5000

Series 5000 Piston Accumulators

- Heavy Duty Service with 5000 PSI Operating Pressure
- 2" thru 9" Bores with Over 30 Standard Capacities
- Patented V-O-ring Piston Seals
- Serviceable Threaded End Construction
- Five Standard Seal Options to Handle a Variety of Fluids and Temperatures
- ASME Certification and CE Marking Available

Parker Hannifin Corporation
Hydraulic Accumulator Division
Rockford, Illinois USA

Materials

- Shell – high strength alloy steel
- Caps – steel
- Pistons – aluminum (2" thru 7"), ductile iron (9")
- Gas Valve Cartridge – steel
- Gas Valve Protector – steel
- Piston Glide Rings – PTFE
- Piston & End Seals – various polymers
- Piston Seal Backups – PTFE

Actual Bore Sizes & Maximum Flow Rates Pressure Ratings

Nominal Bore Size (in.)	Actual Bore Size		Max. Recommended Flow*	
	(in.)	(mm)	GPM	LPM
2	2.03	51.4	100	380
3	3.00	76.2	220	834
4	4.03	102	397	1504
6	5.78	147	818	3096
7	7.00	178	1199	4538
9	9.00	229	1982	7502

***Note:** Based on 120 in/sec maximum piston speed, port & fitting size will become limiting factors for most applications.

Series 5000 piston accumulators are rated at minimum 4 to 1 design factors. For pressures over 5000 psi, consult the factory.

Fluids

Parker's piston accumulators are compatible with a wide variety of fluids. Standard accumulators (with nitrile seals) may be used with petroleum-based industrial oils or water-based flame resistant fluids. Optional seals compatible with most industrial fluids are available with temperature ranges from -45°F to 325°F (-43°C to 162°C).

Precharge

Units are shipped with a nominal nitrogen precharge as standard. For specific precharge pressures, specify at the time of order.

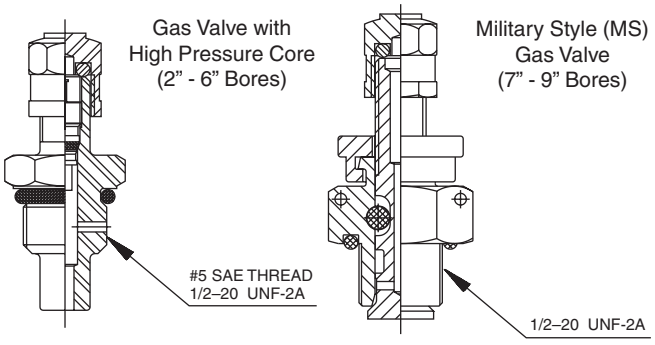
Standard Ports

The following ports are supplied as standard on all fluid ends and on the gas end of accumulators ordered for use with gas bottles:

Bore Size	Standard Ports	
	Standard Models	Metric Models BSPP Port (in)
2	SAE #12	3/4
3	SAE #12	3/4
4	SAE #16	1
6	SAE #16	1
7	2" Code 62 Flange	2" Metric ISO 6162 Flange
9	2" Code 62 Flange	2" Metric ISO6162 Flange

Gas Valve

Series 5000 accumulators and gas bottles with 2" through 6" bores are supplied with a high pressure cored gas valve as standard. Models with 7" and 9" bores are supplied with a heavy duty (military) poppet-type gas valve cartridge (Mil. Spec. MS28889-2) as standard.



Note: The standard Parker gas cap will accept either style gas valve.

Available Options

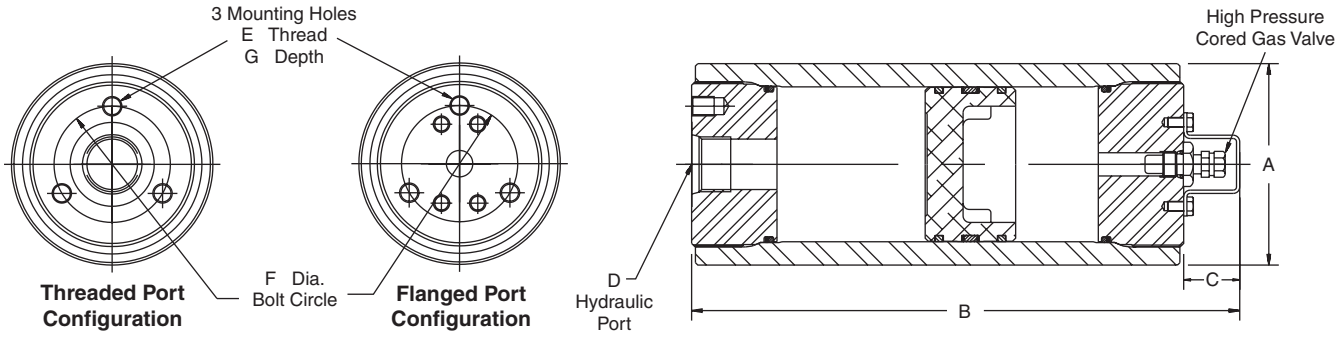
If your application requires a piston accumulator, gas bottle, or special option that falls outside of Parker's broad offering, consult your local distributor, Parker representative, or the factory with your specific requirements. Parker has the manufacturing and engineering expertise to design and build piston accumulators to your exacting requirements, from simple modifications of standard units to complete designs. Some example of Parker's past special designs include:

- Special and Stainless Steel Materials
- Piston Position and Velocity Sensors and Switches
- Special Seals
- Non-Standard Capacities
- Water Service
- Ports
- Fixed Gauge Mounts
- Fuse Plug Assemblies

Auxiliary Gas Bottles

When space does not permit the installation of the required piston accumulator, a smaller accumulator may be used by connecting it to an auxiliary gas bottle(s) that can be located in a nearby spot where space is available. In some cases, a piston accumulator and gas bottle combination may be more economical, especially large capacity sizes. Piston travel, confined to the accumulator, must be calculated with ample margins to store the required fluid.

