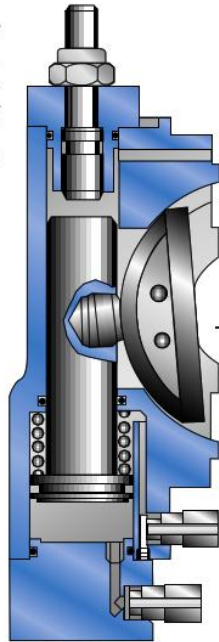


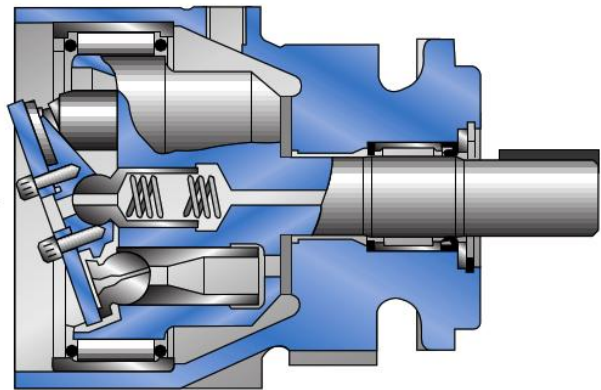
AXIAL PISTON PUMPS AND MOTORS

AXIAL PISTON PUMPS AND MOTORS

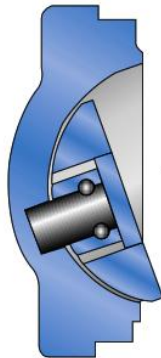
Typical example of a pressure control this illustration is of a constant pressure control type LB.



ROTARY POWER pumps and motors are of swashplate construction. The one piece rotor is supported by high capacity roller bearings which provide excellent life characteristics. The unique running plate and retainer plate enhance the units ability for a wide range of fluids.



Typical example of a volume control, this illustration is of a fixed displacement type FA.



The basic module shown above is common to all types of pump and motor control, the addition of an endcase and actuator plus camplate completes the assembly.

The characteristic is determined by the control assembly. Standard options are shown in this catalogue further details are available upon request.

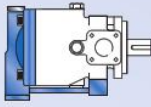
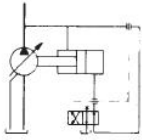
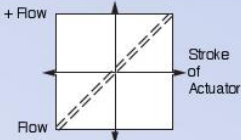
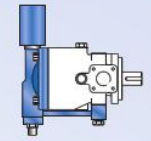
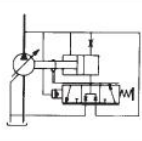
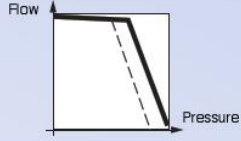
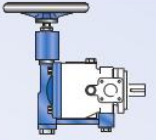
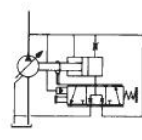
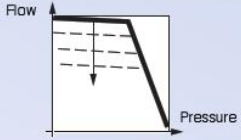
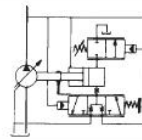
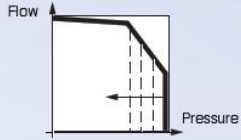
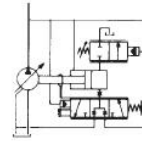
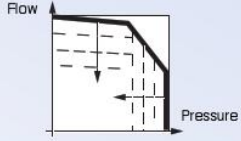
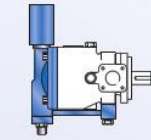
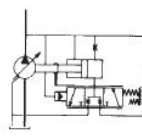
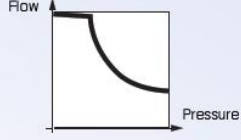
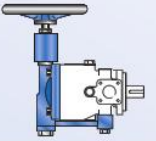
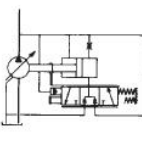
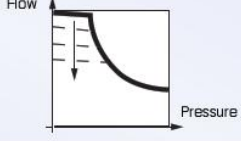
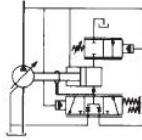
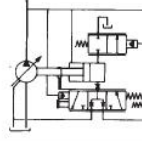
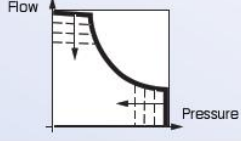
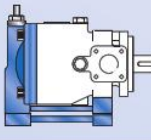
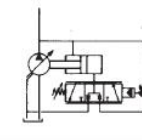
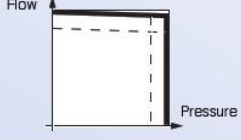
AXIAL PISTON PUMPS AND MOTORS

