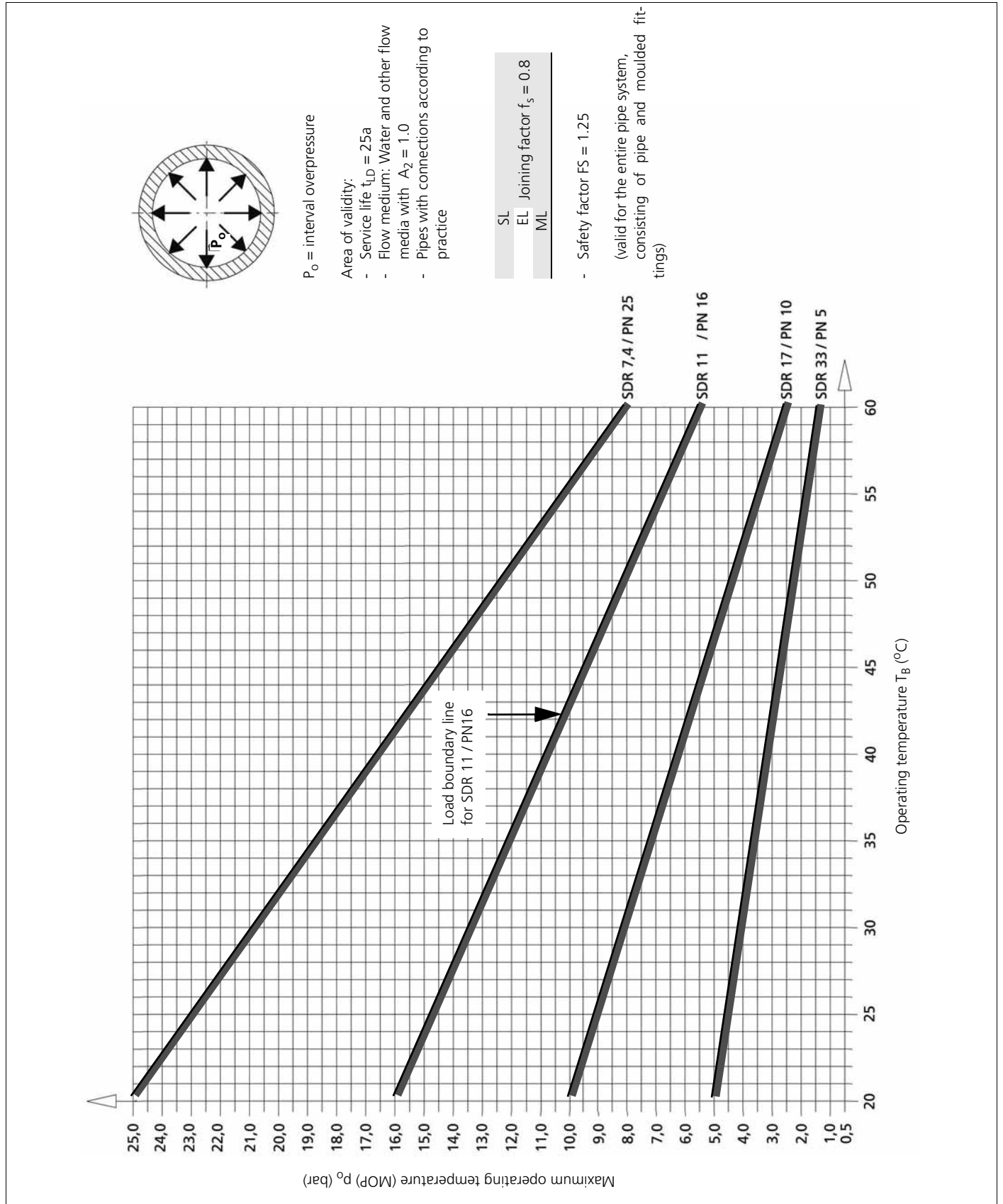


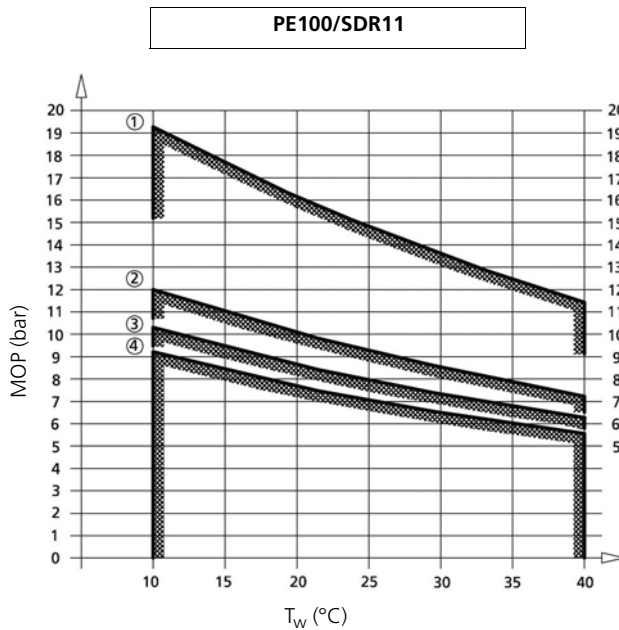
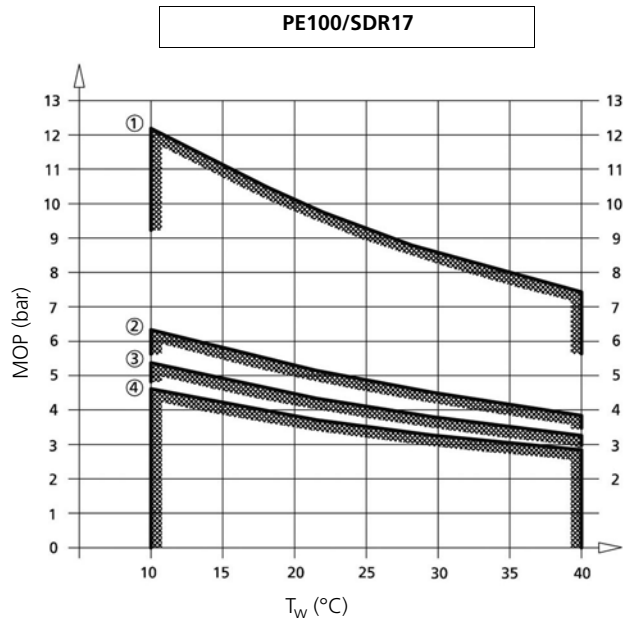
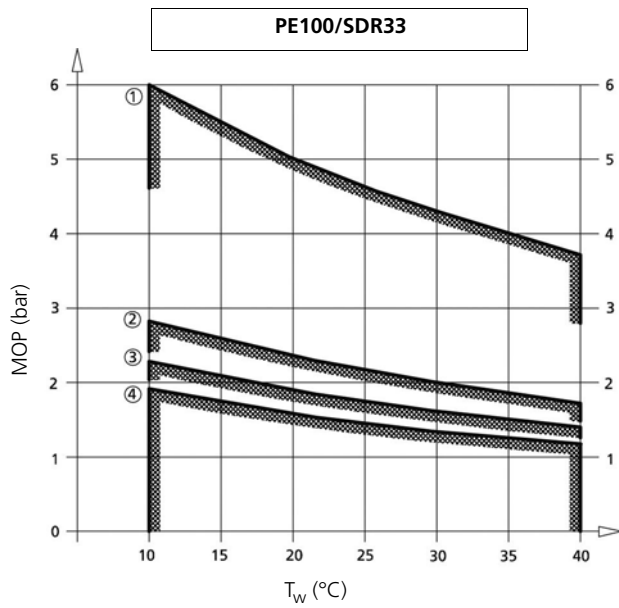
Appendix B - Diagrams: Pressure pipe systems

B-1 Maximum operating pressure for PE100 pressure pipe systems



Appendix B - Diagrams: Pressure pipe systems