5000 PSI Piston Accumulators for Oil and Water Service

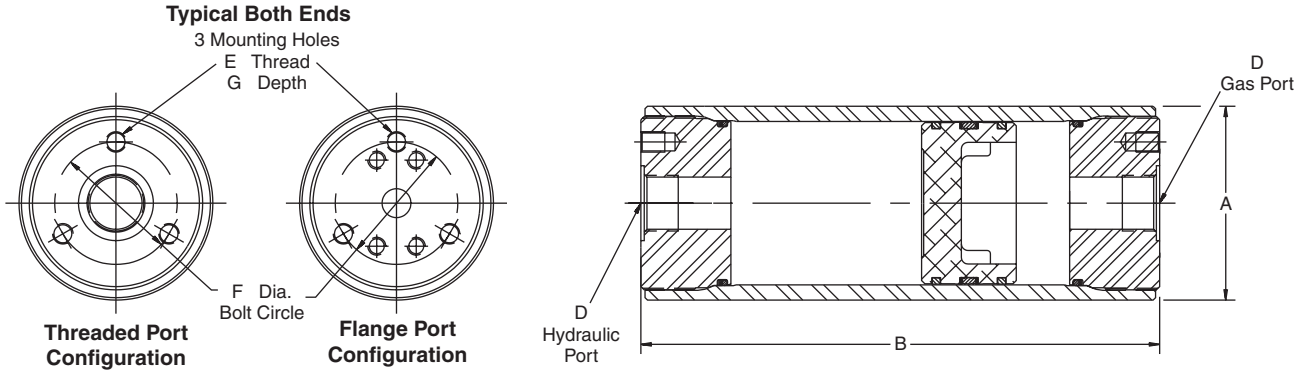


Model No. / Oil Service	Fluid Volume (gal)	Fluid Volume (cu in)	Gas Volume (cu in)	A (in)	B (in)	C (in)	D-Hydraulic Port SAE No.	D-Hydraulic Port Thread Size (in)	D-Hydraulic Port Tube Size	E (in)	F (in)	G (in)	Weight (lbs)
A2N0005C1K	–	5	6.5		6.76								6
A2N0010C1K	–	10	11.5		8.31								7
A2N0015C1K	–	15	16.5	2.63	9.78	1.06	12	1-1/16 - 12	3/4	–	–	–	8
A2N0029C1K	1 Pint	29	30.5		14.19								11
A2N0058C1K	1 Quart	58	59.5		23.19								17
A3N0029C1K	1 Pint	29	34		10.25								21
A3N0058C1K	1 Quart	58	63		14.34								28
A3N0090C1K	1.5 Liter	90	95	4.00	18.94	1.13	12	1-1/16 - 12	3/4	3/8 - 12	2.25	0.56	35
A3N0116C1K	1/2 Gal.	116	121		22.56								40
A3N0183C1K	3 Liter	183	188		32.06								55
A4N0058C1K	1 Quart	58	68		12.06								43
A4N0116C1K	1/2 Gal.	116	126		16.62								54
A4N0231C1K	1 Gal.	231	241	5.25	25.62	1.13	16	1-5/16 - 12	1	1/2 - 20	3.25	0.75	77
A4N0347C1K	1-1/2 Gal.	347	357		34.75								100
A4N0578C1K	2-1/2 Gal.	578	588		52.81								146
A6N0231C1K	1 Gal.	231	266		19.18								128
A6N0347C1K	1-1/2 Gal.	347	382		23.62								148
A6N0578C1K	2-1/2 Gal.	578	613		32.43								190
A6N0924C1K	4 Gal.	924	959	7.50	45.62	1.13	16	1-5/16 - 12	1	1/2 - 20	4.38	0.75	252
A6N1155C1K	5 Gal.	1155	1190		54.43								293
A6N1733C1K	7-1/2 Gal.	1733	1768		76.43								396
A6N2310C1K	10 Gal.	2310	2345		98.43								499

Notes:

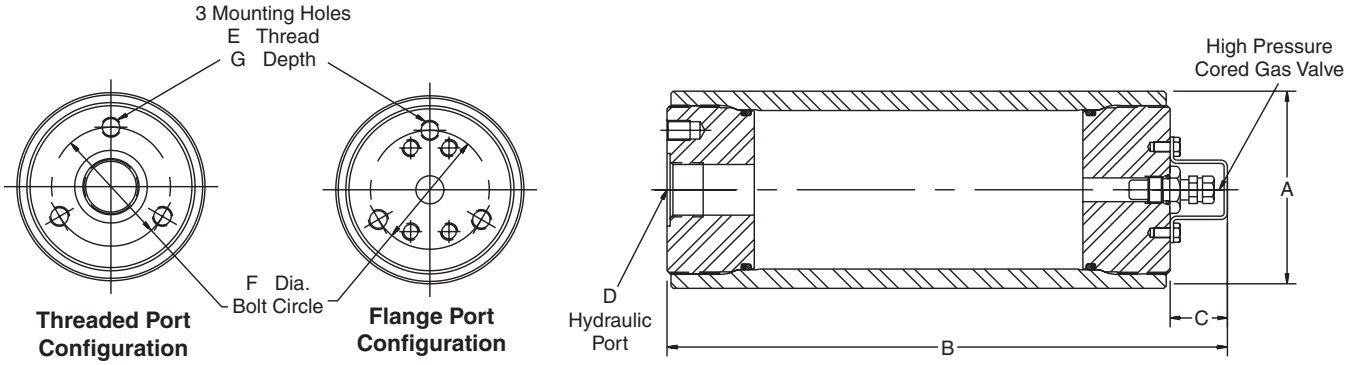
1) For Water Service add "W" after construction code, see "How to Order".
2) See "Port Options" for complete listing of port options.
3) ASME certified and CE marked accumulators and gas bottles available.

5000 PSI Piston Accumulators for Use with Gas Bottles



Accumulator Model No.	Fluid Volume (gal)	Fluid Volume (cu in)	Gas Volume (cu in)	A (in)	B (in)	D Port (Both Ends) SAE No.	D Port (Both Ends) Thread Size (in)	D Port (Both Ends) Tube Size	E (in)	F (in)	G (in)	Weight (lbs)
A4N0058C3KTETE	1 Quart	58	68		10.93							43
A4N0116C3KTETE	1/2 Gal.	116	126		15.49							54
A4N0231C3KTETE	1 Gal.	231	241	5.25	24.49	16	1-5/16 - 12	1	1/2 - 20	3.25	0.75	77
A4N0347C3KTETE	1-1/2 Gal.	347	357		33.62							100
A4N0578C3KTETE	2-1/2 Gal.	578	588		51.68							146
A6N0231C3KTETE	1 Gal.	231	266		18.05							128
A6N0347C3KTETE	1-1/2 Gal.	347	382		22.49							148
A6N0578C3KTETE	2-1/2 Gal.	578	613		31.30							190
A6N0924C3KTETE	4 Gal.	924	959	7.50	44.49	16	1-5/16 - 12	1	1/2 - 20	4.38	0.75	252
A6N1155C3KTETE	5 Gal.	1155	1190		53.30							293
A6N1733C3KTETE	7-1/2 Gal.	1733	1768		75.30							396
A6N2310C3KTETE	10 Gal.	2310	2345		97.30							499

5000 PSI Auxiliary Gas Bottles



Model No. Gas Bottle	Gas Volume Nominal (gal)	Gas Volume Actual (cu in)	A (in)	B (in)	C (in)	D Port SAE No.	D Port Thread Size (in)	D Port Tube Size	E (in)	F (in)	G (in)	Weight (lbs)
B4N0058C1K	1 Quart	86		12.06								41
B4N0116C1K	1/2 Gal.	144		16.62								53
B4N0231C1K	1 Gal.	259	5.25	25.62	1.13	16	1-5/16 - 12	1	1/2 - 20	3.25	0.75	75
B4N0347C1K	1-1/2 Gal.	375		34.75								98
B4N0578C1K	2-1/2 Gal.	606		52.81								144
B6N0231C1K	1 Gal.	319		19.18								123
B6N0347C1K	1-1/2 Gal.	435		23.62								143
B6N0578C1K	2-1/2 Gal.	666		32.43								185
B6N0942C1K	4 Gal.	1012	7.50	45.62	1.13	16	1-5/16 - 12	1	1/2 - 20	4.38	0.75	250
B6N1155C1K	5 Gal.	1243		54.43								288
B6N1733C1K	7-1/2 Gal.	1821		76.43								391
B6N2310C1K	10 Gal.	2398		98.43								494

