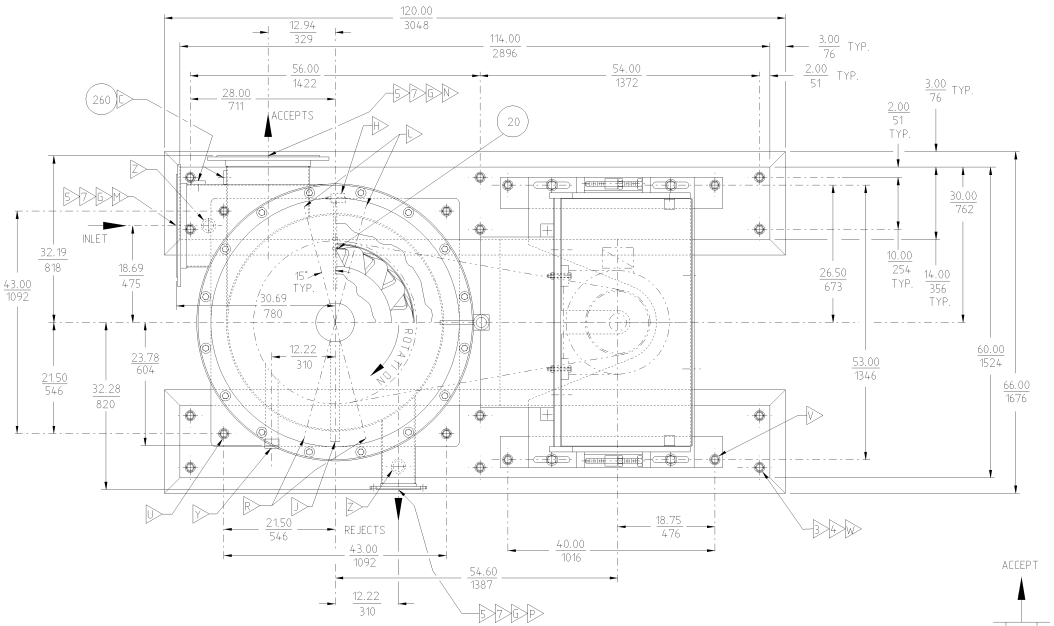
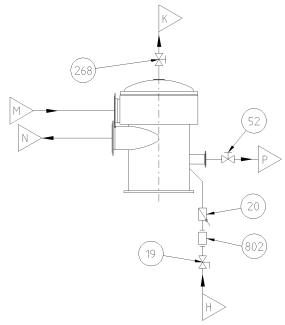
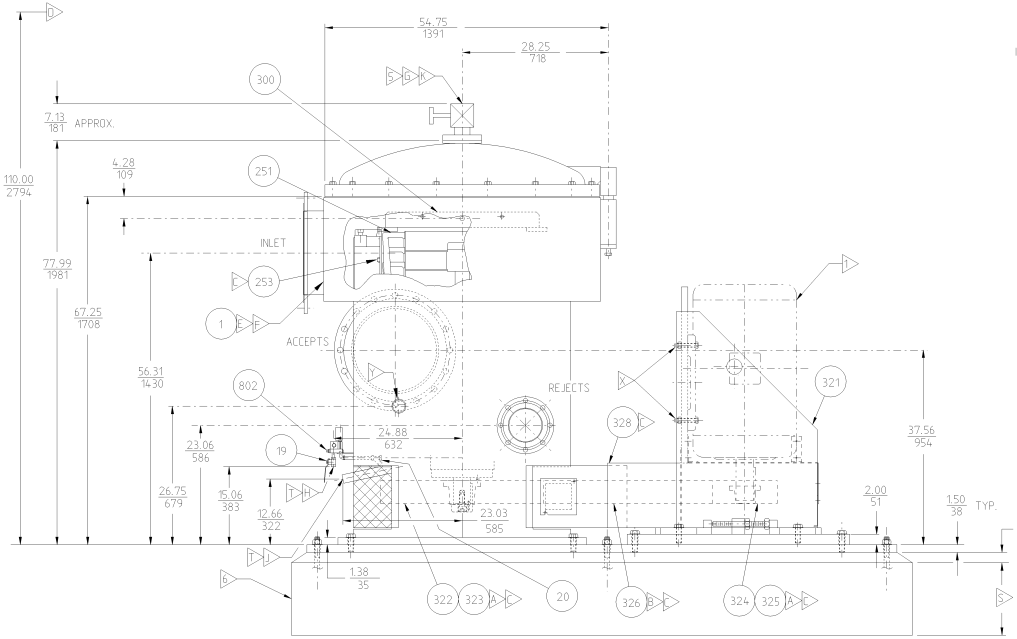
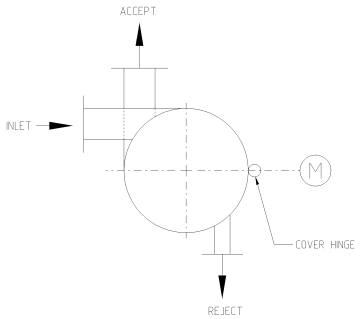