B-2 Maximum operating pressure for pipes and fittings of PE100 / SF = 1.25

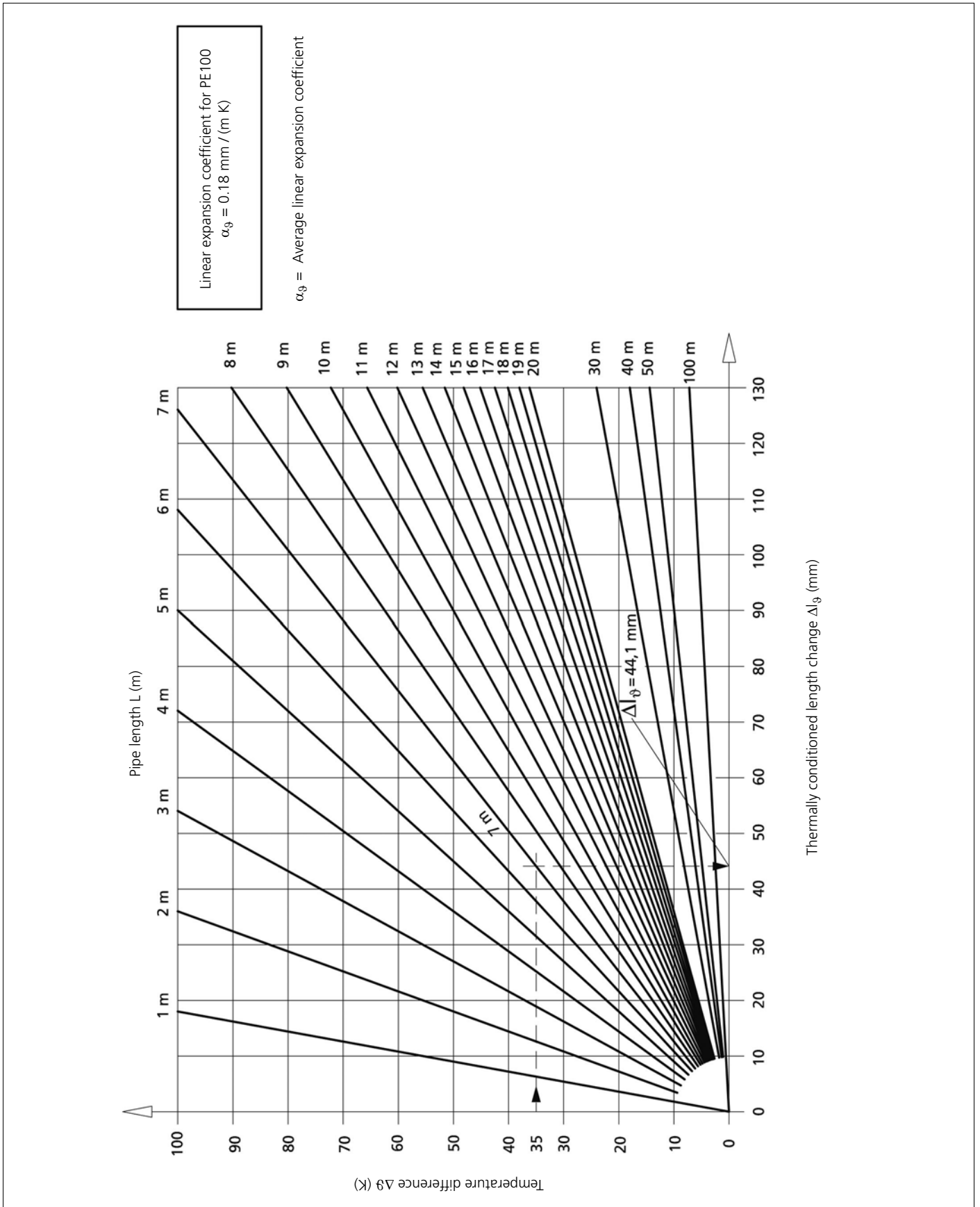


The indicated values do not apply to pipes exposed to UV radiation. Maximum operating pressures of <1 are not included in the tables. For Siphonic Roof Drainage and Soil & Waste Systems, see the Technical Manual and pricelist for Akatherm Specialist Drainage Systems.

