EHP2

Carbon steel piston accumulator

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Many years of experience. Years of experience and extensive know-how enable us to provide a comprehensive range of piston accumulators, designed to suit standard as well as special applications in mobile as well as in industrial systems.

With today's increasing energy production costs and world-wide supply shortages, EHP2 piston accumulators offer an efficient, versatile energy source for a wide variety of fluid power systems, Hydraulic Energy Storage.

In practice each application is "special", for instance in some applications the working temperature is extremely variable, some applications require large volumes and small pressure differentials, and some applications operate with corrosion-causing fluids. These are all illustrative examples of where EHP2 piston accumulator is ideal due to its simplicity and reliability. EHP2 piston accumulators offer a versatile energy source for a wide variety of applications such as:

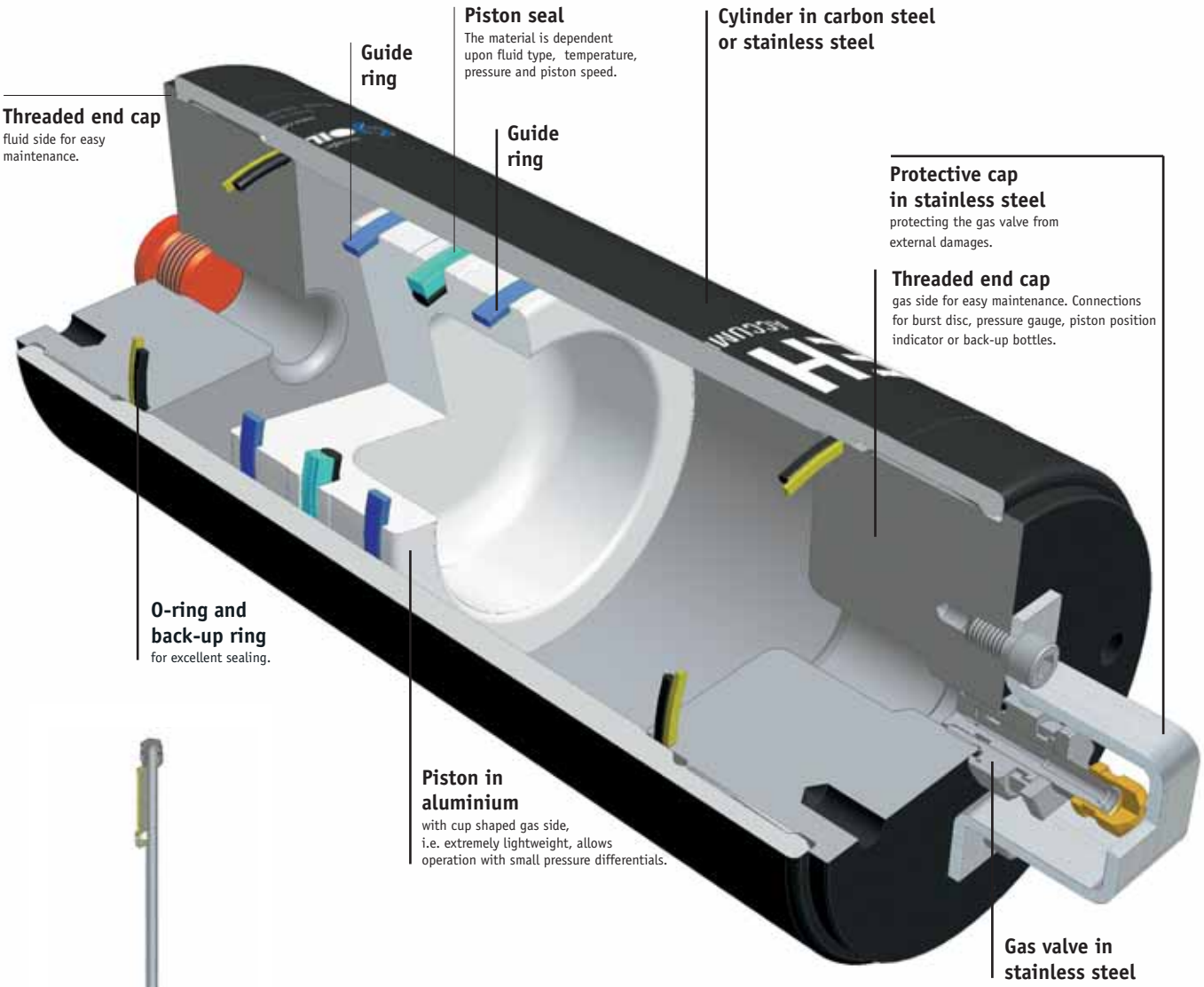
Pulsation dampening and shock absorption. With proper placement in the system, EHP2 piston accumulators can absorb and cushion shocks and surges, and reduce or eliminate the damaging effects of high pressure pumps or rapid opening and closure of the valves, the major reasons for leaks in oil tubings.

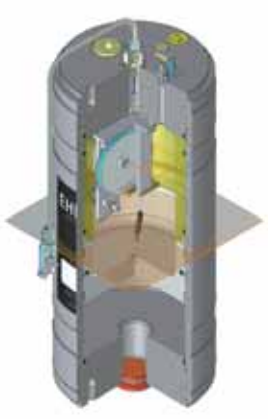
Energy storage/stand-by power. EHP2 piston accumulator stores energy in hydraulic systems, where work cycles are intermittent. This stored energy can supplement system flow during peak demand periods, amplifying the hydraulic system's capacity. Its simplicity and reliability make it an ideal emergency device whenever the system has pump or electric power failure.

Pressure volume compensation/Expansion. Liquids can be stored under constant and precise controlled pressure in the accumulator, and compensate for internal and external leakage in a fluid power system. The accumulator can also absorb volume changes originating from thermal effects in a closed system.

Own design. EHP2 piston accumulators have been developed and designed by Oiltech and consists in principle of a cylinder with end caps, piston and piston seal. Standard material in the cylinder and end caps is carbon steel and painted in eco-friendly, rust-proof, two-component paint (black RAL 9005). They can, however, also be painted in accordance with other specifications, e.g. NORSOK. In applications with water or aggressive fluids and operation in demanding environments such as offshore, the EHP2 piston accumulator is made in stainless steel. Standard material in gas valve and protective cap is stainless steel. Threaded end caps for easy removal for service and maintenance.
Working temperature is -20 °C – +80 °C. Other temperatures are available on request.

CE-marking. EHP2 piston accumulators are CE-marked and designed to the Directive 97/23/EC and EN 14359. All piston accumulators are fully traceable. In addition, the EHP2 piston accumulators are covered by many other approvals, contact the Olaer Group.