PIPING DIAGRAM 20 VERT SCRN
(DO NOT USE FOR ORIENTATION)





CUSTOMER ORIENTATION
DETAILS

STORA ENSO
KIMBERLY, WI
VERTICAL SCREEN AFVPS20
SERIAL NO. 25917
CUST. P.O. NO. 79-504314X13
CUST. EQUIP. NO. _____
VOITH PAPER JOB NO. 88744

FOR OPERATION AT 351 RPM

SUPPLIED BY CUSTOMER

ITEM	PART NUMBER	DESCRIPTION	QTY
52		THROTTLING VALVE	1

SUPPLIED BY VOITH SULZER

ITEM	PART NUMBER	DESCRIPTION	DRAWING NUMBER	QTY
1	140631	ASSY VERTICAL SCREEN SIZE 20 W/MECHANICAL SEAL	D36-100010	1
268	104195	1-1/2" THROTTLING VALVE		1
19	118187	1/4" ON-OFF VALVE		1
20	722387	1/4" CHECK VALVE		1
251	109103	ASSY ROTOR 316L VERT SCRN 20 27 VANE W/ CONES 100RMS FINISH	D36-300002/F	1
253	07.1180.90	BSKT SCRN 316L 20 VERT SCRN C-BAR,.008 SLOTS,5% O.A.,12"	07.2024.30	1
260	111118	WELD-ON NIPPLE (PMC-LT-07 SAN) FOR SANITARY PRESSURE GAUGE		2
300	104224	TOOL BSKT REMOVAL VERT SCRN 20	C36-750004	1
321	111661	ASSY MOT FRAME & SLIDE RAILS	D35-100008	1
322	112139	SHEAVE DRIVEN (4 GR) 31.5 OD		1
323	109264	BSHG QD F TYPE 3.312 SHAFT W/ 0.875X0.625 SHALLOW KEY		1
324	106373	SHEAVE MOTOR (4 GR) 12.50 OD		1
325	106571	BSHG QD E TYPE 3.375 SHAFT W/ 0.875x0.500 SHALLOW KEY		1
326	112614	V-BELT (POWERBAND) 4/5VX1800		1
328	111104	ASSY GUARD DRIVE 20 VERT SCRN	D36-724014	1
802	119146	FLOW METER,SAFEMATIC SAFEUNIT W/ELECTRICAL ALARM SFETAL-08-10		1

SUPPLIED BY CUSTOMER

1. MOTOR 75 HP, 900 RPM, 444T FRAME WITH CONTROLS AND WIRING. DRIVE INDICATED IS TO HAVE MOTOR EQUIPPED W/BEARINGS SIZED FOR THE APPROPRIATE SHEAVE COMBINATION. MIN BELT PULL = 1873 LBS.
2. SOLEPLATES
3. ANCHOR BOLTS
4. SHIMS WITH AMPLE SUPPORT AREA
5. INLET, ACCEPT AND REJECT PIPNG WITH SUPPORTS
6. FOUNDATION, ERECTION, AND INSTALLATION
7. FABRICATION TOLERANCES APPLY TO NOZZLE LOCATIONAL DIMENSIONS. CUSTOMER MUST PROVIDE LOOSE ANGLE STYLE FACE RINGS AND SUFFICIENT NUMBER OF FIELD FIT JOINTS IN ADJOINING PIPING TO ACCOMMODATE MINOR VARIATIONS IN TRUE POSITION.

