

JOB:

REPRESENTATIVE:

UNIT TAG:

ORDER NO.

DATE:

ENGINEER:

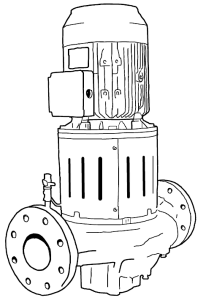
SUBMITTED BY:

DATE:

CONTRACTOR:

APPROVED BY:

DATE:



3x3x7B Series 80[®]-SC

Spacer Coupled Vertical
In-Line Mounted Centrifugal Pumps

SPECIFICATIONS

FLOW _____ HEAD _____

HP _____ RPM _____

VOLTS _____

CYCLE _____ PHASE _____

ENCLOSURE _____

APPROX. WEIGHT _____

SPECIALS _____

MATERIALS OF CONSTRUCTION

☐ BRONZE FITTED ☐ ALL IRON

WORKING PRESSURE

☐ 175 psi (12 bar) W.P.
with 125# ANSI flange
drilling

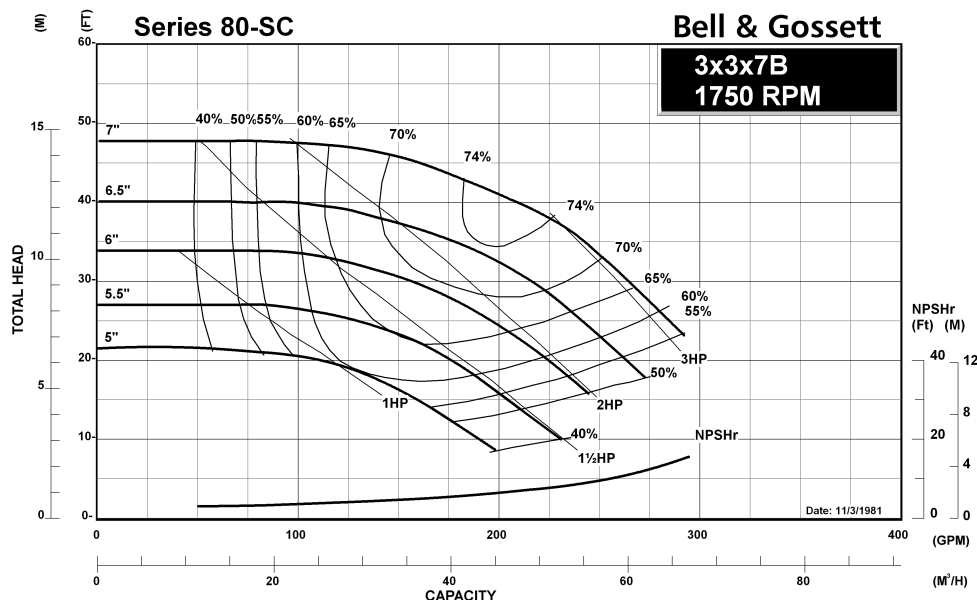
☐ 250 psi (17 bar) W.P.
with 250# ANSI flange
drilling

TYPE OF SEAL

☐ STANDARD SEAL - Inside Unitized with flush
line (EPR/Carbon-Ceramic)
Temp. range -20° to +250°F. (-29° to 121°C)
Maximum pressure is 175 psi (12 bar)

☐ OPTIONAL SEAL - Inside Unitized with flush
line (EPR/Carbon-Tungsten Carbide)
Temp. range -20° to +250°F. (-29° to 121°C)
Maximum pressure is 250 psi (17 bar)

☐ OPTIONAL SEAL - Outside Type "8B2"; with
flush line (EPR/Carbon-Tungsten Carbide)
Temp. range -20° to +250°F. (-29° to 121°C)
Maximum pressure is 175 psi (12 bar)



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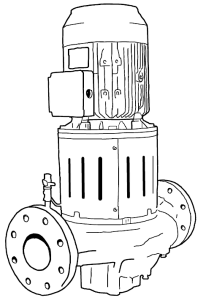
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3x3x7B Series 80®-SC