Piston position indicator. The piston position indicator is an additional function to the main function of the accumulator, indicating the position of the piston inside the accumulator, thereby ensuring a perfect accumulator operation. The piston position indicator is available with a visual indicator or with electrical monitoring providing 4-20 mA output signal, providing stand-by power during power failure.

EHP2 carbon steel piston accumulators. Max. working pressure 250 bar.

Volume (l)	Model	L (mm)	ØD (mm)	Ød (mm)	Weight (kg)	Oil port (l/min)	Burst disc conn.	Additional conn.
0.5	EHP2 -C-0005-250-080-AF00AA000	264	92	80	8	G¾		
1	EHP2 -C-0010-250-080-AF00AA000	384	92	80	9	G¾		
1	EHP2 -C-0010-250-100-AD00AA000	311	115	100	13	G½		
2	EHP2 -C-0020-250-080-AF00AA000	583	92	80	12	G¾		
2	EHP2 -C-0020-250-100-AF00AA000	438	115	100	15	G½		
3	EHP2 -C-0030-250-080-AF00AA000	782	92	80	14	G¾		
4	EHP2 -C-0040-250-080-AF00AA000	981	92	80	17	G¾		
4	EHP2 -C-0040-250-100-AD00AA000	693	115	100	20	G½		
4	EHP2 -C-0040-250-140-AKAFAAP00	488	160	140	35	G1½	G¼	G¾
6	EHP2 -C-0060-250-100-AH00AA000	948	115	100	25	G1	G¼	G¾
6	EHP2 -C-0060-250-140-AKAFAAP00	618	160	140	40	G1½	G¼	G¾
8	EHP2 -C-0080-250-100-AH00AA000	1202	115	100	30	G1	G¼	G¾
8	EHP2 -C-0080-250-140-AKAFAAP00	748	160	140	44	G1½	G¼	G¾
10	EHP2 -C-0100-250-100-AH00AA000	1457	115	100	35	G1	G¼	G¾
10	EHP2 -C-0100-250-140-AKAFAAP00	878	160	140	49	G1½	G¼	G¾
10	EHP2 -C-0100-250-180-ADADAAP00	643	215	180	86	G ½	G¼	G½
15	EHP2 -C-0150-250-140-AKAFAAP00	1203	160	140	61	G1½	G¼	G¾
15	EHP2 -C-0150-250-180-ADADAAP00	839	215	180	102	G½	G¼	G½
20	EHP2 -C-0200-250-140-AKAFAAP00	1508	160	140	73	G1½	G¼	G¾
20	EHP2 -C-0200-250-180-ADADAAP00	1036	215	180	119	G½	G¼	G½
20	EHP2 -C-0200-250-200-KAKCAAP00	897	228	200	108	SAE2 / G½	G¼	G1
25	EHP2 -C-0250-250-140-AKAFAAP00	1834	160	140	85	SAE2 / G½	G¼	G¾
25	EHP2 -C-0250-250-180-ADADAAP00	1232	215	180	136	G½	G¼	G½
30	EHP2 -C-0300-250-140-AKAFAAP00	2177	160	140	97	SAE2 / G½	G¼	G¾
30	EHP2 -C-0300-250-180-ADADAAP00	1429	215	180	152	G½	G¼	G½
30	EHP2 -C-0300-250-200-KAKCAAP00	1216	228	200	131	SAE2 / G½	G¼	G1
35	EHP2 -C-0350-250-180-ADADAAP00	1625	215	180	169	G½	G¼	G½
40	EHP2 -C-0400-250-200-KAKCAAP00	1534	228	200	155	SAE2 / G½	G¼	G1
40	EHP2 -C-0400-250-180-ADADAAP00	1822	215	180	186	G½	G¼	G½
45	EHP2 -C-0450-250-180-ADADAAP00	2018	215	180	202	G½	G¼	G½
50	EHP2 -C-0500-250-180-ADADAAP00	2215	215	180	219	G½	G¼	G½
50	EHP2 -C-0500-250-200-KAKCAAP00	1852	228	200	178	SAE2 / G½	G¼	G1
50	EHP2 -C-0500-250-250-KAKCAAP00	1324	292	250	263	SAE2 / G½	G¼	G1
55	EHP2 -C-0550-250-180-ADADAAP00	2411	215	180	236	G½	G¼	G½
60	EHP2 -C-0600-250-180-ADADAAP00	2608	215	180	252	G½	G¼	G½
60	EHP2 -C-0600-250-200-KAKCAAP00	2171	228	200	201	SAE2 / G½	G¼	G1
60	EHP2 -C-0600-250-250-KAKCAAP00	1527	292	250	291	SAE2 / G½	G¼	G1
70	EHP2 -C-0700-250-200-KAKCAAP00	2489	228	200	225	SAE2 / G½	G¼	G1
70	EHP2 -C-0700-250-250-KAKCAAP00	1731	292	250	320	SAE2 / G½	G¼	G1
75	EHP2 -C-0750-250-200-KAKCAAP00	2648	228	200	238	SAE2 / G½	G¼	G1
75	EHP2 -C-0750-250-250-KAKCAAP00	1833	292	250	334	SAE2 / G½	G¼	G1
80	EHP2 -C-0800-250-200-KAKCAAP00	2807	228	200	248	SAE2 / G½	G¼	G1
80	EHP2 -C-0800-250-250-KAKCAAP00	1935	292	250	334	SAE2 / G½	G¼	G1
90	EHP2 -C-0900-250-200-KAKCAAP00	3126	228	200	272	SAE2 / G½	G¼	G1
90	EHP2 -C-0900-250-250-KAKCAAP00	2139	292	250	377	SAE2 / G½	G¼	G1
100	EHP2 -C-1000-250-200-KAKCAAP00	3444	228	200	295	SAE2 / G½	G¼	G1
100	EHP2 -C-1000-250-250-KAKCAAP00	2342	292	250	405	SAE2 / G½	G¼	G1
110	EHP2 -C-1100-250-250- KAKCAAP00	2546	292	250	434	SAE2 / G½	G¼	G1
120	EHP2 -C-1200-250-250- KAKCAAP00	2750	292	250	462	SAE2 / G½	G¼	G1
130	EHP2 -C-1300-250-250- KAKCAAP00	2953	292	250	490	SAE2 / G½	G¼	G1
140	EHP2 -C-1400-250-250- KAKCAAP00	3157	292	250	519	SAE2 / G½	G¼	G1
150	EHP2 -C-1500-250-250- KAKCAAP00	3361	292	250	547	SAE2 / G½	G¼	G1
160	EHP2 -C-1600-250-250- KAKCAAP00	3565	292	250	576	SAE2 / G½	G¼	G1
170	EHP2 -C-1700-250-250- KAKCAAP00	3768	292	250	604	SAE2 / G½	G¼	G1
180	EHP2 -C-1800-250-250- KAKCAAP00	3972	292	250	633	SAE2 / G½	G¼	G1
190	EHP2 -C-1900-250-250- KAKCAAP00	4176	292	250	661	SAE2 / G½	G¼	G1
200	EHP2 -C-2000-250-250- KAKCAAP00	4379	292	250	690	SAE2 / G½	G¼	G1
210	EHP2 -C-2100-250-250- KAKCAAP00	4583	292	250	718	SAE2 / G½	G¼	G1
220	EHP2 -C-2200-250-250- KAKCAAP00	4787	292	250	747	SAE2 / G½	G¼	G1

EHP2 carbon steel piston accumulators. Max. working pressure 350 bar.

