

# TECHNICAL BULLETIN

## 23

### GRAPHITE SEAL IN VALVES FOR BREATHABLE GAS LINES

THE PRESENT TECHNICAL BULLETIN CONTAINS TECHNICAL INFORMATION AIMED TO SUPPORT/IMPROVE DRASS EQUIPMENT CURRENTLY IN OPERATION.

YOU ARE KINDLY REQUESTED TO:

- COMMUNICATE IF THIS DOCUMENT AND THOSE FOLLOWING HAVE TO BE SENT TO DIFFERENT E-MAIL ADDRESSES.
- REVERT FOR ANY CLARIFICATION NEEDED.
- INVOLVE DRASS FOR IMPLEMENTATION OF SUGGESTED MODIFICATIONS (IF ANY).
- ALWAYS INFORM DRASS OF ANY MODIFICATION TO DRASS EQUIPMENT TO VERIFY SAFETY, ALLOW TRACEABILITY AND LIFE CYCLE SUPPORT.

PLEASE NOTE THAT TECHNICAL BULLETINS WILL BE AVAILABLE AT [WWW.DRASS.IT](http://WWW.DRASS.IT) FOR PERMANENT CONSULTATION.

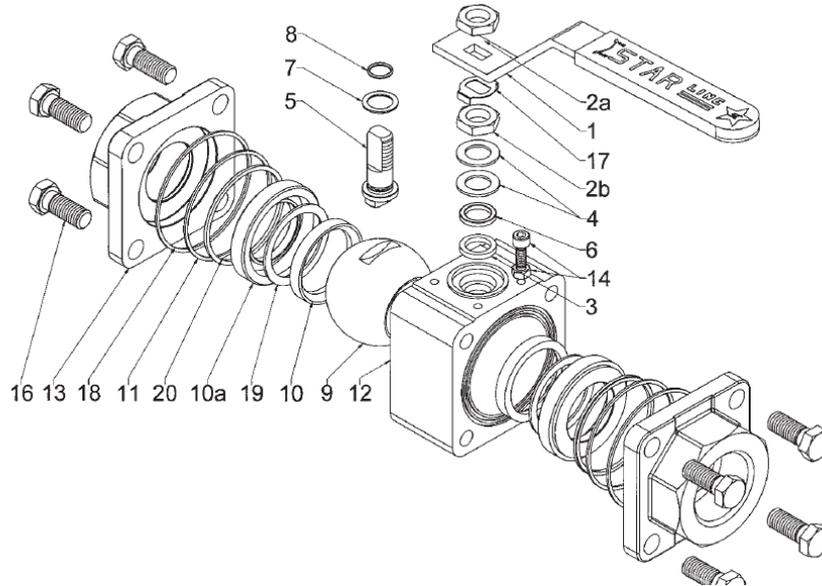
#### REASON FOR ISSUE

DRASS HAS VERIFIED A BETTER PERFORMANCE OF THE VALVES PN **46SD2009** / **46SD070** MAINLY USED IN RECIRCULATION OF AERATING GAS (ECU LINES), BY REPLACING THE GRAPHITE SEALS TO PTFE.

#### DESCRIPTION

FOR THE ABOVE-INDICATED VALVES, FOLLOWING A TECHNICAL EVALUATION OF THE OEM WE CONFIRM THAT, REPLACING THE MATERIAL OF SEAL 18 (SECONDARY SEAL OF THE BODY) OF THE VALVES FROM GRAPHITE TO PTFE,

THE GRIP AND DURABILITY ARE INCREASED. SUCH MODIFICATION DOES NOT INVOLVE ANY CHANGES IN THE BEHAVIOR OF THE VALVE DURING ITS NORMAL OPERATION.



THIS GRAPHITE SEAL HAS A STATIC FUNCTION; IT IS NOT IN CONTACT WITH THE PROCESS AND IS NOT HARMFUL. THESE VALVES ARE FIRE-SAFE CERTIFIED, AND IN CASE IT SHOULD BE NECESSARY, IF THE FIRST SEAL LOSES ITS FUNCTIONALITY, GRAPHITE GASKET ENSURES THE NECESSARY EXTERNAL SEALING.

THERE IS NO CONTACT WITH THE PROCESS, AND DUE TO THE STATIC NATURE OF THE SEAL, DRASS CONFIRMS THAT THERE ARE NO MATERIAL COMPATIBILITY ISSUES WITH THE BREATHING GAS. ON THE OTHER SIDE, INSTALLING A PTFE GASKET DOES NOT AFFECT THE PERFORMANCE OF THE VALVE EXCEPT FOR CASES IN WHICH THERE IS PRESENCE OF FIRE.

NEVERTHELESS, USING AN EXTERNAL PTFE SEAL WILL INCREASE THE COMPATIBILITY OF THE VALVE TO THE SECOND STAGE OF SEALING.

THE IMPROVEMENT KIT CAN BE REQUESTED FROM [ADELINA.BLAGA@DRASS.IT](mailto:ADELINA.BLAGA@DRASS.IT), AND COPY TO [SALES@DRASS.IT](mailto:SALES@DRASS.IT) WITH REFERENCE TO "TECHNICAL BULLETIN 23"

### RECOMMENDATIONS

1. USE ONLY DRASS ORIGINAL UPGRADE KIT
2. RECORD THE MODIFICATION IN THE DOCUMENTATION OF THE DIVING SYSTEM
3. REPORT THE EXECUTION OF THE IMPROVEMENT AS PER OEM RECOMMENDATIONS TO THE CLASS SURVEYOR DURING THE ANNUAL SURVEY.