Spacer Coupled Vertical
In-Line Mounted Centrifugal Pumps

SPECIFICATIONS

FLOW _____ HEAD _____

HP _____ RPM _____

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SPECIALS _____

MATERIALS OF CONSTRUCTION

☐ BRONZE FITTED ☐ ALL IRON

WORKING PRESSURE

☐ 175 psi (12 bar) W.P.
with 125# ANSI flange
drilling

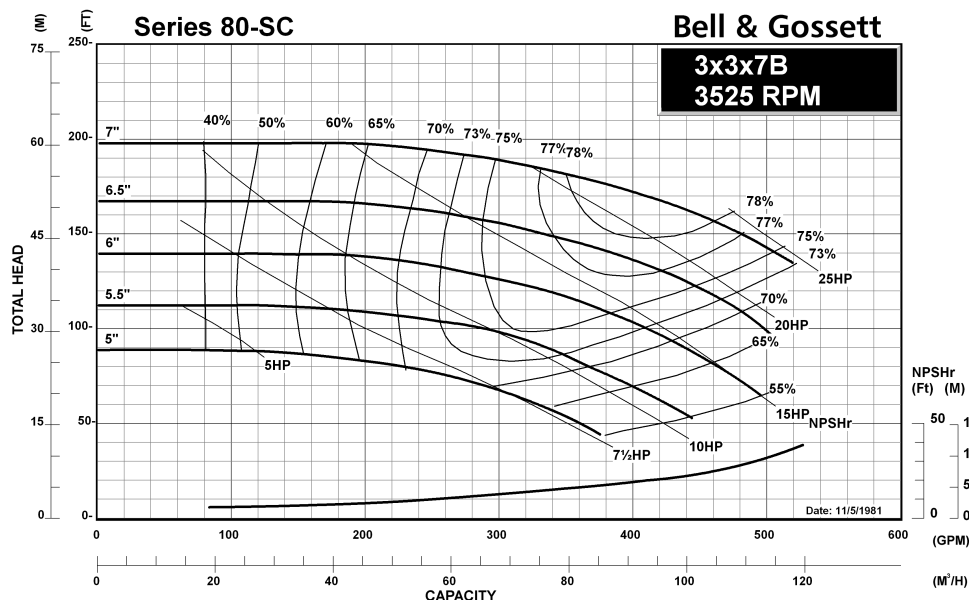
☐ 250 psi (17 bar) W.P.
with 250# ANSI flange
drilling

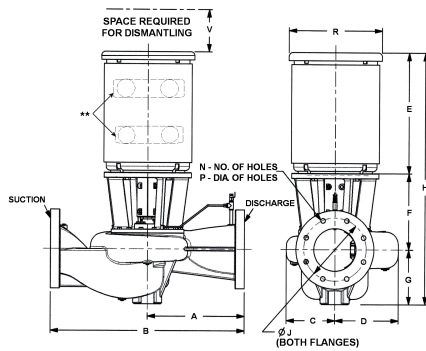
TYPE OF SEAL

☐ STANDARD SEAL - Inside Unitized with flush
line (EPR/Carbon-Ceramic)
Temp. range -20° to +250°F. (-29° to 121°C)
Maximum pressure is 175 psi (12 bar)

☐ OPTIONAL SEAL - Inside Unitized with flush
line (EPR/Carbon-Tungsten Carbide)
Temp. range -20° to +250°F. (-29° to 121°C)
Maximum pressure is 250 psi (17 bar)

☐ OPTIONAL SEAL - Outside Type "8B2"; with
flush line (EPR/Carbon-Tungsten Carbide)
Temp. range -20° to +250°F. (-29° to 121°C)
Maximum pressure is 175 psi (12 bar)





FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	3"	1-1/8 (29)	8 (203)
Suction	3"	1-1/8 (29)	8 (203)

