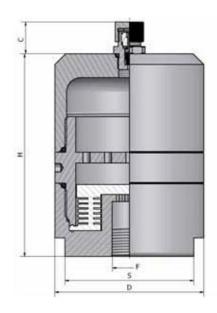
Spare parts: see dedicated page

According to:

97/23/CE - PED 94/9/CE - ATEX

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II 2 G/D



Туре	Max pressure	Test pressure	Nitrogen volume	Н	D	С	S	Hydraulic connection (F)	Weight
	Bar	Bar	Litres	mm	mm	mm	mm	inch	Kg
BTHX0.06	210	315	0.06	82	104	22	90	¾"BSP	3.9
BTHX0.15	210	315	0.15	115	104	22	90	¾"BSP	5.2
BTHX0.30	210	315	0.3	135	104	22	90	¾"BSP	6
BTHX0.50	210	315	0.5	190	104	22	90	¾"BSP	7
BTHX0.75	210	315	0.75	232	104	22	90	3/4" BSP	8
BTHX1.00	210	315	1	185	168	22	150	1 1/2"BSP	11
BTHX1.50	210	315	1.5	211	168	22	150	1 ½" BSP	13
BTHX2.00	210	315	2	243	168	22	150	1 1/2" BSP	15
BTHX2.50	210	315	2.5	276	168	22	150	1 ½" BSP	17

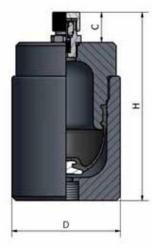


ACCUMULATORI IDROPNEUMATICI A MEMBRANA SERIE HSTPVC/HSTP



Δ

FOX



Disegno Nº1

Caratteristiche Tecniche:

Pressione massima di lavoro (PS) : 10 bar

Pressione di prova (PT): PS*1.43 bar

Corpo:

- serie HSTPVC: in PVC

- serie HSTP: in POLIPROPILENE

Metodologia costruttiva: due componenti distinti uniti da una

speciale filettatura che sottoposta a

pressioni dinamiche tende ad autobloccarsi

Temperatura massima di utilizzo:

- serie HSTPVC: +50 °C

- serie HSTP: +70 °C

Membrana: differenti tipologie in relazione al fluido utilizzato:

-Perbunan (NBR)

-Butile -Poliuretano

-Nitrile (NBR) -EPDM

-Viton

-Hytrel "Du Pont"

-Alcryn "Du Pont"

Montaggio: posizione verticale (valvola azoto verso l'alto)

Rapporto di compressione:

- consigliato: P2/P0 = 2.5

- massimo: P2/P0 = 6

Vita meccanica: il numero di cicli è inversamente proporzionale

all'aumento del rapporto di compressione. Per utilizzo come antipulsazione la pressione di precarica deve rientrare tra il 60% e l' 80% della pressione di lavoro in considerazione anche del

valore della temperatura

Garanzia: vedi pagina dedicata

Parti di ricambio: vedi pagina dedicata

Esecuzioni speciali:

- HSTPVC.C : con corpo in PVC.C

- HSTPVC.PVDF : con corpo in PVC.PVDF

- con camicia di rinforzo per utilizzi sino a pressioni di 15 bar

Conforme a:

97/23/CE - PED 94/9/CE - ATEX



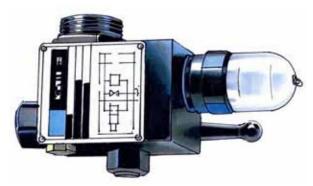
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Tipo	0	Pressione Max	Volume Azoto	Precarica Max	н	D	С	Connessione idraulica	Peso	Dis
		Bar	Litri	Bar	mm	mm	mm		Kg	N°
HSTPVC 0.04	HSTP 0.04	10	0.04	7	100	60	23	3/8"BSP	0.3	1
HSTPVC 0.1	HSTP 0.1	10	0.12	7	142	80	23	½" BSP	0.7	1
HSTPVC 0.35	HSTP 0.35	10	0.35	7	155	110	23	1/2"BSP	1.1	1
HSTPVC 0.7	HSTP 0.7	10	0.7	7	218	100	23	½"BSP	1.8	1
HSTPVC 1.5	HSTP 1.5	10	1.5	7	270	138	23	¾"BSP	3.5	2
HSTPVC 2.3	HSTP 2.3	10	2.3	7	360	138	23	¾"BSP	4	1
HSTPVC 5	HSTP 5	10	5	7	375	180	23	1"½ BSP	10	2
HSTPVC 10	HSTP 10	10	10	7	730	200	23	2"BSP	20	2



