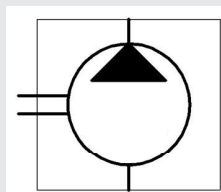


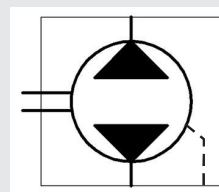


Clockwise
Counterclockwise
Bidirectional

R, L



B



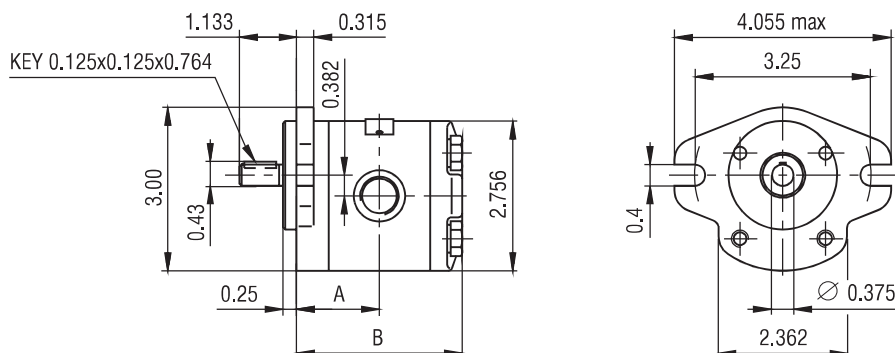
Hydraulic Gear Pumps

High Performance Version

GP1 Pumps - basic design dimensions in inches

GP1-*R-SAVC-SU*U*-N

L
B

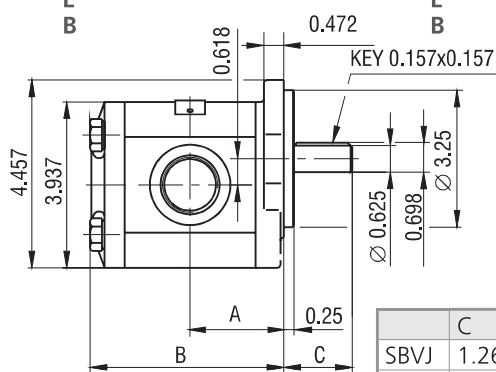


Displacement [in ³ /rev]	code	Speed [rpm] MIN	MAX	Dimens. [in] A	B	Displacement [in ³ /rev]	code	Speed [rpm] MIN	MAX	Dimens. [in] A	B	Displacement [in ³ /rev]	code	Speed [rpm] MIN	MAX	Dimens. [in] A	B
0.052	0,8	800	5000	1.28	2.73	0.202	3,3	500	4000	1.46	3.09	0.379	6,2	500	3500	1.68	3.53
0.077	1,2	800	5000	1.31	2.79	0.220	3,6	500	4000	1.49	3.13	0.428	7	500	3000	1.73	3.65
0.103	1,6	600	4500	1.34	2.85	0.268	4,4	500	4000	1.54	3.25	0.481	7,9	500	3000	1.80	3.76
0.127	2,1	600	4500	1.37	2.91	0.292	4,8	500	3800	1.57	3.31	0.610	10	500	1800	1.95	4.07
0.153	2,5	500	4000	1.41	2.97	0.354	5,8	500	3800	1.65	3.46	0.720	11,8	500	1800	2.09	4.32

