

EuroSERVICES

INNOVATIONS IN HEAVY EQUIPMENT & HYDRAULIC SYSTEMS



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Diaphragm Accumulator Section Model

Model: MDA—Max Working Pressure—Volume—Fluid Port—Shell Material—Diaphragm Material—Gas Connection
MDA 330 — 0.5 — G1/2 F — C N — W

Model

MDA: Diaphragm Accumulator

Gas Connection

W: Metric M28X1.5

W2: Metric M16X2

W3: Metric M14x1.5

W4: US 5/8-18UNF

W5: 8V1 IS04570

W6: British G1/4

W7: Not Rechargeable

Volume

0.075L-3.5L(Model in data sheet)

Max Working Pressure

330Bar (100Bar/210Bar/250Bar)

Valve Seat



Shell Material

C: Carbon Steel

S: Stainless Steel
(304/316L/2205)

Diaphragm Material

N: Nitrile Rubber(NBR)

L: Butyl Rubber(IIR)

H: Hydrogenated Nitrile(HNBR)

E: (EPDM)

E: Epichlorohydrin Copolymer(ECO)

F: Fluororubber(FPM)

Fluid Connection

M: Metric Thread(GB/T192-2003)

U: US Thread (UN)

G: British Pipe Thread(1S0228)

N: US Pipe Thread(NPT)

MM: Metric for Female and Male Thread

UM: US Female Thread and Metric Male Thread

GM: British Female Thread and Metric Male Thread

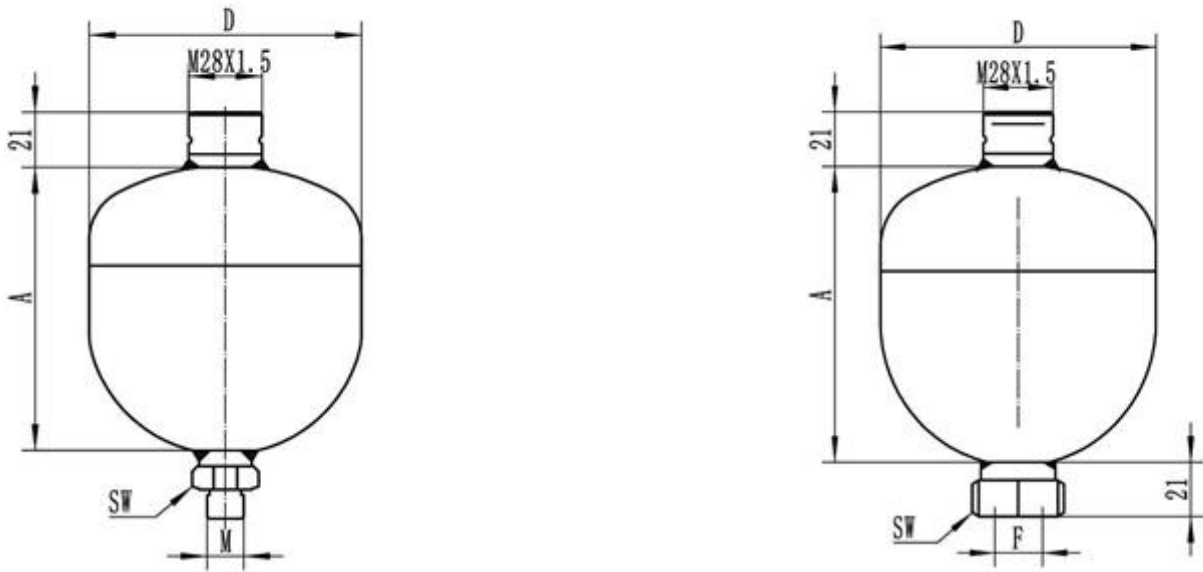
Internal and external thread (F-internal thread/M-external thread)