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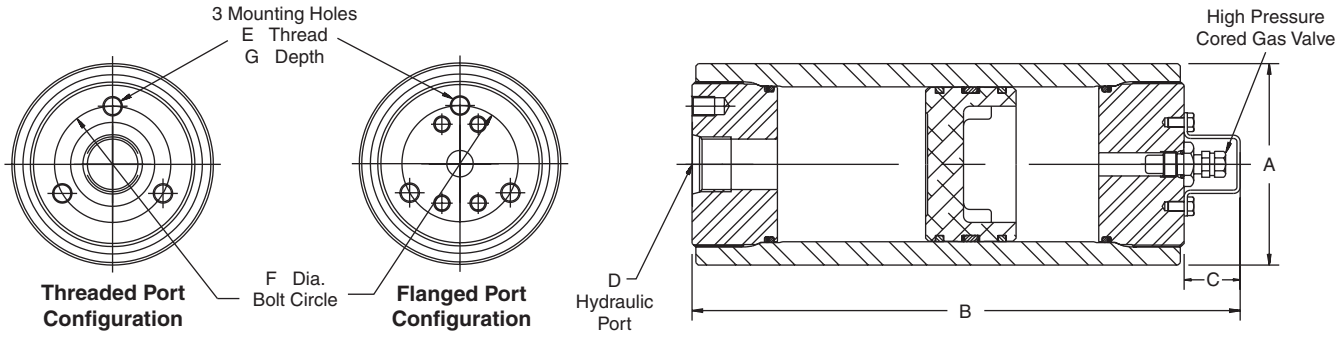
Hydraulic Accumulator Division
Rockford, Illinois USA

345 Bar Metric Piston Accumulators for Oil and Water Service



Model No. / Oil Service	Fluid Volume (Liters)	Fluid Volume (cu in)	Gas Volume (Liters)	A (mm)	B (mm)	C (mm)	D-Hydraulic Port BSPP/G (in)	D-Hydraulic Port SAE Flange	E (mm)	F (mm)	G (mm)	Weight (Kg)
A2N0005C2K	0.08	5	0.11		172							2.8
A2N0010C2K	0.16	10	0.19		211							3.2
A2N0015C2K	0.25	15	0.24	67	248	27	3/4	–	–	–	–	3.7
A2N0029C2K	0.48	29	0.50		360							5.0
A2N0058C2K	0.95	58	0.98		589							7.6
A3N0029C2K	0.48	29	0.56		260							9.6
A3N0058C2K	0.95	58	1.03		364							12.5
A3N0090C2K	1.47	90	1.56	102	481	29	3/4	–	M10	60	15	15.7
A3N0116C2K	1.90	116	1.98		573							18.3
A3N0183C2K	3.00	183	3.08		814							25.0
A4N0058C2K	0.95	58	1.11		306							19.4
A4N0116C2K	1.90	116	2.06		422							24.6
A4N0231C2K	3.79	231	3.95	134	651	29	1	–	M12	82	18	34.9
A4N0347C2K	5.69	347	5.85		883							45.4
A4N0578C2K	9.47	578	9.64		1341							66.2
A6N0231C2K	3.79	231	4.36		487							57.9
A6N0347C2K	5.69	347	6.26		600							67.3
A6N0578C2K	9.47	578	10.00		824							86.0
A6N0924C2K	15.10	924	15.70	191	1159	29	1	–	M12	110	18	114
A6N1155C2K	18.90	1155	19.50		1383							133
A6N1733C2K	28.40	1733	29.00		1941							180
A6N2310C2K	37.90	2310	38.40		2500							227

Notes:

1) For Water Service add “W” after construction code, see “How to Order”.
2) See “Port Options” for a complete listing of port options.
3) ASME certified and CE marked accumulators and gas bottles are available.

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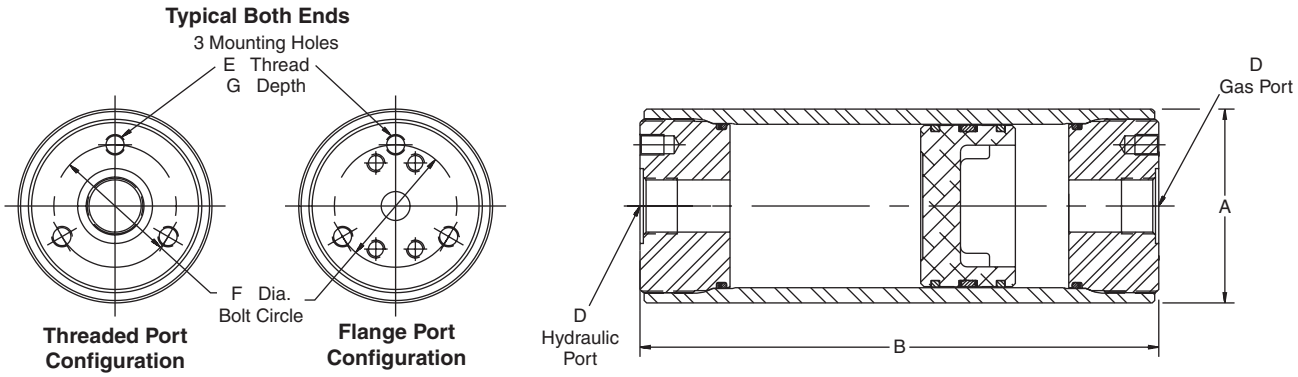
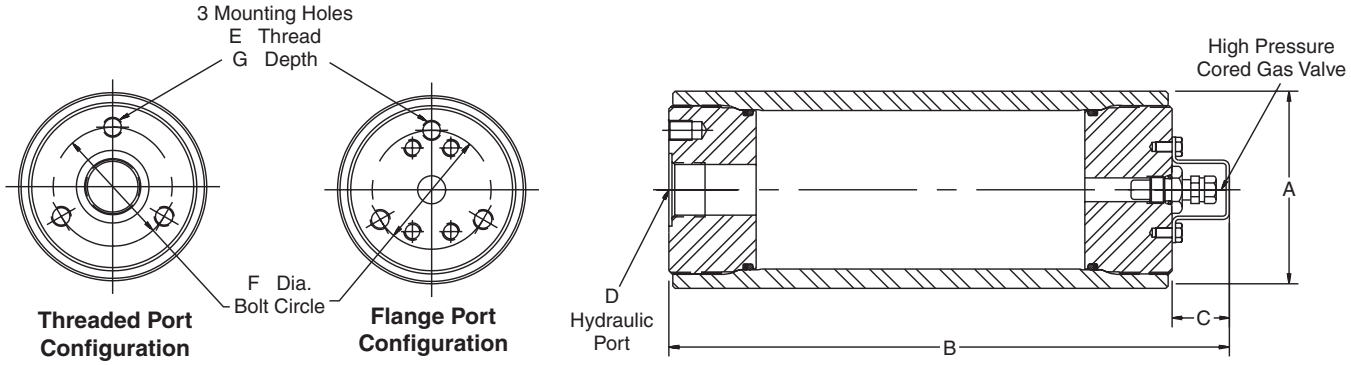
345 Bar Metric Piston Accumulators for Use with Gas Bottles