PUMP CONTROL RANGE

CONTROL OPTION	TYPE	OUTLINE	CIRCUIT	CHARACTERISTIC
FIXED DISPLACEMENT	FA			
MANUAL HANDWHEEL STANDARD	MA			
MANUAL HANDWHEEL FINE CONTROL	MB			
DIAL INDICATOR FINE CONTROL	MD			
SPINDLE ASSISTED MANUAL STEM CONTROL	ME			
SERVO ASSISTED MANUAL STEM CONTROL	SA			
ELECTRO-HYDRAULIC PROPORTIONAL CONTROL	SE			
HYDRAULIC ACTUATOR CONTROL	AA			

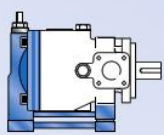
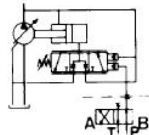
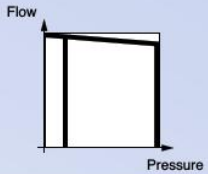
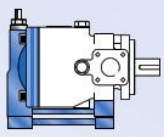
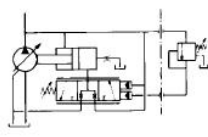
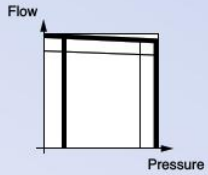
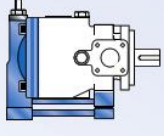
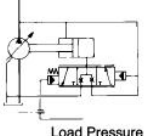
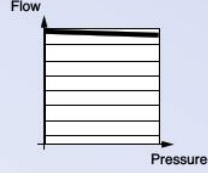
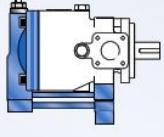
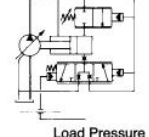
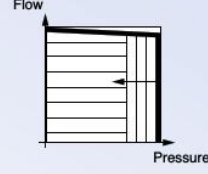
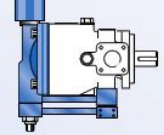
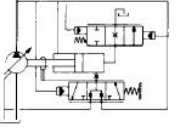
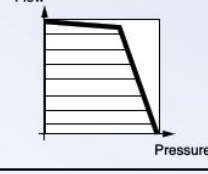
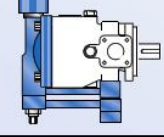
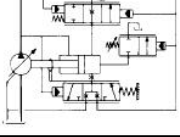
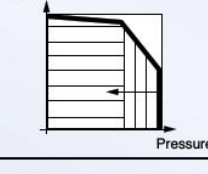
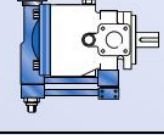
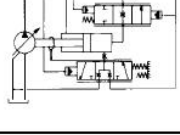
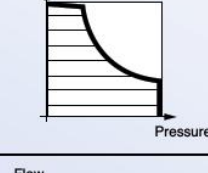
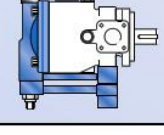
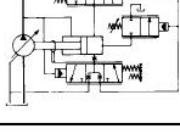
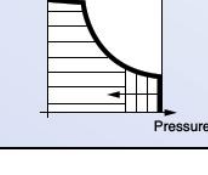
AXIAL PISTON PUMPS AND MOTORS

PUMP CONTROL RANGE

CONTROL OPTION	TYPE	OUTLINE	CIRCUIT	CHARACTERISTIC
HYDRAULIC ACTUATOR CONTROL (OVERCENTRE)	AB			
PRESSURE COMPENSATOR	PA			
PRESSURE COMPENSATOR WITH VOLUME OVERRIDE	QA			
PRESSURE COMPENSATOR WITH PRESSURE OVERRIDE	RA			
PRESSURE COMPENSATOR WITH VOLUME AND PRESSURE OVERRIDES	TA			
POWER LIMITING	PJ			
POWER LIMITING WITH VOLUME OVERRIDE	QJ			
POWER LIMITING WITH PRESSURE OVERRIDE	RJ			
POWER LIMITING WITH VOLUME AND PRESSURE OVERRIDES	TJ			
CONSTANT PRESSURE	LB HYDF			

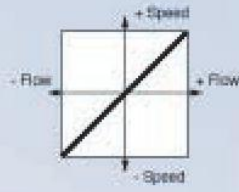
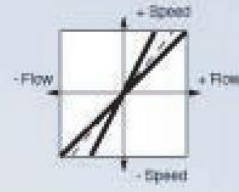
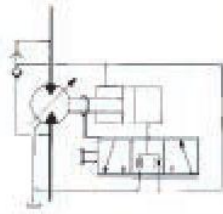
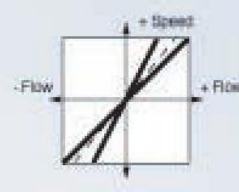
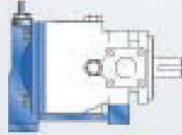
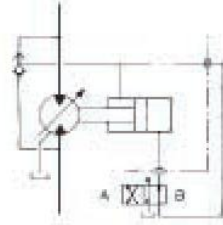
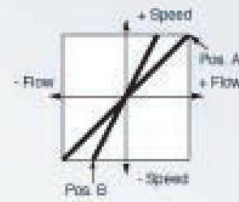
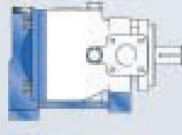
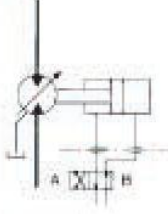
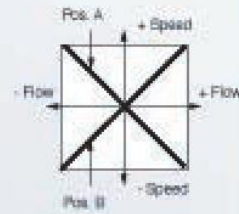
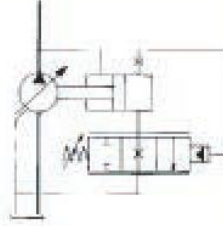
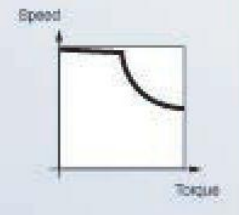
AXIAL PISTON PUMPS AND MOTORS

