EO #1750 JO # 999

PARK MALL, PEEKSKILL, NEW YORK 10566 TEL: 914-739-9000 TELEX:99693

February 2 #

REGULATIONY FILE CY

Charles E. MacDonald, Chief Transportation Branch Division of Fuel Cycle & Material Safety United States Nuclear Regulatory Commission 71-5805 Washington, D.C. 20555

Dear Mr. MacDonald:

Certificate of Compliance No. 5805, Revision No. 1, page 5, 7.(a) calls for the use of a Teledyne Republic Manufacturing vent valve number 684-2-3/4-SS. While originally available this valve is no longer supplied and is not available on special order. It is requested that the herein described alternate, or equivalent, be authorized as a replacement for the discontinued vent valve.

Attached are some catalog sheets which described the currently proposed relief valve manufactured by Circle Seal Products. Model D520T-6M-25 is a most suitable replacement. constructed of stainless steel and has similar use and characteristics as the approved valve. It will likewise be set at 25 psig.

The Circle Seal relief valve is an exact working replacement for the original Teledyne Republic valve. All safety considerations and analysis presented in the Safety Analysis will apply for the proposed replacement relief valve.

We would appreciate your earliest response if the proposed replacement is acceptable so that we may proceed with procurement. Thank you for your attention to this matter.

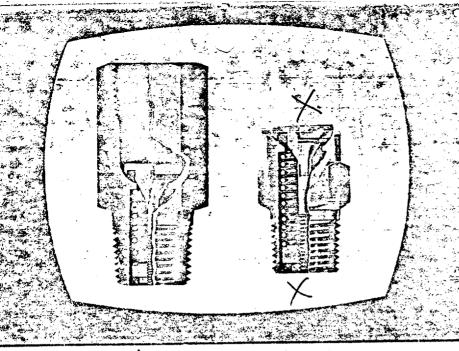
Very Truly Yours,

Lawrence Rutland

Vice-President for Engineering

LR/lm

Attachment



RELIEF VES

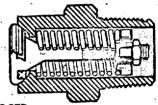
500 Series Fording 5-160 FSI

Wherever perfect sealing is required, the proven reliability of CIRCLE SEAL precision valves provides the one complete answer: a combination of absolute leak proof sealing when closed and virtually maintenance-free operation.

OPERATING CHARACTERISTICS:

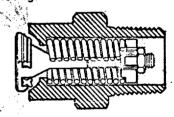
- ZERO LEAKAGE to 95-98% of cracking pressure.
- INCREASED SEALING EFFICIENCY as pressure increases. Resilient "Q" ring seal is forced against metal seat as pressure increases up to set cracking pressure.
- CRACKING PRESSURE ACCURACY Valves can be preset to required cracking pressure.
- WIDE RANGE of cracking pressures, without sacrificing flow characteristics, provided through interchangeable springs and simple adjustment. (See replacement springs and adjusting information.)
- TAMPER-PROOF ADJUSTMENT Adjustable only from inlet side for safety against tampering. Permits precise setting for the most exacting system requirements.
 - STICKING ELIMINATED Poppet head provides metal seat on low pressure side of seal, limits squeeze on resilient seal ring. Prevents water and dirt from entering valve.
 - LONG, MAINTENANCE-FREE SERVICE Parts will not wear out in normal service. Overhaul, if necessary, is quickly made by replacing resilient seal.

HOW IT WORKS



CLOSED

Resilient seal design prevents leakage. Sealing efficiency increases with increased pressure up to cracking pressure. Metal to metal seat on low pressure side supports spring load, prevents sticking.



OPEN

When system pressure overcomes spring force poppet opens momentarily exposing variable orifice between poppet and body to pass increasing flow with minimum pressure rise without blowdown.

RESEALING

Resilient seal automatically establishes line of contact with spherical seat. Seal provides dead tight reseal very close to cracking pressure.



FOR FURTHER INFORMATION:
POWER DRAULICS-NIELSEN, INC.
550 S. COLUMBUS AYENUE
MT. YERNON, NEW YORK 10550
PHONE (914) 668-3800

CROLL STALL PRODUCTS

Mind and a service of the control of

U.S.A.



TECHNICAL DATA

MATERIAL: Body and internal parts --- bar stock

SPRING: Stainless steel 302 or 17-7PH

RESILIENT SEAL: See service recommendations

OPERATING PRESSURE: 0-200 PSI

CRACKING PRESSURE: .5-150 PSI Higher cracking pressures available - please check with factory.

ADJUSTMENT: ±50% of nominal. Adjustment is on inlet side, and cannot be tampered with after valve is installed.

CRACKING PRESSURE ACCURACY: Operating tolerance for cracking pressure is 5%. Initial crack may be slightly higher than cracking pressure tolerance.

RESEAT AND RESEAL: See Cracking Pressure-Reseal Chart for characteristics of each seal.