Volume (l)	Model	L (mm)	ØD (mm)	Ød (mm)	Weight (kg)	Oil port (l/min)	Burst disc conn.	Additional conn.
1	EHP2 -C-0010-350-100-ADADABP00	311	125	100	16	G½	G¼	G½
2	EHP2 -C-0020-350-100-ADADABP00	438	125	100	21	G½	G¼	G½
4	EHP2 -C-0040-350-100-ADADABP00	693	125	100	30	G½	G¼	G½
6	EHP2 -C-0060-350-100-ADADABP00	948	125	100	39	G½	G¼	G½
8	EHP2 -C-0080-350-100-ADADABP00	1202	125	100	47	G½	G¼	G½
10	EHP2 -C-0100-350-100-ADADABP00	1457	125	100	56	G½	G¼	G½
10	EHP2 -C-0100-350-180-ADADABP00	643	220	180	94	G½	G¼	G½
10	EHP2 -C-0100-350-200-ADADABP00	553	245	200	119	G½	G¼	G½
12	EHP2 -C-0120-350-180-ADADABP00	721	220	180	101	G½	G¼	G½
15	EHP2 -C-0150-350-180-ADADABP00	839	220	180	113	G½	G¼	G½
15	EHP2 -C-0150-350-200-ADADABP00	712	245	200	144	G½	G¼	G½
20	EHP2 -C-0200-350-180-ADADABP00	1036	220	180	132	G½	G¼	G½
20	EHP2 -C-0200-350-200-ADADABP00	871	245	200	168	G½	G¼	G½
25	EHP2 -C-0250-350-180-ADADABP00	1232	220	180	152	G½	G¼	G½
25	EHP2 -C-0250-350-200-ADADABP00	1031	245	200	193	G½	G¼	G½
30	EHP2 -C-0300-350-180-ADADABP00	1429	220	180	171	G½	G¼	G½
30	EHP2 -C-0300-350-200-ADADABP00	1190	245	200	218	G½	G¼	G½
35	EHP2 -C-0350-350-180-ADADABP00	1625	220	180	190	G½	G¼	G½
35	EHP2 -C-0350-350-200-ADADABP00	1349	245	200	243	G½	G¼	G½
40	EHP2 -C-0400-350-180-ADADABP00	1822	220	180	209	G½	G¼	G½
40	EHP2 -C-0400-350-200-ADADABP00	1508	245	200	367	G½	G¼	G½
45	EHP2 -C-0450-350-180-ADADABP00	2018	220	180	229	G½	G¼	G½
45	EHP2 -C-0450-350-200-ADADABP00	1667	245	200	292	G½	G¼	G½
50	EHP2 -C-0500-350-180-ADADABP00	2215	220	180	248	G½	G¼	G½
50	EHP2 -C-0500-350-200-ADADABP00	1826	245	200	317	G½	G¼	G½
50	EHP2 -C-0500-350-250-BSAKABP00	1324	318	250	388	SAE2	G¼	G1
55	EHP2 -C-0550-350-180-ADADABP00	2411	220	180	267	G½	G¼	G½
55	EHP2 -C-0550-350-200-ADADABP00	1986	245	200	341	G½	G¼	G½
55	EHP2 -C-0550-350-250-BSAKABP00	1426	318	250	412	SAE2	G¼	G1
60	EHP2 -C-0600-350-180-ADADABP00	2608	220	180	287	G½	G¼	G½
60	EHP2 -C-0600-350-200-ADADABP00	2145	245	200	366	G½	G¼	G½
60	EHP2 -C-0600-350-250-BSAKABP00	1527	318	250	436	SAE2	G¼	G1
65	EHP2 -C-0650-350-200-ADADABP00	2304	245	200	391	G½	G¼	G½
65	EHP2 -C-0650-350-250-BSAKABP00	1629	318	250	460	SAE2	G¼	G1
70	EHP2 -C-0700-350-200-ADADABP00	2463	245	200	415	G½	G¼	G½
70	EHP2 -C-0700-350-250-BSAKABP00	1731	318	250	484	SAE2	G¼	G1
75	EHP2 -C-0750-350-200-ADADABP00	2622	245	200	440	G½	G¼	G½
75	EHP2 -C-0750-350-250-BSAKABP00	1833	318	250	509	SAE2	G¼	G1
80	EHP2 -C-0800-350-200-ADADABP00	2781	245	200	465	G½	G¼	G½
80	EHP2 -C-0800-350-250-BSAKABP00	1935	318	250	533	SAE2	G¼	G1
85	EHP2 -C-0850-350-200-ADADABP00	2940	245	200	490	G½	G¼	G½
90	EHP2 -C-0900-350-200-ADADABP00	3100	245	200	514	G½	G¼	G½
90	EHP2 -C-0900-350-250-BSAKABP00	2139	318	250	581	SAE2	G¼	G1
95	EHP2 -C-0950-350-200-ADADABP00	3259	245	200	539	G½	G¼	G½
95	EHP2 -C-0950-350-250-BSAKABP00	2240	318	250	605	SAE2	G¼	G1
100	EHP2 -C-1000-350-200-ADADABP00	3418	245	200	564	G½	G¼	G½
100	EHP2 -C-1000-350-250-BSAKABP00	2342	318	250	629	SAE2	G¼	G1
110	EHP2 -C-1100-350-250-BSAKABP00	2546	318	250	678	SAE2	G¼	G1
120	EHP2 -C-1200-350-250-BSAKABP00	2750	318	250	726	SAE2	G¼	G1
130	EHP2 -C-1300-350-250-BSAKABP00	2953	318	250	774	SAE2	G¼	G1
140	EHP2 -C-1400-350-250-BSAKABP00	3157	318	250	823	SAE2	G¼	G1
150	EHP2 -C-1500-350-250-BSAKABP00	3361	318	250	871	SAE2	G¼	G1
160	EHP2 -C-1600-350-250-BSAKABP00	3565	318	250	919	SAE2	G¼	G1
170	EHP2 -C-1700-350-250-BSAKABP00	3768	318	250	968	SAE2	G¼	G1
180	EHP2 -C-1800-350-250-BSAKABP00	3972	318	250	1016	SAE2	G¼	G1
190	EHP2 -C-1900-350-250-BSAKABP00	4176	318	250	1064	SAE2	G¼	G1
200	EHP2 -C-2000-350-250-BSAKABP00	4379	318	250	1113	SAE2	G¼	G1
210	EHP2 -C-2100-350-250-BSAKABP00	4583	318	250	1161	SAE2	G¼	G1
220	EHP2 -C-2200-350-250-BSAKABP00	4787	318	250	1209	SAE2	G¼	G1