Pre-charged Pressure According to Customer' s Need

Diaphragm Accumulator

Dimension and Specification

EXTERNAL DIMENSIONS OF DIAPHRAGM ACCUMULATOR

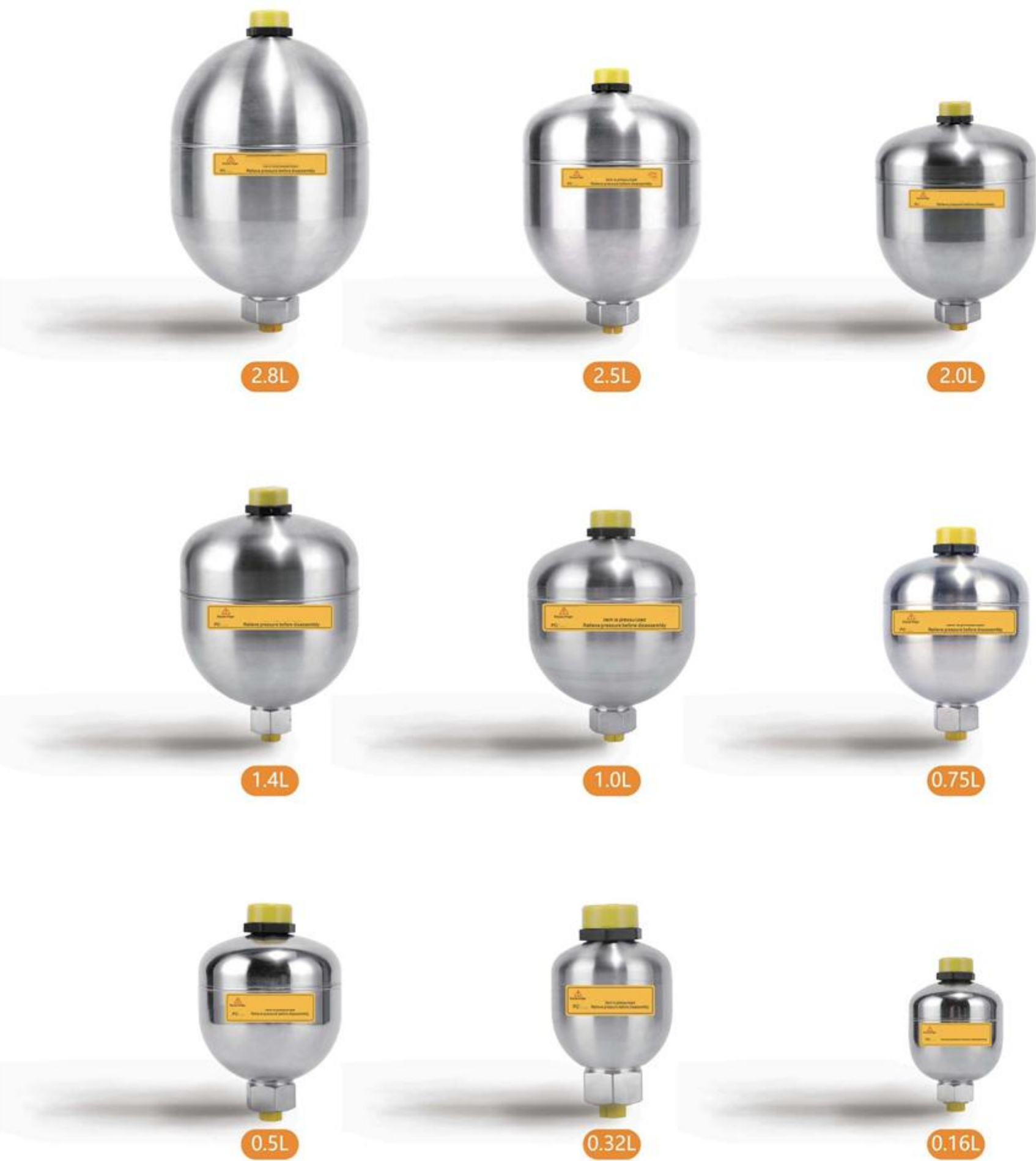
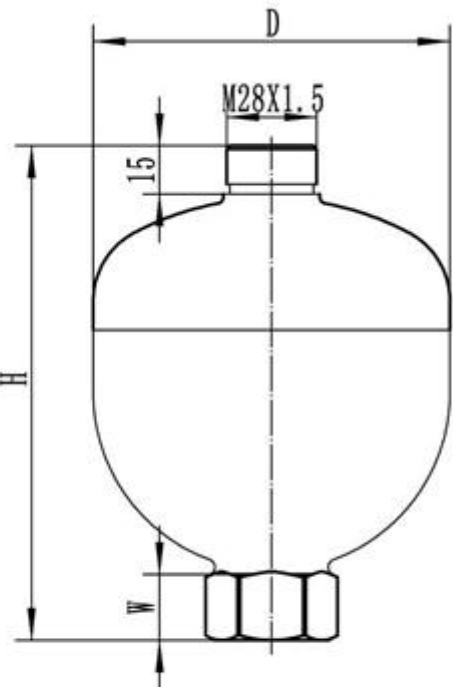


SPECIFICATION

Model	Max Working Pressure (BAR)	Max Working/ Charging Pressure	Volume (L)	Weight (KG)	Diameter D(mm)	Main Height A(mm)	Common Fluid Connection Thread			Max Flow Rate (L/min)	SW (mm)	
							Metric	British	US			
MDA	100	8 : 1	0.075	1.0	66	72	M14x1.5	G1/2	9/16-18 UNF	38	32	
			0.16	1.2	75	82						
			0.25	1.8	89	93	M18x1.5		3/4-16 UNF	95		
			0.32	2.1	95	99						
	0.5		2.9	111	113.8							
	0.75		4.2	125	128.5							
	1.0		5.4	142	140							
	1.4		8.0	157	169							
	2.0		10.0	173	193	M22X1.5	G3/4	1 1/16-12 UN	150	41		
	330		4 : 1	2.5	10.6						173	201
				2.8	11.2						173	228
				3.5	13.8						173	275.2

Diaphragm Accumulator Dimension and Specification

DIMENSIONS OF STAINLESS STEEL DIAPHRAGM ACCUMULATOR



SPECIFICATION

Model	Max Working Pressure (BAR)	Max Working/ Charging Pressure	Volume (L)	Weight (KG)	Diameter D(mm)	Overall Height H(mm)	Fluid Connection Thread(O-Ring)	Max Flow Rate (L/min)	W(mm)	SW (mm)	
MDA	100	8 : 1	0.16	1.2	75	118	G1/2	38	17	36	
			0.32	2.1	95	137		95			
			0.5	2.9	111	152			21		
	210		0.75	4.2	125	166					
			250	1.0	5.4	142					181
				1.4	8.0	157					210
	330		2.0	10.0	173	231		G3/4			150
		4 : 1	2.5	10.6	173	239					
			2.8	11.2	173	266					

