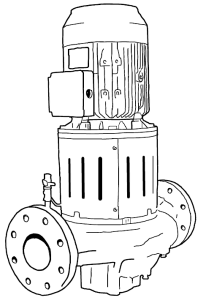


JOB:	REPRESENTATIVE:	
UNIT TAG:	ORDER NO.	DATE:
ENGINEER:	SUBMITTED BY:	DATE:
CONTRACTOR:	APPROVED BY:	DATE:



2 1/2 x 2 1/2 x 7 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

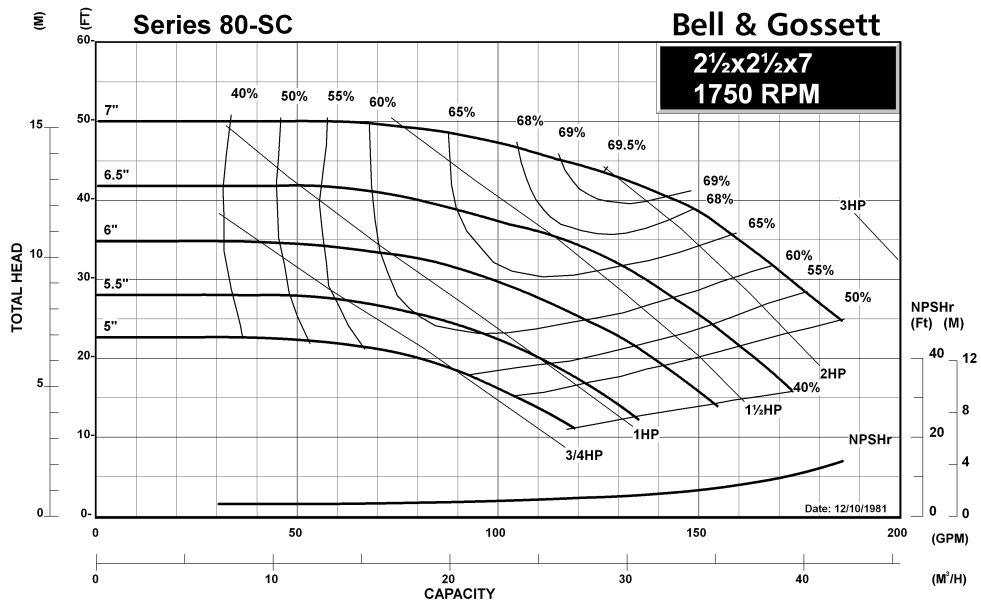
250 psi (17 bar) W.P.
with 250# ANSI flange
drilling

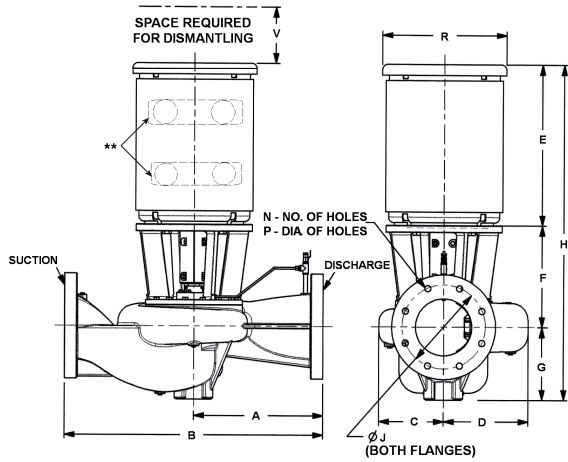
TYPE OF SEAL

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)





FLANGE DIMENSIONS IN INCHES (MM)			
	SIZE	THICKNESS	O.D.
Discharge	2-1/2"	1 (25)	7-3/8 (187)
Suction	2-1/2"	1 (25)	7-3/8 (187)

