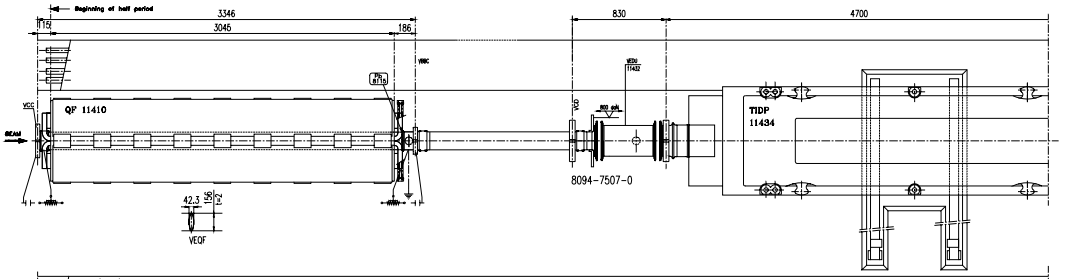

KEY TO SYMBOLS

- Earthing point for vacuum chamber
- DAMPING RESISTORS
- Short without fixation
- Short with fixation
- Long without fixation
- Long with fixation
- Insulated quick disconnect joint (enamelled flange on side carrying pointer)
- Vacuum chamber suspect (capable of withstanding force of 200daN along beam axis)
- Support (withstanding no force along the beam)
- Support insulated electricaly from vacuum chamber
- Maximum offset in flexible element
- Displacement of special elements
  - H= Horizontal displacement
  - V= Vertical displacement
  - initial position (basic fixed displacement)
  - After running-in (max. additional fixed displacement)
  - in service (max. additional displacement)
  - Remote control in service

Example shows that maximum total horizontal displacement in service will be 9+7+6=21mm

NOTA: VPSA,VPRS and VCHA,VGHBare insulated from vacuum chamber and earthed separately

APERTURE OF THE VACUUM CHAMBER

Vacuum chamber cross section with tolerance control dimensions under vacuum, in-plan thickness

Vacuum Item	Drawing Item	Notes
VBBC	8095-5007-2	#86
VEDU	8095-	
VMEP	8095-4346-1	#159
VELB	8095-	#159
VITO	8095-3019-2	#86
VTSA	8095-3120-2	#86
VEQD	8094-7036-0	Tube QD #86
VEBB	8094-7246-1	Tube MBB
VEBA	8094-7047-1	Tube MBA
VEQF	8094-7007-0	Tube QF

Machine element	Drawing element	Drawing support
TIDP	8034-2-949-0	8034-2-931-0 / 8034-2-932-0
MPSV	8032-9-13-0	
LSDB	8017-2106-1	
MDV	8016-2053-1	8014-7011-0
BPV	7061-0157-0	
BL	8012-2060-1	
GHC	8014-7434-0	
MBB	8011-2008-1	8014-6000-1 / 8014-6006-1
QD	8012-1025-0	8014-6005-2
QF		8014-6003-2

SITUATION

Echelles 10cm = 1m

LAYOUT D'INSTALLATION MACHINES LEP-SPS — SPS LSS1 — DEMI PERIODE QF11410 - QD11510 — SPS LSS1 — HALF PERIOD QF11410 - QD11510

SCALE 1/10 — DRAWN — J.MAILLARD 2000-02-03 — CHECKED — 2000-02-15 — ISSUED — 2000-02-15

SPS LSS1 INSTALLATION LAYOUT

SPSLNINS0001 B C

REV.	DATE	NOM/NAME	ZONE	MODIFICATION
C	2000-02-15	J. MAILLARD		
B	2000-02-14	J. MAILLARD		
A	2000-02-03	J. MAILLARD		

VERSION 2000

MAI J. JOUR

PROJECT ENGINEER — EXECUTION