**VOLUTE BASE RING TAPPED FOR
2" - 125# ANSI FLANGE TO SUPPORT PUMP**

** Motor may be supplied with feet

DIMENSIONS - Inches (mm)

TC SHAFT MOTORS

MOTOR FRAME	A	B	C	D	G	F	E	H	125# ANSI			250# ANSI			R	V (Min)
									J	N	P	J	N	P		
182TC	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	5-1/2 (140)	12 (305)	12-1/4 (311)	29-3/4 (756)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	8-3/4 (222)	4-1/2 (114)
184TC	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	5-1/2 (140)	12 (305)	13-1/4 (337)	30-3/4 (781)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	8-3/4 (222)	4-1/2 (114)
213TC	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	5-1/2 (140)	12 (305)	14-7/8 (378)	32-3/8 (822)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	10-5/8 (270)	4-1/2 (114)
215TC	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	5-1/2 (140)	12 (305)	14-7/8 (378)	32-3/8 (822)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	10-5/8 (270)	4-1/2 (114)
254TC	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	5-1/2 (140)	12 (305)	19-7/16 (494)	36-15/16 (938)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	12-5/16 (313)	4-1/2 (114)
256TC	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	5-1/2 (140)	12 (305)	21-3/16 (538)	38-11/16 (983)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	12-5/16 (313)	4-1/2 (114)

HP SHAFT MOTORS

MOTOR FRAME	A	B	C	D	G	F	E	H	125# ANSI			250# ANSI			R	V (Min)
									J	N	P	J	N	P		
143HP	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	5-1/2 (140)	12 (305)	11-13/16 (300)	29-5/16 (745)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	7-1/16 (179)	4-1/2 (114)
145HP	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	5-1/2 (140)	12 (305)	12-13/16 (325)	30-5/16 (770)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	7-1/16 (179)	4-1/2 (114)
182HP	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	5-1/2 (140)	12 (305)	13-7/8 (352)	31-3/8 (797)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	8-3/4 (222)	4-1/2 (114)
184HP	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	5-1/2 (140)	12 (305)	14-7/8 (378)	32-3/8 (822)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	8-3/4 (222)	4-1/2 (114)
213HP	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	5-1/2 (140)	12 (305)	17-1/4 (438)	34-3/4 (883)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	10-5/8 (270)	4-1/2 (114)
215HP	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	5-1/2 (140)	12 (305)	18-3/4 (476)	36-1/4 (921)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	10-5/8 (270)	4-1/2 (114)
254HP	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	5-1/2 (140)	12 (305)	22-3/8 (568)	39-7/8 (1013)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	12-5/16 (313)	4-1/2 (114)
256HP	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	5-1/2 (140)	12 (305)	24-1/16 (611)	41-9/16 (1056)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	12-5/16 (313)	4-1/2 (114)

IEC SHAFT MOTORS

MOTOR FRAME	A	B	C	D	G	F	E	H	125# ANSI			250# ANSI			R	V (Min)
									J	N	P	J	N	P		
80	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	5-1/2 (140)	12 (305)	9-15/16 (252)	27-7/16 (697)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	6-7/8 (175)	4-1/2 (114)
90	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	5-1/2 (140)	12 (305)	11-5/8 (295)	29-1/8 (740)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	7-1/2 (190)	4-1/2 (114)
100L	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	5-1/2 (140)	12 (305)	12-11/16 (322)	30-3/16 (767)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	8-1/4 (210)	4-1/2 (114)
112M	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	5-1/2 (140)	12 (305)	13-9/16 (344)	31-1/16 (789)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	9-5/16 (237)	4-1/2 (114)
132	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	5-1/2 (140)	12 (305)	17-1/8 (435)	34-5/8 (879)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	10-13/16 (275)	4-1/2 (114)
160M	9-1/2 (241)	19 (483)	5-1/4 (133)	6-1/4 (159)	5-1/2 (140)	14-9/16 (370)	20-1/4 (514)	40-3/8 (1026)	6 (152)	4	3/4 (19)	6-5/8 (168)	8 (22)	7/8 (22)	13 (330)	4-1/2 (114)

Dimensions are subject to change. Not to be used for construction purposes unless certified.

