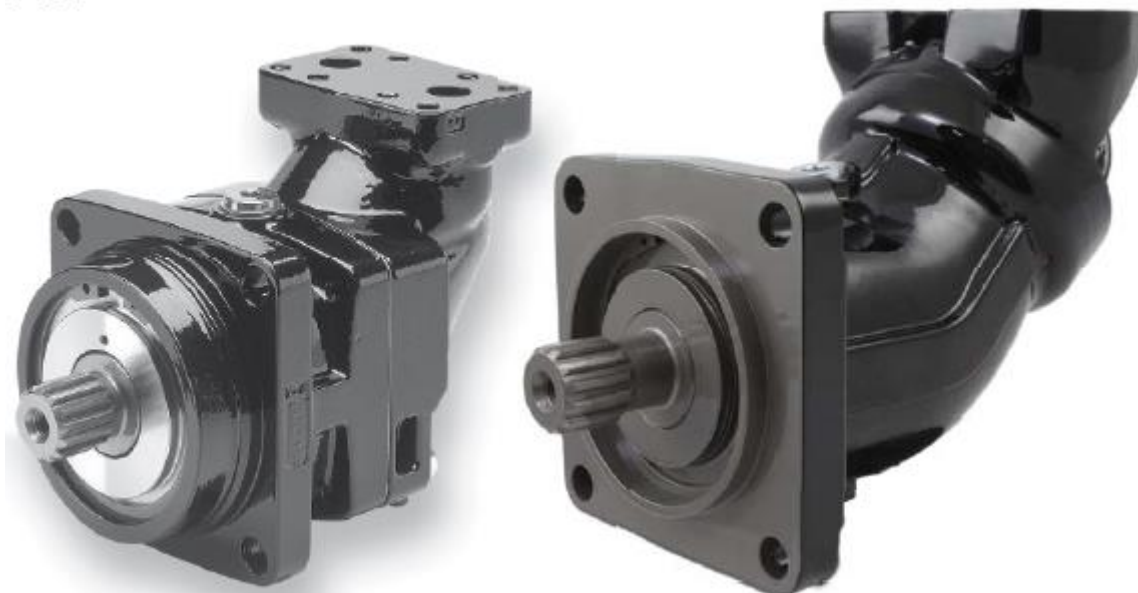
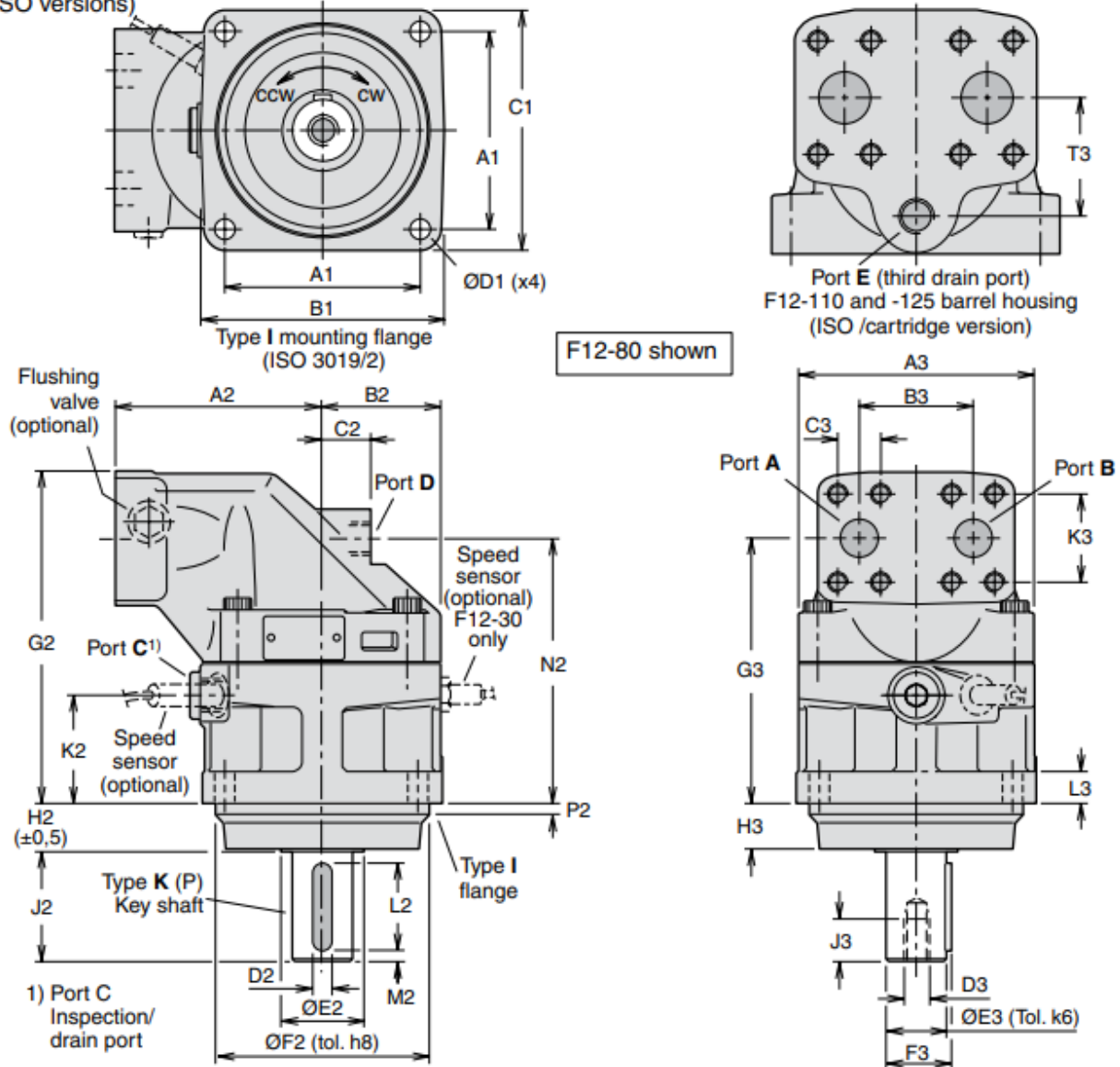