PUMP CONTROL RANGE

CONTROL OPTION	TYPE	OUTLINE	CIRCUIT	CHARACTERISTIC
CONSTANT PRESSURE EXTERNAL PILOT (TWO LEVEL)	LG			
CONSTANT PRESSURE EXTERNAL PILOT (REMOTE SET)	LV			
LOAD SENSING	LJ			
LOAD SENSING WITH PRESSURE OVERRIDE	LK			
LOAD SENSING WITH PRESSURE COMPENSATED OVERRIDE	RU			
LOAD SENSING WITH PRESSURE COMPENSATED AND CONSTANT PRESSURE OVERRIDES	RN			
LOAD SENSING WITH POWER LIMITING OVERRIDE	RQ			
LOAD SENSING WITH POWER LIMITING OVERRIDE	RS			

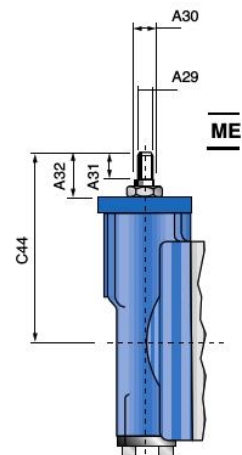
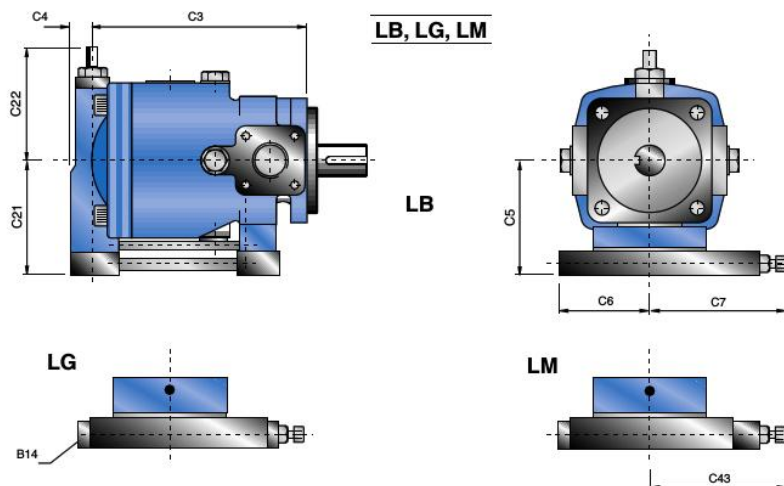
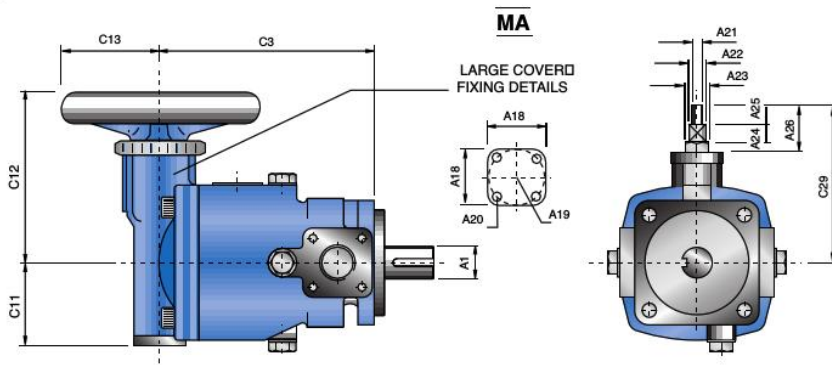
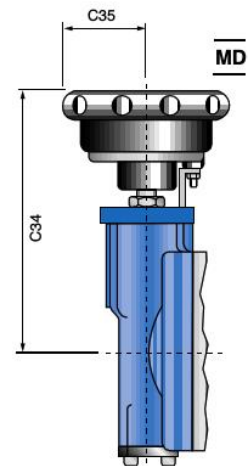
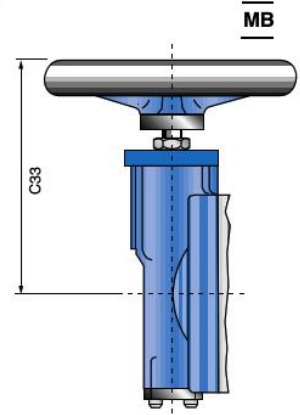
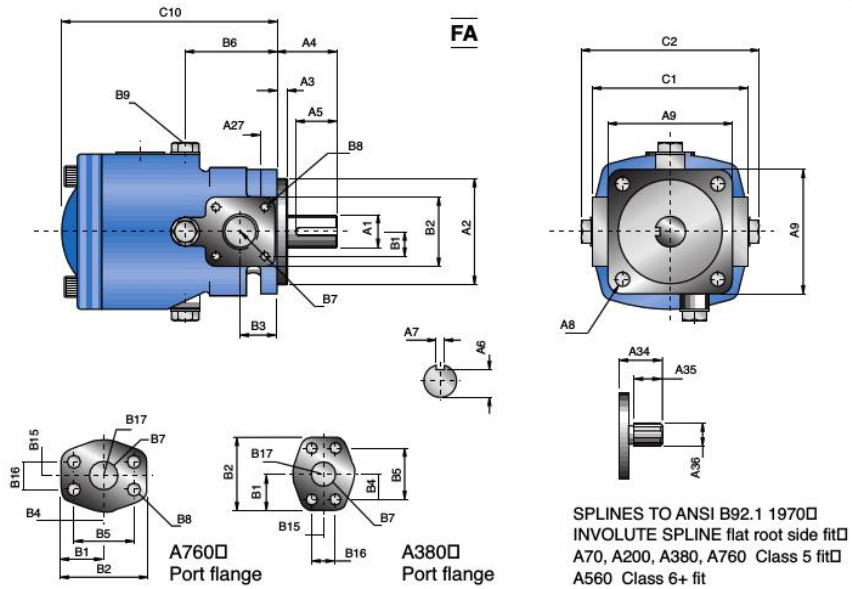
AXIAL PISTON PUMPS AND MOTORS