- ① = pipe, injection fittings, seamless bends and welded bends = 30°
- ② = welded bends >30°- 90°, tees 90° welded
- ③ = welded 60° tees
- ④ = welded 45° tees

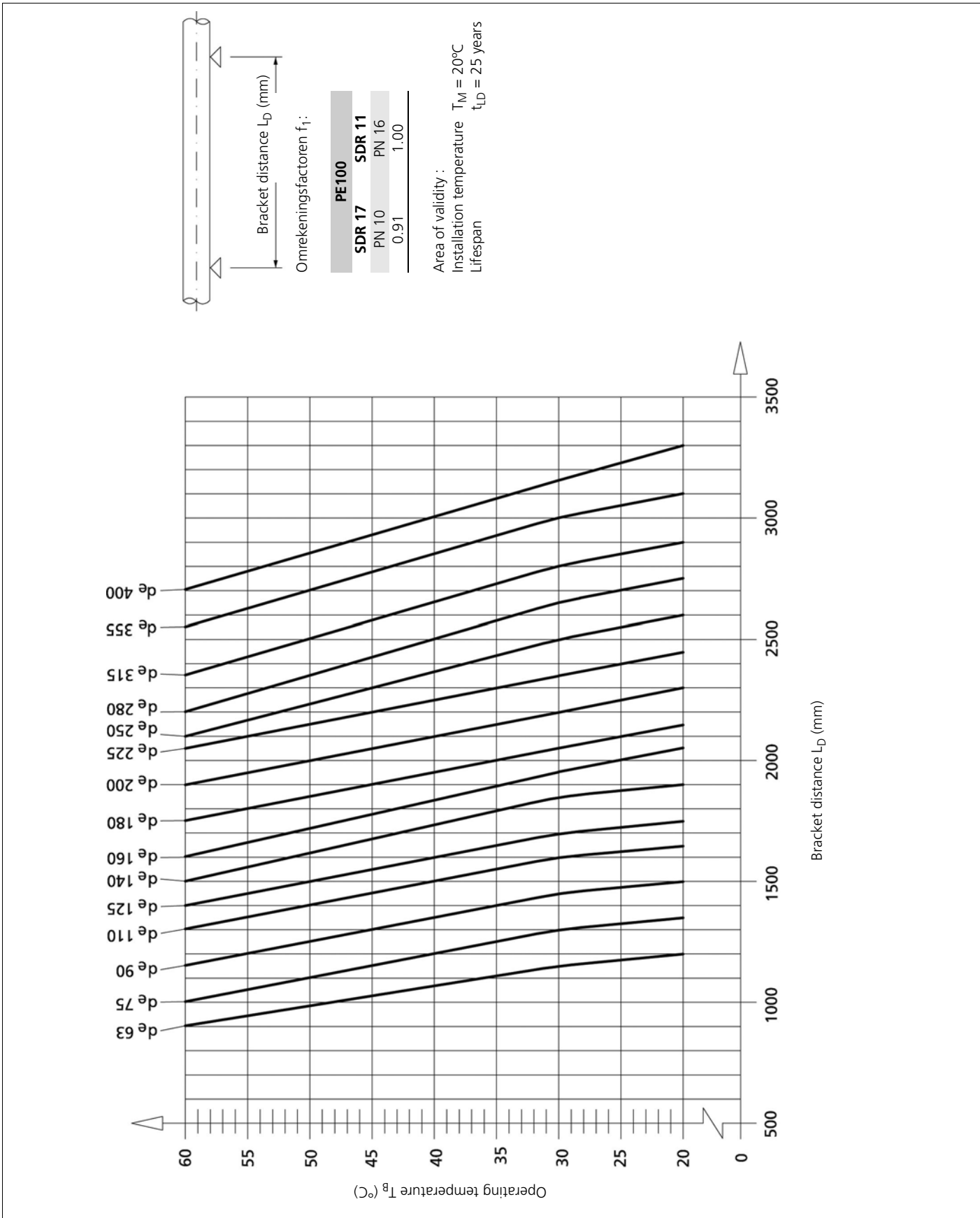
SF = safety factor 1.25
 t_d = lifespan 25a
MOP = internal pressure
 T_w (°C) = pipe wall temperature