F12

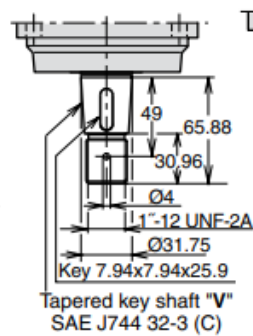


Frame size F12	-030	-040	-060	-080	-090	-110	-125	-152	-162	-182	-250
Displacement [cm ³ /rev]	30.0	40.0	59.8	80.4	93.0	110.1	125.0	149.8	163.1	179.8	242
Operating pressure ³⁾											
max intermittent ¹⁾ [bar]	500	480	500	480	420	480	480	480	480	480	420
max continuous [bar]	450	420	450	420	350	420	420	420	420	420	350
Motor operating speed ³⁾ [rpm]											
max intermittent ¹⁾	8600	6700	6400	5300	5000	4800	4600	4000	4000	4000	3000
max continuous	7300	6100	5800	4800	4600	4400	4200	3700	3700	3700	2700
min continuous	50	50	50	50	50	50	50	50	50	50	50
Max pump selfpriming speed ²⁾											
L or R function; max [rpm]	3100	2800	2400	2200	2200	2000	2000	1700	1600	1500	1500
Motor input flow											
max intermittent ¹⁾ [l/min]	219	268	347	426	465	528	575	608	648	728	726
max continuous [l/min]	201	244	317	386	428	484	525	547	583	655	653
Drain temperature ³⁾ , max [°C]	115	115	115	115	115	115	115	115	115	115	115
min [°C]	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40
Theoretical torque at 100 bar [Nm]	47.6	63.5	94.9	127.6	147.6	174.8	198.4	241	257	289	384.1
Mass moment of inertia											
(x10 ⁻³) [kg m ²]	1.7	2.9	5	8.4	8.4	11.2	11.2	21	21	21	46
Weight [kg]	11.5	15.7	18.6	25.7	25.7	33	33	40	40	40	77

