



WA series
12 to 180 cc



The W/WA pumps were developed to satisfy the needs of both the industrial hydraulics market :

Hydraulic power packs, units for machine tools etc.; and of the mobile market: construction equipment, drilling machines, mobile cranes etc...

The WA series (SAE version) are an addition to the W pumps range (ISO version) which exist in models from 5 to 125 cc.

► Advantages

- High speed (from 150 up to 3000 tr/min depending on the displacement)
- Maximum pressure up to 5800 psi (400 bar) continuous - 6525 psi (450 bar) peak - while maintaining a high global efficiency at low noise level
- Self-priming and self-suction pumps
- Range of displacements of 0.73 to 11.02 cu.in (12 to 180 cc)
- FKM seals as standard (NBR on request)

► Characteristics and performances

Pump model	Displacement	continuous rotation speed (1)	Max. pressure continuous/peak (2)	Theoretical torque at 5100 psi (350 bar)	Max. flow	Weight
	cu.in (cm ³)	(rpm)	psi (bar)	lbf ft (m.N)	gpm (l/min)	lbs (Kg)
WA12	0.73 (12)	3150	5800 / 6525 (400 / 450)	42 (67)	10 (37.80)	14.3 (6.5)
WA18	1.10 (18)	3150	5800 / 6525 (400 / 450)	74 (100)	15 (56.70)	14.3 (6.5)
WA25	1.52 (24.9)	2500	5800 / 6525 (400 / 450)	102 (139)	16.44 (62.25)	25 (11.5)
WA32	1.96 (32.1)	2500	5800 / 6525 (400 / 450)	132 (179)	21.20 (80.25)	25 (11.5)
WA41	2.51 (41.1)	2250	5800 / 6525 (400 / 450)	169 (229)	24.41 (92.40)	25 (11.5)
WA45	2.77 (45.4)	2300	5800 / 6525 (400 / 450)	187 (253)	27.60 (104.4)	40 (18)
WA50	3.07 (50.3)	2300	5800 / 6525 (400 / 450)	207 (280)	30.60 (115.7)	40 (18)
WA63	3.74 (63)	2250	5800 / 6525 (400 / 450)	259 (351)	30.56 (145)	40 (18)
WA80	4.91 (80.4)	2300	5800 / 6525 (400 / 450)	330 (448)	48.87 (185)	51 (23)
WA90	5.49 (90)	2100	5800 / 6525 (400 / 450)	370 (501)	49.93 (189)	51 (23)
WA108 R	6.61 (108.3)	2150	5800 / 6525 (400 / 450)	445 (603)	61.55 (233)	77 (35)
WA125	7.65 (125.4)	2100	5800 / 6525 (400 / 450)	515 (699)	69.78 (263)	77 (35)
WA160	9.76 (160)	1850	5800 / 6525 (400 / 450)	657 (891)	78.20 (296)	103.6 (47)
WA180	11.02 (180.6)	1750	5800 / 6525 (400 / 450)	742 (1006)	83.78 (316)	103.6 (47)

(1) At absolute pressure 14.5 psi (1 bar), ISO V646 fluid at 77°F (25°C).

(2) Intermittent 5%.

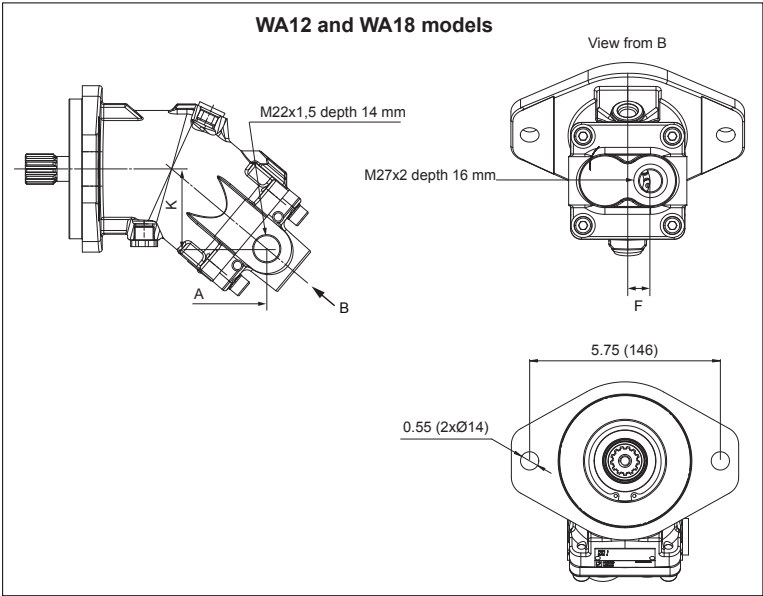
► Order code system

WA	...	C	S1	R	U2	..	F
01	02	03	04	05	06	07	08

To obtain the code for your motor, complete the different parameters 02 and 07 according to the options you require.

SH / CW : for clockwise
SIH / CCW : for counterclockwise

Choice of the displacement :
12 - 18 - 25 - 32 - 41 - 45 - 50 - 63 - 80 - 90 - 108R - 125 - 160 - 180.



Pump	A	B	D	F	G	I	K	M	N	P	R	S	T
WA12 WA18	5.28 (134.1)	0.31 (7.9)	1.65 (41.9)	0.67 (17)	-	4 (101.6)	2.28 (58)	-	-	-	-	SAE - B 2 bolts 5.75 (146)	0.55 (14)
WA25	6.21 (157.8)		2.20 (56)	0.87 (22)	1.87 (47.6)	5 (127)	2.67 (66)	1.59 (40.5)	0.72 (18.2)	0.87 (22.2)	0.75 (19)	SAE - C 4 bolts 6.38 (162)	0.57 (14.3)
WA32 WA41	6.46 (164)						2.80 (71)						
WA45 to WA63	7.45 (189.2)						2.32 (59)	1.18 (30)	2.07 (52.5)	3.35 (85)	2 (50.8)		
WA80 WA90	8.47 (215.2)		2.68 (68)	1.38 (35)	2.31 (58.7)	3.82 (97)	2.25 (57.2)	1.09 (27.8)	1.19 (30.2)	1.26 (32)			
WA108 R WA125	9.25 (235)		3.35 (85)	1.65 (42)	3.06 (77.8)	3.97 (100.8)	2.63 (66.7)	1.25 (31.8)	1.69 (42.9)	2.01 (51)	SAE - D 4 bolts 9 (228.6)	0.83 (21)	
WA160 WA180	10.54 (267.7)		2.68 (68)	1.95 (49.5)	3.06 (77.8)				4.16 (105.7)	1.69 (42.9)			2.01 (51)

Pump	Splined shaft	H1	Outlet 6000 PSI	Inlet 3000 PSI	Impl 1	Impl 2	Impl 3	U1 / U2
WA12	13T-16/32 dp SAE B	1.32 (33.3)	M22x1.5	M27x2	-	-	5/16"-18 UNC	9/16"-18 UNF
WA18					-	-		
WA25		1.89 (48)	SAE ½"	SAE ¾"	M8x1.25 depth 15	M10x1.5 prof 17	7/16"-14 UNC	3/4"-16 UNF
WA32								
WA41								
WA45								
WA50								
WA63	14T-12/24 dp SAE C	SAE ¾"	SAE 1"	M10x1.5 depth 17	M12x1.75 depth 20			
WA80								
WA90								
WA108 R	13T-8/16 dp SAE D	2.64 (67)	SAE 1" ¼	SAE 2"	1/2"-13 UNC	1/2"-13 UNC	5/8"-11 UNC	7/8"-14UNF
WA125								
WA160								
WA180								

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