NOTES

A. ALIGN DRIVE & DRIVEN SHEAVES TO MANUFACTURER'S SPECIFICATIONS.
B. TENSION BELTS TO MANUFACTURER'S SPECIFICATIONS.
C. CUSTOMER IS RESPONSIBLE FOR THE INSTALLATION OF:
   1. DRIVE SHEAVE AND BELTS
   2. SCREEN BASKET
   3. PRESSURE GAUGE, TRANSMITTER, OR TRANSDUCER
   4. DRIVE GUARD
D. MINIMUM OVERHEAD CLEARANCE REQUIRED TO REMOVE THE SCREEN BASKET AND ROTATING ASSEMBLY. HOOK AND HOIST NOT INCLUDED.
E. MACHINE WT: 5,200 LBS EMPTY & 9,400 LBS FILL MOT SPRT WT: 2000 LBS BASKET WT: 200 LBS ROTOR WT: 572 LBS BRG CRTG WT: 660 LBS ADDITION FOR DYNAMIC LOADS 150%
F. MAXIMUM OPERATING PRESSURE: 75 PSI. DO NOT EXCEED!
G. CUSTOMER TO SUPPORT PIPING TO PREVENT ANY EXTERNAL LOADING ON THE SCREEN.
H. CUSTOMER TO SUPPLY SEAL WATER TO THE SCREEN AT 1 GPM AND 30 PSI ABOVE THE SCREEN'S OPERATING PRESSURE. (0.25 NPT) SEAL WATER MUST BE FILTERED TO BE FREE OF PARTICLES LARGER THAN 50 MICRONS.
J. SEAL WATER DRAIN (DO NOT PIPE TO OR FROM THIS DRAIN)
K. LIGHTWEIGHT REJECTS (1.50 NPT) (200# FNW GATE VALVE).
L. GREASE FITTINGS FOR UPPER & LOWER BEARINGS
M. 16.00 INLET VAN STONE FLANGE (150# DRILL)
N. 16.00 ACCEPT VAN STONE FLANGE (150# DRILL)
P. 6.00 REJECT VAN STONE FLANGE (150# DRILL)
R. VIBRATION ROD FOR BEARING ANALYSIS HOOK-UP
S. FOUNDATION HEIGHT BY CUSTOMER. TYPICAL 12.00 - 18.00 INCHES
T. NOT SHOWN IN CORRECT ORIENTATION. SEE PLAN VIEW
U. 1.19 DIA. HOLE THRU (4 PLACES) HARDWARE BY CUSTOMER
V. 1.19 DIA. HOLE THRU (4 PLACES) HARDWARE BY CUSTOMER
X. 0.81 DIA. HOLE THRU (4 PLACES) HARDWARE BY CUSTOMER
W. RECOMMENDED 1.19 DIA. HOLE THRU (12 PLACES) HARDWARE BY CUSTOMER
Y. CUSTOMER TO SUPPLY DILUTION WATER TO THE SCREEN AT 60 GPM AND 15 PSI ABOVE THE SCREENS OPERATING PRESSURE. (2.00 NPT) CONTINUOUS DILUTION WATER MAYBE NEEDED WHEN SCREENS ARE RUNNING WITH STOCK CONSISTENCY ABOVE 2.0%.
Z. DRAIN WITH PLUG

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Rev.	No. of Index Sheet	Rev. no.	Rev. descr. (shop and eng. info only)	Date Dr.	Name	App.

Angular Tolerance: ±0° 30' (±1/2°)
Unbalanced Hole Location True Position +.015
Gen. Tol.: Voith Std. No. 07, unless otherwise specified
Machined Surface Finish: 250 unless otherwise specified
All dimensions in inches, unless otherwise specified
Unspecified Fillets and Chamfers: .06
Threads: Englisch UNC-2, 2A-2B / Metric 6G-6H
Keyseat Tol.: ANSI B17.1-1967 (R 2), unless otherwise specified
Fit size | Tolerance

Code/work/shift | Release note | Facility 92

Item no. 140723
Scale of orig. 1:12
Weight SEE ABOVE lbs

	Date	Name
Dr.	2003-01-27	RTW
Ck.	2003-01-28	IGE
Appr.	SP	
		AprATH

Title
SCREEN VPS20
INSTALLATION DETAILS VPS20

VOITH
Orig. 887801237
Drawing no. 887801237
Rev.
Sheet 1
1 Sh.

D 22x34