NOTE: For TEFC add 1-1/2" to dimensions E & H.

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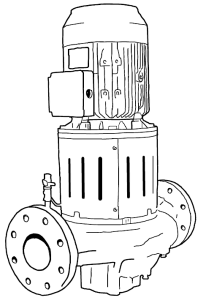
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3x3x7B Series 80®-SC

Spacer Coupled Vertical
In-Line Mounted Centrifugal Pumps

SPECIFICATIONS

FLOW _____ HEAD _____

HP _____ RPM _____

VOLTS _____

CYCLE _____ PHASE _____

ENCLOSURE _____

APPROX. WEIGHT _____

SPECIALS _____

MATERIALS OF CONSTRUCTION

☐ BRONZE FITTED ☐ ALL IRON

WORKING PRESSURE

☐ 175 psi (12 bar) W.P.
with 125# ANSI flange
drilling

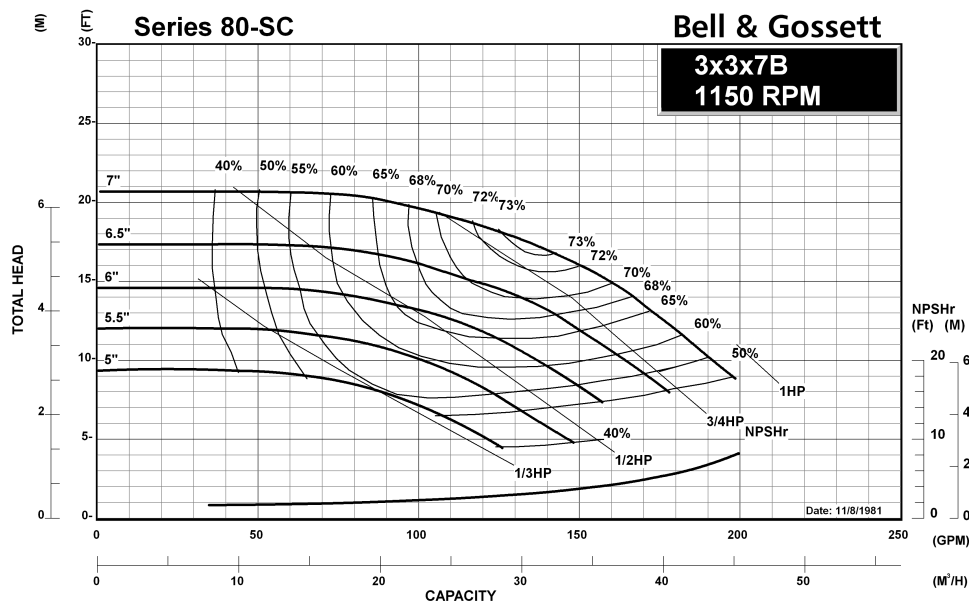
☐ 250 psi (17 bar) W.P.
with 250# ANSI flange
drilling

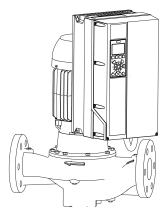
TYPE OF SEAL

☐ STANDARD SEAL - Inside Unitized with flush
line (EPR/Carbon-Ceramic)
Temp. range -20° to +250°F. (-29° to 121°C)
Maximum pressure is 175 psi (12 bar)

☐ OPTIONAL SEAL - Inside Unitized with flush
line (EPR/Carbon-Tungsten Carbide)
Temp. range -20° to +250°F. (-29° to 121°C)
Maximum pressure is 250 psi (17 bar)

☐ OPTIONAL SEAL - Outside Type "8B2"; with
flush line (EPR/Carbon-Tungsten Carbide)
Temp. range -20° to +250°F. (-29° to 121°C)
Maximum pressure is 175 psi (12 bar)



