

ITM 40

OCT. 08, 2015

ACT (Advanced Coating Technology) FIRST STAGE POPPET INFO

MARES TECHNICAL DEPARTMENT IS PLEASED TO INFORM YOU THE NEW ACT POPPET (# 46201361) IS CURRENTLY ASSEMBLED ON ALL INLINE DIAPHRAGM FIRST STAGES WITH THE EXCEPTION OF THE ABYSS NAVY II. THERE WILL BE NO CHANGES MADE TO IT AT THIS TIME.

(SEE BTM 24)

THE REGULATOR MATERIAL NUMBERS WILL STAY THE SAME. THE REGULATORS ASSEMBLED WITH THE NEW ACT POPPET, WILL BE EASILY IDENTIFIED BY AN "X" PRINTED ON THE CARDBOARD BOX AND ALSO PLACED ON THE FIRST STAGE PLASTIC PROTECTION COVER.

EXAMPLE: ABYSS 22 = ABYSS 22X

THE MAIN FEATURES OF THE ACT POPPET ARE:

- MADE OF TWO MATERIALS:
CHROME PLATED BRASS – LESS FRICTION OF THE STEM
- ACT COATING PROCESS

EFFECTIVE SEPTEMBER 2015, ALL 1ST STAGE SERVICE KITS INCLUDE THE ACT POPPET, EXCEPT FOR THE ABYSS 22 NAVY II SERVICE KITS (INT: # 46186152 / DIN: # 46200606) DUE TO US NAVY PROTOCOLS.

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|--|------------|
| • FIRST STAGE 52X-22X-15X INT/DIN: | # 46201355 |
| • FIRST STAGE 52X-22X-15X INT/DIN VITON: | # 46201358 |
| • FIRST STAGE 12S INT/DIN: | # 46201370 |
| • FIRST STAGE 12S INT/DIN VITON: | # 46201371 |



NOTE: SOME SERVICE KITS ARE USED FOR MULTIPLE FIRST STAGE MODELS. (I.E. KIT #46200906 (EXCLUDES POPPET) IS USED FOR THE 22, MR16, AND MR32). THESE SERVICE KITS WILL CONTINUE UNTIL THE CURRENT STOCK IS EXHAUSTED. AT THAT TIME, IT WILL BE REPLACED BY SERVICE KITS THAT WILL INCLUDE THE ACT POPPET. CHECK WITH MARES HQ FOR DETAILS).

NOTE: THE CURRENT MR UPGRADE KIT (#46200705) WILL BE DISCONTINUED AND REPLACED BY THE **ACT UPGRADE KIT (#46201386)**.

NOTE

VALVE SEAT CODE# 46201139 (R0.15) IS NO LONGER AVAILABLE AND HAS BEEN REPLACED WITH THE VALVE SEAT CODE# 46186216 (R0.05) IN THE SPARE PARTS CATALOG. MARES TECHNICAL DEPARTMENT SUGGESTS THE USE OF THE NEW VALVE SEAT CODE# 46186216 IN ORDER TO PRODUCE OPTIMUM PERFORMANCE OF THE ACT FIRST STAGE POPPET, PARTICULARLY IN DIN (300 BAR) FIRST STAGES.

IMPORTANT

ALL SERVICE AND REPAIR PROCEDURES ON MARES PRODUCTS SHOULD BE PERFORMED BY QUALIFIED MARES SERVICE TECHNICIANS AT AUTHORIZED MARES SERVICE CENTER.

SERVICE TECHNICIANS SHOULD HAVE THE LATEST VERSION OF THE MARES SERVICE MANUAL AND SPARE PART CATALOG READILY AVAILABLE WHILE PERFORMING SERVICE PROCEDURES AND CLOSELY FOLLOW THE RECOMMENDED PROCEDURES AND GUIDELINE OUTLINED IN THESE MATERIALS.

TB 38
SPRING 50N
SEPT 2020

The technical department of Mares S.p.A. announces a spring modification. The new spring is stronger than the previous, at 50N vs. 30N. The new spring is designed and tested to guarantee a better seal, especially in cold water.

The new 50N spring is longer and wider compared to the 30N spring, therefore it must be assembled **ONLY** with a new trimaterial Poppet and the new HP Chamber.

The new parts can easily be identified following the pictures below.

ACTUAL 30N VERSION	NEW 50N VERSION	IDENTIFICATION
SPRING 30N COD. 46201284 	SPRING 50N COD. 46202047 	- Longer: 24mm VS 20mm - Wider diameter: 9mm vs 8.5mm
Poppet Trimat. 2k18 CPL COD. 46201575 	Poppet Trimat. 50NCPL COD. 46201784 	- Bigger base: 12.2mm vs 11.5mm
HP Chamber COD. 46201275 	HP Chamber 50N COD. 46202045 	- Longer guide: 8.2mm vs 6mm - Wider diameter: 8.8mm vs 8.2mm


NOTE

- 1) The new parts already installed in the 62X and 28XR 1st stages
- 2) The new parts will be assembled in the 72X and 82X 1st stages as a running change
- 3) **ONLY** the 72X and the 82X can be updated with service Kit.: 46201791 Kit Upgrade First Stage 50N
- 4) As a consequence of point 3, the new service kits will be:
 - 46201789 Service Kit first stage 72X-AST-50N
 - 46201787 Service Kit first stage 82X-50N


WARNING

ALL SERVICE AND REPAIR PROCEDURES ON MARES PRODUCTS SHOULD BE PERFORMED BY QUALIFIED MARES SERVICE TECHNICIANS AT AUTHORIZED MARES DEALERS AND SERVICE CENTERS. SERVICE TECHNICIANS SHOULD HAVE THE MARES SERVICE MANUAL AND SPARE PARTS CATALOG READILY AVAILABLE FOR REFERENCE WHILE PERFORMING SERVICE PROCEDURES AND CLOSELY FOLLOW THE RECOMMENDED PROCEDURES AND GUIDELINES OUTLINED IN THESE MATERIALS.

