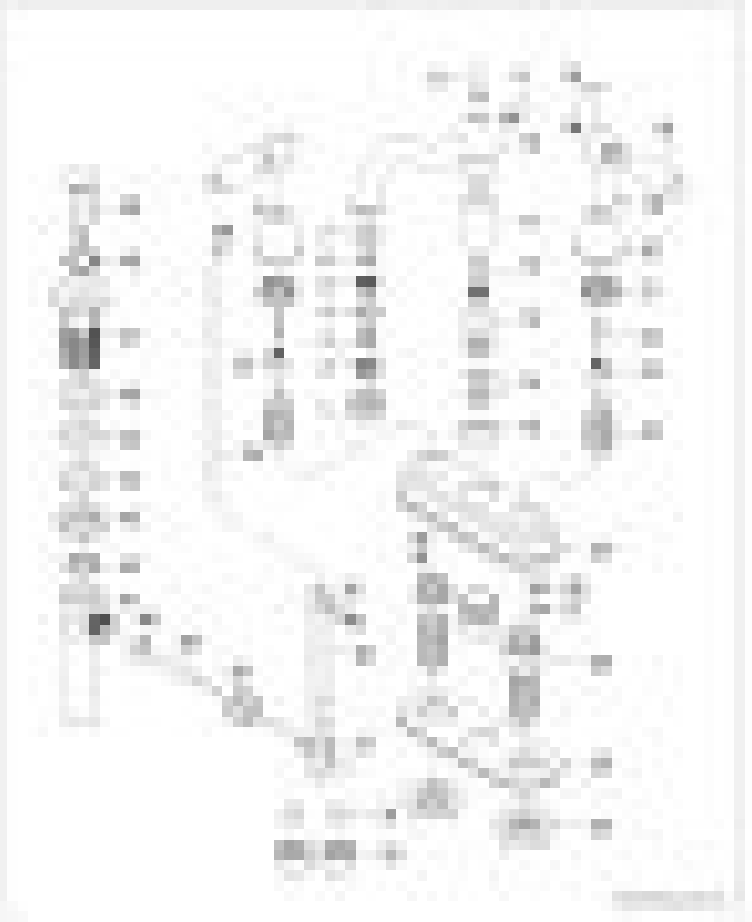VIRTUAL