GP2 Pumps - basic design dimensions in inches

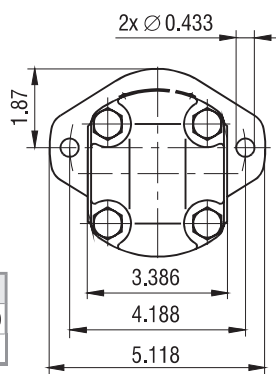
GP2-*R-SBVJ-SU*U*-N

L
B



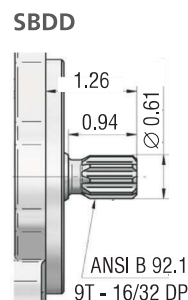
GP2-*R-SBVY-SU*U*-N

L
B



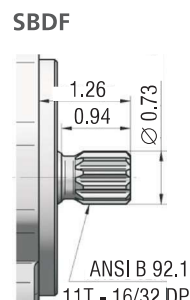
GP2-*R-SBDD-SU*U*-N

L
B



GP2-*R-SBDF-SU*U*-N

L
B



Displacement [in ³ /rev]	code	Speed [rpm] MIN	MAX	Dimens. [in] A	B	Displacement [in ³ /rev]	code	Speed [rpm] MIN	MAX	Dimens. [in] A	B	Displacement [in ³ /rev]	code	Speed [rpm] MIN	MAX	Dimens. [in] A	B
0.246	4	500	4000	1.67	3.39	0.610	10	500	3600	1.86	3.75	1.344	22	500	3000	2.23	4.50
0.305	5	500	4000	1.70	3.45	0.737	12	500	3600	1.92	3.88	1.535	25	500	2800	2.32	4.69
0.367	6	500	4000	1.73	3.51	0.982	16	500	3200	2.04	4.13	1.905	31	500	2200	2.51	5.06
0.491	8	500	3600	1.80	3.63	1.228	20	500	3200	2.17	4.38						

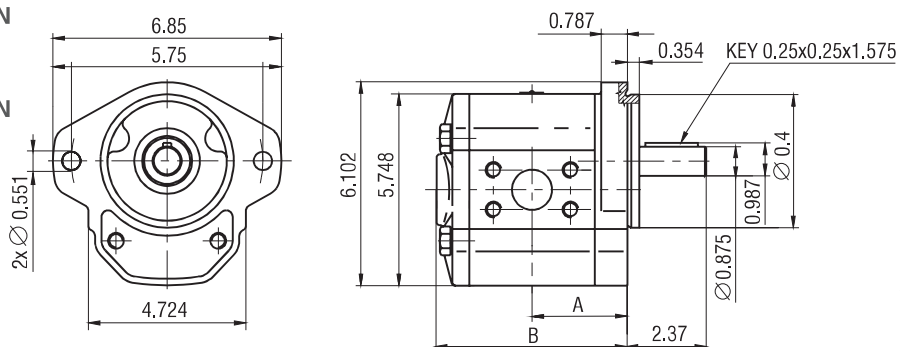
GP3 Pumps - basic design dimensions in inches

GP3-*R-SCVO-SU*U*-N

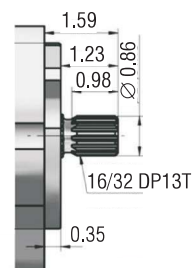
L
B

GP3-*R-SCDN-SU*U*-N

L
B



SCDN



Displacement [in ³ /rev]	code	Speed [rpm] MIN	MAX	Dimens. [in] A	B	Displacement [in ³ /rev]	code	Speed [rpm] MIN	MAX	Dimens. [in] A	B	Displacement [in ³ /rev]	code	Speed [rpm] MIN	MAX	Dimens. [in] A	B
0.62	10	400	3200	2.17	4.35	1.68	27	350	3200	2.41	4.82	3.76	61	350	2000	2.87	5.75
0.84	13,5	400	3200	2.22	4.45	2.08	34	350	3000	2.50	5.00	4.34	71	350	1800	3.00	6.00
1.06	17	350	3200	2.27	4.55	2.65	43	350	2500	2.63	5.26	5.00	82	350	1800	3.15	6.29
1.37	22,5	350	3200	2.35	4.71	3.14	51	350	2500	2.74	5.47	6.10	100	350	1800	3.40	6.77

