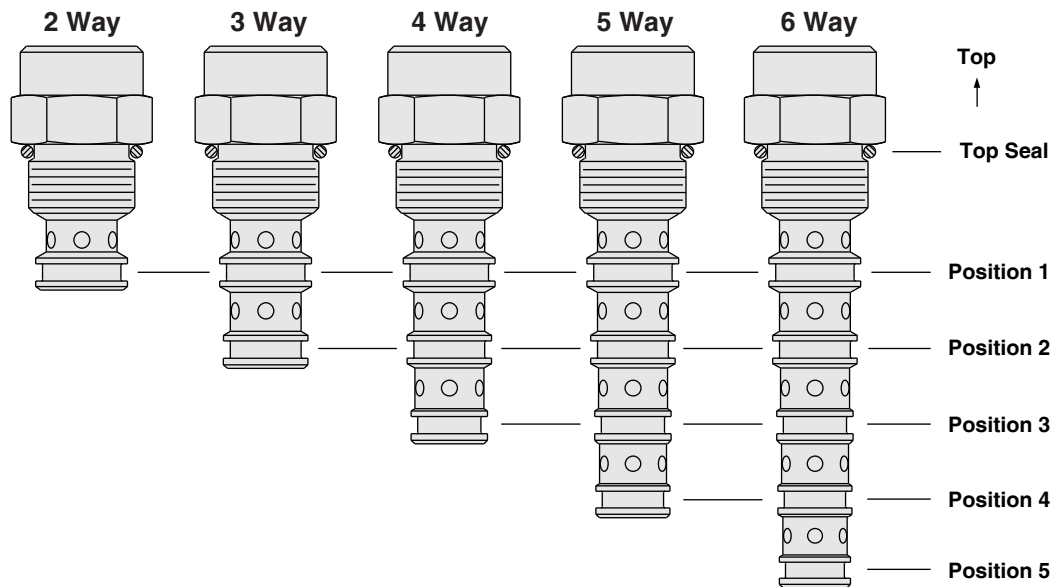


# Seal Kit Installation & Ordering Guide

## O-RING/BACKUP RING POSITION



## STANDARD O-RING SIZES

Cavity Size	Type	Top Seal	Position 1	Position 2	Position 3	Position 4	Position 5
08	2-Way	-908	-012	—	—	—	—
	3-Way	-908	-014	-013	—	—	—
	4-Way	-908	-014	-013	-012	—	—
10	2-Way	-910	-014	—	—	—	—
	3-Way	-910	-015	-014	—	—	—
	3-Way Short	-910	-016	-015	—	—	—
	3-Way Long	-910	-015	-014	—	—	—
	4-Way	-910	-016	-015	-014	—	—
	5-Way	-910	-016	-015	-014	-013	—
	6-Way	-910	-016	-015	-014	-013	-012
6-Way Short	-910	-016	-015	-014	-013	-012	
12	2-Way	-912	-115	—	—	—	—
	2-Way Long	-912	-115	—	—	—	—
	3-Way	-912	-019	-018	—	—	—
	4-Way	-912	-019	-018	-017	—	—
	5-Way Short	-912	-019	-018	-017	-016	—
	6-Way Short	-912	-019	-018	-017	-016	-015
16	2-Way	-916	-119	—	—	—	—
	3-Way Short	-916	-119	-117	—	—	—
	3-Way	-916	-119	-117	—	—	—
	4-Way	-916	-119	-118	-117	—	—
	5-Way Short	-916	-125	-119	-118	-117	—
	6-Way Short	-916	-125	-119	-118	-117	-116
20	3-Way Short	M2.9	-122	-124	—	—	—
42	4-Way Metric	M2.4 x 38.6	-125	M2.4 x 31.6	M2.4 x 29.6	—	—
	6-Way Metric	-131	-125	M2.4 x 31.6	M2.4 x 29.6	M2.9 x 38.6	M2.4 x 27.6
98	3-Way Metric	M1.5 x 21.5	M2.2 x 18.0	M1.6 x 15.1	M1.6 x 14.1	—	—

Seal Kit information continued on following page.