B-3 Thermal length change in PE100 pipe systems

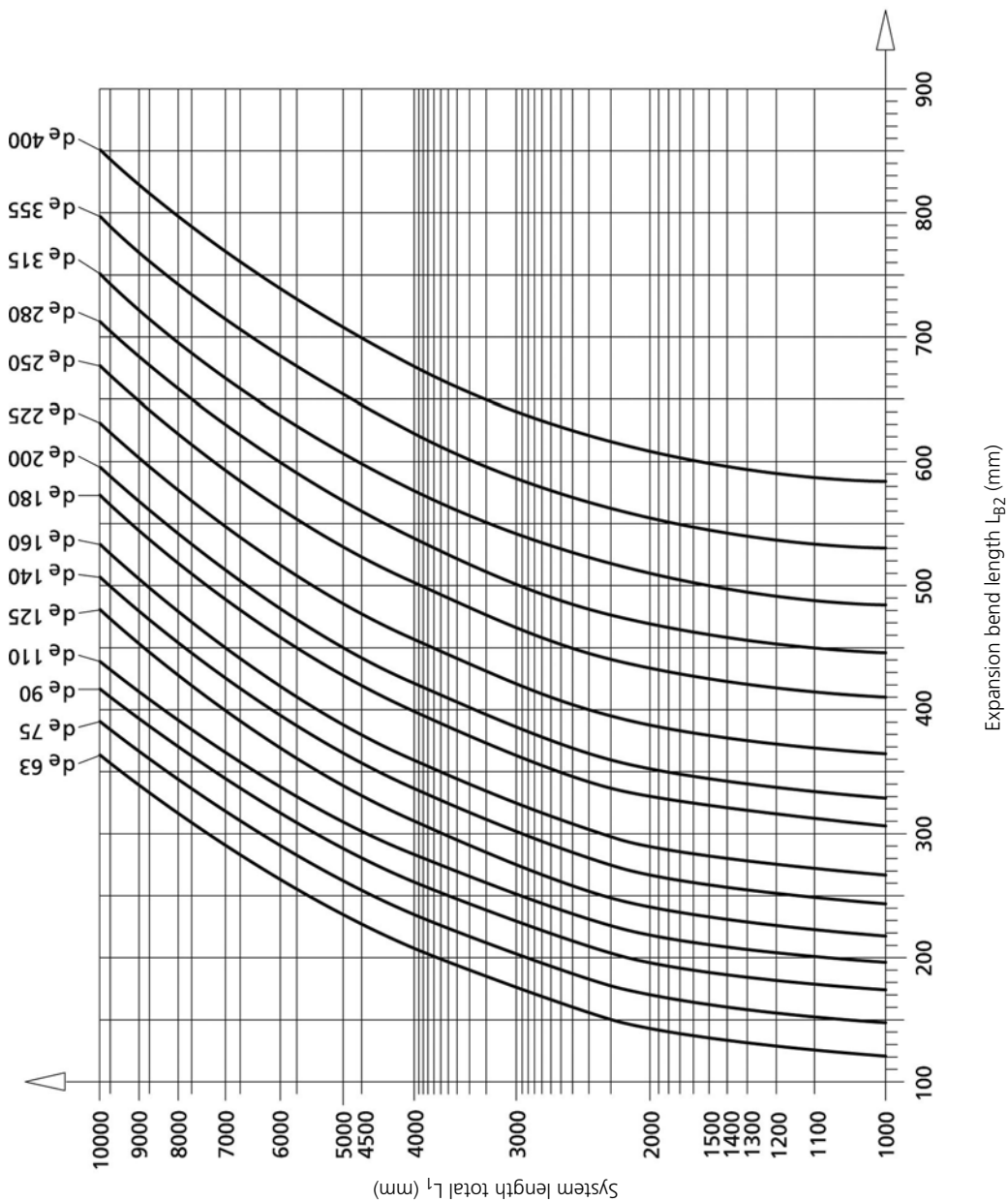
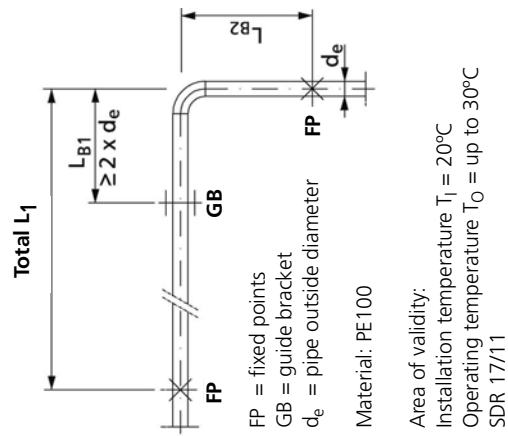


Appendix B - Diagrams: Pressure pipe systems

B-4 Acceptable support distance for water-filled PE100 pipes according to DVS guideline 2210 P1