EHP2 – C – 0004 – 250 – 100 – AK - AF - A - A - P - 0 - 0

Series

Cylinder material

C = carbon steel

S = stainless steel

Nominal volume *(dl)*

Max. working pressure *(bar)*

Bore size *(mm)*

Connections fluid side

Row, column *(See table 1)*

Connection gas side

Row, column *(See table 1)*

Gas valve

A = ½"-20 UNF male with 5/16-32 UNF

C = ½"-20 UNF male with 5/16-32 UNF (690 bar)

D = ½"-20 UNF male with G¼ stainless steel

Piston seal material

A = Standard seal in NBR/AU. Recommended for mineral oils and max. piston speed 0.5 m/sec.

B = High performance seal in NBR/PTFE. Recommended for other fluids and max. piston speed 2.0 m/sec.

Safety device, gas side

A = Burst disc 275 bar/80 °C

B = Burst disc 385 bar/80 °C

C = Burst disc 230 bar/80 °C

D = Burst disc 250 bar/80 °C

E = Burst disc 300 bar/80 °C

P = Without burst disc. Plugged connection.

Vacant position

Special

Z = Customized

SPECIFICATION		A	B	C	D	E	F	G	H	I	K	L
Thread to ISO 228-1 (G)	A	G⅛	G¼	G⅜	G½	G⅝	G¾	G⅞	G1	G1¼	G1½	G2
SAE thread ISO 6162	B	½	¾	1	1¼	1½	2	2½	3			
SAE connection (UN)	D	½-20	9/16-18	¾-16	⅞-14	1 1/16 -12	1 5/16 -12	1⅝-12	1⅞-12	2½-12		
Thread to ISO 6149-1 (M)	E	M10x1	M12x1.5	M14x1.5	M18x1.5	M22x1.5	M27x2	M33x2	M42x2	M48x2		
Combined connection	K	SAE2/ G1½		G1/G½	G½/G½	G½/G¼						
NPT thread to ANSI B1.20.1	F	⅛	¼	⅜	½	⅝	¾	⅞	1	1¼	1½	2

Professional competence as well as advanced technology and extensive knowledge from the industry, allow us to provide many accumulator combinations, which meet your unique needs.

Accessories

A professional choice will improve the hydraulic system operation

The EHP2 piston accumulators can be fitted with accessories to provide optimal efficiency, added reliability in operation, increased dependable performance and to facilitate maintenance and reduce repair costs. Applications and environments are all unique. A professional choice of accessories will improve the hydraulic system operation. For further information, contact the Olaer Group.

Clamps, mounting brackets, damping rings and burst discs

We can provide a wide range of clamps, mounting brackets and damping rings for safe and flexible installation of the EHP2 piston accumulators. All clamps and brackets are available in AISI 316 acid proof steel and electroplated carbon steel.

In addition to the relief valve, which protects the hydraulic system against extremely high pressure levels above maximum pressure, the piston accumulator should be fitted with a burst disc protecting the system against any defect in the control equipment, pressure relief valves or in case of extremely high temperatures such as fire.

Safety block

A safety block between the accumulator and the hydraulic system protects the accumulator against high pressures, facilitating maintenance and repair work as this can be made without stopping the system. Few connections and seals mean less risk for leakage. The safety block can be provided with a relief valve to relief the accumulator during power failure.

Pre-charging assembly

The pre-charging assembly is used to pre-charge, control and expel nitrogen gas from the accumulator. The ideal type of assembly to be used, depends not only on the individual accumulator gas valve but also on other equipment fitted to the system. Our universal pre-charging assembly VGU suits most accumulator makes on the market.

Back-up bottles and support

EHP2 piston accumulator can easily be linked to gas bottles, so called back-up bottles, forming large accumulator systems. This solution is economical compared to installing 100% of the volume in the form of accumulators. Oiltech can customize supports for large piston accumulator systems. Contact the Olaer Group for further information.

Calculation program

Correct dimensioning requires knowledge and experience. Our engineers' know-how and the Olaer Group's accumulator calculation program will provide you with the most efficient accumulator solution for your application.

The Professional Choice
– in Fluid Management

EHP2

Stainless steel piston accumulator

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Piston accumulators

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Working temperature is -20 °C – +80 °C. Other temperatures are available on request.

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Piston seal
The material is dependent upon fluid type, temperature, pressure and piston speed.

Cylinder in carbon steel or stainless steel

Guide ring

Threaded end cap
fluid side for easy maintenance.

Guide ring

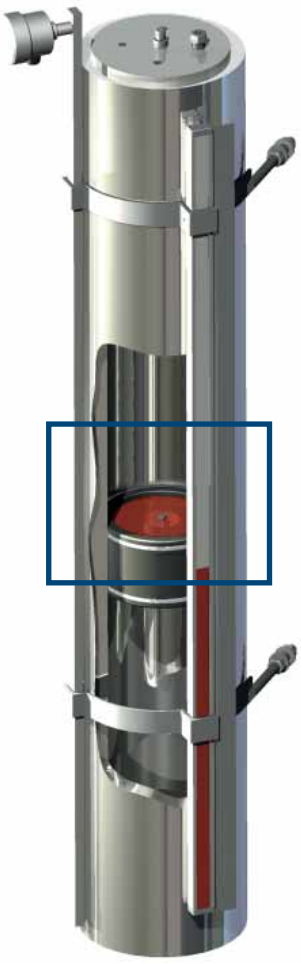
Protective cap in stainless steel
protecting the gas valve from external damages.

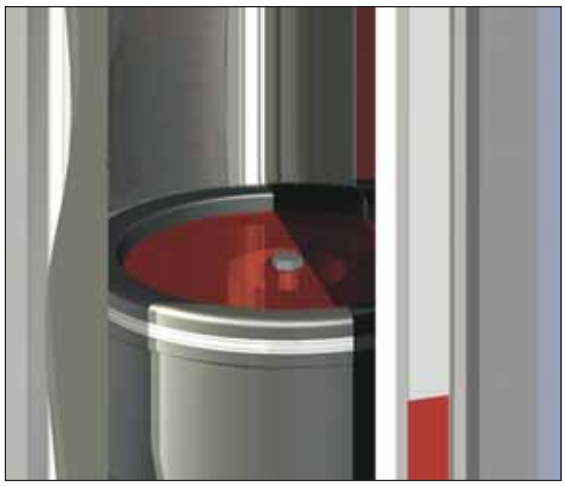
Threaded end cap
gas side for easy maintenance. Connections for burst disc, pressure gauge, piston position indicator or back-up bottles.