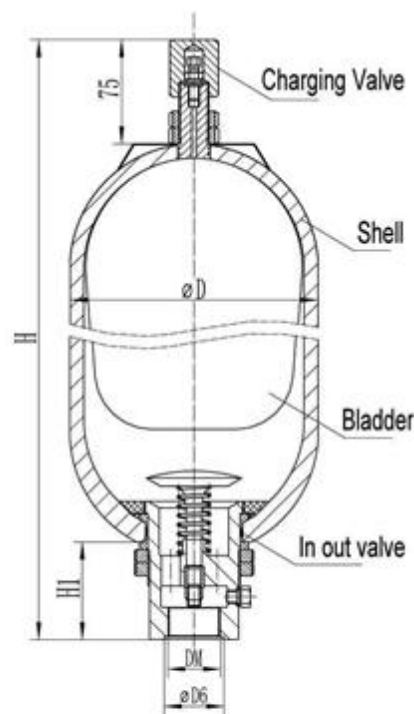
PED type Bladder Accumulator



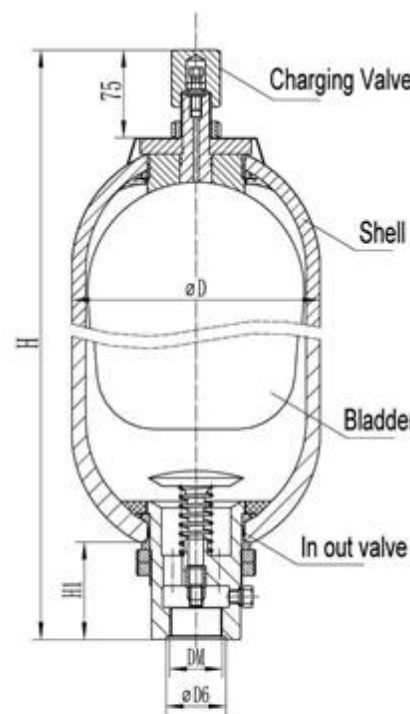
1 Ordering Code

NXQ	※	-	※	/	※	-	※	-	※	
Product Name: Standard Accumulator										
Structure Type: A-Type A, AB-Type AB										
Nominal Volume: 0.4~250L										
Nominal Pressure: 10、20、31.5MPa、custom made										
Connection Type: L-Thread Connection, F-Flange Connection										
Medium: Y-Hydraulic										
R-Emulsion										
EG-Ethylene Glycol										
Temperature: -20°C~+93°C										

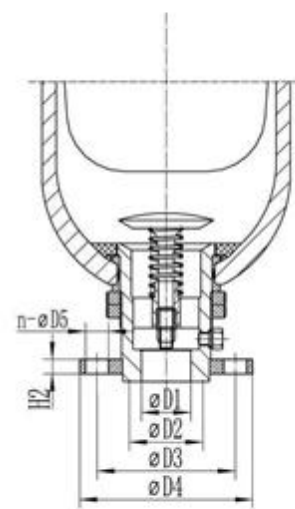
2 Stucture and Dimension



Standard



Top repairable



Accumulator flange connection

3 Dimensions

Model	Pressure (MPa)	Max discharge flowrate		Volume (L)	Connection		Dimension (mm)											Weight (Kg)
					L	F												
		L	F		H	DM	ΦD1	ΦD2	ΦD3	ΦD4	n-ΦD5	ΦD6	H1	H2	ΦD			
NXQ※-0.4/※-L-※	10	1		0.4	250	-	M27x2	-	-	-	-	-	32 (Φ32x3.1)	52	-	89	4.9	
NXQ※-0.63/※-L-※				0.63	320	-											5.6	
NXQ※-1/※-L-※				1	320	-											114	7.2
NXQ※-1.6/※-L/F-※		3.2	6		1.6	355	370	M42x2	42	50 (Φ50x3.1)	97	130	6-Φ17	50 (Φ50x3.1)	66	25	152	12.5
NXQ※-2.5/※-L/F-※					2.5	420	435											15
NXQ※-4/※-L/F-※					4	530	545											18.5
NXQ※-6.3/※-L/F-※					6.3	700	715											25.5
NXQ※-10/※-L/F-※		6	10		10	660	685	M60x2	50	70 (Φ70x3.1)	125	160	6-Φ21	70 (Φ70x3.1)	90.5	32	219	38.5
NXQ※-16/※-L/F-※					16	870	895											50.5
NXQ※-20/※-L/F-※					20	1000	1025											58
NXQ※-25/※-L/F-※					25	1170	1195											68
NXQ※-32/※-L/F-※					32	1410	1435											82
NXQ※-40/※-L/F-※				40	1690	1715	98											
NXQ※-50/※-L/F-※	20	10	15		50	2040	2065	M72x2	60	80 (Φ80x3.1)	150	200	6-Φ26	80 (Φ80x3.1)	110	40	299	118
NXQ※-20/※-L/F-※					20	685	700											80
NXQ※-25/※-L/F-※					25	780	795											92
NXQ※-32/※-L/F-※					32	910	925											108
NXQ※-40/※-L/F-※					40	1050	1065											125
NXQ※-50/※-L/F-※					50	1240	1255											148
NXQ※-63/※-L/F-※		15	20		63	1470	1485	M80x3	80	95 (Φ95x3.1)	170	230	6-Φ26	90 (Φ90x3.1)	116	45	351	176
NXQ※-80/※-L/F-※					80	1810	1825											218
NXQ※-100/※-L/F-※					100	2190	2205											266
NXQ※-63/※-L/F-※					63	1188	1203											191
NXQ※-80/※-L/F-※					80	1418	1433											228
NXQ※-100/※-L/F-※					100	1688	1703											270
NXQ※-125/※-L/F-※	31.5	20		125	2008	2023	M100x3	98	115 (Φ115x5.7)	220	255	8-Φ26	115 (Φ115x5.7)	116	50	426	322	
NXQ※-160/※-L/F-※				160	2478	2493											397	
NXQ※-100/※-L/F-※				100	1315	1360											441	
NXQ※-160/※-L/F-※				160	1915	1960											552	
NXQ※-200/※-L/F-※	20	25		200	2315	2360	M100x3	98	115 (Φ115x5.7)	220	255	8-Φ26	115 (Φ115x5.7)	116	50	426	663	
NXQ※-250/※-L/F-※				250	2915	2960											786	

Note: 1.Contact us if special requirement is needed.
2. Design change is retained by our company and amendment is effected without further notice.
3. If customers need to increase the flow of production can be ordered.