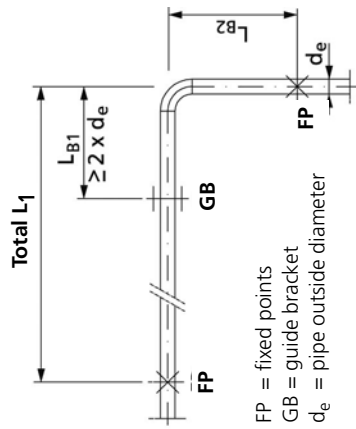


B-5 L-expansion bends



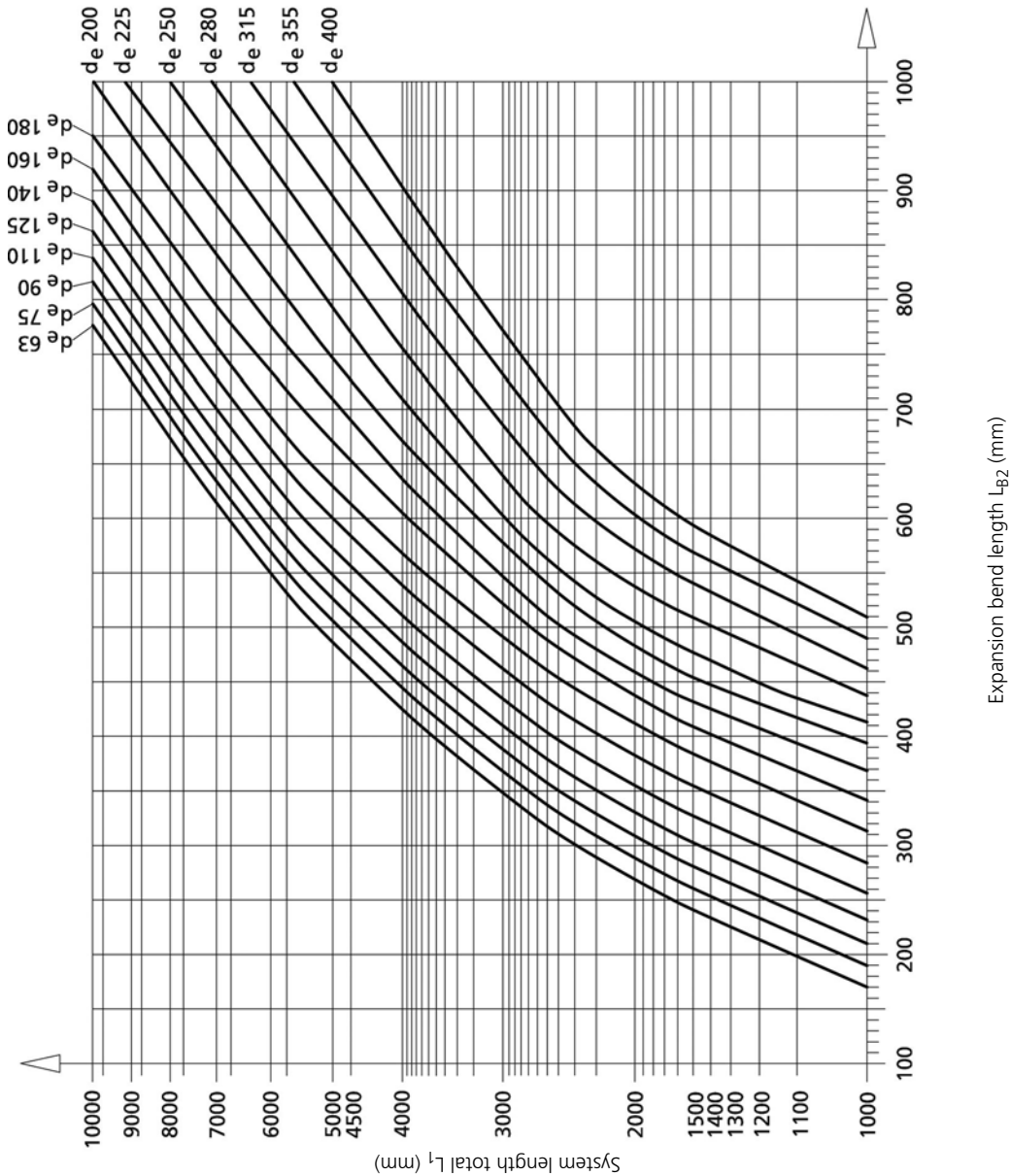
Appendix B - Diagrams: Pressure pipe systems