O-ring and back-up ring
for excellent sealing.

Piston in aluminium
with cup shaped gas side, i.e. extremely lightweight, allows operation with small pressure differentials.

Gas valve in stainless steel





Piston position indicator. The piston position indicator is an additional function to the main function of the accumulator, indicating the position of the piston inside the accumulator, thereby ensuring a perfect accumulator operation. The piston position indicator is available with a visual indicator or with electrical monitoring providing 4-20 mA output signal, providing stand-by power during power failure.

EHP2 stainless steel piston accumulators. Max. working pressure 210 bar.

Volume (l)	Model	L (mm)	ØD (mm)	Ød (mm)	Weight (kg)	Oil port (l/min)	Burst disc conn.	Additional conn.
0.5	EHP2 –S-0005-210-100-ADADAPP00	302	118	100	17	G½	G¼	G½
1	EHP2 –S-0010-210-100-ADADAPP00	365	118	100	18	G½	G¼	G½
2	EHP2 –S-0020-210-100-ADADAPP00	493	118	100	22	G½	G¼	G½
3	EHP2 –S-0030-210-100-ADADAPP00	620	118	100	25	G½	G¼	G½
4	EHP2 –S-0040-210-100-ADADAPP00	747	118	100	28	G½	G¼	G½
5	EHP2 –S-0050-210-100-ADADAPP00	875	118	100	31	G½	G¼	G½
6	EHP2 –S-0060-210-100-ADADAPP00	1002	118	100	34	G½	G¼	G½
8	EHP2 –S-0080-210-100-ADADAPP00	1257	118	100	40	G½	G¼	G½
10	EHP2 –S-0100-210-100-ADADAPP00	1511	118	100	47	G½	G¼	G½
10	EHP2 –S-0100-210-180-ADADAPP00	655	212	180	83	G½	G¼	G½
12	EHP2 –S-0120-210-100-ADADAPP00	1766	118	100	53	G½	G¼	G½
12	EHP2 –S-0120-210-180-ADADAPP00	734	212	180	90	G½	G¼	G½
15	EHP2 –S-0150-210-100-ADADAPP00	2148	118	100	62	G½	G¼	G½
15	EHP2 –S-0150-210-180-ADADAPP00	852	212	180	99	G½	G¼	G½
20	EHP2 –S-0200-210-180-ADADAPP00	1048	212	180	114	G½	G¼	G½
25	EHP2 –S-0250-210-180-ADADAPP00	1244	212	180	130	G½	G¼	G½
30	EHP2 –S-0300-210-180-ADADAPP00	1441	212	180	145	G½	G¼	G½
35	EHP2 –S-0350-210-180-ADADAPP00	1637	212	180	161	G½	G¼	G½
40	EHP2 –S-0400-210-180-ADADAPP00	1834	212	180	176	G½	G¼	G½
45	EHP2 –S-0450-210-180-ADADAPP00	2030	212	180	192	G½	G¼	G½
50	EHP2 –S-0500-210-180-ADADAPP00	2227	212	180	207	G½	G¼	G½
55	EHP2 –S-0550-210-180-ADADAPP00	2423	212	180	223	G½	G¼	G½
60	EHP2 –S-0600-210-180-ADADAPP00	2620	212	180	238	G½	G¼	G½
65	EHP2 –S-0650-210-180-ADADAPP00	2816	212	180	254	G½	G¼	G½
70	EHP2 –S-0700-210-180-ADADAPP00	3013	212	180	269	G½	G¼	G½
75	EHP2 –S-0750-210-180-ADADAPP00	3209	212	180	285	G½	G¼	G½

EHP2 stainless steel piston accumulators. Max. working pressure 220 bar.

Volume (l)	Model	L (mm)	ØD (mm)	Ød (mm)	Weight (kg)	Oil port (l/min)	Burst disc conn.	Additional conn.
10	EHP2 –S-0100-220-195-ADADAPP00	586	236	195	102	G½	G¼	G½
12	EHP2 –S-0120-220-195-ADADAPP00	653	236	195	110	G½	G¼	G½
15	EHP2 –S-0150-220-195-ADADAPP00	754	236	195	121	G½	G¼	G½
20	EHP2 –S-0200-220-195-ADADAPP00	921	236	195	139	G½	G¼	G½
25	EHP2 –S-0250-220-195-ADADAPP00	1089	236	195	158	G½	G¼	G½
30	EHP2 –S-0300-220-195-ADADAPP00	1256	236	195	176	G½	G¼	G½
35	EHP2 –S-0350-220-195-ADADAPP00	1424	236	195	195	G½	G¼	G½
40	EHP2 –S-0400-220-195-ADADAPP00	1591	236	195	214	G½	G¼	G½
45	EHP2 –S-0450-220-195-ADADAPP00	1758	236	195	232	G½	G¼	G½
50	EHP2 –S-0500-220-195-ADADAPP00	1926	236	195	251	G½	G¼	G½
55	EHP2 –S-0550-220-195-ADADAPP00	2093	236	195	269	G½	G¼	G½
60	EHP2 –S-0600-220-195-ADADAPP00	2261	236	195	288	G½	G¼	G½
65	EHP2 –S-0650-220-195-ADADAPP00	2428	236	195	307	G½	G¼	G½
70	EHP2 –S-0700-220-195-ADADAPP00	2595	236	195	325	G½	G¼	G½
75	EHP2 –S-0750-220-195-ADADAPP00	2763	236	195	344	G½	G¼	G½
80	EHP2 –S-0800-220-195-ADADAPP00	2930	236	195	362	G½	G¼	G½
85	EHP2 –S-0850-220-195-ADADAPP00	3098	236	195	381	G½	G¼	G½
90	EHP2 –S-0900-220-195-ADADAPP00	3265	236	195	400	G½	G¼	G½
100	EHP2 –S-1000-220-195-ADADAPP00	3600	236	195	437	G½	G¼	G½

EHP2 stainless steel piston accumulators. Max. working pressure 250 bar.