SAFETY BLOCKS SB/330 SERIES





Maximum working pressure: 330 bar

Body: in phosphated steel

Standard execution:

- Isolation ball valve
- Safety relief valve
- Drain port
- Gauge port

Working temperature: from - 20°C to + 80°C

Special execution:

- Safety valve /TÜV test inspected
- Safety valve/ I.S.P.E.S.L. test inspected
- Electric solenoid valve for accumulator discharge
- SAE and CETOP connecting flange for SB4 / SB5 / SB6 types
- Stainless steel housing

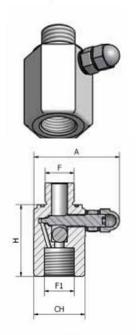


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Туре	Fox Compatible Accumulators	Hydraulic Connection Accumulator's side	Hydraulic Connection Installation's side	Fluid passage diameter	Note
				mm	
SB1	-	3/4"BSP male	½"BSP female	10	
SB2	HB series till 10 litres, HTR series from 4.5 to 10 litres, HSTX10	1"1/4 BSP male	½"BSP female	10	
SB3	HB series from	2" BSP male	½"BSP female	10	
SB4	20 to 50 litres,	2" BSP male	3/4"BSP female	20	
SB5	HTR20 HTRX10	2" BSP male	1"BSP female	25	Execution for high flow. Pre-
SB6	HSTPVC10	2" BSP male	1"½BSP female	32	designed for SAE and CETOP flange connection



ONEWAY FLOW REGULATORS VSA SERIES



Technical Features:

Maximum working pressure: 330 bar

Body: in zinc-plated carbon steel

Use: for an optimal use of an hydropneumatic accumulator is

advisable to

have in the almost totality of the applications a regulation of the flow. The VSA series of flow regulators has been conceived for

resolving in the most economic way this requirement

Regulation: the flow set point is controlled by means of a set screw

without the need of an external control knob

Installation position: in every position

Maximum flow without accumulator:

VSA 18: 50 litre/minVSA 21: 50 litre/minVSA 34: 90 litre/min

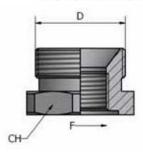
Maximum flow with accumulator:

the flow increase following a directly proportional function to the value of the nitrogen preload $% \left(1\right) =\left(1\right) \left(1$

Туре	Max Pressure	Max Flow Without Accumulator	Hydraulic Connection Accumulator's Side	Hydraulic Connection Installation's Side	н	А	Hexagon	Weight
	Bar	Litre/min			mm	mm	mm	Kg
VSA 18	330	50	M 18x1.5	M 18x1.5	45	53	32	0.3
VSA 21	330	50	M 18x1.5	1⁄2" BSP	45	53	32	0.3
VSA 34	330	90	¾" BSP	¾" BSP	57	65	36	0.45

VS SERIES ADAPTORS





Туре	D	F	Hexagon
4			mm
VS 21	M 18x1.5	1/2" BSP	32
VS 34	1"1/4 BSP	3/4" BSP	50
VS 214	2" BSP	1"1/4 BSP	70
VS 234	2" BSP	¾" BSP	70

NS SERIES NIPPLES





Type	F1	F2	Hexagon
			mm
NS15	M 18x1.5	3/4" BSP	27
NS21	M 18x1.5	½" BSP	27



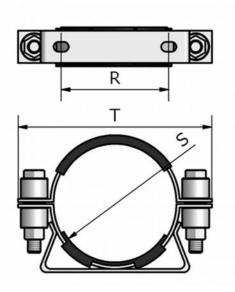
CLAMPS AND BRACKETS

Designed for specific use on accumulator installation, both clamps and brackets are supplied complete with rubber support to ensure rigid mounting