GP2 - 12 R - SBVJ - S UE UD - N						Seals*	
Gear pump Frame Size						NBR	
Displacement						Pressure port* - see Table Ports	
GP1		GP2		GP3		Suction port* - see Table Ports	
in ³ /rev	code	in ³ /rev	code	in ³ /rev	code	Ports orientation* Ports in the housing	
0.052	0,8	0.246	4	0.62	10	S	
0.077	1,2	0.305	5	0.84	13,5		
0.103	1,6	0.367	6	1.06	17	SAVC	
0.127	2,1	0.491	8	1.37	22,5		
0.153	2,5	0.610	10	1.68	27	SBVJ SBVY SBDD SBDF	
0.202	3,3	0.737	12	2.08	34		
0.220	3,6	0.982	16	2.65	43	SCVO SCDN	
0.268	4,4	1.228	20	3.14	51		
0.292	4,8	1.344	22	3.76	61	Flange - Shaft*	
0.354	5,8	1.535	25	4.34	71		
0.379	6,2	1.905	31	4.00	82	GP1	
0.428	7			6.10	100		
0.481	7,9					GP2	
0.610	10						
0.720	11,8					GP3	
						Direction of rotation	
						Counterclockwise	
						Clockwise	
						Bidirectional	

*Other options in the complete catalogue

Ports

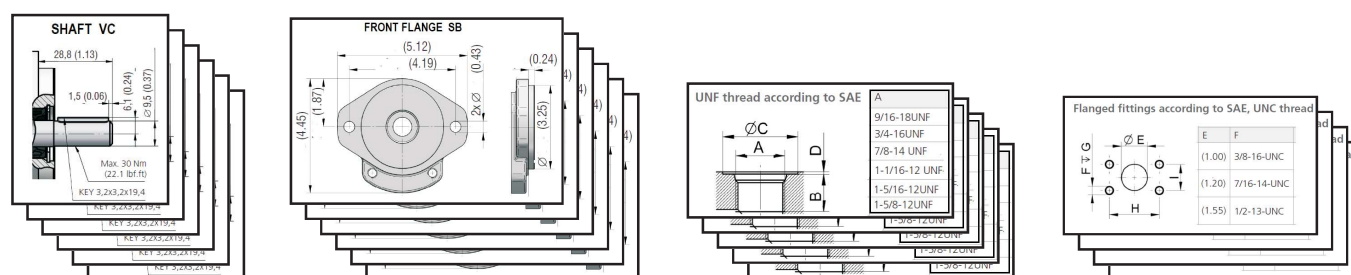
PORTS of the pumps S ⇒ suction port P ⇒ pressure port						A	B	C	D	E	Dimensions A, B, C, D, E [in]
						UB	9/16-18 UNF	0.51	0.97	0.04	
						UC	3/4-16 UNF	0.51	0.97	0.04	
						UD	7/8-14 UNF	0.63	1.34	0.04	
						UE	1-1/16-12 UNF	0.75	1.61	0.04	
						UH	1-5/16-12 UNF	0.91	1.93	0.04	
						UI	1-5/8-12 UNF	0.91	2.28	0.04	
						Ports type U*					
						AB	3/8-16-UNC	0.87	1.87	0.87	
						AC	3/8-16-UNC	0.87	2.06	1.03	
						AD	7/16-14-UNC	1.14	2.31	1.19	
						AE	1/2-13-UNC	1.06	2.75	1.41	
						Ports type A*					
						Description "< 17" means: for pumps with code of displacement under 17					

Complete Catalogue

Many different Shafts - Flanges - Ports options are available - see complete catalogue.

Find there also other technical details as temperature range, suitable viscosity, ...