Bladder Accumulator (ASME)



1 Ordering Code

Structure:
Bottom Dismantlement: BA
Top Dismantlement: TA1, TA2

Volume: 0.15~15gal

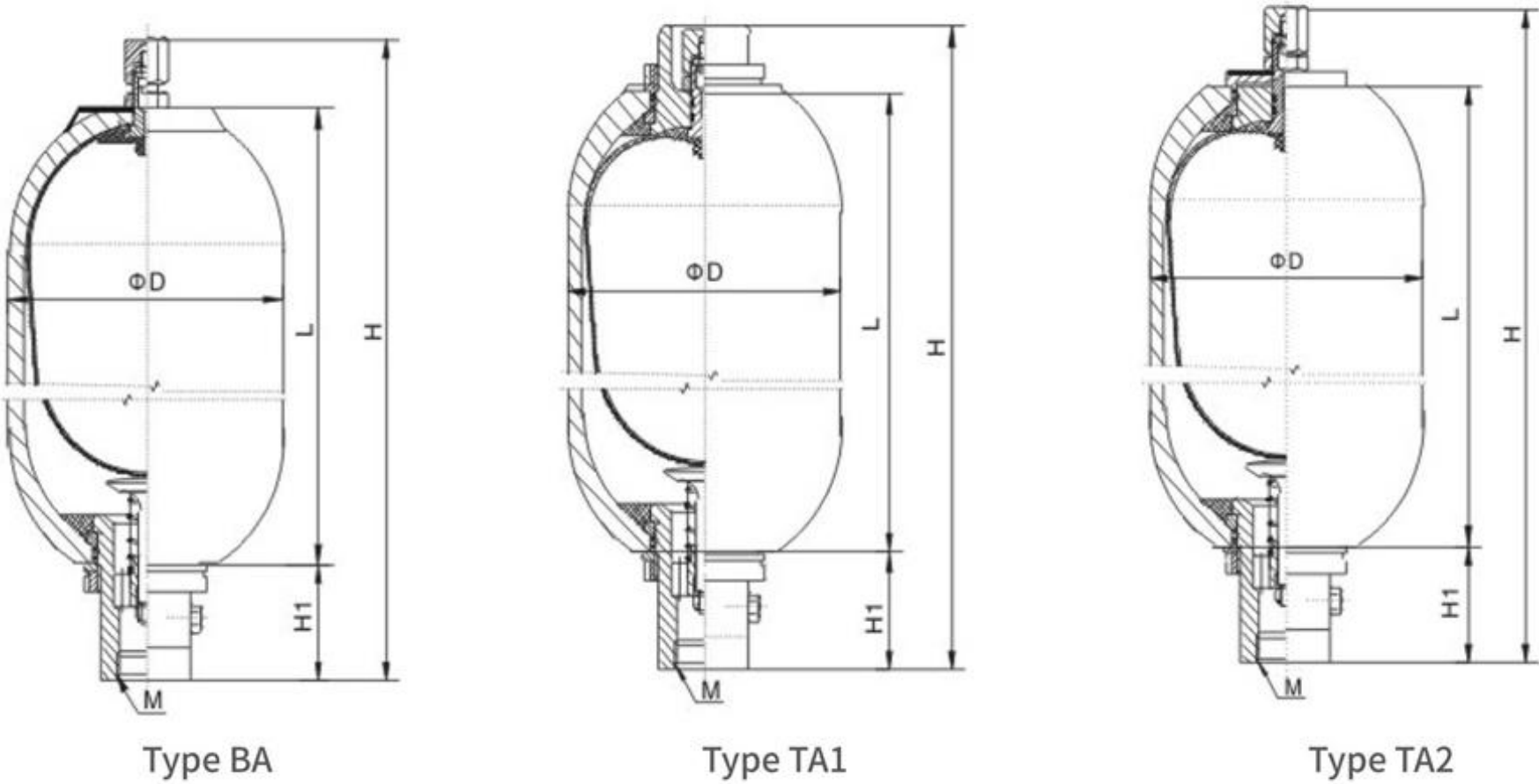
Maximum Operating Pressure: 3000PSI~5000PSI

BA(TA) — ※ / ※ — ※ — ※

Medium: O-Hydraulic Oil

Connection Type: L-Thread Connection
F-Flang Connection

2 Structure and Dimension



Design pressure	3000psi (20.7MPa)
Test pressure	5000psi (34.5MPa)
Medium	Oil, N ₂
Operating temperature	-4°F~158°F(-20°C~70°C)
Charging pressure	≤90%min ≥25%max
Connection type	Thread connection Flang connection
Fixation	Fastening ring& Supporting seat
Installation	Vertically mounted
Gas connection	8V1 ISO 4570

3000PSI

Model	Volume		Dimensions									Netwt	
			H		L		H1		D		M		
	gal	L	in	mm	in	mm	in	mm	in	mm	G	lb	kg
BA-0.15/3000-※-※	0.15	0.6	12.60	320	7.48	190	2	51	3.5	89	3/4"	12.4	5.6
BA-0.25/3000-※-※	0.25	1	12.60	320	7.48	190			4.5	114	3/4"	17.6	8
BA-0.6/3000-※-※	0.6	2.5	16.54	420	11.02	280	2.6	66	6	152	1 1/4"	30	14
BA-1.0/3000-※-※	1	4	20.87	530	15.35	390						40	18
BA(TA)-2.5/3000-※-※	2.5	10	21.56	550	16.14	410	3.5	89	9	229	2"	81	37
BA(TA)-5/3000-※-※	5	20	33.46	850	27.95	710						125	57
BA(TA)-8/3000-※-※	8	32	47.64	1210	42.13	1070						176	80
BA(TA)-10/3000-※-※	10	40	56.70	1440	51.18	1300						209	95
BA(TA)-11/3000-※-※	11	44	61.42	1560	55.90	1420						227	103
BA(TA)-14/3000-※-※	14	56	75.60	1920	70.08	1780						288	130
BA(TA)-15/3000-※-※	15	60	80.31	2040	74.80	1900						303	138

