



DATE CODE TO APPEAR ON VALVE (YEAR-MONTH-DATE)

CALIBRATION:

VACUUM CHECK FUNCTION:
VALVE MUST BE 100% LEAK TESTED-

LEAK RATE NOT TO EXCEED 10 SCCM WITH 3 psi PRESSURE APPLIED TO VAC PORT & 15 psi APPLIED TO THE VAC PORT

OPENING CHARACTERISTICS:
SOURCE VACUUM REQUIRED TO OPEN VALVE MUST NOT EXCEED THREE INCHES Hg

FLOW CHARACTERISTICS:
FORWARD FLOW MUST BE MINIMUM OF 4.1 CFM WITH 14" Hg VACUUM APPLIED TO PORT A WITH PORT B OPEN TO ATMOSPHERE

VALVE MUST CONFORM TO ES-E25C-2005-AA SECTION III, M ONLY, WITH THE EXCEPTION OF PARAGRAPH M.1. a.

ALTERNATE CALIBRATION METHODS MAY BE USED PROVIDING PERFORMANCE IS EQUIVALENT TO THAT OBTAINED ON THE MASTER TEST STANDS

MATERIAL
BODY: ESF-M4D82-A
DIAPHRAGM: EPICHLOROHYDRIN
SAE J200-M2BG508 B14 E014 E034 F16 Z Z-45±5 DUROMETER

UNLESS OTHERWISE SPECIFIED:
BURRS-SHARP EDGES AND FOREIGN MATERIAL RESULTING FROM GOOD MANUFACTURING PRACTICES ARE ACCEPTABLE PROVIDING THEY ARE NOT DETRIMENTAL TO ASSEMBLY-FUNCTION OR SAFE HANDLING AS DETERMINED BY ENG PRODUCT ENGINEERING

FOR ENGINEERING APPROVED SOURCE SEE ENGINEERING NOTICE

ENGINEERING APPROVAL OF SAMPLES FROM EACH SUPPLIER IS REQUIRED PRIOR TO AUTHORIZATION OF PART PRODUCTION

ENGINEERING APPROVAL OF FIRST PRODUCTION SHIPMENT FROM EACH SUPPLIER IS REQUIRED PRIOR TO AUTHORIZATION FOR USE ON ENGINE PRODUCTION

CHANGES IN DESIGN - COMPOSITION OR PROCESSING FROM THE PART PREVIOUSLY APPROVED FOR PRODUCTION REQUIRE PRIOR ENGINEERING APPROVAL AS DESCRIBED IN FORD MOTOR QUALITY CONTROL SPECIFICATION 0-101 - PARAGRAPH 7.5

DIRECTION OF FLOW



RESTRICTIONS TO HELP SAFEGUARD HEALTH, SAFETY, AND THE ENVIRONMENT APPLY TO SUBSTANCES USED IN THE ITEM(S) ADDRESSED BY THIS DOCUMENT. ENGINEERING MATERIAL SPECIFICATION WSS-M99P9999-A1 APPLIES.

CONTROL ITEM - THE SYMBOL ALSO IDENTIFIES PRODUCT ENGINEERING DESIGNATED CRITICAL CHARACTERISTIC. THESE AND ADDITIONAL CRITICAL CHARACTERISTICS IDENTIFIED BY PROCESS REVIEW, MUST APPEAR ON THE 0-101 CONTROL PLAN(S) WHICH REQUIRE PRODUCT ENGINEERING APPROVAL.



ACTUAL

SCANNED

(E)	ADDED CUSTOMER NO.	901023	GNL	GNL
(D)	ADDED 15 psi TEST	901023	GNL	GNL
(C)	WAS DEPRESSED	901023	GNL	GNL
(B)	WAS 2 HIGH	890222	DAB	MBL
(A)	REVISED SPEC'S	890222	DAB	MBL

THIS DRAWING CONFORMS TO ANSI Y14.5M-1982		DO NOT SCALE	
THIRD ANGLE PROJECTION	SCALE 2X	MATERIAL	
UNLESS OTHERWISE SPECIFIED	DATE 890120	NOTED	
ALL LINEAR DIM. ± 0.5	DRAWN BY MJV		
ALL ANGULAR DIM. ±	CHECKED BY DAB		
ALL FILLET RND11	D. ENG. MTV		
ALL CORNER RND11	S.C.	MINIATURE PRECISION COMPONENTS INC. DRAWER 1 WILMOUTH, VT. 55184	
MAX. DRAFT	MIN. ENG.		
MAX. COMBINED PARTING LINE, FLASH AND HATCH TO BE	CUSTOMER NO. E9DC-2K434-AA (E)	DATE	REV.
SURFACE FINISH EXTERIOR INTERIOR	TITLE	REV. E	SHT.
	3/8" VACUUM CHECK VALVE ASSEMBLY	PART NUMBER A-455	

COMPUTER GRAPHICS CHANGE RESTRICTED NO MANUAL CHANGES

METRIC LINEAR DIMENSIONS ARE MM UNLESS NOTED

CATIA DRAWING