B-6 L-expansion bends

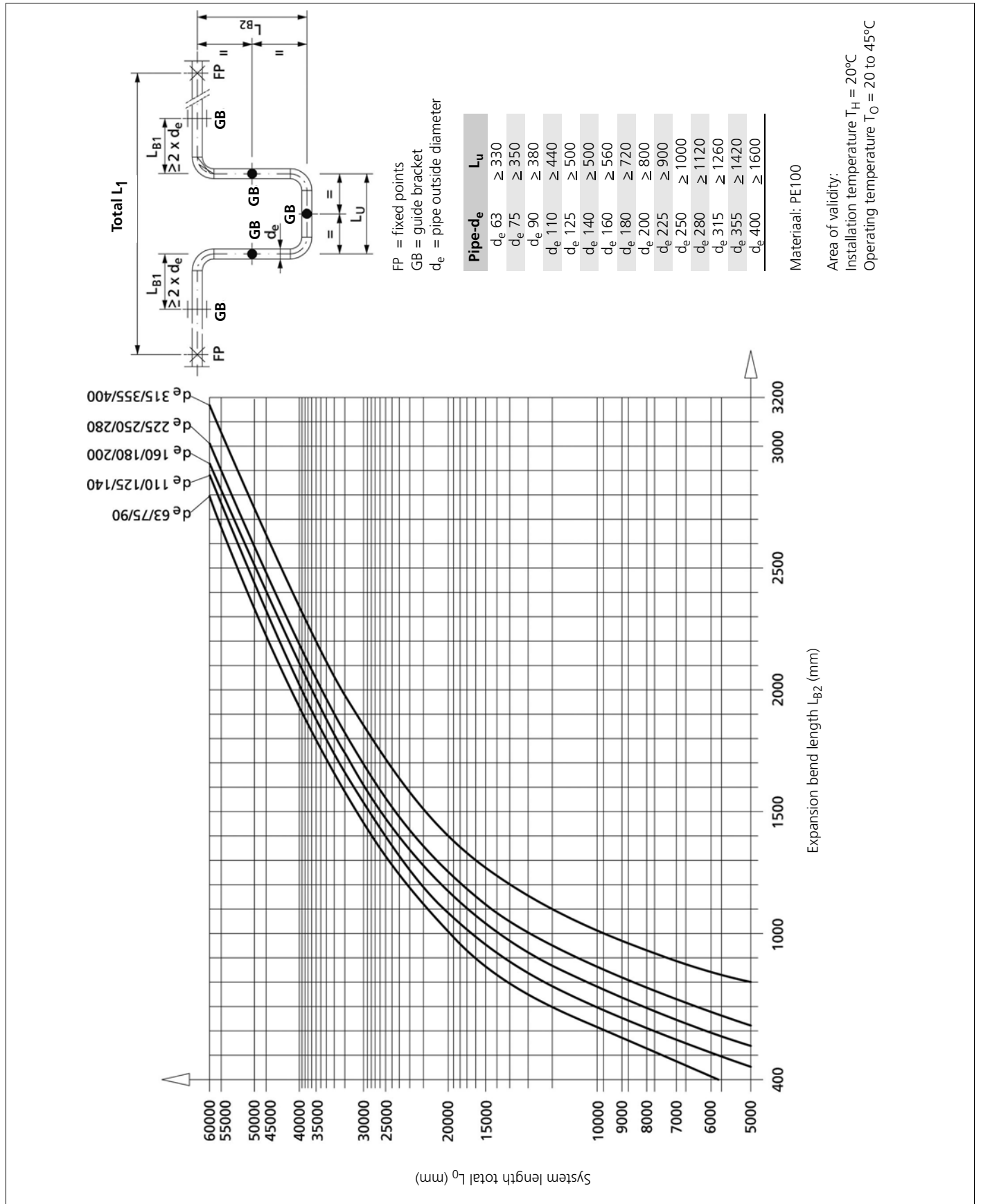


FP = fixed points
 GB = guide bracket
 d_e = pipe outside diameter
 Material: PE100

Area of validity:
 Installation temperature $T_i = 20^\circ\text{C}$
 Operating temperature $T_o = \text{up to } 30^\circ\text{C}$
 SDR 17/11