MOTOR CONTROL RANGE

CONTROL OPTION	TYPE	OUTLINE	CIRCUIT	CHARACTERISTIC
FIXED DISPLACEMENT	FA			
MANUAL HANDWHEEL DISPLACEMENT CONTROL	MA			
SERVO ASSISTED MANUAL STEM DISPLACEMENT CONTROL	SA			
HYDRAULIC ACTUATOR TWO DISPLACEMENT CONTROL	AA			
HYDRAULIC ACTUATOR OVERCENTRE CONTROL	AB			
POWER LIMITING	LM			

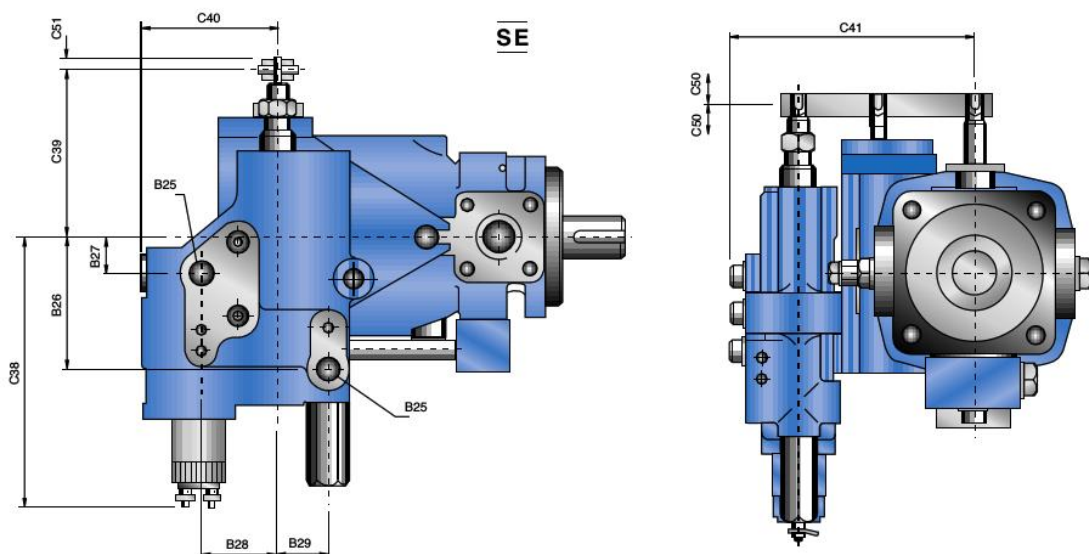
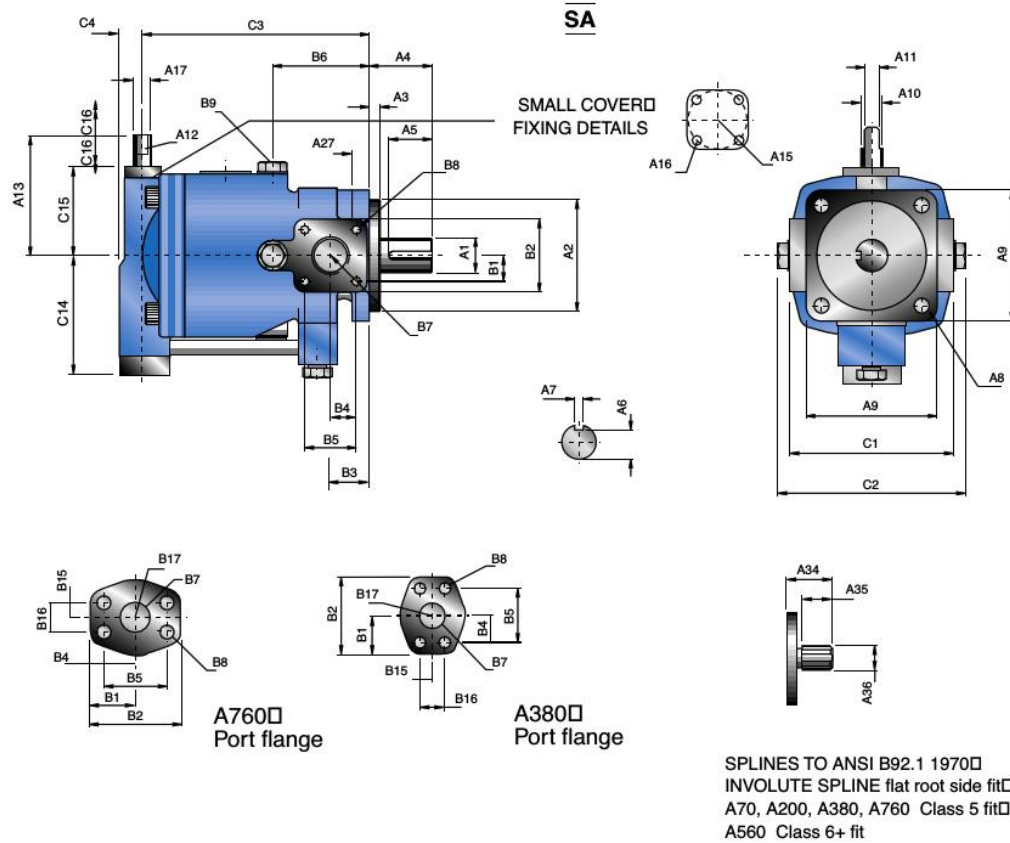
AXIAL PISTON PUMPS AND MOTORS

INSTALLATION DETAILS FA MA MB MD ME LB LG LM



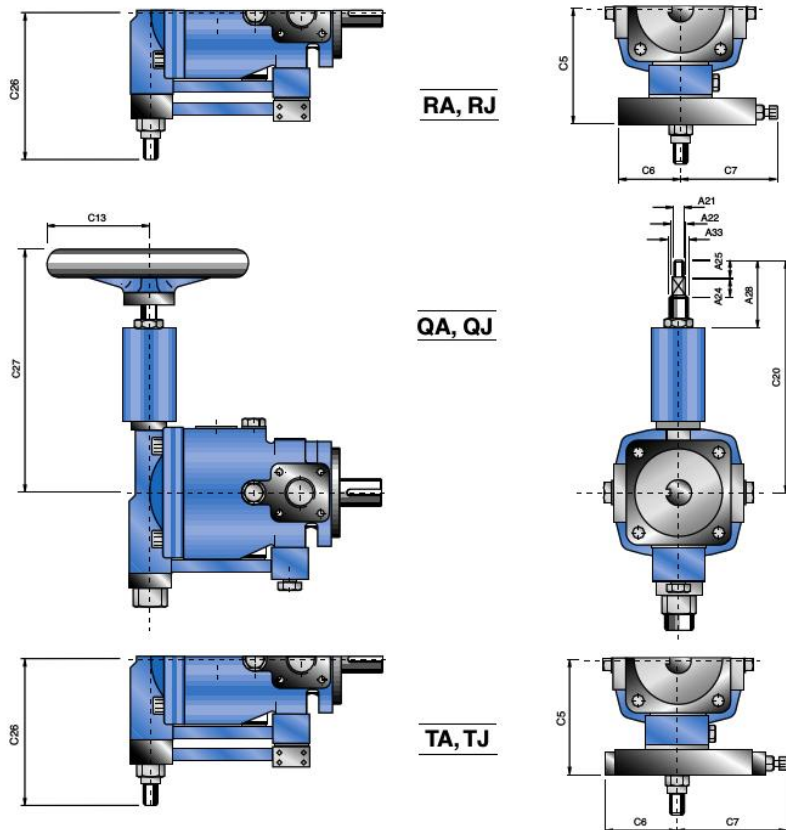
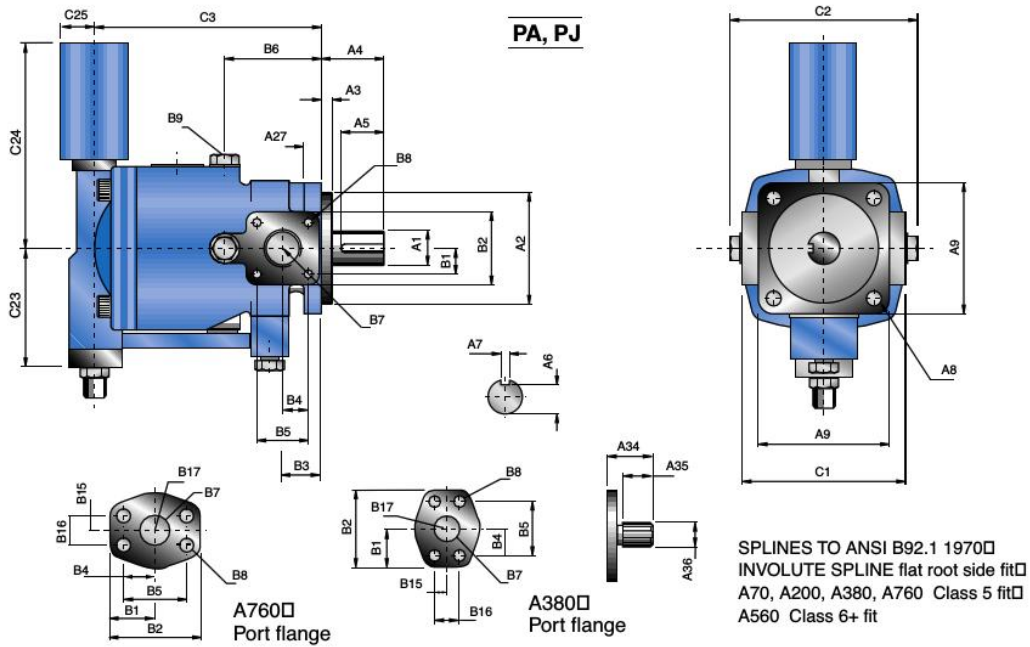
AXIAL PISTON PUMPS AND MOTORS

