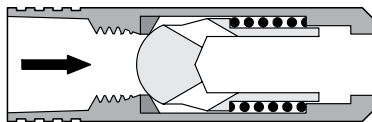


440C LO-LOHM CHEK®

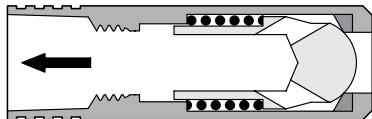
The Lee Company now offers its field-proven Lo-Lohm Chek® valve in a version that is specifically designed for optimal performance in harsh duty applications. Constructed entirely of corrosion-resistant stainless steel, the new 440C Lo-Lohm Chek features a durable 440C poppet and seat, which provides longer cycle life and increased resistance to damage from contamination, resulting in improved overall system performance.

Available in forward and reverse flow directions, the new valves save space and weight, and offer high flow capability relative to their compact size. Sizes range from 0.187" to 0.500" in diameter, with free flow Lohm* rates from 100 to 12 Lohms. Available cracking pressures are 5 ± 3 and 1 ± 0.5 psid. Each Lee Chek is 100% tested and inspected to ensure reliable, consistent performance, eliminating the need for additional in house testing. Custom check valves can be designed using MP35N for applications in severely corrosive environments. Contact your Lee Sales Engineer for more information.

FREE FLOW FORWARD



FREE FLOW REVERSE

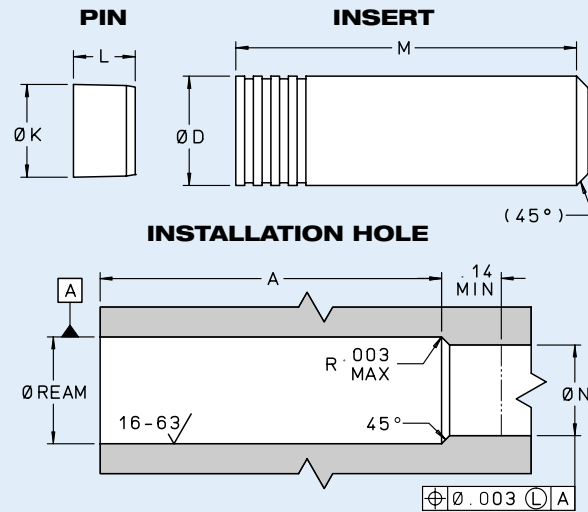


MATERIALS		
PART	MATERIAL	SPECIFICATION
Body	304 CRES	AMS 5639
	15-5PH CRES	AMS 5659
Pin	17-4PH CRES	AMS 5643
	15-5PH CRES	AMS 5659
Spring	17-7PH CRES	AMS 5678
Poppet	440C CRES	AMS 5630
Seat	440C CRES	AMS 5630

Finish: All CRES Parts Passivated. Pins are prewaxed. Do not degrease. Do not lubricate.

*The Lohm is a measure of flow resistance. Additional information can be found at www.TheLeeCo.com.

- Durable 440C CRES poppet and seat
- 4 standard sizes
- 100% tested and inspected
- Custom, NACE compatible models available



	.187 DIA. CHEK	.250 DIA. CHEK	.375 DIA. CHEK	.500 DIA. CHEK
Ø D	0.1867 - 0.1874	0.2492 - 0.2499	0.3742 - 0.3749	0.4992 - 0.4999
M	0.62	0.78	1.20	1.50
Ø K	0.15	0.21	0.33	0.46
L	0.16	0.14	0.26	0.31
A	0.64 Minimum	0.80 Minimum	1.22 Minimum	1.52 Minimum
Ø N	0.130 - 0.140	0.185 - 0.195	0.296 - 0.306	0.415 - 0.425
Ø Ream	0.1875 - 0.1880	0.2500 - 0.2505	0.3750 - 0.3755	0.5000 - 0.5010

LEE PART NUMBER	CRACKING PRESSURE (psid)	MAXIMUM LOHM RATE	FLOW DIRECTION	NOMINAL SYSTEM PRESSURE (psi max)
CKFA1876605A	5 ± 3	100	FORWARD	4000
CKFA1876601A	1 ± 0.5	100	FORWARD	4000
CKRA1876605A	5 ± 3	100	REVERSE	4000
CKRA1876601A	1 ± 0.5	100	REVERSE	4000
CKFA2506605A	5 ± 3	50	FORWARD	4000
CKFA2506601A	1 ± 0.5	50	FORWARD	4000
CKRA2506605A	5 ± 3	50	REVERSE	4000
CKRA2506601A	1 ± 0.5	50	REVERSE	4000
CKFA3756605A	5 ± 3	24	FORWARD	3000
CKFA3756601A	1 ± 0.5	24	FORWARD	3000
CKRA3756605A	5 ± 3	24	REVERSE	3000
CKRA3756601A	1 ± 0.5	24	REVERSE	3000
CKFA5006605A	5 ± 3	12	FORWARD	3000
CKFA5006601A	1 ± 0.5	12	FORWARD	3000
CKRA5006605A	5 ± 3	12	REVERSE	3000
CKRA5006601A	1 ± 0.5	12	REVERSE	3000

LEE LOHM LAWS

LOHMS LAWS (liquids)

Every engineer will be interested in our simple system of defining the fluid resistance of Lee hydraulic components.

Just as the OHM is used in the electrical industry, we find that we can use a liquid OHM or "Lohm" to good advantage on all hydraulic computations.

When using the Lohm system, you can forget about coefficients of discharge and dimensional tolerances on drilled holes. These factors are automatically compensated for in the Lohm calculations, and confirmed by testing each component to establish flow tolerances. The resistance to flow of any fluid control component can be expressed in Lohms.

The Lohm has been selected so that a 1 Lohm restriction will permit a flow of 100 gallons per minute of water with a pressure drop of 25 psi at a temperature of 80° F.

LIQUID FLOW FORMULA

The following formulas are presented to extend the use of the Lohm laws to many different liquids, operating over a wide range of pressure conditions.

These formulas introduce compensation factors for liquid density and viscosity. They are applicable to any liquid of known properties, with minimum restrictions on pressure levels or temperature.

The units constant (K) eliminates the need to convert pressure and flow parameters to special units.

$$\text{Volumetric Flow Units } L = \frac{KV}{I} \sqrt{\frac{H}{S}} \quad \text{Gravimetric Flow Units } L = \frac{KV}{w} \sqrt{HS}$$

NOMENCLATURE

- L = Lohms
- S = Specific gravity*
- H = Differential pressure
- V = Viscosity compensation factor**
- I = Liquid flow rate: Volumetric
- w = Liquid flow rate: Gravimetric
- K = Units Constant – Liquid (see chart below)
- *S = 1.0 for water at 80°F.
- **V = 1.0 for water at 80°F.

(For other fluids and temperatures, contact your Lee Sales Engineer or visit us at www.TheLeeCo.com)

LIQUID FLOW - UNITS CONSTANT K

VOLUMETRIC FLOW UNITS			
Flow Units	Pressure Units		
	psi	bar	kPa
GPM	20	76.2	7.62
L/min	75.7	288	28.8
ml/min	75 700	288 000	28 800
in ³ /min	4 620	17 600	1 760

GRAVIMETRIC FLOW UNITS			
Flow Units	Pressure Units		
	psi	bar	kPa
PPH	10 000	38 100	3 810
gm/min	75 700	288 000	28 800