Accumulator Model No.	Fluid Volume (Liters)	Fluid Volume (cu in)	Gas Volume (Liters)	A (mm)	B (mm)	D - Port (Both Ends) BSPP/G (in)	D - Port (Both Ends) SAE Flange	E (mm)	F (mm)	G (mm)	Weight (Kg)
A4N0058C2KRDRD	0.95	58	1.11		277						19.4
A4N0116C2KRDRD	1.90	116	2.06		393						24.6
A4N0231C2KRDRD	3.79	231	3.95	134	622	1	–	M12	82	18	34.9
A4N0347C2KRDRD	5.69	347	5.85		854						45.4
A4N0578C2KRDRD	9.47	578	9.64		1312						66.2
A6N0231C2KRDRD	3.79	231	4.36		458						57.9
A6N0347C2KRDRD	5.69	347	6.26		571						67.3
A6N0578C2KRDRD	9.47	578	10.00		795						86.0
A6N0924C2KRDRD	15.10	924	15.70	191	1130	1	–	M12	110	18	114
A6N1155C2KRDRD	18.90	1155	19.50		1354						133
A6N1733C2KRDRD	28.40	1733	29.00		1912						180
A6N2310C2KRDRD	37.90	2310	38.40		2471						227

345 Bar Metric Auxiliary Gas Bottles



Model No.	Gas Volume		A	B	C	D-Hydraulic Port		E	F	G	Weight
Gas Bottle	Nominal (liters)	Actual (liters)	(mm)	(mm)	(mm)	BSPP/G (in)	SAE Flange	(mm)	(mm)	(mm)	(Kg)
B4N0058C2K	0.95	1.11		306							18.6
B4N0116C2K	1.90	2.06		422							23.9
B4N0231C2K	3.79	3.95	134	651	29	1	–	M12	82	18	34.2
B4N0347C2K	5.69	5.85		883							44.6
B4N0578C2K	9.47	9.64		1341							65.4
B6N0231C2K	3.79	4.36		487							55.6
B6N0347C2K	5.69	6.26		600							65.0
B6N0578C2K	9.47	10.00		824							83.8
B6N0924C2K	15.10	15.70	191	1159	29	1	–	M12	110	18	112
B6N1155C2K	18.90	19.50		1383							131
B6N1733C2K	28.40	29.00		1941							177
B6N2310C2K	37.90	38.40		2500							224

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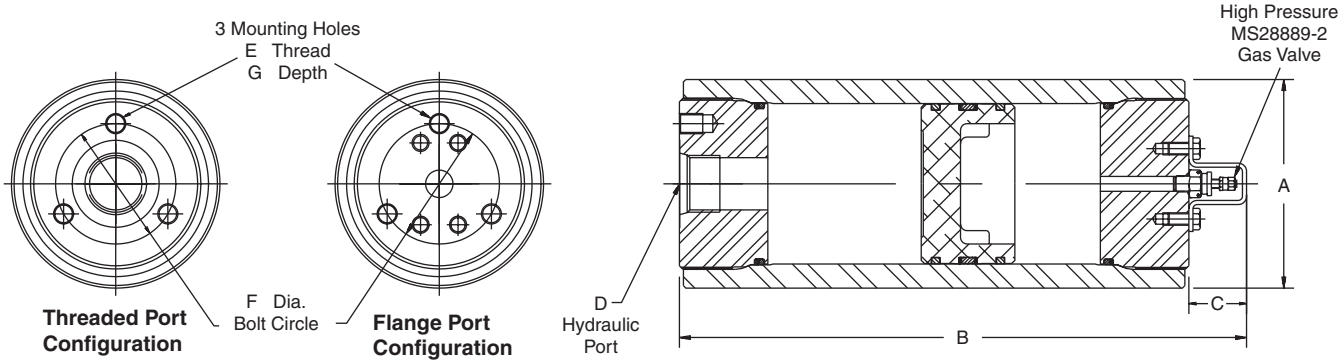

Model No.	Fluid Volume (gal)	Fluid Volume (cu in)	Gas Volume (cu in)	A (in)	B (in)	C (in)	D Hydraulic Port	E (in)	F (in)	G (in)	Weight (lbs)
A7K1155C1K	5 Gal.	1155	1190	9.09 ±0.06	42.50	1.63	2" SAE Code 62 Flange[2]	5/8 - 18	5.75	0.94	385
A7K1733C1K	7-1/2 Gal.	1733	1768		57.50						495
A7K2310C1K	10 Gal.	2310	2345		72.50						611
A7K3465C1K	15 Gal.	3465	3520		102.50						837
A9K2310C1K	10 Gal.	2310	2400	11.78 ±0.09	50.75	1.63	2" SAE Code 62 Flange[2]	3/4-16	7.00	1.13	831
A9K3465C1K	15 Gal.	3465	3555		68.94						1064
A9K4620C1K	20 Gal.	4620	4710		87.12						1298
A9K5775C1K	25 Gal.	5775	5865		105.25						1532
A9K6930C1K	30 Gal.	6930	7020		123.43						1765

Notes:

1) For Water Service add "W" after construction code, see "How to Order".
2) See "Port Options" for a complete listing of port options.
3) ASME certified and CE marked accumulators and gas bottles are available.

The Minimum Design Metal Temperature (MDMT) for ASME certified piston accumulators presented in this section is 20°F (-7°C).

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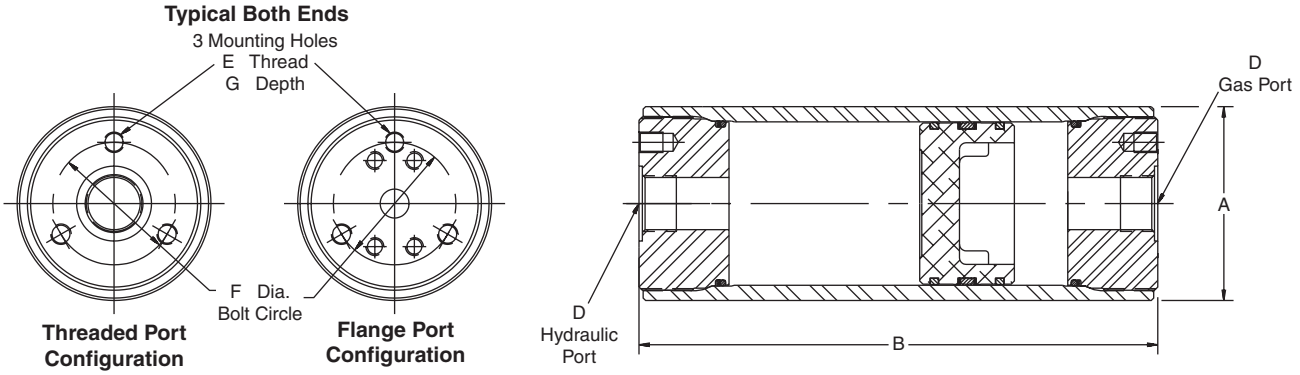
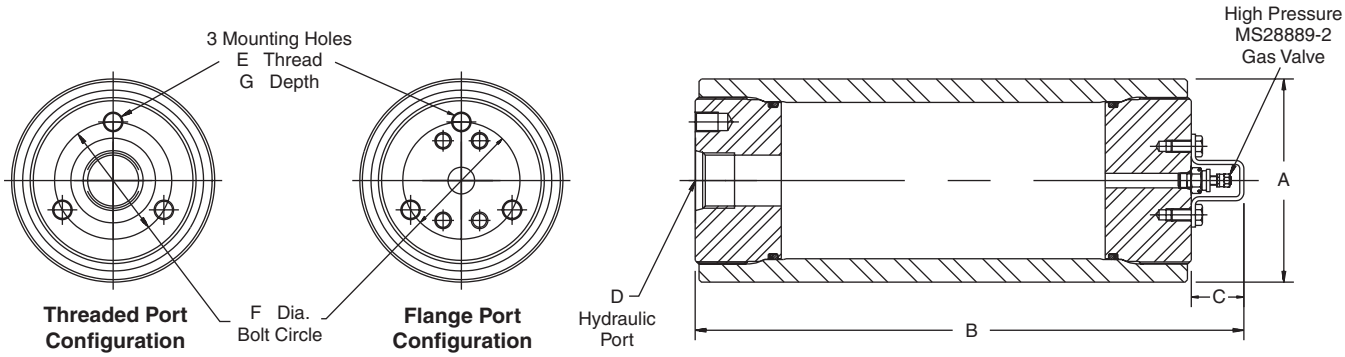
5000 PSI Piston Accumulators for Use with Gas Bottles