INSTALLATION DETAILS SA SE



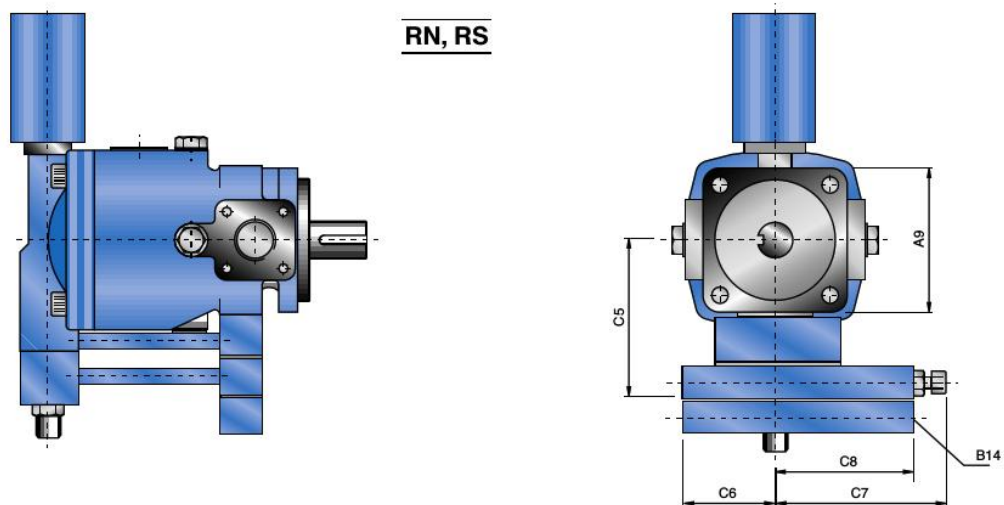
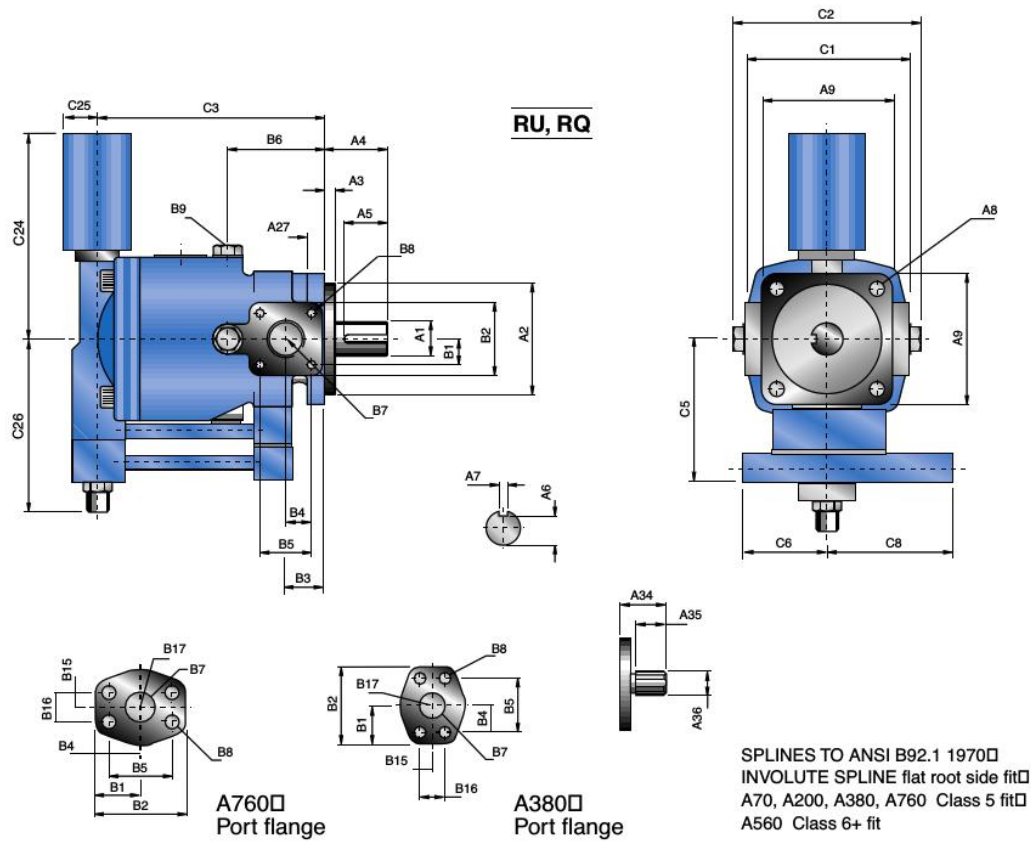
AXIAL PISTON PUMPS AND MOTORS