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 (229)	18 (457)	5 (127)	5-5/8 (143)	5-1/4 (133)	11-15/16 (303)	12-1/4 (311)	29-13/32 (747)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	8-3/4 (222)	4-1/2 (114)
184TC	9 (229)	18 (457)	5 (127)	5-5/8 (143)	5-1/4 (133)	11-15/16 (303)	13-1/4 (337)	30-7/16 (772)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	8-3/4 (222)	4-1/2 (114)
213TC	9 (229)	18 (457)	5 (127)	5-5/8 (143)	5-1/4 (133)	11-15/16 (303)	14-29/32 (378)	32-3/32 (815)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	10-5/8 (270)	4-1/2 (114)
215TC	9 (229)	18 (457)	5 (127)	5-5/8 (143)	5-1/4 (133)	11-15/16 (303)	14-29/32 (378)	32-3/32 (815)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	10-5/8 (270)	4-1/2 (114)
254TC	9 (229)	18 (457)	5 (127)	5-5/8 (143)	5-1/4 (133)	11-15/16 (303)	19-15/32 (494)	36-5/8 (930)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	12-9/32 (312)	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 (229)	18 (457)	5 (127)	5-5/8 (143)	5-1/4 (133)	11-15/16 (303)	11-13/16 (300)	28-31/32 (736)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	7-1/32 (179)	4-1/2 (114)
145HP	9 (229)	18 (457)	5 (127)	5-5/8 (143)	5-1/4 (133)	11-15/16 (303)	12-25/32 (325)	29-31/32 (761)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	7-1/32 (179)	4-1/2 (114)
182HP	9 (229)	18 (457)	5 (127)	5-5/8 (143)	5-1/4 (133)	11-15/16 (303)	13-29/32 (353)	31-3/32 (790)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	8-3/4 (222)	4-1/2 (114)
184HP	9 (229)	18 (457)	5 (127)	5-5/8 (143)	5-1/4 (133)	11-15/16 (303)	14-29/32 (378)	32-3/32 (815)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	8-3/4 (222)	4-1/2 (114)
213HP	9 (229)	18 (457)	5 (127)	5-5/8 (143)	5-1/4 (133)	11-15/16 (303)	17-1/4 (438)	34-7/16 (875)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	10-5/8 (270)	4-1/2 (114)
215HP	9 (229)	18 (457)	5 (127)	5-5/8 (143)	5-1/4 (133)	11-15/16 (303)	18-3/4 (476)	35-9/16 (903)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	10-5/8 (270)	4-1/2 (114)
254HP	9 (229)	18 (457)	5 (127)	5-5/8 (143)	5-1/4 (133)	11-15/16 (303)	22-11/32 (568)	39-1/2 (1003)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	12-9/32 (312)	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 (229)	18 (457)	5 (127)	5-5/8 (143)	5-1/4 (133)	11-15/16 (303)	9-15/16 (252)	27-1/8 (689)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	6-7/8 (175)	4-1/2 (114)
90	9 (229)	18 (457)	5 (127)	5-5/8 (143)	5-1/4 (133)	11-15/16 (303)	11-5/8 (295)	28-13/16 (732)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	7-1/2 (190)	4-1/2 (114)
100L	9 (229)	18 (457)	5 (127)	5-5/8 (143)	5-1/4 (133)	11-15/16 (303)	12-11/16 (322)	29-7/8 (759)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	8-1/4 (210)	4-1/2 (114)
112M	9 (229)	18 (457)	5 (127)	5-5/8 (143)	5-1/4 (133)	11-15/16 (303)	13-9/16 (344)	30-3/4 (781)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	9-5/16 (237)	4-1/2 (114)
132	9 (229)	18 (457)	5 (127)	5-5/8 (143)	5-1/4 (133)	11-15/16 (303)	17-1/8 (435)	34-5/16 (872)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	10-13/16 (275)	4-1/2 (114)

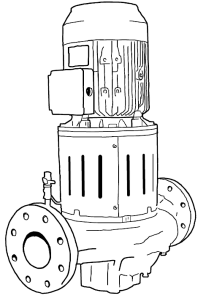
Dimensions are subject to change. Not to be used for construction purposes unless certified.

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

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



JOB:	REPRESENTATIVE:	
UNIT TAG:	ORDER NO.	DATE:
ENGINEER:	SUBMITTED BY:	DATE:
CONTRACTOR:	APPROVED BY:	DATE:



2 1/2 x 2 1/2 x 7 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

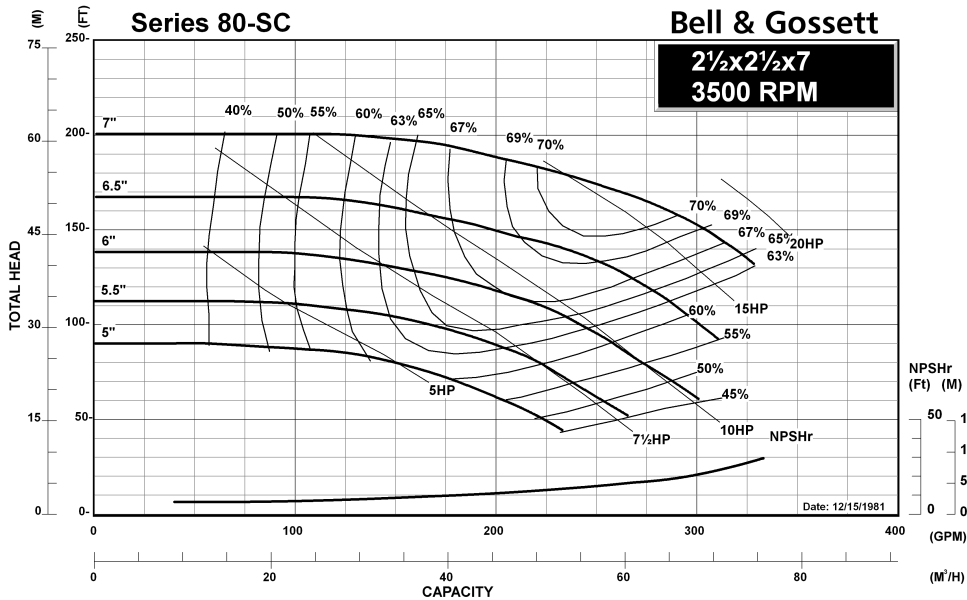
250 psi (17 bar) W.P.
with 250# ANSI flange
drilling

