

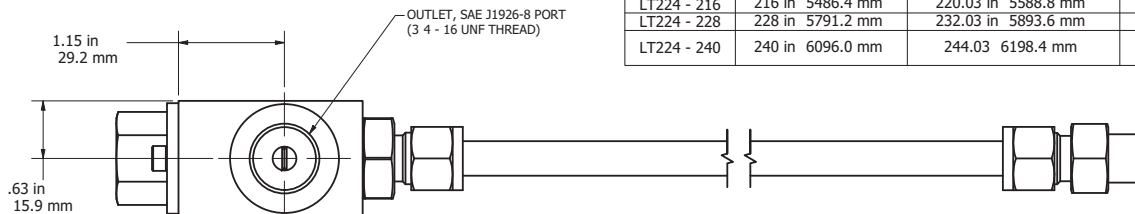
EXTERIOR MATERIALS:
 -6061-T6 ALUMINUM WITH TYPE 2 ANODIC FINISH
 -303, 304 AND 316 STAINLESS STEEL

WETTED MATERIALS, HYDROGEN:
 - 316L STAINLESS STEEL
 - SEALS

INSTALLATION REQUIREMENTS:

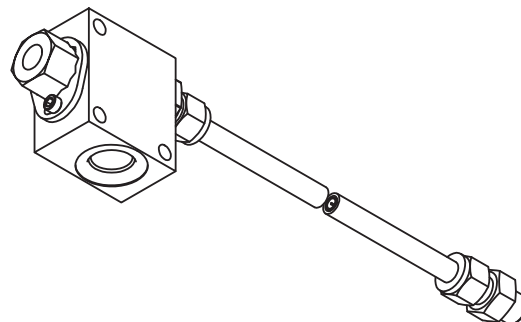
The following are minimum recommended practices for installation of the PRD to meet the functional requirements as tested. It is not a definitive list of mounting and integration considerations. All integration design issues are the responsibility of the entity designing the installation. Refer to Emcara's Component Literature for more information.

1. The PRD body must be secured to the frame using the provided mounting holes in a manner that prevents excessive vibration.
2. Unless otherwise determined and tested, the trigger element (tube) must be fixed to the vehicle
 - every 48" 120 cm or less
 - within 6" 15 cm from the end furthest from the body
 - in a manner that prevents flexing of the tube
 - in a manner that allows for thermal expansion
3. Vent lines connected to the outlet of the PRD must not allow water or debris to enter the PRD or to accumulate in the outlet system.
4. The inlet connections to the PRD should not allow accumulation of condensate in the PRD or lines leading to it.
5. Inlet and outlet connections must allow sufficient flow rate to not adversely affect the rated flow unless this is specifically desired.
6. All parts of the PRD must be shielded from non-fire heat such as exhaust systems.
7. The trigger element must see the same fire conditions as the tank or the system it is protecting.
8. This model is configured for the trigger element to have up to two bends totalling a maximum of 180°.



ESTIMATED PERFORMANCE:

- WORKING GAS: COMPRESSED HYDROGEN
- ACTIVATION TIME: 20-30 SECONDS
- 250L TANK EMPTIED IN UNDER 8 MINUTES (DEPENDING ON SYSTEM CONFIGURATIONS)
- NOMINAL WORKING PRESSURE (BASED ON HPRD1): 700 BAR
- ACTIVATION LENGTH: 18" 450 mm (DEPENDING ON CONFIGURATION)
- ACTIVATION TEMPERATURE: 124 ± 10 °C
- LEAK RATE: 1.0 * 10⁻⁵ SCCS



THIS DRAWING CONTAINS PROPRIETARY INFORMATION AND MAY NOT BE DISCLOSED WITHOUT PRIOR WRITTEN CONSENT.			
UNLESS OTHERWISE STATED: ALL DIMENSIONS ARE IN IMPERIAL INCHES TOLERANCE: ONE PLACE DEC. = ±.05 TWO PLACE DEC. = ±.01 THREE PLACE DEC. = ±.005 ANGLE = ± 1°		EMCARA GAS DEVELOPMENT INC.	
MATERIAL:		TITLE: LT224 - 700BAR HYDROGEN PRD	
FINISH:	SCALE: 1	SIZE DWG. NO. C LT224	REV NC
DO NOT SCALE DRAWING	WEIGHT:	SHEET 1 OF 1	