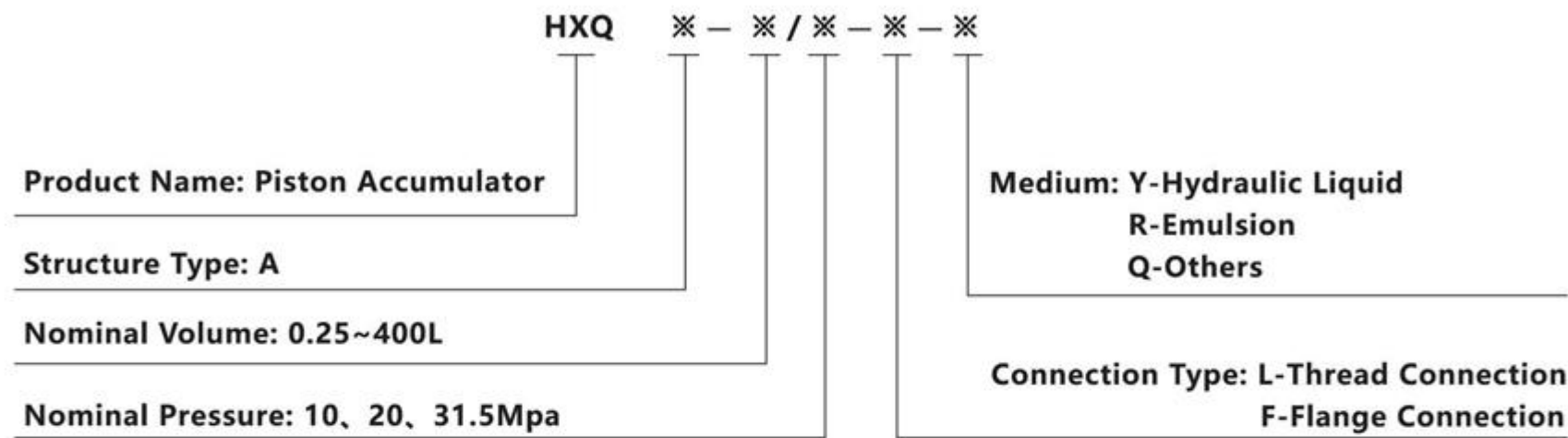
5000PSI

Model	Volume		Dimensions									Netwt	
			H		L		H1		D		M		
	gal	L	in	mm	in	mm	in	mm	in	mm	G	IB	kg
BA(TA)-2.5/5000-※-※	2.5	10	21.26	540	15.75	400	3.5	89	9.65	245	2"	139	63
BA(TA)-5/5000-※-※	5	20	32.68	830	27.17	690						203	92
BA(TA)-8/5000-※-※	8	32	46.46	1180	40.94	1040						280	127
BA(TA)-10/5000-※-※	10	40	55.12	1400	49.61	1260						329	149
BA(TA)-11/5000-※-※	11	44	59.84	1520	54.33	1380						355	161
BA(TA)-14/5000-※-※	14	56	73.62	1870	68.11	1730						432	196
BA(TA)-15/5000-※-※	15	60	78.35	1990	72.83	1850						460	209

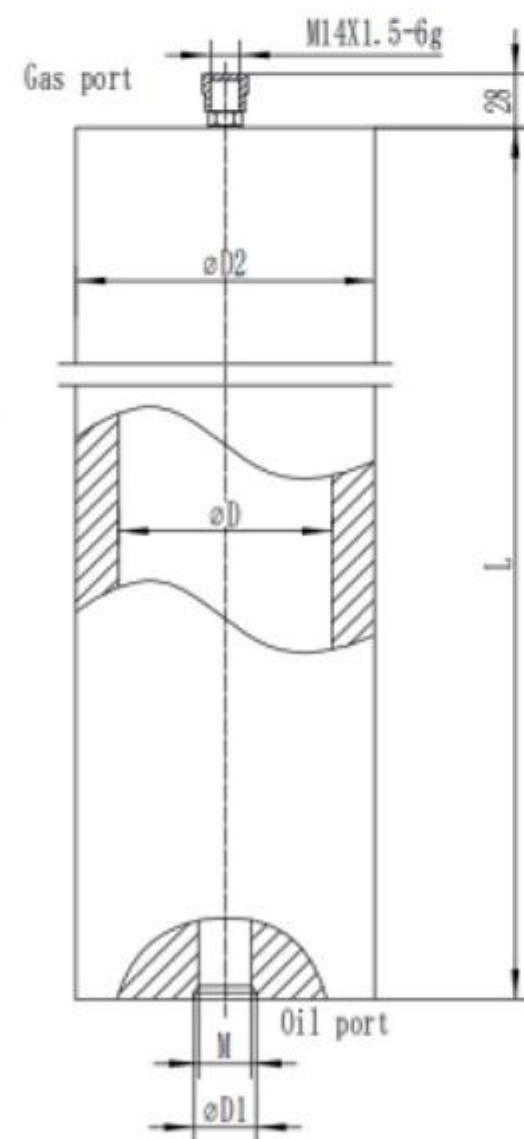
Note: 1.BA: Bottom dismantlement TA: Top dismantlement
2.Special accumulators not in the list, with increased flowrate or top dismantlement can be ordered accordingly.

