



# TECH BULLETIN

**004**  
06/77

*Published regarding engineering changes and improvements*

**SUBJECT:** Changes to Models 1024 & 1044

The original pumps had 3 V-Packings per cylinder and a sleeve-type piston with a counterbore for the retainer. Continuing development found that 2 V-Packings per cylinder was superior because both V-Packings received optimum lubrication. The 2 V-Packing design is shorter. This allows the sleeve-type piston to be shorter and eliminated the need to have the piston retainer ride in the sleeve counterbore.

Model 1024 and 1044 pumps with serial numbers beginning with 6760101 have 2 V-Packings and non-counterbore sleeve-type pistons. Following are the part numbers of the various items changed per this modification, the parts that must be changed to convert the pump from a 3 V-Packing to a 2 V-Packing design and the parts to change to a non-counterbore sleeve-type piston design.

## **Model 1024**

Description	PN Before Modification	PN After Modification
Piston (Sleeve-type)	28677	29634
Piston Retainer	28679	29588
Female Adapter	28670	29586
V-Packing	27047 (3 per cyl.)	27047 (2 per cyl.)
Male Adapter	28671	29587
Adapter Washer	28672 (1 per cyl.)	29635 (2 per cyl.)
Cylinder Adapter	28668	No change in PN
Spring	27045	No change in PN

### **To change pump with 3 V-Packings per cylinder to 2 V-Packings per cylinder requires:**

Quantity per Cylinder	Description	Part Number
1	Female Adapter	29586
2	V-Packing	27047
1	Male Adapter	29587
2	Adapter Washer	29635

### **To change pump with counterbore in piston for retainer to a flat surface hard chrome piston requires:**

Quantity	Description	Part Number
1	Piston (Sleeve-type)	29634
1	Piston Retainer	29588

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### Model 1044

Description	PN Before Modification	PN After Modification
Piston (Sleeve-type)	29084	29633
Piston Retainer	29085	43377
Female Adapter	29075	29523
V-Packing	29076 (3 per cyl.)	29076 (2 per cyl.)
Male Adapter	29077	29525
Adapter Washer	29078 (1 per cyl.)	29632 (3 per cyl.)
Cylinder Adapter	29074	No change P.N.
Spring	29079	No change P.N.

**To change pump with 3 V-Packings per cylinder to 2 V-Packings per cylinder requires:**

Quantity per Cylinder	Description	Part Number
1	Female Adapter	29523
2	V-Packing	29076
1	Male Adapter	29525
2	Adapter Washer	29632

**To change pump with counterbore in piston for retainer to a flat surface hard chrome piston requires:**

Quantity	Description	Part Number
1	Piston (Sleeve-type)	29633
1	Piston Retainer	43377

CAT PUMPS

Technical Services Department