Accumulator Model No.	Fluid Volume (gal)	Fluid Volume (cu in)	Gas Volume (cu in)	A (in)	B (in)	D Port (Both Ends)	E (in)	F (in)	G (in)	Weight (lbs)
A7K1155C3KPQPQ	5 Gal.	1155	1190		40.87					385
A7K1733C3KPQPQ	7-1/2 Gal.	1733	1768	9.09	55.87	2" SAE Code 62	5/8-18	5.75	0.94	495
A7K2310C3KPQPQ	10 Gal.	2310	2345	±0.06	70.87					611
A7K3465C3KPQPQ	15 Gal.	3465	3520		100.87					837
A9K2310C3KPQPQ	10 Gal.	2310	2400		49.12					831
A9K3465C3KPQPQ	15 Gal.	3465	3555		67.31					1064
A9K4620C3KPQPQ	20 Gal.	4620	4710	11.78	85.49	2" SAE Code 62	3/4-16	7.00	1.13	1298
A9K5775C3KPQPQ	25 Gal.	5775	5865	±0.09	103.62					1532
A9K6930C3KPQPQ	30 Gal.	6930	7020		121.80					1765

5000 PSI Auxiliary Gas Bottles



Model No.	Gas Volume		A	B	C	D	E	F	G	Weight
Gas Bottle	Nominal (gal)	Actual (cu in)	(in)	(in)	(in)	Hydraulic Ports	(in)	(in)	(in)	(lbs)
B7K1155C1K	5 Gal.	1155		42.50						376
B7K1733C1K	7-1/2 Gal.	1733	9.09	57.50	1.63	2" SAE Code 62	5/8 - 18	5.75	0.94	489
B7K2310C1K	10 Gal.	2310	±0.06	72.50						602
B7K3465C1K	15 Gal.	3465		102.50						828
B9K2310C1K	10 Gal.	2310		50.75						782
B9K3465C1K	15 Gal.	3465		68.94						1016
B9K4620C1K	20 Gal.	4620	11.78	87.12	1.63	2" SAE Code 62	3/4 - 16	7.00	1.13	1250
B9K5775C1K	25 Gal.	5775	±0.09	105.25						1483
B9K6930C1K	30 Gal.	6930		123.43						1717

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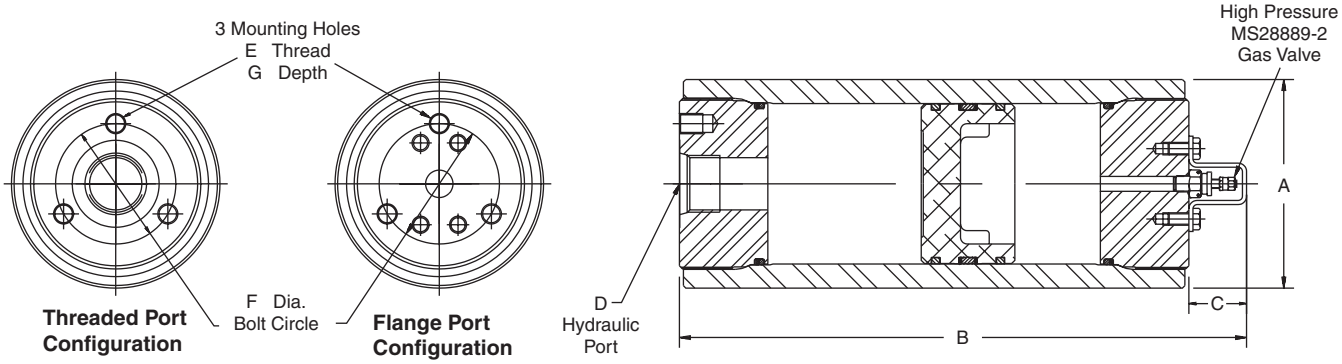
345 Bar Metric Piston Accumulators for Oil and Water Service

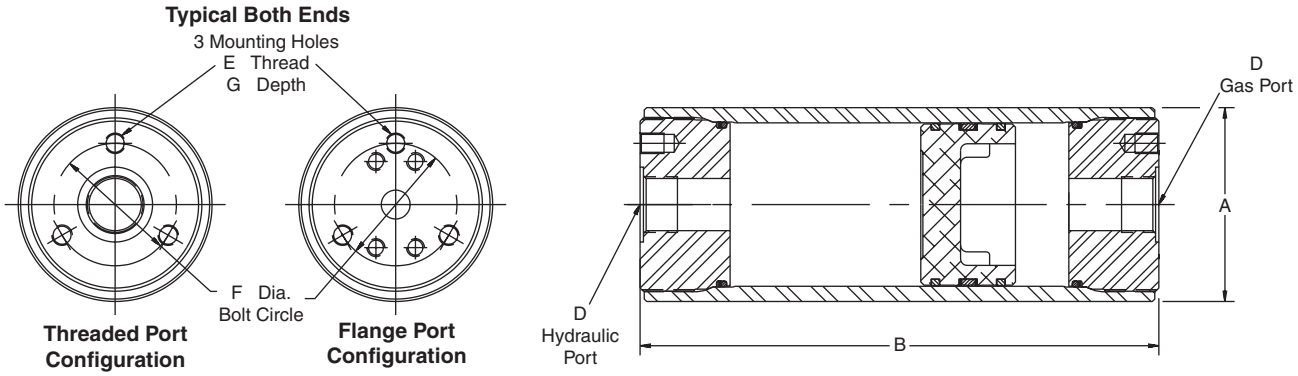


Model No.	Fluid Volume (Liters)	Fluid Volume (cu in)	Gas Volume (liters)	A (mm)	B (mm)	C (mm)	D Hydraulic Port	E (mm)	F (mm)	G (mm)	Weight (kg)
A7K1155C2K	18.90	1155	19.50		1080						175
A7K1733C2K	28.40	1733	29.00	231.1	1461	41	2" Metric	M16	146	24	226
A7K2310C2K	37.90	2310	38.40	±1.5	1842		SAE Code 62 Flange[2]				277
A7K3465C2K	56.85	3465	57.75		2604						380
A9K2310C2K	37.90	2310	39.37		1289						377
A9K3465C2K	56.85	3465	58.33		1751		2" Metric				483
A9K4620C2K	75.80	4620	77.27	299.2	2213	41	SAE Code 62	M19	178	29	589
A9K5775C2K	94.75	5775	96.23	±2.3	2673		Flange[2]				695
A9K6930C2K	113.70	6930	115.18		3135						801