TYPE OF SEAL

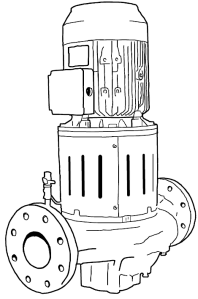
STANDARD SEAL - Inside Unitized with flush line (EPR/Carbon-Ceramic)
Temp. range -20° to +250°F. (-29° to 121°C)
Maximum pressure is 175 psi (12 bar)

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)



<p>JOB:</p> <p>UNIT TAG:</p> <p>ENGINEER:</p> <p>CONTRACTOR:</p>	<p>REPRESENTATIVE:</p> <p>ORDER NO.</p> <p>SUBMITTED BY:</p> <p>APPROVED BY:</p>	<p>DATE:</p> <p>DATE:</p> <p>DATE:</p>
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2 1/2 x 2 1/2 x 7 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

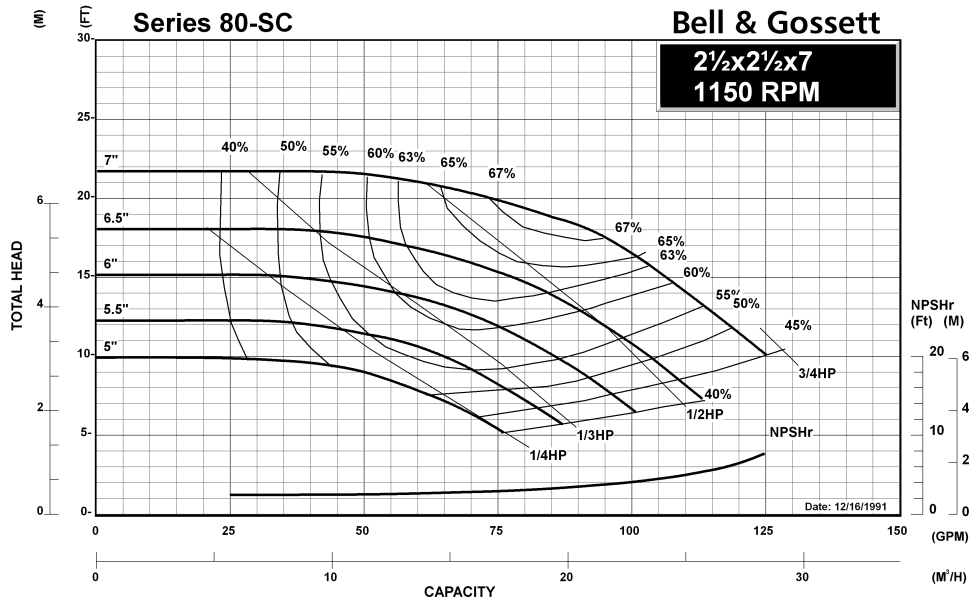
250 psi (17 bar) W.P.
with 250# ANSI flange
drilling

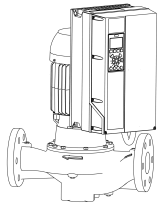
TYPE OF SEAL

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)

