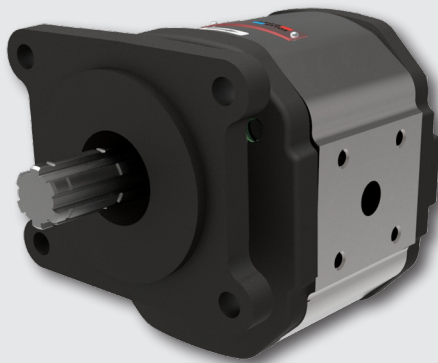
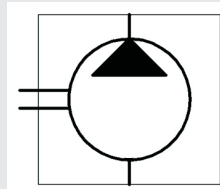




Clockwise
Counterclockwise

R, L



Hydraulic Gear Pumps

High Performance Version

Example:

GP2 - 12 R - SBVJ - S UE UD - N9

Gear pump
Frame Size

GP1
GP2
GP3

Displacement

GP1		GP2		GP3	
in ³ /rev	code	in ³ /rev	code	in ³ /rev	code
0.061	1	0.275	4,5	1.37	22,5
0.076	1,25	0.384	6,3	1.71	28
0.098	1,6	0.500	8,2	1.95	32
0.122	2	0.732	12	2.56	42
0.153	2,5	0.976	16	3.05	50
0.192	3,15	1.159	19	3.66	60
0.223	3,65	1.526	25		
0.256	4,2	1.953	32		
0.305	5				
0.348	5,7				
0.372	6,1				
0.452	7,4				
0.488	8				

Seal
NBR

Pressure port*
- see Table Ports

Suction port*
- see Table Ports

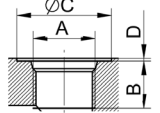
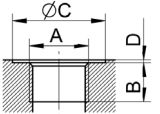
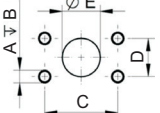
Ports orientation*
Ports in the housing

Flange - Shaft*
GP1
GP2
GP3

Direction of rotation
Counterclockwise
Clockwise

*Other options in the complete catalogue

Ports

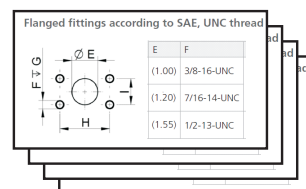
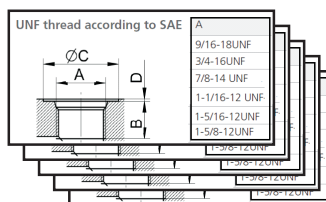
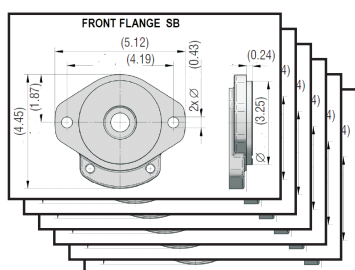
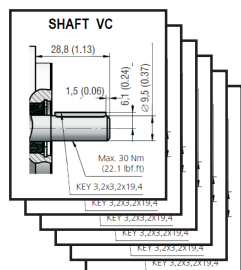
PORTS of the pumps S ⇒ suction port P ⇒ pressure port							A	B	C	D	E	Dimensions A, B, C, D, E [in]
GP3 S	GP3 P	GP2 S	GP2 P	GP1 S	GP1 P							
					1-6,1	Ports type U*	UB	9/16-18UNF	0.51	0.97	0.04	 UNF thread according to SAE
				1-6,1	7,4-8		UC	3/4-16 UNF	0.51	0.97	0.04	
				7,4-8			UD	7/8-14 UNF	0.67	1.34	0.04	
		4,5-25	4,5-32				UE	1-1/16-12 UNF	0.75	1.61	0.04	
		32					UH	1-5/16-12 UNF	0,91	1.93	0.04	
22,5-28	22,5-60					Ports type G*	GD	BSPP G3/4	0.63	1.54	0.04	 BSPP pipe thread according to 228-1
32-60							GE	BSPP G1	0.71	1.77	0.04	
22,5-28	22,5-60					Ports type A*	AB	3/8-16 UNC	0.87	1.87	0.87	 UNC thread according to SAE
32-60							AC	3/8-16 UNC	0.87	2.06	1.03	