TB 42-BIS
DEC 2022
NEW TRIMATERIAL POPPET 2K22

The technical department of Mares S.p.A. would like to announce a Trimaterial Poppet modification.

The new Poppet is softer than the previous one, designed and tested to provide a better seal, especially in cold water. The new parts can easily be identified following the pictures below.

ACTUAL 30N VERSION	ACTUAL 50N VERSION
Poppet Trimat. 2k18 CPL COD. 46201575 Poppet Trimat. 2k18 CPL COD. 46201575 	Poppet Trimat. 50N CPL COD. 46201784 
NEW 30N VERSION 2k22	NEW 50N VERSION 2k22
Poppet Trimat. 2k22 30N CPL COD. 46201815 	Poppet Trimat. 2k22 50N CPL COD. 46201816 


NOTE

1) The new poppet will be assembled in other Mares 1st stages as a running change.

2) As a consequence of TB42, the new service kits will be:

46201784	Poppet Trimat 50N cpl>	will be replaced by>	46201816	Poppet Trimat 2k22 50N CPL
46201575	Trimaterial Poppet 2k18 cpl>	will be replaced by>	46201815	Poppet Trimat 2k22 30N CPL
46201355	Service Kit 22X INT-DIN >	will be replaced by>	46201827	Service Kit 22X 2k22
46201370	Service Kit 12S INT-DIN >	will be replaced by>	46201828	Service Kit 12S-2k22
46201572	Service Kit 75XR DIN >	will be replaced by>	46201829	Service kit 1st Stage 75XR-30N-2k22
46201580	Service Kit 52X-15X-25XR INT DIN >	will be replaced by>	46201830	Service Kit 52X-15X-25XR-30N-2k22
46201739	Service kit first stage 82X >	will be replaced by>	46201831	Service kit first stage 82X-30N-2k22
46201741	Service kit 1st stage 52X/25XR AST >	will be replaced by>	46201832	Service kit 1st stage 52X/25XR AST-30N-2k22
46201744	Service kit NX 1ST 52X AST (EN 13949) >	will be replaced by>	46201833	Service kit NX 1st 52X AST (EN 13949) 2k22
46201780	Service kit 1st stage 72X AST >	will be replaced by>	46201834	Service kit 1st stage 72X AST-30N-2k22
46201820	Service Kit 15X-HRZ-30N-AST >	will be replaced by>	46201835	Service Kit 15X-HRZ-30N-AST-2k22
46201792	Service Kit first stage 62X INT/DIN >	will be replaced by>	46201836	Service Kit 62X 2k22
46201787	Service kit first stage 82x-50N >	will be replaced by>	46201837	Service Kit 82X-50N-2k22
46201789	Service kit first stage 72x-AST-50N >	will be replaced by>	46201838	Service Kit 72X-50N-2k22
46201802	Service Kit first stage 15X-50N-AST>	will be replaced by>	46201839	Service Kit 15X-50N-AST 2k22
46201800	Service Kit first stage 15X-50N >	will be replaced by>	46201840	Service Kit 15X-50N 2k22
46201807	Service Kit first stage 15X-HRZ-50N-AST>	will be replaced by>	46201841	Service Kit 15X-HRZ-50N-AST 2k22
46201783	Service Kit first stage 28XR DIN/NX>	will be replaced by>	46201860	Service Kit 28XR-DIN-NX-2k22
46201818	Service Kit first stage 25XR-50N-TBP>	will be replaced by>	46201862	Service Kit 25XR-2k22


WARNING

All service and repair procedures on Mares products should be performed by qualified Mares Service Technicians at authorized Mares Dealers and Service Centers. Service Technicians should have the Mares Service Manual and Spare Parts Catalog readily available for reference while performing service procedures and closely follow the recommended procedures and guidelines outlined in these materials.

TB 40
SPRING 50N FOR 15X
MAR 2021

Mares S.p.A. introduces the new **15X Body***, suitable for the 50N Spring Upgrade Kit# 46201791. The new spring is designed and tested to guarantee a better seal, especially in cold water.

HOW TO IDENTIFY WHICH 15X* FIRST STAGES ARE COMPATIBLE FOR:
BODY A

NO mark inside the body


X
BODY B*

mark inside the body



COLUM 1: SPRING 30N VERSION	COLUM 2: SPRING 50N VERSION	COMPONENTS IDENTIFICATION
The components listed in the column 1 can be installed on both Body A and Body B	The components listed in the column 2 can be installed only on Body B	
SPRING 30N COD. 46201284 	SPRING 50N COD. 46202047 	- Longer: 24mm VS 20mm - Wider diameter: 9mm vs 8.5mm
Poppet Trimat. 2k18 CPL COD. 46201575 	Poppet Trimat. 50NCPL COD. 46201784 	- Bigger base: 12.2mm vs 11.5mm
HP Chamber COD. 46201275 	HP Chamber 50N COD. 46202045 	- Longer guide: 8.2mm vs 6mm - Wider diameter: 8.8mm vs 8.2mm


WARNING

THE COMPONENTS LISTED IN COLUMN 1 CANNOT BE MIXED WITH THE COMPONENTS LISTED IN COLUMN 2.


NOTE

- Only 15X (with the 1st stage modified body Body B*) can be upgrade with the Kit: 46201791 Kit Upgrade First Stage 50N
- As a consequence of point 1, the new Service Kits will be:
 - 46201800 Service Kit first stage 15X-50N-INT/DIN
 - 46201802 Service Kit first stage 15X-AST-50N-INT/DIN


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