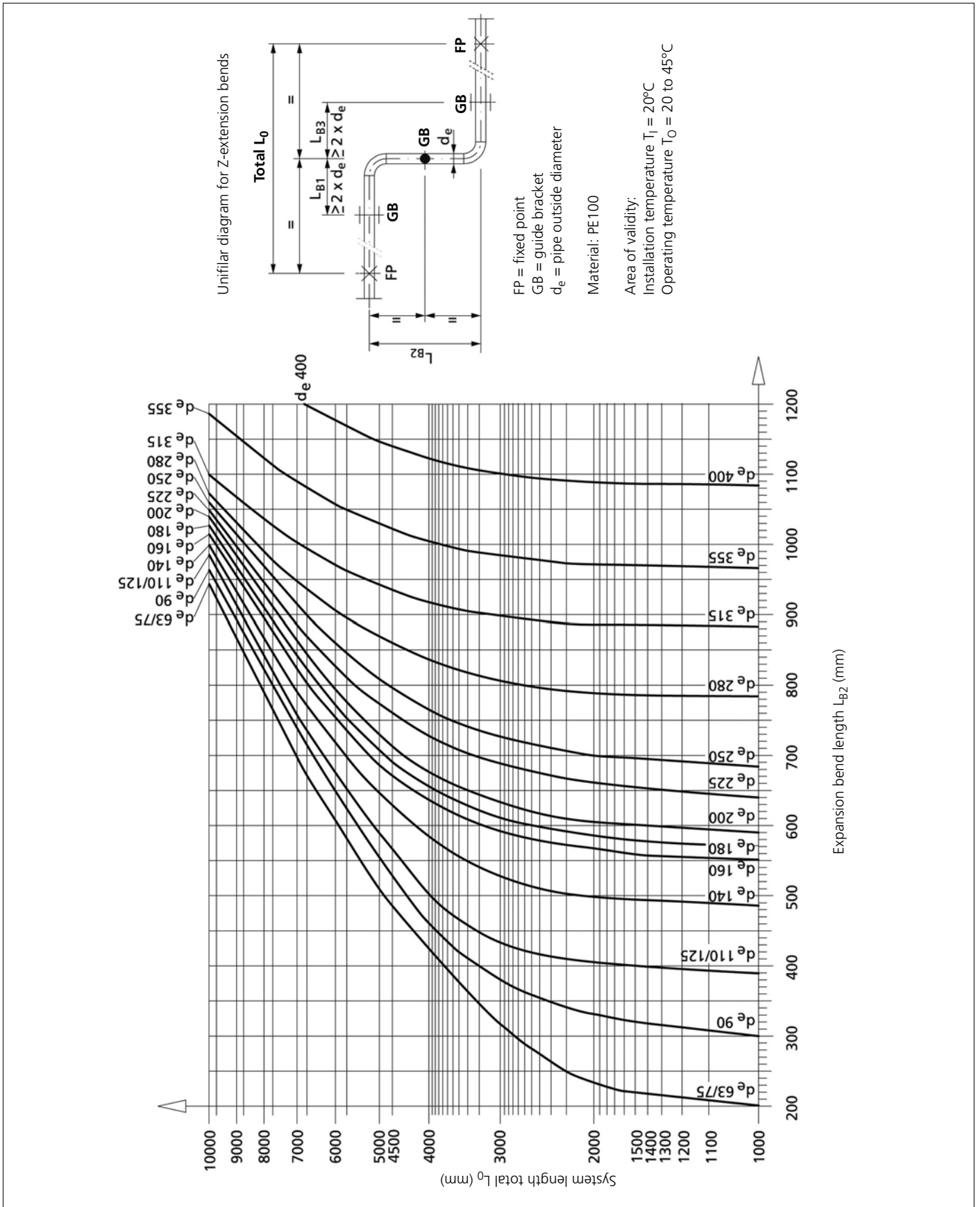


B-7 U-expansion bends

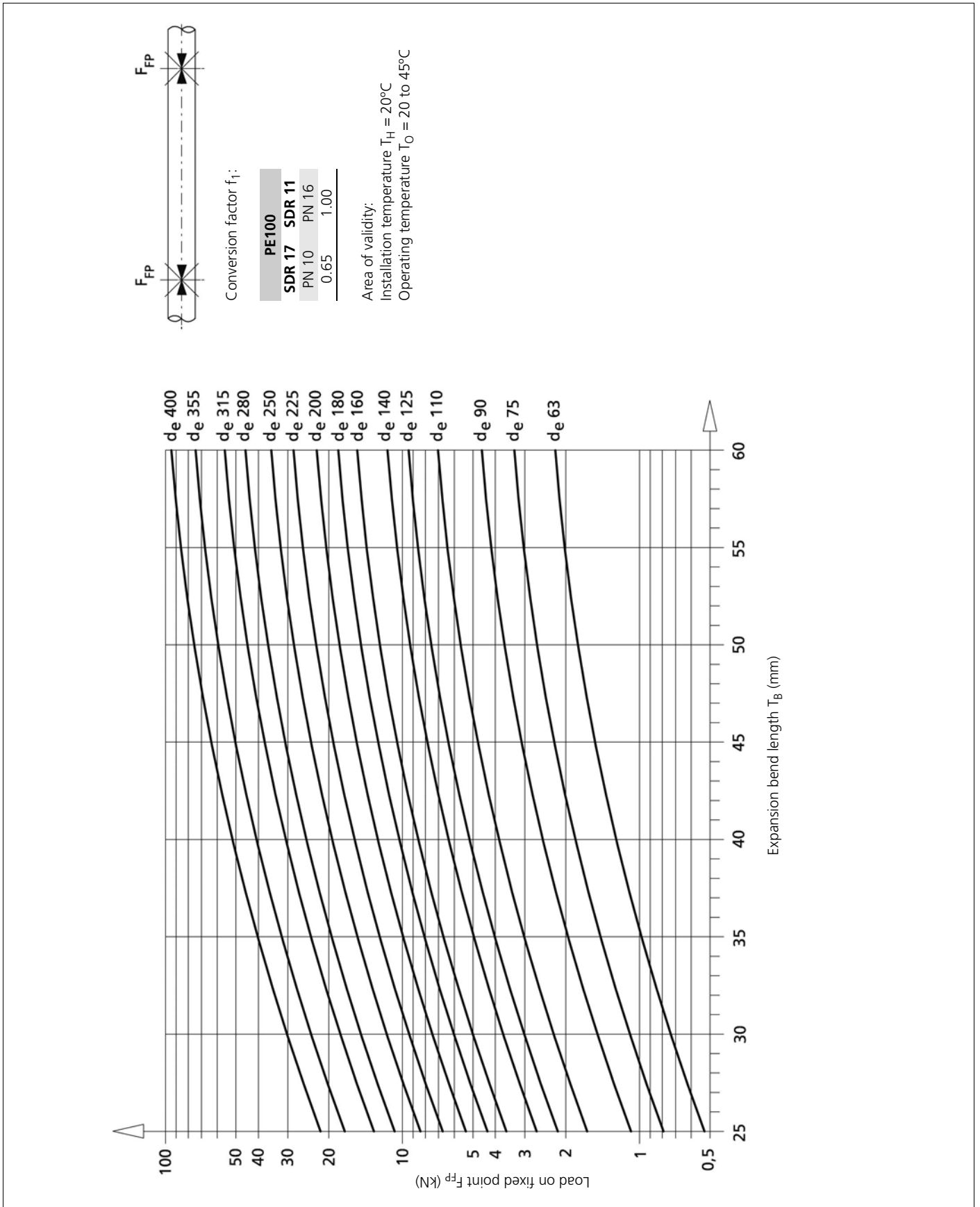


Appendix B - Diagrams: Pressure pipe systems

B-8 Z-extension bends

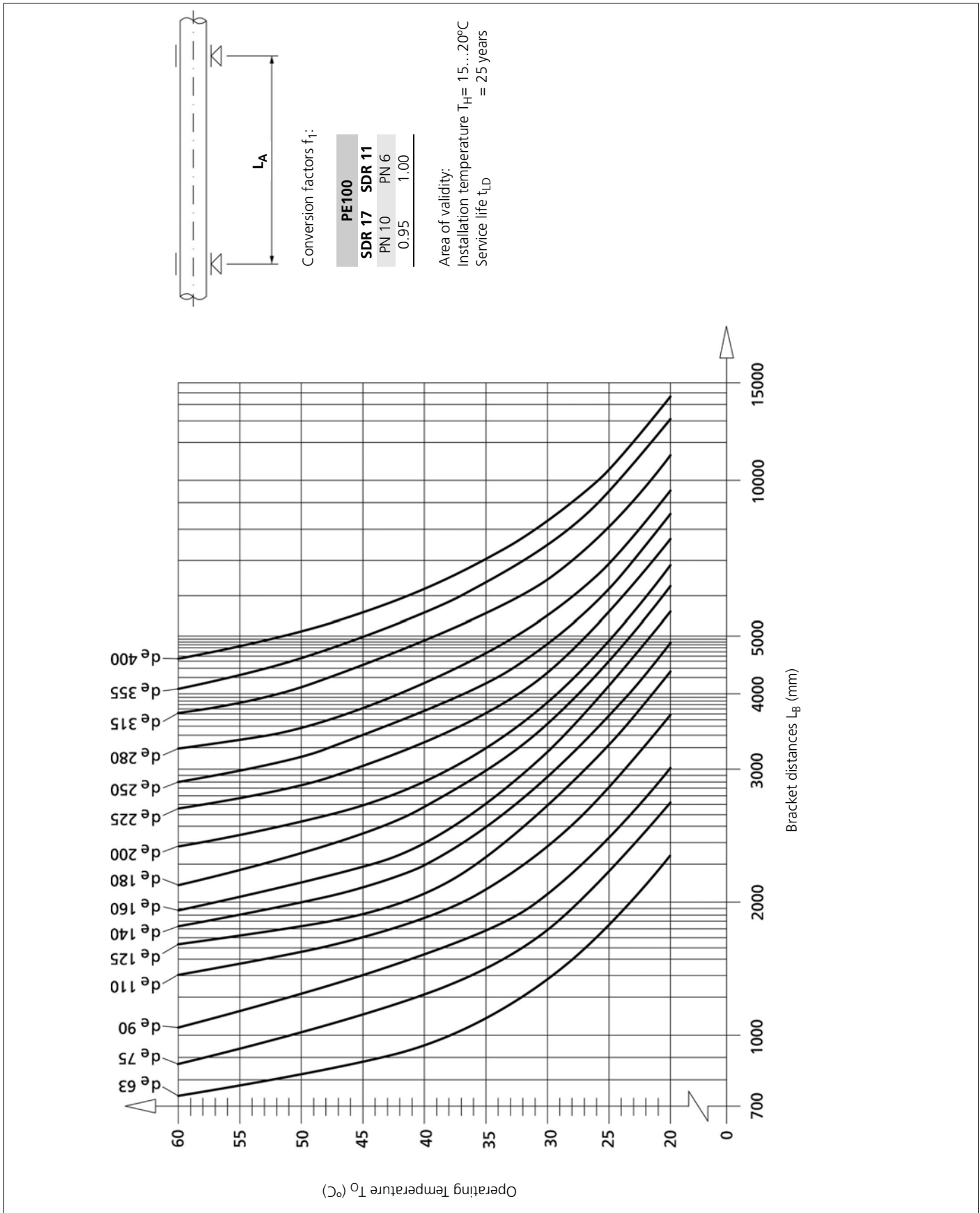


B-9 Forces at fixed points in axial constricted PE100 pipe systems



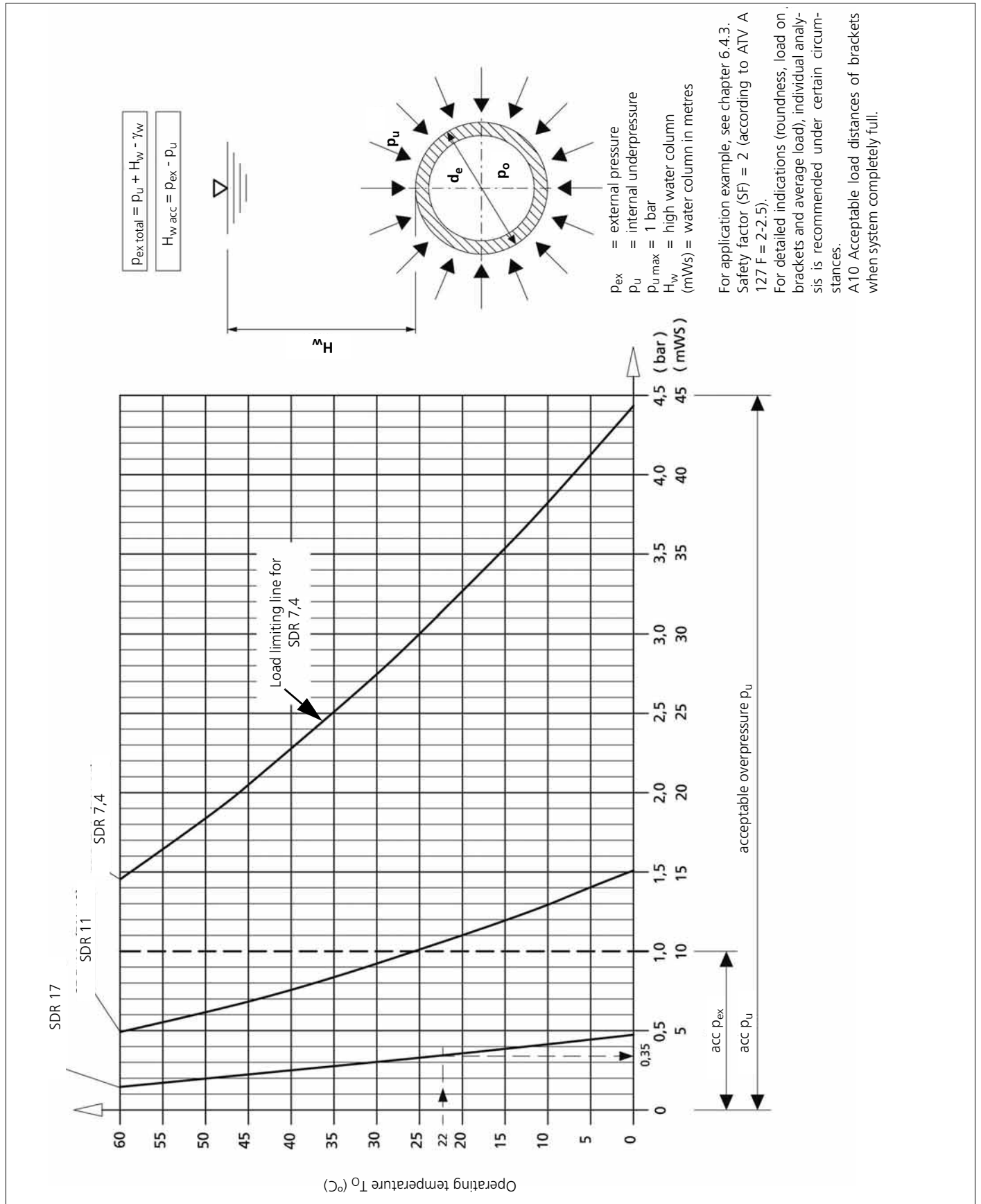
Appendix B - Diagrams: Pressure pipe systems

B-10 Bracket distances in axial constricted PE100 pipe systems



Appendix B - Diagrams: Pressure pipe systems

B-11 External pressure load or underpressure load of PE100 pipe systems (SDR 17, SDR 11)



Appendix B - Diagrams: Pressure pipe systems

B-12 Primary times for butt welding of PE100 pipes and fittings