Volume (l)	Model	L (mm)	ØD (mm)	Ød (mm)	Weight (kg)	Oil port (l/min)	Burst disc conn.	Additional conn.
0.5	EHP2 –S-0005-250-100-ADADAPP00	302	125	100	20	G½	G¼	G½
1	EHP2 –S-0010-250-100-ADADAPP00	365	125	100	22	G½	G¼	G½
2	EHP2 –S-0020-250-100-ADADAPP00	493	125	100	26	G½	G¼	G½
3	EHP2 –S-0030-250-100-ADADAPP00	620	125	100	31	G½	G¼	G½
4	EHP2 –S-0040-250-100-ADADAPP00	747	125	100	35	G½	G¼	G½
5	EHP2 –S-0050-250-100-ADADAPP00	875	125	100	40	G½	G¼	G½
6	EHP2 –S-0060-250-100-ADADAPP00	1002	125	100	44	G½	G¼	G½
8	EHP2 –S-0080-250-100-ADADAPP00	1257	125	100	53	G½	G¼	G½
10	EHP2 –S-0100-250-100-ADADAPP00	1511	125	100	62	G½	G¼	G½
12	EHP2 –S-0120-250-100-ADADAPP00	1766	125	100	71	G½	G¼	G½
15	EHP2 –S-0150-250-100-ADADAPP00	2148	125	100	85	G½	G¼	G½
20	EHP2 –S-0200-250-250-ALADAAP00	713	309	250	220	G2	G¼	G½
25	EHP2 –S-0250-250-250-ALADAAP00	814	309	250	241	G2	G¼	G½
30	EHP2 –S-0300-250-250-ALADAAP00	916	309	250	262	G2	G¼	G½
35	EHP2 –S-0350-250-250-ALADAAP00	1018	309	250	283	G2	G¼	G½
40	EHP2 –S-0400-250-250-ALADAAP00	1120	309	250	305	G2	G¼	G½
45	EHP2 –S-0450-250-250-ALADAAP00	1222	309	250	326	G2	G¼	G½
50	EHP2 –S-0500-250-250-ALADAAP00	1324	309	250	347	G2	G¼	G½
55	EHP2 –S-0550-250-250-ALADAAP00	1426	309	250	368	G2	G¼	G½
60	EHP2 –S-0600-250-250-ALADAAP00	1527	309	250	389	G2	G¼	G½
65	EHP2 –S-0650-250-250-ALADAAP00	1629	309	250	410	G2	G¼	G½
70	EHP2 –S-0700-250-250-ALADAAP00	1731	309	250	431	G2	G¼	G½
75	EHP2 –S-0750-250-250-ALADAAP00	1833	309	250	452	G2	G¼	G½
80	EHP2 –S-0800-250-250-ALADAAP00	1935	309	250	473	G2	G¼	G½
85	EHP2 –S-0850-250-250-ALADAAP00	2037	309	250	495	G2	G¼	G½
90	EHP2 –S-0900-250-250-ALADAAP00	2139	309	250	516	G2	G¼	G½
95	EHP2 –S-0950-250-250-ALADAAP00	2240	309	250	537	G2	G¼	G½
100	EHP2 –S-1000-250-360-ALAHABP00	1529	430	360	794	G2	G¼	G1
100	EHP2 –S-1000-250-250-ALADAAP00	2342	309	250	558	G2	G¼	G½
105	EHP2 –S-1050-250-250-ALADAAP00	2444	309	250	579	G2	G¼	G½
110	EHP2 –S-1100-250-360-ALAHABP00	1627	430	360	827	G2	G¼	G1
110	EHP2 –S-1100-250-250-ALADAAP00	2546	309	250	600	G2	G¼	G½
115	EHP2 –S-1150-250-250-ALADAAP00	2648	309	250	621	G2	G¼	G½
120	EHP2 –S-1200-250-360-ALAHABP00	1726	430	360	861	G2	G¼	G1
120	EHP2 –S-1200-250-250-ALADAAP00	2750	309	250	642	G2	G¼	G½
125	EHP2 –S-1250-250-250-ALADAAP00	2852	309	250	663	G2	G¼	G½
130	EHP2 –S-1300-250-360-ALAHABP00	1824	430	360	894	G2	G¼	G1
130	EHP2 –S-1300-250-250-ALADAAP00	2953	309	250	685	G2	G¼	G½
135	EHP2 –S-1350-250-250-ALADAAP00	3055	309	250	706	G2	G¼	G½
140	EHP2 –S-1400-250-360-ALAHABP00	1922	430	360	928	G2	G¼	G1
140	EHP2 –S-1400-250-250-ALADAAP00	3157	309	250	727	G2	G¼	G½
145	EHP2 –S-1450-250-250-ALADAAP00	3259	309	250	748	G2	G¼	G½
150	EHP2 –S-1500-250-360-ALAHABP00	2020	430	360	961	G2	G¼	G1
150	EHP2 –S-1500-250-250-ALADAAP00	3361	309	250	769	G2	G¼	G½
155	EHP2 –S-1550-250-250-ALADAAP00	3463	309	250	790	G2	G¼	G½
160	EHP2 –S-1600-250-360-ALAHABP00	2119	430	360	994	G2	G¼	G1
160	EHP2 –S-1600-250-250-ALADAAP00	3565	309	250	811	G2	G¼	G½
165	EHP2 –S-1650-250-250-ALADAAP00	3666	309	250	832	G2	G¼	G½
170	EHP2 –S-1700-250-360-ALAHABP00	2217	430	360	1028	G2	G¼	G1
170	EHP2 –S-1700-250-250-ALADAAP00	3768	309	250	853	G2	G¼	G½
175	EHP2 –S-1750-250-250-ALADAAP00	3870	309	250	874	G2	G¼	G½
180	EHP2 –S-1800-250-360-ALAHABP00	2315	430	360	1061	G2	G¼	G1
180	EHP2 –S-1800-250-250-ALADAAP00	3972	309	250	896	G2	G¼	G½
185	EHP2 –S-1850-250-250-ALADAAP00	4074	309	250	917	G2	G¼	G½
190	EHP2 –S-1900-250-360-ALAHABP00	2413	430	360	1094	G2	G¼	G1
190	EHP2 –S-1900-250-250-ALADAAP00	4176	309	250	938	G2	G¼	G½
195	EHP2 –S-1950-250-250-ALADAAP00	4278	309	250	959	G2	G¼	G½
200	EHP2 –S-2000-250-360-ALAHABP00	2512	430	360	1128	G2	G¼	G1
200	EHP2 –S-2000-250-250-ALADAAP00	4379	309	250	980	G2	G¼	G½

EHP2 stainless steel piston accumulators. Max. working pressure 250 bar.