INSTALLATION DETAILS PA QA RA TA PJ QJ RJ TJ

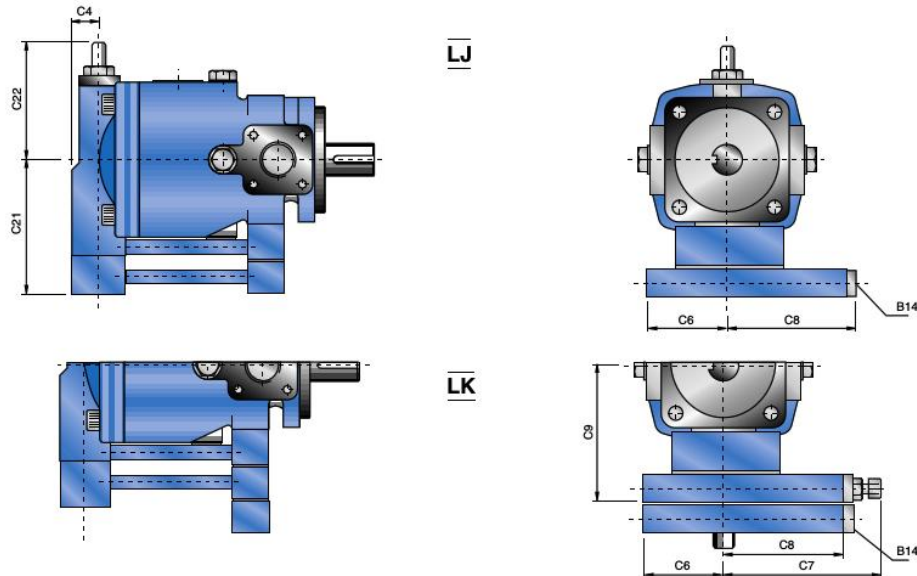


AXIAL PISTON PUMPS AND MOTORS

INSTALLATION DETAILS RU RN RQ RS LJ LK



AXIAL PISTON PUMPS AND MOTORS



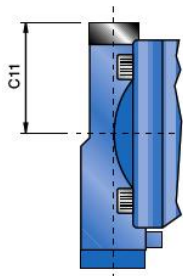
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A2	45.24/45.19	82.55/82.50	101.59/101.56	127.00/126.95	126.98/126.96
A3	8.26	8.13	9.40	12.45	12.45
A4	35.14	46.24	46.10	62.55	61.99
A5	25.40	31.75	31.75	44.45	44.45
A6	14.53/14.72	21.51/21.70	21.77/21.85	30.95/31.03	32.66/32.54
A7	4.76	6.36	6.36	9.51	9.51
A8	8.73/8.76 x 88.90 PCD	11.11/11.14 x 104.78 PCD	14.20/14.60 x 126.94 PCD	14.29/14.31 x 161.80 PCD	14.20/14.61 x 161.93 PCD
A9	82.55	96.84	117.48	146.05	142.88
A27	12.70	12.70	19.05	20.64	30.16
A34	33.60	40.77	46.10	54.60	62.12
A35	20.65	26.99	31.75	38.61	44.45
A36	15.456/15.329 9T - 16/32P	21.806/21.679 13T - 16/32P	25.400/24.841 15T - 16/32P	31.224/31.097 14T - 12/24P	38.100/37.440 17T - 12/24P
B1	22.23	26.99	34.93	34.93	57.15
B2	44.45	53.98	69.85	69.85	114.30
B3	26.99	28.58	46.02	38.10	68.28
B4	15.88	19.05	26.21	25.40	39.67
B5	31.75	38.10	52.40	50.80	79.38
B6	63.50	71.44	101.60	106.36	192.07
B7	1/2 BSP x 15.88 DP	3/4 BSP x 19.05 DP	23.88/25.40	1-1/4 BSP x 25.40 DP	36.58/38.10
B8	1/4 BSF x 11.11 DP	5/16 BSF x 15.88 DP	M10 x 22.23 DP	3/8 BSF x 15.88 DP	M16 x 36.51 DP
B9	1/4 BSP	1/4 BSP	3/8 BSP	1/2 BSP	3/4 BSP
B14	1/8 BSP	1/8 BSP	1/8 BSP	1/8 BSP	1/8 BSP
B15	-	-	13.08	-	18.24
B16	-	-	26.16	-	36.50
B17	-	-	29.37	-	47.63
C1	90.47	120.65	177.80	165.10	228.60
C2	108.98	139.15	196.30	206.54	244.64
C3	135.74	164.29	242.75	248.44	331.09
C5	102.07	109.99	142.09	134.61	154.77
C6	61.91	61.91	61.91	61.91	78.00
C7	104.86	104.86	104.86	104.86	90.00
C8	82.55	82.55	82.55	82.55	66.60
C9	124.26	138.56	170.66	163.19	182.55
C21	86.54	103.17	159.54	159.54	198.79
C22	78.11	94.45	138.10	138.10	155.64