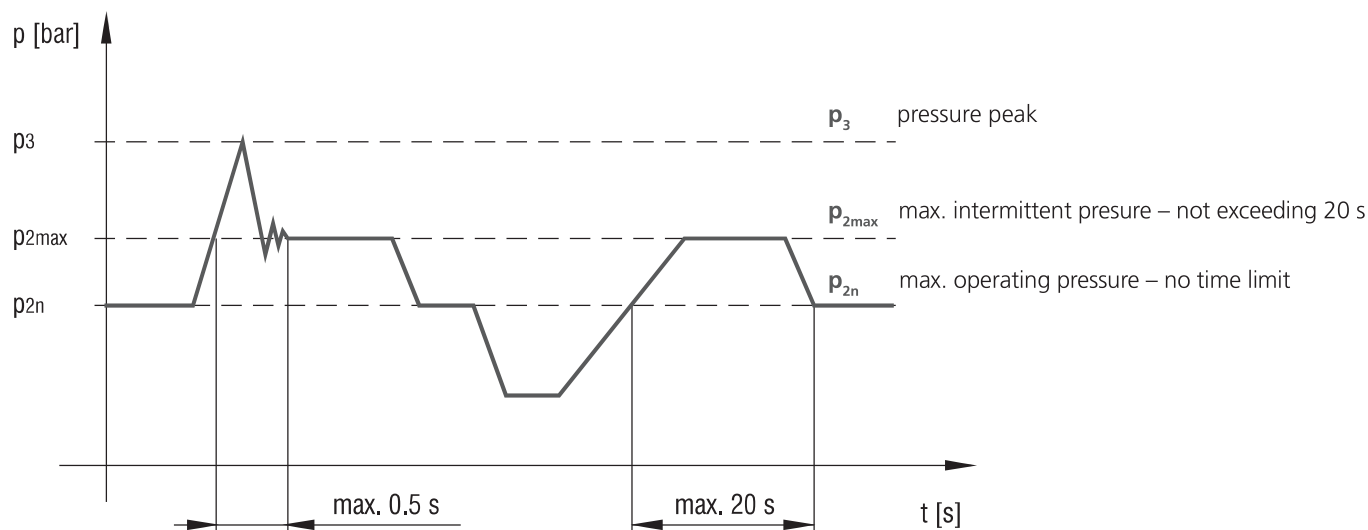
<http://www.argo-hytos.com/products/hydraulic-drives.html>



Maximal operating pressure p_{2n}

GP1	Displacement [in³/rev]	0.052	0.077	0.103	0.127	0.153	0.202	0.220	0.268	0.292	0.354	0.379	0.428	0.481	0.610	0.720
	Pressure [PSI]	4060						3770	3625	3335	2900	2610	2465	2320	1450	
GP2	Displacement [in³/rev]	0.246	0.305	0.367	0.491	0.610	0.737	0.982	1.228	1.344	1.535	1.905				
	Pressure [PSI]	4060				3770			3480	3335	2900	2175				
GP3	Displacement [in³/rev]	0.62	0.84	1.06	1.37	1.68	2.08	2.65	3.14	3.76	4.34	5.00	6.10			
	Pressure [PSI]	3915	4205					4060	3915	3625	3335	2900	2610			

Pressure load



Multiple Pumps

Gear pumps are suitable for multiple setups, whereby the drive shaft for the 1st pump is extended to a second and even a 3rd pump. A coupling is fitted between each pair of pumps. In most cases each pump is isolated from its neighbor, i.e. the suction ports are separate from one another. A common suction port is also possible as an option.

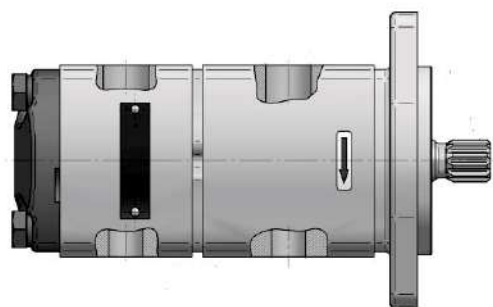
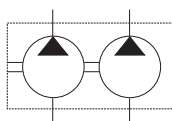
Caution: Basically, the specifications for the single pumps apply, but with certain restrictions:

Max. / Min. speed

– the limit of any pump must not be exceeded.

Torque

– the shaft load of the first pump corresponds to the sum of the torques of all the pumps.



Examples of Multiple Pumps

Double pump	Triple pumps
GP1-0,8/0,8R-SAVC-SHDHD/HDHD-N	GP2-12/4/4R-SBVJ-SGDGC/GCGC/GCGC-N GP2-12/4/GP1-2,5R-SBVJ-SGDGC/GCGC/GBGB-N

Special Versions

Customized version	Low speed pumps GP1
Customized versions with special flanges, shafts and ports can be developed for reasonable quantity.	The lowest speed of our special version „Low speed pumps GP1“ is 50 rpm. Ask our office for this pump version.