Volume (l)	Model	L (mm)	ØD (mm)	Ød (mm)	Weight (kg)	Oil port (l/min)	Burst disc conn.	Additional conn.
205	EHP2 –S-2050-250-250-ALADAAP00	4481	309	250	1001	G2	G¼	G½
210	EHP2 –S-2100-250-360-ALAHABP00	2610	430	360	1161	G2	G¼	G1
210	EHP2 –S-2100-250-250-ALADAAP00	4583	309	250	1022	G2	G¼	G½
215	EHP2 –S-2150-250-250-ALADAAP00	4685	309	250	1043	G2	G¼	G½
220	EHP2 –S-2200-250-360-ALAHABP00	2708	430	360	1194	G2	G¼	G1
220	EHP2 –S-2200-250-250-ALADAAP00	4787	309	250	1064	G2	G¼	G½
225	EHP2 –S-2250-250-250-ALADAAP00	4889	309	250	1086	G2	G¼	G½
230	EHP2 –S-2300-250-360-ALAHABP00	2806	430	360	1228	G2	G¼	G1
230	EHP2 –S-2300-250-250-ALADAAP00	4991	309	250	1107	G2	G¼	G½
240	EHP2 –S-2400-250-360-ALAHABP00	2905	430	360	1261	G2	G¼	G1
250	EHP2 –S-2500-250-360-ALAHABP00	3003	430	360	1295	G2	G¼	G1
260	EHP2 –S-2600-250-360-ALAHABP00	3101	430	360	1328	G2	G¼	G1
270	EHP2 –S-2700-250-360-ALAHABP00	3199	430	360	1361	G2	G¼	G1
280	EHP2 –S-2800-250-360-ALAHABP00	3298	430	360	1395	G2	G¼	G1
290	EHP2 –S-2900-250-360-ALAHABP00	3396	430	360	1428	G2	G¼	G1
300	EHP2 –S-3000-250-360-ALAHABP00	3494	430	360	1461	G2	G¼	G1
310	EHP2 –S-3100-250-360-ALAHABP00	3592	430	360	1495	G2	G¼	G1
320	EHP2 –S-3200-250-360-ALAHABP00	3691	430	360	1528	G2	G¼	G1
330	EHP2 –S-3300-250-360-ALAHABP00	3789	430	360	1561	G2	G¼	G1
340	EHP2 –S-3400-250-360-ALAHABP00	3887	430	360	1595	G2	G¼	G1
350	EHP2 –S-3500-250-360-ALAHABP00	3985	430	360	1628	G2	G¼	G1

EHP2 stainless steel piston accumulators. Max. working pressure 275 bar.

Volume (l)	Model	L (mm)	ØD (mm)	Ød (mm)	Weight (kg)	Oil port (l/min)	Burst disc conn.	Additional conn.
10	EHP2 –S-0100-275-195-ADADAPP00	586	250	195	125	G½	G¼	G½
12	EHP2 –S-0120-275-195-ADADAPP00	653	250	195	135	G½	G¼	G½
15	EHP2 –S-0150-275-195-ADADAPP00	754	250	195	151	G½	G¼	G½
20	EHP2 –S-0200-275-195-ADADAPP00	921	250	195	177	G½	G¼	G½
25	EHP2 –S-0250-275-195-ADADAPP00	1089	250	195	202	G½	G¼	G½
30	EHP2 –S-0300-275-195-ADADAPP00	1256	250	195	228	G½	G¼	G½
35	EHP2 –S-0350-275-195-ADADAPP00	1424	250	195	254	G½	G¼	G½
40	EHP2 –S-0400-275-195-ADADAPP00	1591	250	195	280	G½	G¼	G½
45	EHP2 –S-0450-275-195-ADADAPP00	1758	250	195	305	G½	G¼	G½
50	EHP2 –S-0500-275-195-ADADAPP00	1926	250	195	331	G½	G¼	G½
55	EHP2 –S-0550-275-195-ADADAPP00	2093	250	195	357	G½	G¼	G½
60	EHP2 –S-0600-275-195-ADADAPP00	2261	250	195	383	G½	G¼	G½
65	EHP2 –S-0650-275-195-ADADAPP00	2428	250	195	408	G½	G¼	G½
70	EHP2 –S-0700-275-195-ADADAPP00	2595	250	195	434	G½	G¼	G½
75	EHP2 –S-0750-275-195-ADADAPP00	2763	250	195	460	G½	G¼	G½
80	EHP2 –S-0800-275-195-ADADAPP00	2930	250	195	486	G½	G¼	G½
85	EHP2 –S-0850-275-195-ADADAPP00	3098	250	195	511	G½	G¼	G½
90	EHP2 –S-0900-275-195-ADADAPP00	3265	250	195	537	G½	G¼	G½
100	EHP2 –S-1000-275-195-ADADAPP00	3600	250	195	589	G½	G¼	G½

EHP2 stainless steel piston accumulators. Max. working pressure 350 bar.