Complete Catalogue

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

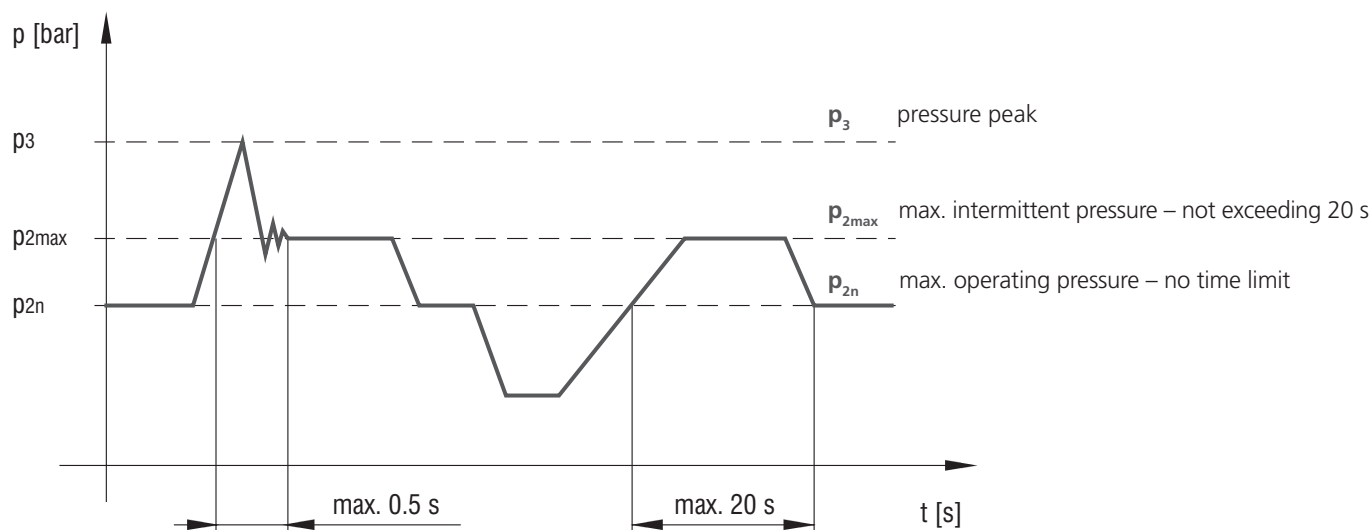
Find there also other technical details as temperature range, suitable viscosity, ...

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



Maximal operating pressure p _{2n}														
GP1	Displacement [in³/rev]	0.061	0.076	0.098	0.122	0.153	0.192	0.223	0.256	0.305	0.348	0.372	0.452	0.488
	Pressure [PSI]	3625									2900		2610	2175
GP2	Displacement [in³/rev]	0.275	0.384	0.500	0.732	0.976	1.159	1.526	1.953					
	Pressure [PSI]	3625					2900	2320	1740					
GP3	Displacement [in³/rev]	1.37	1.71	1.95	2.56	3.05	3.66							
	Pressure [PSI]	3625			3335	2683	2175							

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.

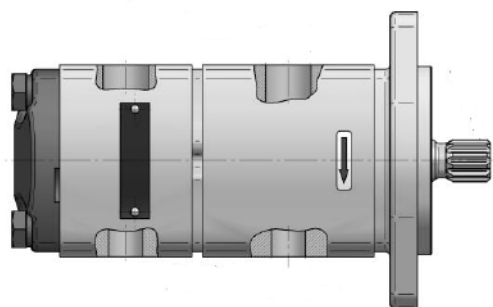
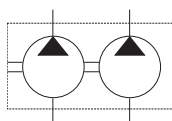
Caution: Basically, the specifications for the single pumps apply, but with certain restrictions:

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
GP1-1,2/1,2R-SAVC-SGBGB/GBGB-N9	GP2-12/4/4R-SBVJ-SGDGC/GCGC/GCGC-N9 GP2-12/4/GP1-2,5R-SBVJ-SGDGC/GCGC/GBGB-N9

Special Versions

Customized version	Low speed pumps GP1
Customized versions with special flanges, shafts and ports are handled individually.	The lowest speed of our special version „Low speed pumps GP1 “ is 50 rpm.