MATERIAL

Aluminum

Brass

Stainless, 303

Stainless, 316

CONNECTIONS

Isize in 1/8")

M Male pipe

Female pipe

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SERVICE RECOMMENDATIONS

	/	*	
MODEL	O-RING MATERIAL	OPERATING TEMPERATURE	SUITABLE FOR
559	Buna N	-40° to +250°F	General Purpose, Air, Acetylene, Ammonia, Freon 12, Hydrogen, Inert Gases.
533	Neoprene	-40° to ±250°F	Oxygen, Helium, Air, Hydrogen Carbon Dioxide, Nitrogen, Acetylene
562	Ethylene Propylene	-65° to +300°F	Skydrol , Air, Steam
532	Viton	-20° to +400°F	Aromatic Fuels, Synthetic Oils, Solvents, Carbon Tetrachloride, Toluene, Trichloroethylene. Steam.
524	Silicone	-70° to +450°F	Air, Chlorinated Transformer Oil, Oxygen.
(520)	Teflon	-100° 10 +450°F	Chemically inert, suitable for nearly all fluids. Not available for cracking pressures below 2.5 PSI.
	i i		

D_Prefixed Model Number denotes DE-FLECTOR CAP. These models are supplied with a cap which diverts high pressure blasts from personnel and instruments. Serves as a rain and dust shield, increases flow capacity and facilitates manual override.

HOW TO ORDER Part Number Designation THE DSOO MODEL WITH DEFLECTOR CAP IS AVAILABLE ONLY IN THE DISCHARGE TO ATMOSPHERE VER-SION OF THE VALVE. NOT RECOM-MENDED FOR CRACKING PRESSURES BELOW 2 PSI.

> DS207-6M-25 D 559 A - 6MP - 10

VARIATION IDENTIFICATION BASIC MODEL NUMBER -

MATERIAL -END CONNECTIONS - INLET/OUTLET CRACKING PRESSURE-

(cracking pressure is defined as 5 cc/min, with gas)

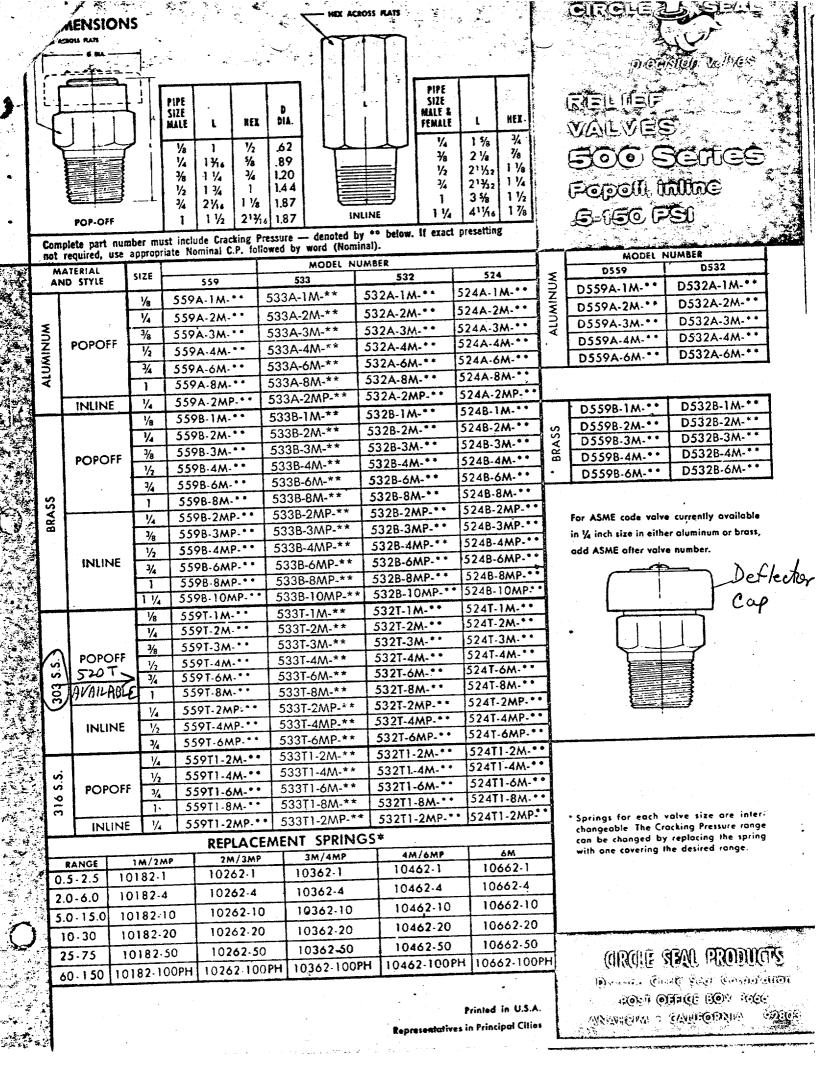
Note: Valves are preset at factory. Pressure at which valves will crack in normal service, nominal cracking pressure ±5%. SEE CRACKING PRESSURE-RESEAL CHART.

NOMINAL CRACKING PRESSURE INFORMATION

1					
T	NOMINAL C.P.	RANGE	RESEAL DEAD TIGHT % OF C.P. @ ROOM TEMP.		
	1	0.5-2.4	50-70%		
-	4	2.5-5.9	70-85%		
-	10	6.0-13.9	88%		
*	20	. 14-28	90%		
	50	29-72	92%		
十	100	73-150	94%		
1					

Std NOMINAL OF EXACT PRESSURE of 25 psi con be preset

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FROM		DATE OF DOCUMENT	DATE RECEIVED	NO.:			
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Mr. MacDonald		X					
		ACTION NECESSARY	CONCURRENCE	DATE ANSWERI	D		
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