

ENGINEERING DETAILS

**PART NUMBER 100303065**  
**2-7/8 TRMAXX-5E, 2.312 X-TYPE, 4.609 OD, 5K, 40-300F, 13CR[80]/13CR[85], V2, 1/4 IDFC,**  
**2.875 [6.40-6.50] BLANK**

TAB DATA	
Attribute	Value
ACTIVE FLOW WETTED MATERIAL - YIELD STRENGTH (KSI)	13CR[80], 13CR[85]
API EDITION	11
API V1 DIFFERENTIAL OPENING TEST	NA
API V1 EQUALIZING MECHANISM ENDURANCE TEST	NA
API V1 OPERATING LIFE TEST	NA
APPROXIMATE WEIGHT (LBS)	160
CERTIFICATION STATUS	API 14A: V2 /ISO 10432 CLASS: 2
CERTIFICATION TEST DATE	13-OCT-2006
CERTIFICATION TEST NUMBER	1943
CERTIFIED SPRING	22744-022
CERTIFIED VALVE PART NUMBER	100308461
CERTIFIED VALVE SERIAL NUMBER	SRC-1003
CLOSE PRESSURE (ZERO BORE)(PSI)(PCT)	650[+20,-20]
EXTERNAL WORKING PRESSURE (PSI) - EOEC AT SPECIFIED TEMP (F)	5000[300]
FLOW TUBE TRAVEL (IN)	4.343
HEAVIEST THREAD WT. RECOMMENDED (PPF)	6.50
HYDRAULIC CHAMBER AREA (SQ. IN.)	0.110
HYDRAULIC CONNECTION	1/4 IDFC
I.D. - MIN. (IN)	2.312
INTERNAL WORKING PRESSURE (PSI) - EOEC AT SPECIFIED TEMP (F)	5000[300]
LOWER THREAD CONNECTING - SIZE (IN), WT (PPF), TYPE, CONFIG	2.875, 6.40-6.50, BLANK
MATERIAL CLASS OF SERVICE	3,4
MATERIAL/BODY PARTS	13CR
MATERIAL/ELASTOMERS	NA
MATERIAL/HYD. CHAMBER HSNG.	13CR[85]
MATERIAL/LOWER NIPPLE	13CR[85]
MATERIAL/O-RING(S)	NA
MATERIAL/SOFT SEAT	TEFLON
MATERIAL/SPRING	X-750
MATERIAL/SPRING HSNG.	13CR[85]
MATERIAL/TEE SEAL(S)	NA
MAX. ALLOWABLE HYDRAULIC SURFACE TEST PRESSURE (PSI)	10000

MAX. SECONDARY HYDRAULIC PRESSURE (PSI) - AT SPECIFIED TEMP (F)	7793[300]
MAX. WORKING TEMPERATURE (DEG.F)	300
MIN. ALLOWABLE Y.S. - HYD. CHMBR. HSNB.	85000
MIN. ALLOWABLE Y.S. - LOWER NIPPLE	85000
MIN. ALLOWABLE Y.S. - SPRING HSNB.	85000
MIN. WORKING TEMPERATURE (DEG.F)	40
NIPPLE PROFILE (SIZE/TYPE)	2.312 X-TYPE
O.D. - MAX. (IN)	4.609
OPEN PRESSURE (ZERO BORE)(PSI)(PCT)	1425[+20,-20]
OVERALL LENGTH (IN)	53
QUALITY CONTROL PLAN - QCP	SLB STD
SERVICE NACE (YES/NO)	YES
TENSILE STRENGTH (AT AMBIENT)(LBS)	196283
TENSILE STRENGTH (EOEC AT AMBIENT)(LBS)	196283
TENSILE STRENGTH (LBS) - EOEC AT SPECIFIED TEMP (F)	173711[300]
TENSILE STRENGTH AT INT. WORKING PRES. (EOEC AT AMBIENT)(LBS)	153165
TENSILE STRENGTH AT INT. WORKING PRES. (EOEC AT TEMP. RATING)(LBS)	130593[300]
TEST PRESSURE (EOEC)(PSI)	7500
UPPER THREAD CONNECTING - SIZE (IN), WT (PPF), TYPE, CONFIG	2.875, 6.40-6.50, BLANK
YIELD PRESSURE - EXTERNAL (EOEC AT AMBIENT)(PSI)	8923
YIELD PRESSURE - EXTERNAL (EOEC AT TEMP. RATING)(PSI)	7897[300]
YIELD PRESSURE - INTERNAL (EOEC AT AMBIENT)(PSI)	9681
YIELD PRESSURE - INTERNAL (EOEC AT TEMP. RATING)(PSI)	8568[300]