Notes:

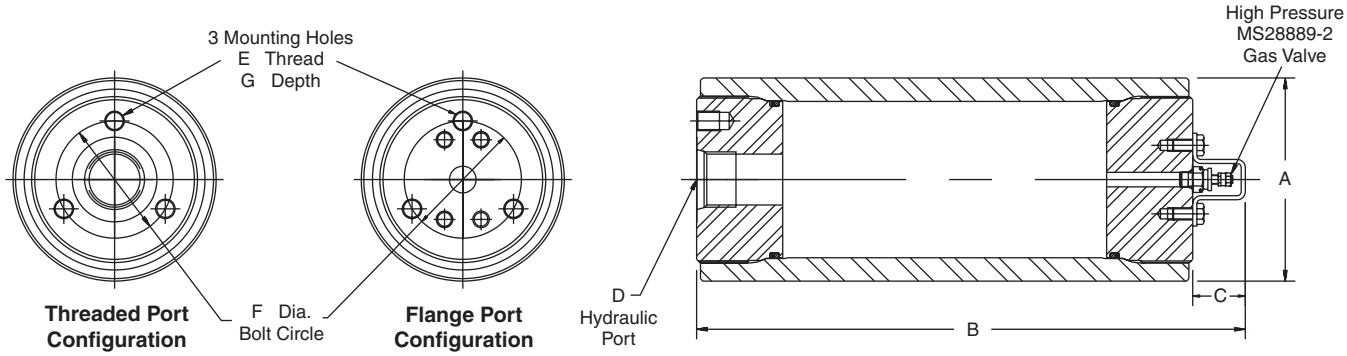
1) For Water Service add "W" after construction code, see "How to Order".
2) See "Port Options" for a complete listing of port options.
3) ASME certified and CE marked accumulators and gas bottles are available.

345 Bar Metric Piston Accumulators for Use with Gas Bottles



Accumulator Model No.	Fluid Volume (Liters)	Fluid Volume (cu in)	Gas Volume (Liters)	A (mm)	B (mm)	D Port (Both Ends)	E (mm)	F (mm)	G (mm)	Weight (kg)
A7K1155C2KMQMQ	18.90	1155	19.50		1039					175
A7K1733C2KMQMQ	28.40	1733	29.00	231.1	1420	2" Metric	M16	146	24	226
A7K2310C2KMQMQ	37.90	2310	38.40	±1.5	1801	SAE Code 62 Flange[2]				277
A7K3465C2KMQMQ	56.85	3465	57.75		2563					380
A9K2310C2KMQMQ	37.90	2310	39.37		1248					377
A9K3465C2KMQMQ	56.85	3465	58.33		1710	2" Metric				483
A9K4620C2KMQMQ	75.80	4620	77.27	299.2	2172	SAE Code 62	M19	178	29	589
A9K5775C2KMQMQ	94.75	5775	96.23	±2.3	2632	Flange[2]				695
A9K6930C2KMQMQ	113.70	6930	115.18		3098					801

345 Bar Metric Auxiliary Gas Bottles



Model No.	Gas Volume		A	B	C	D	E	F	G	Weight
Gas Bottle	Nominal (Liters)	Actual (Liters)	(mm)	(mm)	(mm)	Hydraulic Ports	(mm)	(mm)	(mm)	(kg)
B7K1155C2K	18.90	19.50		1080						171
B7K1733C2K	28.40	29.00	231.1	1461	41	2" Metric	M16	146	24	222
B7K2310C2K	37.90	38.40	±1.5	1842		SAE Code 62 Flange[2]				273
B7K3465C2K	56.85	57.75		2604						376
B9K2310C2K	37.90	39.37		1289						355
B9K3465C2K	56.85	58.33		1751		2" Metric				461
B9K4620C2K	75.80	77.27	299.2	2213	41	SAE Code 62	M19	178	29	567
B9K5775C2K	94.75	96.23	±2.3	2673		Flange[2]				673
B9K6930C2K	113.70	115.18		3135						779

Notes:

1) For Water Service add "W" after construction code, see "How to Order".

2) See page 60 for complete listing of port options.

Parker Hannifin Corporation
Hydraulic Accumulator Division
Rockford, Illinois USA

Optional Ports

The following ports are available as options on all piston accumulators.

SAE Straight Thd.			Code 62 Flange				NPT			BSPP			ISO 6149-1		
Port Size	Port Code	Min. Bore	Port Size	Port Code Inch	Port Code Metric	Min. Bore	Port Size	Port Code	Min. Bore	Port Size	Port Code	Min. Bore	Port Size	Port Code	Min. Bore
#5	TA	2"	1"	PG	MG	4"	3/8"	UT	2"	3/8"	RA	2"	M14	YA	2"
#6	TB	2"	1¼"	PH	MH	4"	1/2"	UU	2"	1/2"	RB	2"	M18	YB	2"
#8	TC	2"	1½"	PP	MV	6"	3/4"	UV	2"	3/4"	RC	2"	M22	YC	2"
#10	TI	2"	2"	PQ	MQ	6"	1"	UW	3"	1"	RD	3"	M27	YD	2"
#12	TD	2"	2½"	PR	—	7"	1¼"	UX	3"	1¼"	RE	3"	M33	YE	3"
#16	TE	3"	3"	PS	—	9"	1½"	UY	4"	1½"	RF	4"	M42	YF	3"
—	—	—	—	—	—	—	2"	UZ	4"	2"	RG	4"	—	—	—

Notes:

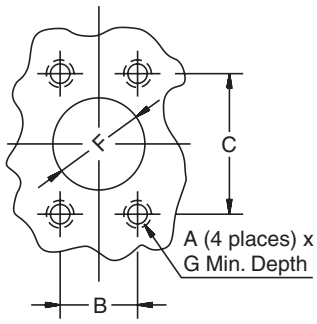
1) 1" thru 2" flanges are to standard SAE Code 62 dimensions, 2-1/2" to "Socket Weld Flange Adapter Pattern", dimensions are shown below. Metric pattern supplied on 345 Bar Metric units unless otherwise specified.

2) BSPT and Metric ports available, consult factory.

