













LOW & HIGH PRESSURE RELIEF VALVES VR Series

www.korlokusa.com





Kor-Lok USA

Features

Compact designed one piece body to reduce space

Low friction bonnets to increase both accuracy and to improve consistency of cracking and reseal pressure

Lock wire to secure a given pressure setting

Identifying color coded springs and labels indicate spring cracking pressure

Selective and replaceable springs with narrow pressure ranges

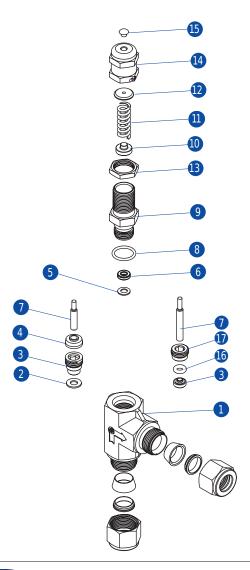
RA3 series - One spring for all set pressure range

RA6 series - 7 Replaceable springs for a variable pressure range

			Cracking Pressure Adjusting Cap Indicating Label Cock Wire Hole Adjustable Spring Low Friction Bonnet
	Stem-		
	Stem Seal——		· ·
j	Body——		
		A CONTRACTOR OF THE PROPERTY O	

VR3 series 3000psig (207bar)

VR6 series 6000psig (413bar)



Materials of Construction

No.	Description	ion Materials		
Valve Series		VR3	VR6	
1	Body	316SS		
2	Gasket	304SS Teflon coat		
3	Seat	316	SSS	
4	Bonded Disc	316	SSS	
5	Washer	316	SSS	
6	Stem Seal	Vit	on	
7	Stem	316	SSS	
8	O-ring	Vit	on	
9	Bonnet	316	SSS	
10	Lower Spring Support	316	SSS	
11	Spring	302	2SS	
12	Upper Spring Support	316SS		
13	Lock Nut	304SS		
14	Cap	316SS		
15	Plug	316SS		
16	O-ring	-	Viton	
17	Insert	-	316SS	



Cleaning

Kor-Lok relief valves are free from machine oils, loose particles and grease throughout the close cleaning process.

Testing

Every relief valve is 100% factory tested with nitrogen for cracking and reseal performance.

How To Order

Kor-Lok VR series relief valves are ordered by part number as shown as below.

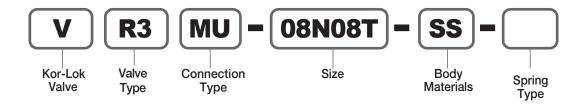
Important Notification

Proper installation, materials compatibility, operation and maintenance of these valves are the responsibility of the user. The total system design must be taken into consideration to ensure optimal performance and safety.

Kor-Lok relief valves that were not actuated for some time may contain pressure higher than the set pressure.

Cracking pressure is not affected by the outlet pressure.

Example: The following part number, **VR3MU-08N08T-SS** is designated for VR3 series low pressure relief valve with 1/2'' male NPT x 1/2'' KorLok tube fitting, 316SS.



	Valve Type					
R3	Low Pressure, 3000psig					
R6	R6 High Pressure, 6000psig					
	Connection Type					

Connection Type				
Г	U	Kor-Lok Tube Fitting		
	F	Female NPT or ISO7/1(PT)		
	M	Male NPT or ISO7/1(PT)		

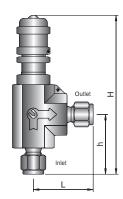
	Connection Type						
Fractio	Fractional(Inch) Tube O.D. Designation						
Tube	inch	1	1/4		3/8	1/	2
O.D.	mm		6.35		9.52	12.	70
Desig	nator		04T		06T	08	Т
Metric Tube O.D. Designation							
Tube O.D.	mr	n	6		8	13	2
Tube O.D.	mr gnator	n	6 M06	Т	8 M08T		
Tube O.D.	gnator		M06	-	M08T	M1	2T
Tube O.D. Desig	nator e Des	igna	M06	-	M08T	M1	2T PT)

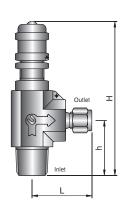
	Spring T	у Туре			
Design -ator	Color	Cracking Pressure (psig)			
	Yellow	350~750			
Р	Purple	750~1500			
0	Orange	1500~2250			
В	Brown	2250~3000			
W	White	3000~4000			
R	Red	4000~5000			
G Green		5000~6000			

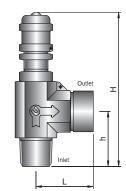
Options are only for VR6 series. VR3 series spring is yellow color and cracking pressure range with 10~250psig.



VR series









Ordering Information & Dimensions

Part Number		End Connection		Orifice	Dimensions (mm)		
	art Number	Inlet Outlet		Office	L	h	Н
	U-04T-	1/4"	1/4" Kor-Lok		39.6	39.6	109.4
	U-06T-	3/8"	3/8" Kor-Lok		43.8	43.8	113.6
	U-08T-	1/2"	Kor-Lok		46.5	46.5	116.4
	U-M06T-	6mm Kor-Lok			39.6	39.6	109.4
VR3	U-M08T-	8mm Kor-Lok					
or	U-M12T-	12mm Kor-Lok		4.8	46.5	46.5	116.4
VR6	MF-04N-	1/4" Male NPT	1/4" Female NPT		32.5	32.5	102.3
	MF-06N-	3/8" Male NPT	3/8" Female NPT		34.5	32.3	102.3
	MF-08N-	1/2" Male NPT	1/2" Female NPT		38.0		
	MU-08N08T-	1/2" Male NPT	1/2" Uni-Lok		46.5	36.5	106.3
	MU-08NM12T-	1/2" Male NPT	12mm Uni-Lok		40.5		

Specification

Specification	VR3 series	VR6 Series		
Maxium Working Pressure	3000 psig 207 bar	6000 psig 413 bar		
Temperature Range		23 ~ 204°C 10 ~ 400F		
Cracking Pressure Range	10~250 psig 0.7~18 bar	350~6000 psig 25~413 bar		

ISO7/1 Tapered Threads (PT) are available for all fractional sizes of VR series valves. Add "R" as a suffix instead of "N"

Reseal Pressure

Series	Te Set Pr	Minimum Resealing Pressure	
	psig	bar	(%)
VR3	10~20	0.7~1.3	50
VICS	175~225	12.0~15.5	90
VR6	100~200	6.8~13.7	50
VKO	850~1000	58.5~68.9	84

Minimum Resealing Pressure - As a percentage of test set pressure

Spring Color Coding and Cracking Pressure Range

Series	Color	Cracking Pressure Range		
		psig	bar	
VR3	Yellow	10~250	0.7~18	
	Yellow	350~750	24~52	
	Purple	750~1500	52~103	
	Orange	1500~2250	103~155	
VR6	Brown	2250~3000	155~206	
	White	3000~4000	206~275	
	Red	4000~5000	275~344	
	Green	5000~6000	344~413	

Dimensions are for reference only and are subject to change without prior notice.





















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