C24	158.75	192.00	268.29	268.29	314.85
C25	26.99	31.75	47.63	47.63	53.98
C26	121.44	135.00	196.85	196.85	253.78

AXIAL PISTON PUMPS AND MOTORS

INSTALLATION DETAILS AA AB

	A70	A200	A380	A560	A760
A1	17.46/17.45	25.40/25.39	25.40/25.37	34.93/34.91	38.085/38.075
A2	45.24/45.19	82.55/82.50	101.59/101.56	127.00/126.95	126.98/126.96
A3	8.26	8.13	9.40	12.45	12.45
A4	35.14	46.24	46.10	62.55	61.99
A5	25.40	31.75	31.75	44.45	44.45
A6	14.53/14.72	21.51/21.70	21.77/21.85	30.95/31.03	32.66/32.54
A7	4.76	6.36	6.36	9.51	9.51
A8	8.73/8.76 x 88.90 PCD	11.11/11.14 x 104.78 PCD	14.20/14.60 x 126.94 PCD	14.29/14.31 x 161.80 PCD	14.20/14.61 x 161.93 PCD
A9	82.55	96.84	117.48	146.05	142.88
A27	12.70	12.70	19.05	20.64	30.16
A34	33.60	40.77	46.10	54.60	62.12
A35	20.65	26.99	31.75	38.61	44.45
A36	15.456/15.329 9T - 16/32P	21.806/21.679 13T - 16/32P	25.400/24.841 15T - 16/32P	31.224/31.097 14T - 12/24P	38.100/37.440 17T - 12/24P
B1	22.23	26.99	34.93	34.93	57.15
B2	44.45	53.98	69.85	69.85	114.30
B3	26.99	28.58	46.02	38.10	68.28
B4	15.88	19.05	26.21	25.40	39.67
B5	31.75	38.10	52.40	50.80	79.38
B6	63.50	71.44	101.60	106.36	192.07
B7	1/2 BSP x 15.88 DP	3/4 BSP x 19.05 DP	23.88/25.40	1-1/4 BSP x 25.40 DP	36.58/38.10
B8	1/4 BSF x 11.11 DP	5/16 BSP x 15.88 DP	M10 x 22.23 DP	3/8 BSF x 15.88 DP	M16 x 36.51 DP
B10	1/8 BSP	1/8 BSP	1/8 BSP	1/8 BSP	1/8 BSP
B15	-	-	13.08	-	18.24
B16	-	-	26.16	-	36.50
B17	-	-	29.37	-	47.63
C1	90.47	120.65	177.80	165.10	228.60
C2	108.98	139.15	196.30	206.54	244.64
C3	135.74	164.29	242.75	248.44	331.09
C5	102.07	109.99	142.09	134.61	154.77
C6	61.91	61.91	61.91	61.91	78.00
C11	51.59	63.50	92.63	92.63	100.82
C18	77.81	92.06	-	134.14	-
C19	78.11	94.45	-	138.10	-
C21	86.54	103.17	159.54	159.54	198.79
C22	78.11	94.45	138.10	138.10	155.64
C30	114.82	114.82	114.82	114.82	-
C31	113.82	128.91	-	157.48	-
C32	73.90	73.84	86.41	86.41	-

AB



AA