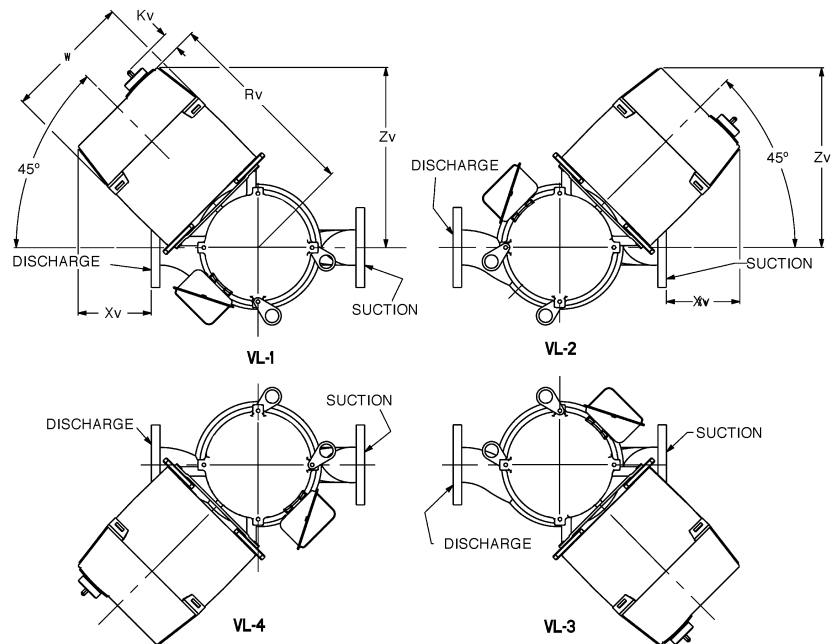
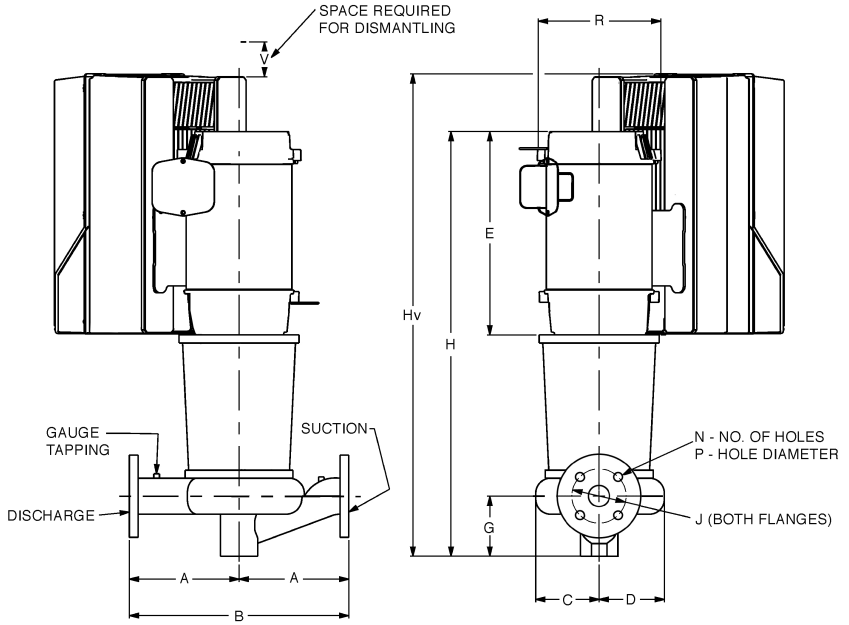




2 1/2 x 2 1/2 x 7 Series 80SC[®]

In-Line Mounted Centrifugal Pumps
With Optional Integrated Technolog[®] featuring Sensorless Control

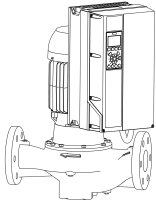
TECHNOLOGIC STANDARD FEATURES	
CONTROL METHOD	Constant Pressure, Linear Control Curve, Quadratic Control Curve Factory configured for sensorless operation standard. Field configurable for use with a wired transducer.
ENCLOSURE	IP55 / NEMA 12 / UL type 12
POWER DISCONNECT SWITCH	Included standard. Fused 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



Xylem Inc.
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2¹/₂x2¹/₂x7 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 (229)	18 (457)	5-1/4 (133)	12-1/4 (311)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	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)	32-3/16 (818)	3-1/32 (77)	1-1/2 (38.10)
184TC	9 (229)	18 (457)	5-1/4 (133)	13-1/4 (337)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	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)	33-7/32 (844)	3-1/32 (77)	1-1/2 (38.10)
													B1	15-5/64 (383)	13-11/16 (348)	9-1/2 (241)	34-9/32 (871)	4-11/16 (119)	1-13/16 (45.72)
213TC	9 (229)	18 (457)	5-1/4 (133)	14-29/32 (378)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	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)	32-3/32 (815)	3-9/16 (90)	1-1/2 (38.10)
													B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	33-17/32 (852)	5-7/32 (132)	1-13/16 (45.72)
215TC	9 (229)	18 (457)	5-1/4 (133)	14-29/32 (378)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	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)	32-3/32 (815)	3-9/16 (90)	1-1/2 (38.10)
													B1	15-53/64 (402)	14-7/32 (361)	9-1/2 (241)	33-33/64 (851)	5-7/32 (132)	1-13/16 (45.72)
254TC	9 (229)	18 (457)	5-1/4 (133)	19-15/32 (494)	5-1/2 (140)	4	3/4 (19)	5-7/8 (149)	8	7/8 (22)	12-9/32 (312)	4-1/2 (114)	B1	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	38-43/64 (982)	5-59/64 (150)	1-13/16 (45.72)
													B2	16-53/64 (427)	14-59/64 (379)	9-1/2 (241)	43-9/64 (1096)	5-59/64 (150)	1-11/16 (43.18)

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xylem
Let's Solve Water

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