Piston Accumulator

1 Ordering Code



2 Structure and Dimension



Model	Pressure(MPa)	Volume(L)	Dimension(mm)					Weight(kg)				
			Φ D	M	Φ D1	Φ D2	L					
HXQ-※-0.22/※-※-※	10~99	0.22	63	M22×1.5	35	83	225	7.1				
HXQ-※-0.49/※-※-※		0.49					310	8.5				
HXQ-※-1/※-※-※		1					470	11.5				
HXQ-※-2/※-※-※		2					795	17.5				
HXQ-※-1/※-※-※	10~35	1	80	M27×2	108	108	380	22				
HXQ-※-2/※-※-※		2					580	28				
HXQ-※-2.5/※-※-※	10~99	2.5	100	M42×2	50	127	510	31				
HXQ-※-3.5/※-※-※	3.5	640					36					
HXQ-※-5/※-※-※	10~35	5					830	44				
HXQ-※-6/※-※-※		6					955	49				
HXQ-※-7.5/※-※-※		7.5	1145	57								
HXQ-※-2/※-※-※		2	390	44.5								
HXQ-※-4/※-※-※	10~35	4	125	M60×2	70	163	555	55.5				
HXQ-※-5/※-※-※		5					635	61				
HXQ-※-6/※-※-※		6					715	66.5				
HXQ-※-6/※-※-※		6					600	86				
HXQ-※-8/※-※-※		8	715			97						
HXQ-※-10/※-※-※		10	830			107.5						
HXQ-※-12/※-※-※		12	940			118						
HXQ-※-10/※-※-※		10	670			90.5						
HXQ-※-16/※-※-※		16	910			114						
HXQ-※-25/※-※-※		25	1250			146						
HXQ-※-32/※-※-※		32	1540			174						
HXQ-※-35/※-※-※		35	1655			198						
HXQ-※-40/※-※-※		40	1850			218						
HXQ-※-45/※-※-※		45	2050			238						
HXQ-※-50/※-※-※		50	2245			258						
HXQ-※-25/※-※-※		20	25			M60×2	70	219	1116	121.5		
HXQ-※-30/※-※-※	30		1285	131.5								
HXQ-※-40/※-※-※	40		1620	151.5								
HXQ-※-50/※-※-※	50		1955	172.5								
HXQ-※-40/※-※-※	40	1615	280.5									
HXQ-※-45/※-※-※	45	1770	301.5									
HXQ-※-50/※-※-※	50	1930	322.5									
HXQ-※-60/※-※-※	60	2250	365.5									
HXQ-※-20/※-※-※	10~35	20	M60×2	70	245				850	192		
HXQ-※-32/※-※-※		32							1165	250		
HXQ-※-40/※-※-※		40							1380	267		
HXQ-※-50/※-※-※		50							1640	323		
HXQ-※-60/※-※-※	60	1905			341							
HXQ-※-80/※-※-※	80	2430			443							
HXQ-※-40/※-※-※	250	40			M72×2				80	299	1025	229
HXQ-※-50/※-※-※		50									1410	263
HXQ-※-60/※-※-※		60				1615	297					
HXQ-※-80/※-※-※		80				2020	364					
HXQ-※-100/※-※-※	100	2430				432						
HXQ-※-120/※-※-※	120	2840				500						
HXQ-※-60/※-※-※	10~35	60				M72×2	80	377		1245	482	
HXQ-※-70/※-※-※		70								1380	525	
HXQ-※-80/※-※-※		80								1510	563	
HXQ-※-90/※-※-※		90								1645	605	
HXQ-※-100/※-※-※		100	1775	645								
HXQ-※-110/※-※-※		110	1910	686								
HXQ-※-120/※-※-※		120	2040	726								
HXQ-※-130/※-※-※		130	2175	770								
HXQ-※-140/※-※-※		140	2305	810								
HXQ-※-150/※-※-※		150	2440	850								
HXQ-※-160/※-※-※		160	2570	890								
HXQ-※-100/※-※-※		100	1560	730								
HXQ-※-120/※-※-※		120	1770	788								
HXQ-※-130/※-※-※		130	1870	817								
HXQ-※-150/※-※-※		150	2080	876								
HXQ-※-200/※-※-※		200	2600	1023								
HXQ-※-215/※-※-※		215	2755	1067								
HXQ-※-130/※-※-※	400	130	500	1620	1345							
HXQ-※-150/※-※-※		150		1780	1434							
HXQ-※-180/※-※-※		180		2020	1566							
HXQ-※-200/※-※-※		200		2180	1656							
HXQ-※-250/※-※-※	250	2570	1872									
HXQ-※-350/※-※-※	350	3370	2316									

Note: 1.Piston accumulator: HXQA-50/20-L-Y, nominal volume is 50L, nominal pressure is 20Mpa, thread connection.

Medium is hydraulic liquid.

2.Design change is retained by our company and amendment is effected without further notice.

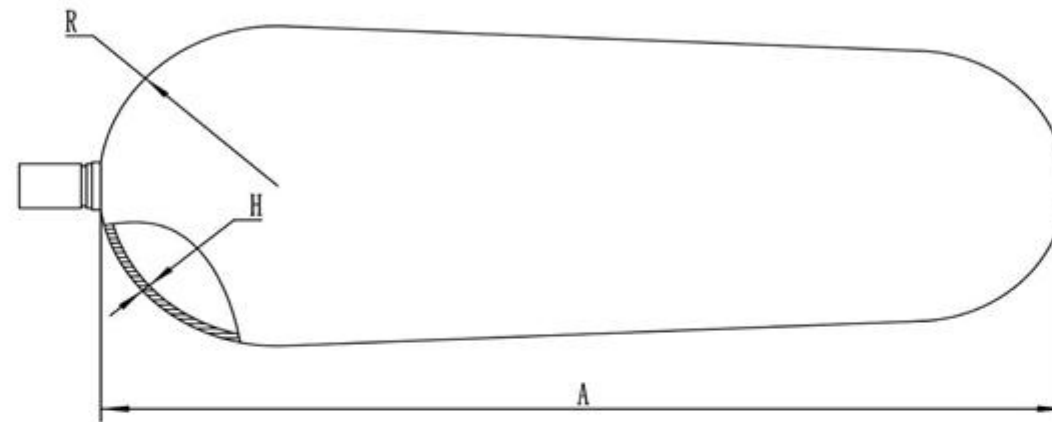
Bladder Repair Kits

Bladder Repair Kits

1 General Description

The bladder is resistant to oil, acids, and alkalis, as well as being bend-resistant, highly strong, and durable.