Volume (l)	Model	L (mm)	ØD (mm)	Ød (mm)	Weight (kg)	Oil port (l/min)	Burst disc conn.	Additional conn.
0,5	EHP2 –S-0005-350-100-ADADAPP00	302	132	100	22	G½	G¼	G½
1	EHP2 –S-0010-350-100-ADADAPP00	365	132	100	26	G½	G¼	G½
2	EHP2 –S-0020-350-100-ADADAPP00	493	132	100	31	G½	G¼	G½
2	EHP2 –S-0020-350-140-ADADAPP00	381	203	140	68	G½	G¼	G½
3	EHP2 –S-0030-350-100-ADADAPP00	620	132	100	37	G½	G¼	G½
3	EHP2 –S-0030-350-140-ADADAPP00	446	203	140	77	G½	G¼	G½
4	EHP2 –S-0040-350-100-ADADAPP00	747	132	100	43	G½	G¼	G½
4	EHP2 –S-0040-350-140-ADADAPP00	511	203	140	85	G½	G¼	G½
5	EHP2 –S-0050-350-100-ADADAPP00	875	132	100	49	G½	G¼	G½
6	EHP2 –S-0060-350-100-ADADAPP00	1002	132	100	55	G½	G¼	G½
6	EHP2 –S-0060-350-140-ADADAPP00	641	203	140	103	G½	G¼	G½
8	EHP2 –S-0080-350-100-ADADAPP00	1257	132	100	67	G½	G¼	G½
8	EHP2 –S-0080-350-140-ADADAPP00	771	203	140	121	G½	G¼	G½
10	EHP2 –S-0100-350-100-ADADAPP00	1511	132	100	79	G½	G¼	G½
10	EHP2 –S-0100-350-140-ADADAPP00	901	203	140	138	G½	G¼	G½
10	EHP2 –S-0100-350-180-ADADAAP00	675	236	180	131	G½	G¼	G½
12	EHP2 –S-0120-350-100-ADADAPP00	1766	132	100	91	G½	G¼	G½
12	EHP2 –S-0120-350-140-ADADAPP00	1031	203	140	156	G½	G¼	G½
15	EHP2 –S-0150-350-100-ADADAPP00	2148	132	100	109	G½	G¼	G½
15	EHP2 –S-0150-350-140-ADADAPP00	1226	203	140	182	G½	G¼	G½
15	EHP2 –S-0150-350-180-ADADAAP00	872	236	180	160	G½	G¼	G½
20	EHP2 –S-0200-350-140-ADADAPP00	1551	203	140	227	G½	G¼	G½
20	EHP2 –S-0200-350-180-ADADAAP00	1068	236	180	189	G½	G¼	G½
25	EHP2 –S-0250-350-140-ADADAPP00	1875	203	140	271	G½	G¼	G½
25	EHP2 –S-0250-350-180-ADADAAP00	1264	236	180	218	G½	G¼	G½
30	EHP2 –S-0300-350-140-ADADAPP00	2200	203	140	315	G½	G¼	G½
30	EHP2 –S-0300-350-180-ADADAAP00	1461	236	180	246	G½	G¼	G½
35	EHP2 –S-0350-350-140-ADADAPP00	2525	203	140	359	G½	G¼	G½
35	EHP2 –S-0350-350-180-ADADAAP00	1657	236	180	275	G½	G¼	G½
40	EHP2 –S-0400-350-180-ADADAAP00	1854	236	180	304	G½	G¼	G½
45	EHP2 –S-0450-350-180-ADADAAP00	2050	236	180	333	G½	G¼	G½
50	EHP2 –S-0500-350-180-ADADAAP00	2247	236	180	361	G½	G¼	G½
55	EHP2 –S-0550-350-180-ADADAAP00	2443	236	180	390	G½	G¼	G½
60	EHP2 –S-0600-350-180-ADADAAP00	2640	236	180	419	G½	G¼	G½
65	EHP2 –S-0650-350-180-ADADAAP00	2836	236	180	448	G½	G¼	G½
70	EHP2 –S-0700-350-180-ADADAAP00	3033	236	180	476	G½	G¼	G½
75	EHP2 –S-0750-350-180-ADADAAP00	3229	236	180	505	G½	G¼	G½
80	EHP2 –S-0800-350-180-ADADAAP00	3426	236	180	534	G½	G¼	G½
85	EHP2 –S-0850-350-180-ADADAAP00	3622	236	180	563	G½	G¼	G½
90	EHP2 –S-0900-350-180-ADADAAP00	3819	236	180	591	G½	G¼	G½
95	EHP2 –S-0950-350-180-ADADAAP00	4015	236	180	620	G½	G¼	G½
100	EHP2 –S-1000-350-180-ADADAAP00	4212	236	180	649	G½	G¼	G½

EHP2 – S – 0004 – 250 – 100 – AK - AF - A - A - P - 0 - 0

Series

Cylinder material
C = carbon steel
S = stainless steel

Nominal volume *(dl)*

Max. working pressure *(bar)*

Bore size *(mm)*

Connections fluid side
Row, column *(See table 1)*

Connection gas side
Row, column *(See table 1)*

Gas valve
A = ½"-20 UNF male with 5/16-32 UNF
C = ½"-20 UNF male with 5/16-32 UNF (690 bar)
D = ½"-20 UNF male with G¼ stainless steel

Piston seal material
A = Standard seal in NBR/AU. Recommended for mineral oils and max. piston speed 0.5 m/sec.
B = High performance seal in NBR/PTFE. Recommended for other fluids and max. piston speed 2.0 m/sec.

Safety device, gas side
A = Burst disc 275 bar/80 °C
B = Burst disc 385 bar/80 °C
C = Burst disc 230 bar/80 °C
D = Burst disc 250 bar/80 °C
E = Burst disc 300 bar/80 °C
P = Without burst disc. Plugged connection.

Vacant position

Special
Z = Customized

SPECIFICATION		A	B	C	D	E	F	G	H	I	K	L
Thread to ISO 228-1 (G)	A	G⅛	G¼	G⅜	G½	G⅝	G¾	G⅞	G1	G1¼	G1½	G2
SAE thread ISO 6162	B	½	¾	1	1¼	1½	2	2½	3			
SAE connection (UN)	D	½-20	9/16-18	¾-16	⅞-14	1 1/16 -12	1 5/16 -12	1⅝-12	1⅞-12	2½-12		
Thread to ISO 6149-1 (M)	E	M10x1	M12x1.5	M14x1.5	M18x1.5	M22x1.5	M27x2	M33x2	M42x2	M48x2		
Combined connection	K	SAE2/ G1½		G1/G½	G½/G½	G½/G¼						
NPT thread to ANSI B1.20.1	F	⅛	¼	⅜	½	⅝	¾	⅞	1	1¼	1½	2

Professional competence as well as advanced technology and extensive knowledge from the industry, allow us to provide many accumulator combinations, which meet your unique needs.

Accessories

A professional choice will improve the hydraulic system operation

The EHP2 piston accumulators can be fitted with accessories to provide optimal efficiency, added reliability in operation, increased dependable performance and to facilitate maintenance and reduce repair costs. Applications and environments are all unique. A professional choice of accessories will improve the hydraulic system operation. For further information, contact the Olaer Group.

Clamps, mounting brackets, damping rings and burst discs

Oiltech can provide a wide range of clamps, mounting brackets and damping rings for safe and flexible installation of the EHP2 piston accumulators. All clamps and brackets are available in AISI 316 acid proof steel and electroplated carbon steel.

In addition to the relief valve, which protects the hydraulic system against extremely high pressure levels above maximum pressure, the piston accumulator should be fitted with a burst disc protecting the system against any defect in the control equipment, pressure relief valves or in case of extremely high temperatures such as fire.

Safety block

A safety block between the accumulator and the hydraulic system protects the accumulator against high pressures, facilitating maintenance and repair work as this can be made without stopping the system. Few connections and seals mean less risk for leakage. The safety block can be provided with a relief valve to relief the accumulator during power failure.

Pre-charging assembly

The pre-charging assembly is used to pre-charge, control and expel nitrogen gas from the accumulator. The ideal type of assembly to be used, depends not only on the individual accumulator gas valve but also on other equipment fitted to the system. Our universal pre-charging assembly VGU suits most accumulator makes on the market.

Back-up bottles and support

EHP2 piston accumulator can easily be linked to gas bottles, so called back-up bottles, forming large accumulator systems. This solution is economical compared to installing 100% of the volume in the form of accumulators.

Oiltech can customize supports for large piston accumulator systems. Contact the Olaer Group for further information.

Calculation program

Correct dimensioning requires knowledge and experience. Our engineers' know-how and the Olaer Group's accumulator calculation program will provide you with the most efficient accumulator solution for your application.