SAE 4-Bolt Flange Dimensions

Code 62 (ISO 6162) (thru 2" diameter) – 6000 PSI (410 Bar)

Flange Size		SAE Flange Dimensions (in.)					Metric SAE Flange Dimensions (mm)				
in	mm	A	B	C	F	G	A	B	C	F	G
1½"	38	5/8 - 11	1.438	3.125	1½	1.375	M16	36.5	79.4	38	34.9
2"	50	3/4 - 10	1.750	3.812	2	1.500	M20	44.5	96.8	50	38.1
2½"	—	7/8 - 9	2.312	4.875	2½	1.625	—	—	—	—	—



Seal Material

Seal Code	Polymer	**Recommended Operating Temperature Range	Maximum Temperature with Reduced Life	General Application and Compatibility*
K	Buna Nitrile	-20°F to 165°F -29°C to 74°C	200°F 93°C	Parker's Standard Compound – Compatible with most mineral oil-based fluids
E	Fluorocarbon Elastomer	-10°F to 250°F -23°C to 121°C	400°F 204°C	Compatible with most mineral oil-based fluids at higher temperatures and some exotic fluids
D	Ethylene Propylene	-40°F to 250°F -40°C to 121°C	300°F 149°C	Compatible with most phosphate ester fluids and some synthetic fluids
H	Hydrogenated Nitrile	-25°F to 320°F -32°C to 160°C	350°F 177°C	Compatible with most oil-based and biodegradable fluids, maintains sealing effectiveness at a wide range of temperatures
Q	Low Temp. Nitrile	-45°F to 185°F -43°C to 85°C	200°F 93°C	Compatible with most mineral oil-based fluids and maintains sealing effectiveness at low temperatures

* **Note:** Consult local distributor or factory for fluid compatibility information. Temperature ranges may vary depending upon fluid used in hydraulic system.

** The temperature listed indicates the operating temperature range of the seals, not the accumulator. For the Minimum Design Metal Temperature (MDMT) of ASME certified accumulators, refer to page 56.

Parker Hannifin Corporation
Hydraulic Accumulator Division
Rockford, Illinois USA

Water Service Option (W)

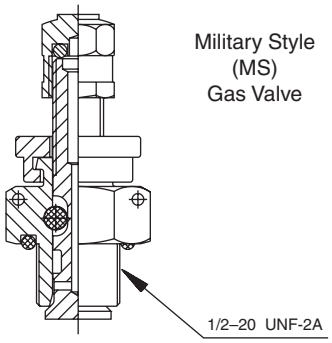
Piston accumulators are available for use with water as the fluid media. Modifications include electroless nickel plating all surfaces and metal parts.

Optional Military Style Gas Valve (M)

2" thru 6" Bore Sizes

A heavy duty (military style) poppet-type gas valve cartridge (Mil. Spec. MS28889-2) is available as an option (M) – specify when ordering.

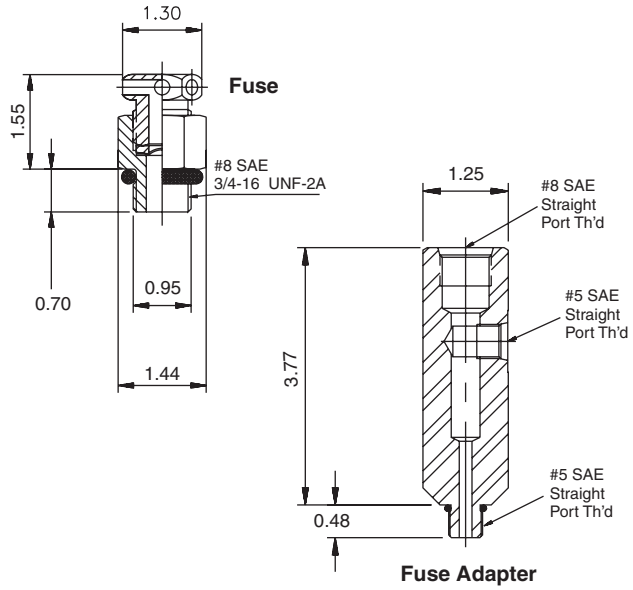
Note: This valve is standard on 7" and 9" bore sizes.



L07689000*

Safety Fuse Options (F)

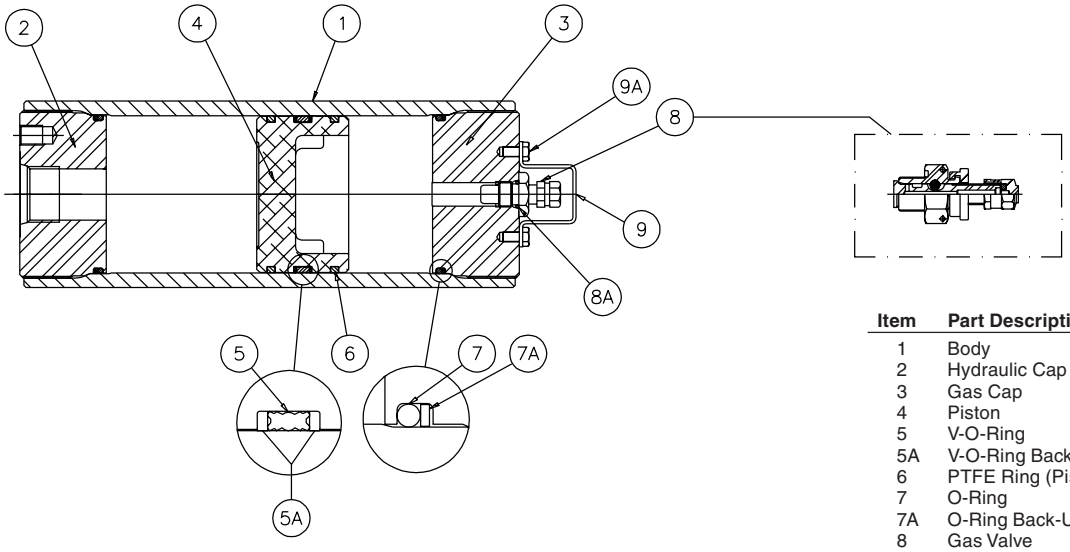
Safety Fuses are used as a safety device on accumulators and gas bottles to prevent over-pressurization of gas due to external heat or hydraulic pressure (set at 140% of maximum system pressure to avoid rupture disk fatigue and premature failure). The rupture disks are calibrated to rupture at a pre-determined pressure. Safety fuses are available on most sizes of piston accumulators. Safety fuses can be installed on all piston accumulators by using a fuse adapter. 4" bore units and above can be equipped with a fuse port machined in the gas cap by specifying the "Safety Fuse Option" (F) at the time of order in the model code, see "How to Order." The safety fuse assembly and/or fuse adapter must be ordered separately.



Description	Part Number
Safety Fuse Assembly[1]	086471xxxx
Replacement Rupture Disks	756003xxxx
Fuse Adapter	1468970002

1) Assembly includes housing and rupture disk, xxxx = pressure setting in 100 psi increments, i.e., for an assembly with a 2000 PSI setting, order P/N 0864712000.