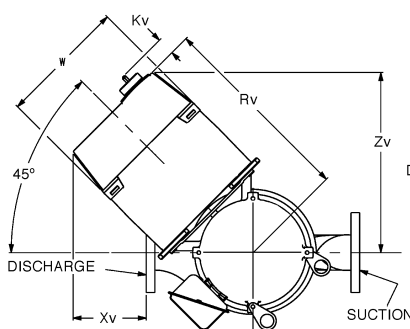
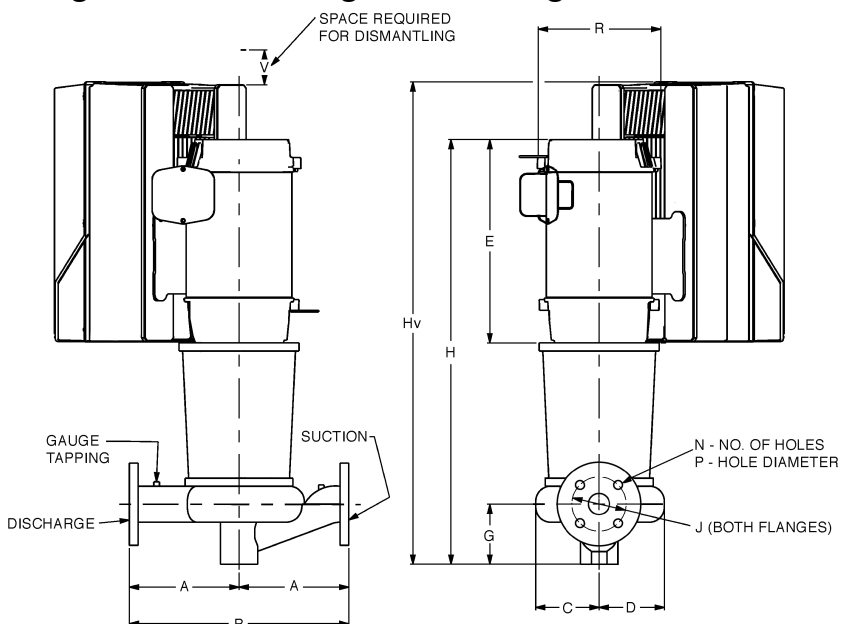


3x3x7B Series 80SC[®]

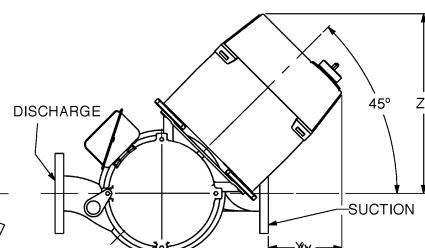
In-Line Mounted Centrifugal Pumps

With Optional Integrated Technologic[®] featuring Sensorless Control

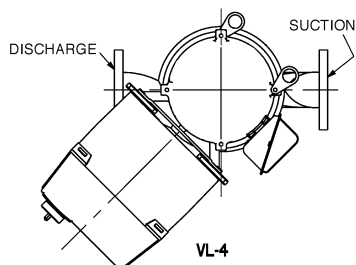
TECHNOLOGIC STANDARD FEATURES	
CONTROL METHOD	Constant Pressure, Linear Control Curve, Quadratic Control Curve Factory configured for sensorless operation standard. Field configurable for use with a wired transducer.
ENCLOSURE	IP55 / NEMA 12 / UL type 12
POWER DISCONNECT SWITCH	Included standard. Fused Disconnect Switch optional.
EMI/RFI CONTROL	Integrated filter to meet EN62800-3.
HARMONIC SUPPRESSION	Integrated non-saturating dual DC link reactors provide better harmonic performance than a 5% AC line reactor.
COOLING	Fan-cooled through temperature controlled and easy replacement.
AMBIENT TEMPERATURE RATING	14°F to 113°F (-10°C to 45°C)
COMMUNICATION PROTOCOLS	BACnet, Modbus RTU, N2 Metasys, FLN Apogee
ANALOG INPUTS	2 configurable for either voltage (0 to 10VDC) or current (0/4 to 20mA)
ANALOG OUTPUTS	1 (0/4 to 20mA) up to 500 ohm load accurate to 1% of full scale
DIGITAL INPUTS	4 (0 to 24VDC), NPN or PNP, 0 to 24VDC, on 5 msec scan interval, Up to 2 can be configured as pulse inputs.
DIGITAL OUTPUTS	2 (0 to 24VDC), 40mA max current, configurable as pulse outputs.
RELAY OUTPUTS	2 programmable, 240VAC or 400VAC up to 2 A