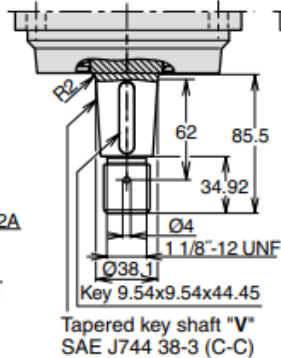
F12-30, -40, -60, -80, -90, -110 and -125 (ISO versions)



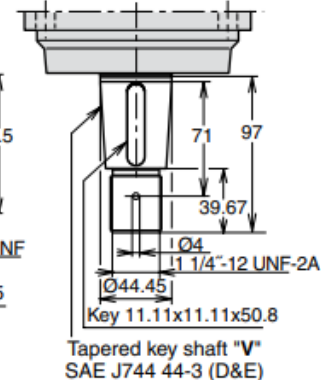
Shaft option V (F12-30)



Shaft option V (F12-40)



Shaft option V (F12-60)



Installation dimensions

Series F12

Dim.	F12-30	F12-40	F12-60	F12-80 F12-90	F12-110 F12-125
A1	88.4	113.2	113.2	127.2	141.4
B1	118	146	146	158	180
C1	118	142	144	155	180
D1	11	13.5	13.5	13.5	18
A2	100	110	125	135	145
B2	59	65	70	78	85
C2	25	26	22	32	38
D2	8	8	10	12	14
E2	33	42	42	52	58
F2	100	125	125	140	160
G2	172	173	190	216	231
H2	25.5	32.5	32.5	32.5	40.5
J2	50	60	60	70	82
K2	55	52	54	70.5	66.5
L2	40	50	50	56	70
M2	5	5	5	7	6
N2	136.5	137	154	172.5	179
P2	8	8	8	8	8
Q2	28	28	33	36	41
R2 ¹⁾	35	35	40	45	50
R2 ²⁾	43	35	35	35	45
S2 ¹⁾	M12 x24	M12 x24	M12 x28	M16 x36	M16 x36
S2 ²⁾	no thread	M12 x24	no thread	M12 x28	M16 x36
A3	122	134	144	155	170
B3	66	66	66	75	83
C3	23.8	23.8	23.8	27.8	31.8
D3	M12	M12	M12	M16	M16
E3	30	30	35	40	45
F3	33	33	38	43	49
G3	136.5	137	154	172.5	179
H3	23.5	30.5	30.5	30.5	38.5
J3	24	24	28	36	36
K3	50.8	50.8	50.8	57.2	66.7
L3	18	20	20	20	22
T3	-	-	-	-	68

Ports	F12-30	F12-40	F12-60	F12-80 F12-90	F12-110 F12-125
A, B size	3/4"	3/4"	3/4"	1"	1 1/4"
Screw thread ^{*)}	M10 x20	M10 x20	M10 x20	M12 x20	M14 x26
C thread ^{**)}	M22 x1.5	M22 x1.5	M22 x1.5	M22 x1.5	M22 x1.5
D thread ^{**)}	M18 x1.5	M18 x1.5	M22 x1.5	M22 x1.5	M22 x1.5
E thread	-	-	-	-	M22 x1.5

A, B: ISO 6162 *) Metric thread x depth in mm

**) Metric thread x pitch in mm.

Spline shaft (DIN 5480)

	Type D (std)	Type A	Type Z (optional)
F12-30	W30x2x14x9g	-	W25x1.25x18x9g ³⁾
-40	W32x2x14x9g	W35x2x16x9g	W30x2x14x9g
-60	W35x2x16x9g	-	W32x2x14x9g
-80	W40x2x18x9g	-	W35x2x16x9g ³⁾
-90	W40x2x18x9g	-	W35x2x16x9g ³⁾
-110	W45x2x21x9g	-	W40x2x18x9g ³⁾
-125	W45x2x21x9g	-	W40x2x18x9g ³⁾

Key shaft

	Type K (std)	Type P (opt.)	Type J (opt.)	Type V (opt.)
F12-30	Ø30	Ø25 ³⁾	-	32-3
-40	Ø30	-	Ø35	38-3
-60	Ø35	-	-	44-3
-80	Ø40	-	-	-
-90	Ø40	-	-	-
-110	Ø45	-	-	44-3
-125	Ø45	-	-	44-3

1) Spline shaft type D

2) Spline shaft type Z

3) Max operating pressure 350 bar