Parts List — Hydraulic Accumulators



Item	Part Description
1	Body
2	Hydraulic Cap
3	Gas Cap
4	Piston
5	V-O-Ring
5A	V-O-Ring Back-Up Washers
6	PTFE Ring (Piston)
7	O-Ring
7A	O-Ring Back-Up Washer
8	Gas Valve
8A	Gas Valve O-Ring
9	Gas Valve Guard
9A	Screw

5000 PSI Seal Kit Numbers (Includes items 5, 5A, 6, 7, 7A, 8A)

Material	Bore Size					
	2"	3"	4"	6"	7"	9"
Buna-Nitrile (Std.)	RK0200K000	RK0300K000	RK0400K000	RK0600K000	RK0700K000	RK0900K000
Fluorocarbon	RK0200E000	RK0300E000	RK0400E000	RK0600E000	RK0700E000	RK0900E000
EPR	RK0200D000	RK0300D000	RK0400D000	RK0600D000	RK0700D000	RK0900D000
Hydrogenated Nitrile	RK0200H000	RK0300H000	RK0400H000	RK0600H000	RK0700H000	Consult Factory
Low Temp Nitrile	RK0200Q000	RK0300Q000	RK0400Q000	RK0600Q000	RK0700Q000	RK0900Q000

Mounting, Charging & Gauging Accessories

Parker offers a wide variety of mounting, charging and gauging accessories. See “Accumulator Accessories.”

Special Options

If your application requires a piston accumulator, gas bottle, or special option that falls outside of Parker’s broad offering, consult your local distributor, Parker representative, or the factory with your specific requirements. Parker has the manufacturing and engineering expertise to design and build piston accumulators to your exacting requirements, from simple modifications of standard units to complete designs. Some example of Parker’s past special designs include:

- Special and Stainless Steel Materials
- Piston Position and Velocity Sensors and Switches
- Special Seals
- Non-Standard Capacities
- Tie Rod Construction
- Special Certifications
- Spring & Weight Loaded

Consult the experts at Parker with your next piston accumulator requirement!

How to Order Series 5000 Piston Accumulators

Piston accumulators and gas bottles can be specified by using the symbols in the chart below to develop a model number. Select only those symbols that represent the features desired, and place them in the sequence indicated by the example at the top of the chart.

Series	Nominal Bore Size	Type of Construction	Options	Capacity	Design Pressure	Design Number	Seal Compound	Hyd. Port Modification		Gas Port Modification	
A	7	K	–	2310	C	1	K	–	–	–	–

Series	
A	Accumulator
B	Gas Bottle

Nominal Bore Size	
2	2 inches
3	3 inches
4	4 inches
6	6 inches
7	7 inches
9	9 inches

Type of Construction	
N	Threaded both ends non-ASME mat'l standard on 2", 3", 4", 6"
K	Threaded both ends A.S.M.E. mat'l standard on 7" & up
L	Same as K with A.S.M.E. approval stamp 7" & up. Available as special on smaller sizes
E	Threaded both ends, CE marked (1 liter and above) or SEP marked (under 1 liter)

Bore Size/Capacity		
0005	2"	5 cu. in. (0.08 liters)
0010		10 cu. in. (0.16 liters)
0015		15 cu. in. (0.25 liters)
0029		29 cu. in. (0.48 liters)
0058		58 cu. in. (0.95 liters)
0029	3"	29 cu. in. (0.48 liters)
0058		58 cu. in. (0.95 liters)
0090		90 cu. in. (1.47 liters)
0116		116 cu. in. (1.90 liters)
0183		183 cu. in. (3.00 liters)
0058	4"	58 cu. in. (0.95 liters)
0116		116 cu. in. (1.90 liters)
0231		1 gal. (3.79 liters)
0347		1½ gal. (5.69 liters)
0578		2½ gal. (9.47 liters)
0231	6"	1 gal. (3.79 liters)
0347		1½ gal. (5.69 liters)
0578		2½ gal. (9.47 liters)
0924		4 gal. (15.1 liters)
1155		5 gal. (18.9 liters)
1733		7½ gal. (28.4 liters)
2310		10 gal. (37.9 liters)
1155	7"	5 gal. (18.9 liters)
1733		7½ gal. (28.4 liters)
2310		10 gal. (37.9 liters)
3465		15 gal. (56.8 liters)
2310	9"	10 gal. (37.9 liters)
3465		15 gal. (56.8 liters)
4620		20 gal. (75.8 liters)
5775		25 gal. (94.6 liters)
6930		30 gal. (114 liters)

Consult factory for other available sizes.

Design Pressure	
C	5000 PSI
H	350 Bar (CE marked only)

Options	
Blank	Standard Gas Cap
W	Water Service
F	SAE Fuse Port *
G	SAE Fuse Port *, Water Service
M	MS28889-2 Gas Valve
L	MS 28889-2 Gas Valve, Water Service
P	Fuse Port* and MS28889-2
R	Fuse Port* and MS28889-2, Water Service

** Safety fuse assembly not included. Order fuse assembly separately.*

Hydraulic and Gas Port Modifications Designated by 2 Digits

1st Digit	Style	2nd Digit	Description	Min. Bore Size
Blank	Std.	Blank	Std.	
T	SAE Straight Thread Ports	A	SAE #5 (1/2 - 20)	2"
		B	SAE #6 (9/16 - 18)	2"
		C	SAE #8 (3/4 - 16)	2"
		D	SAE #12 (1 1/16 - 12)	2"
		E	SAE #16 (1 5/16 - 12)	3"
		F	SAE #20 (1 5/8 - 12)	3"
		G	SAE #24 (1 7/8 - 12)	4"
		H	SAE #32 (2 1/2 - 12)	7"
		I	SAE #10 (7/8 - 14)	2"
P	Flange Code 62		6000 PSI (Code 62)	Min. Bore
		F	3/4"	4"
		G	1"	4"
		H	1 1/4"	4"
		P	1 1/2"	6"
		Q	2"	6"
		R*	2 1/2"	7"
		S*	3"	9"
M	Metric Flange per ISO 6162			
U	NPTF (Not Recommended)	T	3/8"	2"
		U	1/2"	2"
		V	3/4"	2"
		W	1"	2"
		X	1 1/4"	2"
		Y	1 1/2"	4"
		Z	2"	4"
R	BSPP Parallel		BSPP/BSPT	Metric/ISO
B	BSPT Taper Port	A	3/8 - 19	A M14 x 1.5
G	Metric	B	1/2 - 14	B M18 x 1.5
Y	ISO 6149-1	C	3/4 - 14	C M22 x 1.5
		D	1 - 11	D M27 x 2
		E	1 1/4 - 11	E M33 x 2
		F	1 1/2 - 11	F M42 x 2
		G	2 - 11	G M48 x 2

** For socket weld flange. Not available with metric flange.*

Example of Optional Port Accumulator

A	4	N	0231	C	3	K	T	C	U	V
					Non-std. Port		SAE Hyd. Port	#8	NPT Gas Port	3/4"

Design Number	
1	Standard Ports
2	Metric Mounting Holes & Hyd. Port (BSPP/Metric Flange Standard) Specify Optional Ports
3	Optional Port (Hyd. or Gas, See Port Modifications Table)
***	Special Design

Standard Ports Available (See Port Modifications Table if Using Other Than Standard Ports Shown Below)

Bore Size	Standard Ports	Metric (BSPP) Ports
2"	SAE #12	3/4
3"	SAE #12	3/4
4"	SAE #16	1
6"	SAE #16	1
7"	2" Code 62 Flange	2" ISO6162 Flange
9"	2" Code 62 Flange	2" ISO6162 Flange

Seal Compound (See Catalog for Temperature Settings)	
K	Buna Nitrile (Std)
E	Fluoroelastomer
D	EPR
H	Hydrogenated Nitrile
Q	Low Temp.
S	Special (to be specified)

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