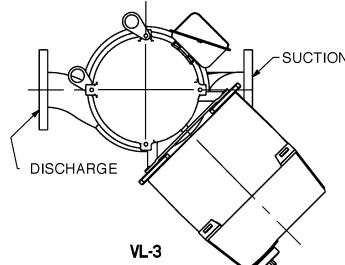
VL-1



VL-2



VL-4

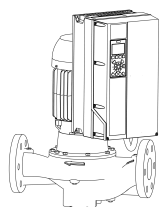


VL-3

Xylem Inc.
8200 N. Austin Avenue
Morton Grove, IL 60053
Phone: (847)966-3700
Fax: (847)965-8379
www.bellgossett.com

xylem
Let's Solve Water

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3x3x7B Series 80-SC[®]

In-Line Mounted Centrifugal Pumps

With Optional Integrated Technologic[®] featuring Sensorless Control

DIMENSIONS – Inches (mm)

TC SHAFT MOTORS

MOTOR FRAME	A	B	G	E	125# ANSI			250# ANSI			R	V (Min)	VFD	Rv	Zv	W	Hv	Xv	Kv
					J	N	P	J	N	P									
182TC	9-1/2 (241)	19 (483)	5-1/2 (140)	12-1/4 (311)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	8-3/4 (222)	4-1/2 (114)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	32-17/32 (826)	2-17/32 (64)	1-1/2 (38.10)
184TC	9-1/2 (241)	19 (483)	5-1/2 (140)	13-1/4 (337)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	8-3/4 (222)	4-1/2 (114)	A5	12-25/32 (324)	12-1/32 (306)	9-1/2 (241)	33-17/32 (852)	2-17/32 (64)	1-1/2 (38.10)
213TC	9-1/2 (241)	19 (483)	5-1/2 (140)	14-7/8 (378)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	10-5/8 (270)	4-1/2 (114)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	32-3/8 (822)	3-1/16 (78)	1-1/2 (38.10)
													B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	33-13/16 (859)	4-23/32 (120)	1-13/16 (45.72)
215TC	9-1/2 (241)	19 (483)	5-1/2 (140)	14-7/8 (378)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	10-5/8 (270)	4-1/2 (114)	A5	13-17/32 (344)	12-9/16 (319)	9-1/2 (241)	32-3/8 (822)	3-1/16 (78)	1-1/2 (38.10)
													B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	33-51/64 (858)	4-23/32 (120)	1-13/16 (45.72)
254TC	9-1/2 (241)	19 (483)	5-1/2 (140)	19-7/16 (494)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	12-5/16 (313)	4-1/2 (114)	B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	38-63/64 (990)	5-27/64 (138)	1-13/16 (45.72)
													B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	43-29/64 (1104)	5-27/64 (138)	1-11/16 (43.18)
256TC	9-1/2 (241)	19 (483)	5-1/2 (140)	21-3/16 (538)	6 (152)	4	3/4 (19)	6-5/8 (168)	8	7/8 (22)	12-5/16 (313)	4-1/2 (114)	B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	39 (990)	5-27/64 (138)	1-13/16 (45.72)
													B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	43-29/64 (1104)	5-27/64 (138)	1-11/16 (43.18)
													C1	18-53/64 (478)	17-3/32 (434)	12-3/32 (307)	44-23/64 (1127)	7-19/32 (193)	1-7/8 (48.26)

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