CLAMPS CR SERIES

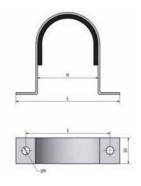


Туре	S	R	Т
	mm	mm	mm
CR 114	114÷116	100	180
CR 168	168÷172	148	230
CR 223	223÷225	216	290



CLAMPS CRE SERIES

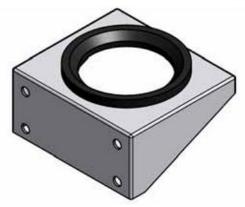


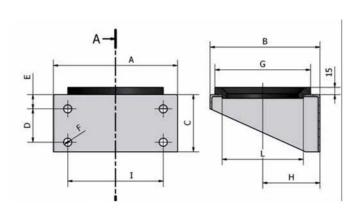


Type	L	-1-	D	
	mm	mm	mm	
CRE 70	120	94	70	
CRE 92	145	120	92	
CRE 115	180	155	115	
CRE 138	210	185	138	

BRACKETS MRC SERIES

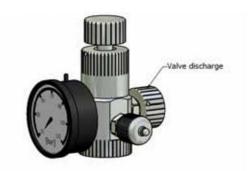
Туре	Α	В	С	D	E	F	G	Н		L
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
MRC 168	200	175	90	40	30	11	140	93	140	120
MRC 223	260	230	120	70	30	17	200	120	200	170

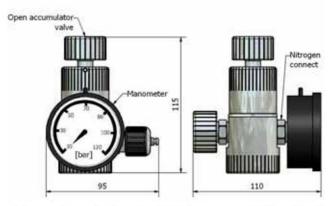




Fer Hydraulik

FILLING AND TESTING UNIT AR TYPE





The equipment of preload AR is an essential tool for the operations of control and restoration of the pressure of the nitrogen in the accumulators

Technical Features:

Maximum working pressure: 350 bar

Body: in zinc-plated steel

Standard execution:

- manometer included
- useful dedicated handbag
- 2.5 m flexible pipe for cylinder nitrogen with thread

connection of 3/8"BSP

Warranty: see dedicated page
Spare parts: see dedicated page

Туре	Manometer Scale				
	bar				
AR 1.0	0 > 6				
AR 1.1	0 > 16				
AR 1	0 > 40				
AR 2	0 > 60				
AR 3	0 > 100				
AR 4	0 > 160				
AR 5	0 > 250				
AR 6	0 > 400				

Instruction for use:

How To Check Nitrogen Pressure:

- a) If the accumulator is connected to the systems please check there is no pressure on the oil side. Turn anticlockwise the valve knob until it is fully disengaged and install it on the accumulator.
- **b)** Close the nitrogen discharge valve and turn the "AR "valve knob clockwise until the pressure gauge signals there is not internal pressure left or knob is fully turned clockwise in the event accumulator is fully discharged.
- c) Once nitrogen pressure is checked, gently unscrew discharge valve until pressure start decreasing. Once wanted nitrogen pressure is reached fully unscrew valve knob, open the nitrogen discharge valve to eliminate residual pressure and unscrew "AR" valve from the accumulator re-install protection cap of filling valve on accumulator turn strongly.

Filling Of Nitrogen:

Repeat A.M. operations connecting the nitrogen bottle quick release coupling before opening the valve knob. Start filling nitrogen very gently. We recommend to use a gas pressure reducer installed on the bottle in order to avoid over-pressurizations of the accumulator body during filling operation, especially when the precharge is low in pressure. Check nitrogen precharge every approx six months.

NITROGEN VALVE R TYPE

Technical Features:

Body: zinc-plated steel

Maximum working pressure: 400 bar

Available also:

- with body in AISI 316L stainless steel

Installation:

- accumulators
- control or variation of pressure in any system to gas or fluid
- drainage of the air in closed hydraulic circuits



