

# SERVICE INFORMATION FOR 500/D500 SERIES RELIEF VALVES



## INSTALLATION

Install with flow arrow pointing in direction of flow. Use pipe sealant sparingly, if at all — apply with care behind first thread on the male pipe connection.

## TECHNICAL DATA FOR PART NUMBER .....

Part Number Designation

Basic Model Number

Material

End connections-inlet/outlet

O-ring material

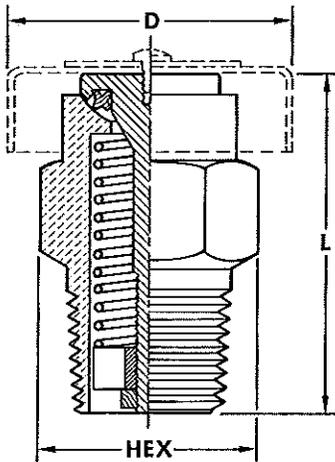
Temperature Range

Maximum Operating Pressure \_\_\_\_\_ psi

D Prefixed Model Number denotes DE-FLECTOR CAP. These models are supplied with a cap which diverts high pressure blasts from personnel and instruments.

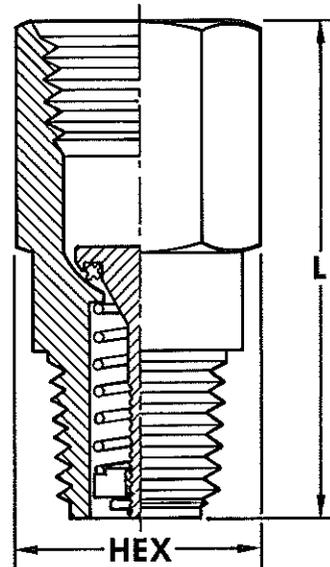
Serves as a rain and dust shield. Increases flow capacity and facilitates manual override.

## DIMENSIONS



POPOFF

PIPE SIZE MALE	L	HEX	D DIA.
1/8	1	1/2	.62
1/4	1 1/6	5/8	.89
3/8	1 1/4	3/4	1.20
1/2	1 3/4	1	1.44
3/4	2 1/6	1 1/8	1.87
1	1 1/2	2 1/6	1.87



INLINE

PIPE SIZE MALE & FEMALE	L	HEX
1/4	1 5/8	3/4
3/8	2 1/8	7/8
1/2	2 1/2	1 1/8
3/4	2 3/2	1 1/4
1	3 3/8	1 1/2
1 1/4	4 1/6	1 7/8



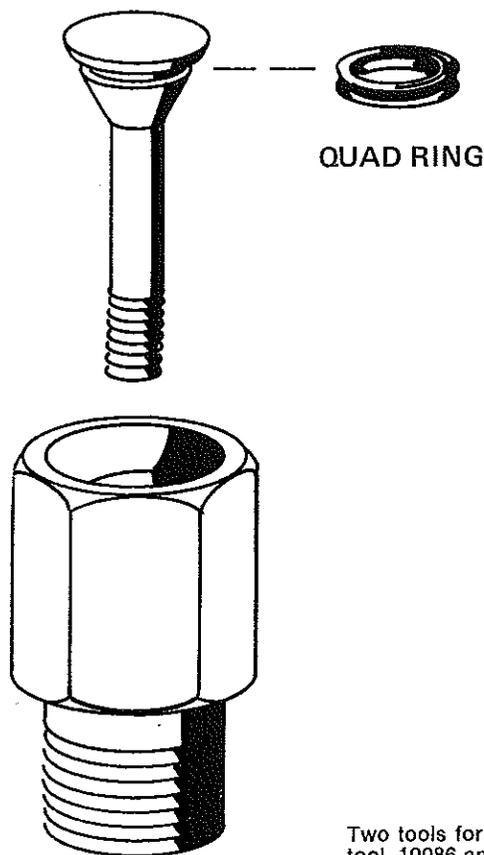
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# Replacement Parts Kits

## 500 Series

Kit includes Dynamic Quad-Ring. 520 Series contains ground teflon quad-ring and poppet assembly.

Specify by ordering "KIT\_\_\_\_\_"  
 (insert valve number)



QUAD RING

### 500 SERIES INSTRUCTIONS

Disassemble valve as illustrated. Remove Quad-Ring. Moisten fingers, sparingly, with appropriate lubricant given below and massage new Quad-Ring before installation.

Reassemble Valve.

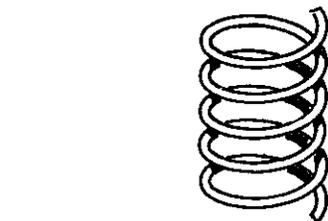
REPLACEMENT O-RINGS		
NUMBER	MATERIAL	LUBE
559	Buna-N	DC-7
533	Consult Factory	
562	Ethylene Propylene	DC-7
532	Viton	DC-7
524	Consult Factory	
539	Buna-N	DC-7
520	Teflon	None

### ADJUSTING INFORMATION

Two tools for adjusting cracking pressure range are listed in the chart below. The adjusting tool, 10086 and nut driver, 10087. Use them as follows:

1. Remove Valve from service.
  2. Fit proper size adjusting tool (see chart below) over the spring guide (3-fingered spider) in the inlet end.
  3. Place nut driver (10087) inside the adjusting tool (10086) and loosen lock nut. Remove nut driver leaving adjusting tool engaged with spider nut. Press down on valve housing to compress spring, causing poppet to raise above housing seat. Turn poppet head with your fingers clockwise or counter clockwise to increase or decrease cracking pressure.
  4. On inline models (500-<sup>4</sup>MP) proceed as in step 3 until it is necessary to turn poppet head. Insert screwdriver into slot in poppet head and turn screwdriver clockwise or counter clockwise to increase or decrease cracking pressure.
- NOTE: Older models, which do not have a slot in the poppet head, require the use of a wood spacer, secured by a pipe plug, to hold poppet while adjusting.
5. Test for desired adjustment.
  6. Hold spring seat spider nut stationary with adjusting tool and cinch lock nut against spider with nut driver after desired setting is obtained.

SIZE	1M/2MP	2M/3MP	3M/4MP	4M/6MP	6M/8MP
ADJUSTING TOOL	10086-1	10086-2	10086-3	10086-4	10086-4
NUT DRIVER	10087-1	10087-2	10087-3	10087-4	10087-4



SPRING GUIDE



LOCKNUT