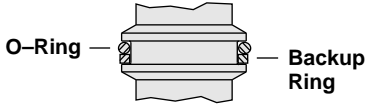
# HOUSINGS AND ACCESSORY PRODUCTS

## Seal Kit Installation & Ordering Guide

### O-RING/BACKUP RING INSTALLATION

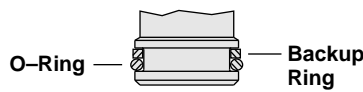
#### Installation Type T

O-Ring installed toward top of cavity



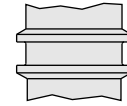
#### Installation Type B

O-Ring installed toward bottom of cavity



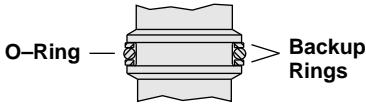
#### Installation Type X

No seals this location



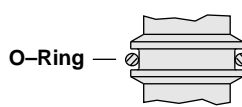
#### Installation Type M

O-Ring installed between backups



#### Installation Type O

O-Ring only; no back-ups



**Note:** Cartridges which are originally built with polyester elastomer (black) back-up rings, are serviced with single-turn (white) Fluorocarbon back-up rings. This facilitates field installation of the back-up rings, since the original production rings require special tools for installation.

Type "M" back-up rings are 1/2 size single-turn Fluorocarbon rings on all cavities **except** VC12-3, VC12-4, VC16-S3, VC20-S3 and VC98-3.

**Temperature Considerations:** As per ASTM Standard D2000/SAE J200 Standard **Buna N (N)** seals are designed for applications that operate within the -40°C to 100°C (-40° to 212°F) temperature range. Maximum temperature for optimum seal life is 107°C with reduced life if operated within the 107°C to 120°C range.

**Fluorocarbon (V)** seals should be used for applications with an average temperature range between -26°C to 204°C (-15°F to 400°F).

**Polyurethane (P)** seals should be used for applications with an average temperature range between 104°C to -54°C (-65°F to 225°F).

**PPDI Urethane (U)** seals should be used for applications with an average temperature range between 107°C to -54°C (-65°F to 225°F).

### ORDERING INFORMATION

Cavity Thread Size	Cavity Type	Seals	Position 1 Installation Type (Required for 2, 3, 4, 5 & 6-Way Valves)	Position 2 Installation Type (Required for 3, 4, 5 & 6-Way Valves)	Position 3 Installation Type (Required for 4, 5 & 6-Way Valves)	Position 4 Installation Type (Required for 5 & 6-Way Valves)	Position 5 Installation Type (Required for 6-Way Valves Only)
7/16-20	04	2-Way 2	O-Ring toward top of cavity T	O-Ring toward top of cavity T	O-Ring toward top of cavity T	O-Ring toward top of cavity T	O-Ring toward top of cavity T
5/8-18	07	3-Way 3	O-Ring between backups M	O-Ring between backups M	O-Ring between backups M	O-Ring between backups M	O-Ring between backups M
3/4-16	08	3-Way Short S3	O-Ring toward bottom of cavity B	O-Ring toward bottom of cavity B	O-Ring toward bottom of cavity B	O-Ring toward bottom of cavity B	O-Ring toward bottom of cavity B
	38	4-Way 4	O-Ring; no back-ups O	O-Ring; no back-ups O	O-Ring; no back-ups O	O-Ring; no back-ups O	O-Ring; no back-ups O
	58	5-Way 5	No seals this location X	No seals this location X	No seals this location X	No seals this location X	No seals this location X
	78	6-Way 6					
7/8-14	10						
	50						
	70						
	80						
1-1/16-12	12						
	52						
	72						
1-5/16-12	16						
	56						
1-5/8-12	20						
M42 x 2.0	42						