2 Dimension



3 Technical Parameter

Series	Model	Dimension(mm)		
		A	R	H
PED	E4L	240	73	2.8
	E5L	310		
	E6L	360		
	114/1.5L	200	49	2
	114/2.5L	320		
	114/4L	380		
	114/6L	660		
	D12L	410	101	3
	D15L	457		
	D20L	612		
	D24.5L	735-750		
	D32L	1000		
	D35L	1230		
	D40L	1258		
	D42L	1538		
	D50L	1600		
ASME	1qt	145	48	1.8
	1pt	134	39	
	1gal	210	73	
	2.5gal	290	101	3
	5gal	585		
	10gal	1100		
	11gal	1258		
	15gal	1625		

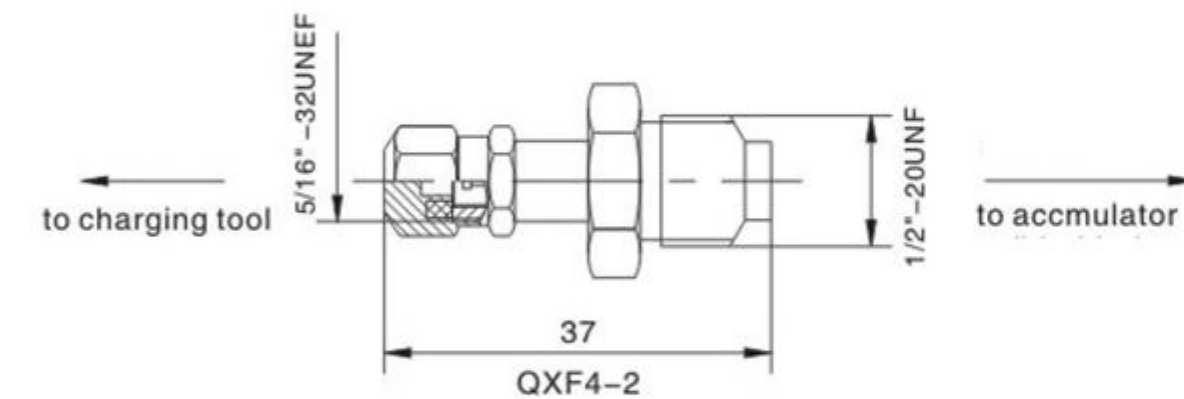
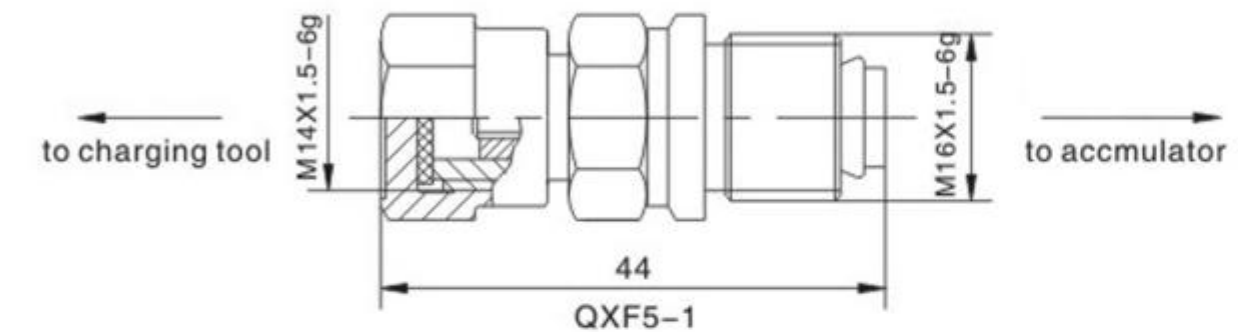
Accumulator QXF Charging Valve

Accumulator QXF Charging Valve

1 General Description

QXF charging valve is the special check valve to charging the nitrogen for accumulator by charging tools. It turned off after charging.

2 Dimension



3 Technical Parameter

Model	Charging Range (MPa)	Nominal Diameter (mm)	Thread Connection		Accumulator Model	Weight (kg)
			Input(to charging tool)	Output(to accumulator)		
QXF5-1	0.4~40	5	M14x1.5-6g	M16x1.5-6g	Bladder Accumulator	0.07
QXF4-2	0.4~40	4	5/16"-32UNEF	1/2"-20UNF	Piston Accumulator	0.03

4 Technical Parameter

- 1.Contact us if special requirement is needed.
- 2.Design change is retained by our company and amendment is effected without further notice.

FPU Charging Kit

- 1 Model: FPU (Charging Kit)
- 2 Pressure Gauge (3 Kinds as Standard): 10MPa, 25MPa, 40MPa
- 3 Charging Pipe=1.5m (Standard), 3m, 6m
- 4 Nitrogen Bottle Connection G0=G5/8 (It can be customized according to the requirements of different countries)
- 5 Accumulator Gas Connection Thread Standard: M28X1.5 Adapter: M14X1.5 UNF5/16 UNF1/2 UNF5/8 UNF7/8 G1/4
- 6 Suitcase



PRE-LOADING AND CHECKING SET

CQJ/GCQJ Type Accumulator Charging Accessory

1 Introduction

CQJ/GCQJ Type Accumulator Charging Accessory is used to charge gas, supply gas, adjust pressure and test pressure. It have the characters of compact structure, reliable safety, high-pressure resistance, compact resistance and good convenience.

2 Model Code

GCQJ	※	※
(1)	(2)	(3)

- 1.CQJ: Diaphragm Accumulator Charging Kit
GCQJ: Bladder Accumulator/Piston Accumulator Charging Kit
- 2.Pressure Rating: 10、20、31.5MPa
- 3.Connecting Port: M28X1.5、 M14X1.5、 5/8-18UNF and so on



3 Technical Specifications

Model	Nominal pressure (MPa)	Compound Pressure Meter		Rubber Pipe		With accumulator joint size	Compound accumulator type	Weight (kg)	
		Scale level (MPa)	Accuracy class (MPa)	Bore size(mm) X Number of steel wire layers	Lenght(mm)				
CQJ-16	10	16	2.5	Φ8x1	1500-5000	M14X1.5	Bladder Accumulator Piston Accumulator	1.7	
CQJ-25	20	25							
CQJ-40	31.5	40							
GCQJ-16	10	16				M28X1.5	Diaphram Accumulator		
GCQJ-25	20	25							
GCQJ-40	31.5	40							

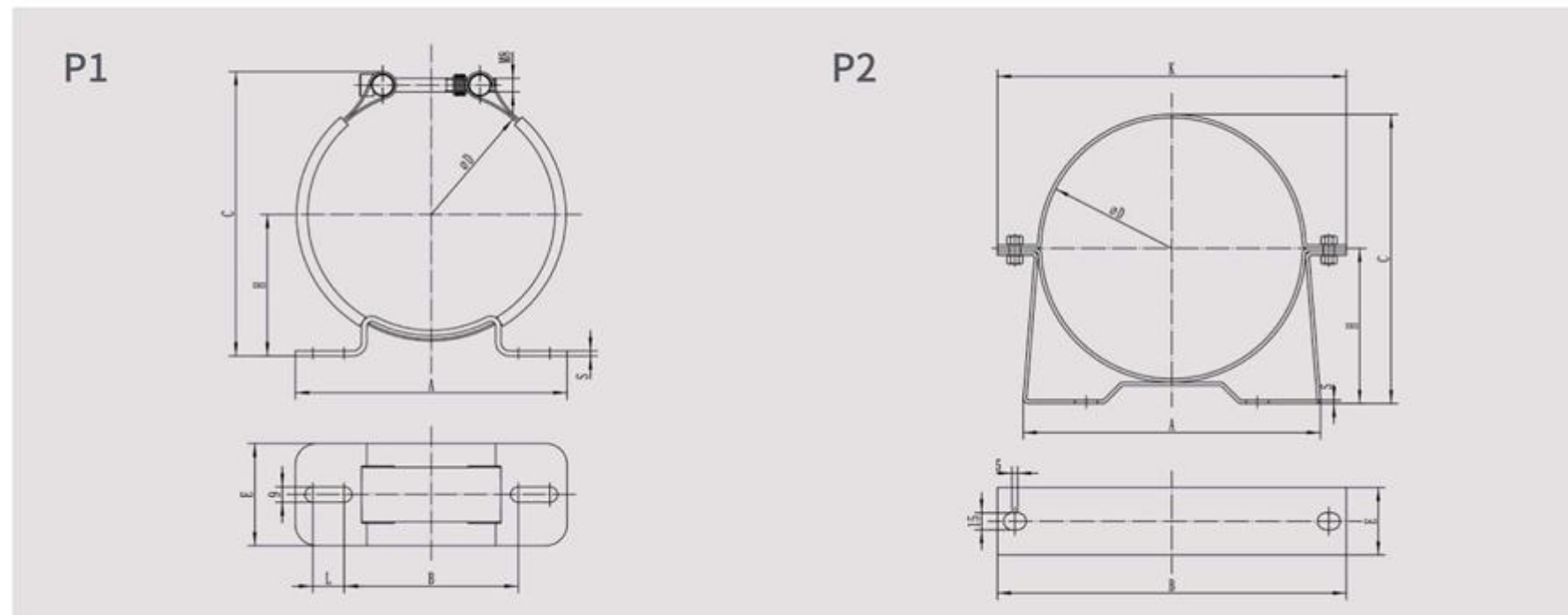
Accumulator Clamp

Accumulator Clamp

1 General Description

The special device designed to fix accumulator with the advantage of compact structure,flexible connection,nice appearance

2 Internal Structure Dimension



Model	A(mm)	B(mm)	ΦD(mm)	H(mm)	E(mm)	L(mm)	S(mm)	K(mm)	Remarks
NXJ-74	120	85	71-77	49	60	8	3	/	P1
NXJ-89	120	85	89-92	64	60	8	3	/	
NXJ-95	120	85	92-98	60	60	8	3	/	
NXJ-105	156	100	105-114	68	60	18	3	/	
NXJ-121	156	100	118-126	75	60	18	3	/	
NXJ-142	156	100	133-142	83	60	18	3	/	
NXJ-152	156	100	152-159	87	60	18	3	/	
NXJ-173	236	152	170-176	97	60	32	4	/	
NXJ-229	265	152	226-232	138	60	32	3	310	P2

3 Booking Note

- 1.Contact us if specialrequirement is needed.
- 2.Design change is retained by our company and amendment is effected without further notice.

Energy-saving Pneumatic Hydraulic Station

Energy-saving Pneumatic Hydraulic Station

1 Introduction

Energy-saving Pneumatic Hydraulic Station combines the advantages of pneumatic and hydraulic technology, it has the characteristics of high efficiency, energy saving, small size and easy installation. Compared to traditional electric hydraulic stations of the same power, it consumes 95% less electricity. It is mainly used in various work scenarios that require hydraulic systems.such as machining centers, lathes, and automation equipment.



2 Model Code

ALP-10-A F-12- K3 B - DC24					
Serial Number: ALP		Voltage: DC24, DC12, AC220, AC110			
Boost Ratio: 05: 1:5 07: 1:7 10: 1:10 12: 1:12 22: 1:22		Stacked Valve Type: Factory Standard B Type, 6-way diameter			
Pump Characteristics: A- Gas-liquid Pressurization		Valve Group Options: K1- 1 group K2-2 group K3-3 group (1 group: Table 1 direction valve)			
Pressure Display: F-Pressure Gage		Fuel Tank Volume and Color: 12L (Non standard 20L, 30L, 50L); RAL7035			

3 Booster Pump Parameters

Booster Pump Model	Pressure Ratio	Drive Air (bar)	Max Output Pressure		Max Flow (L/min)	Gas consumption (NL/cycle)
			bar	psi		
PWL-005	1:5	3-6	30	435	13.5	4.57
PWL-007	1:7	3-6	42	609	11	4.8
PWL-0010	1:10	3-6	60	870	9	4.9
PWL-0012	1:12	3-6	72	1044	8	4.87
PWL-0022	1:22	3-6	130	1885	4.5	4.92