

General Description

Series LT and LTF check valves will operate satisfactorily when installed in any position. These valves may be used as line check valves, permitting full flow of hydraulic oil in one direction only or they may be used as restrictors.

An assortment of restrictors are available. When installed, the valve becomes a line throttle valve permitting free flow of hydraulic oil in one direction and a restricted flow in the opposite direction.

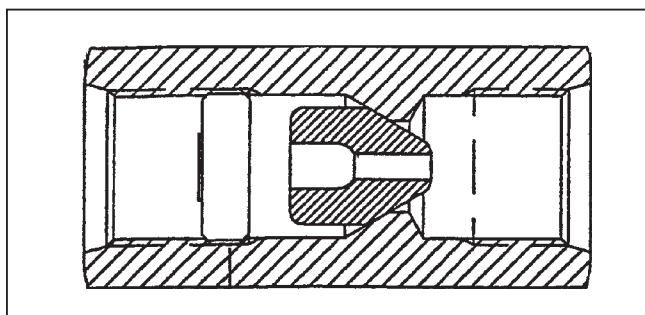
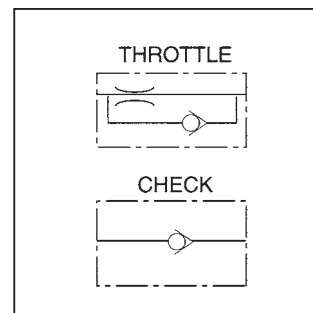
An array of color-coded poppets allows easy and quick identification.

Features

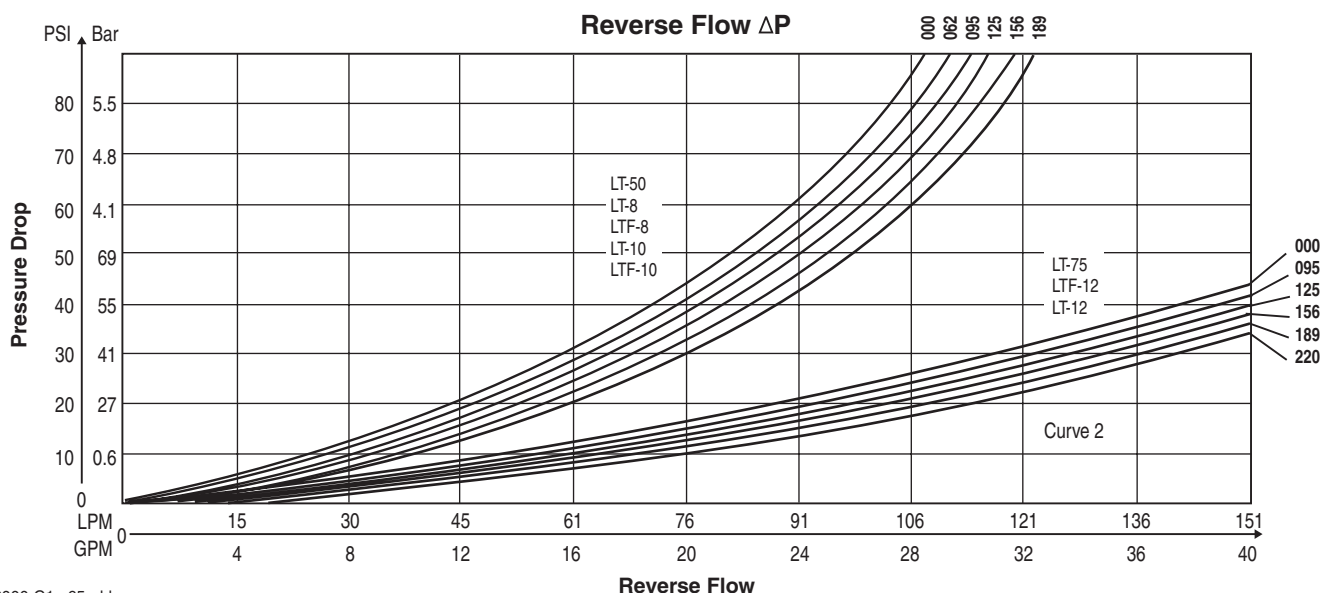
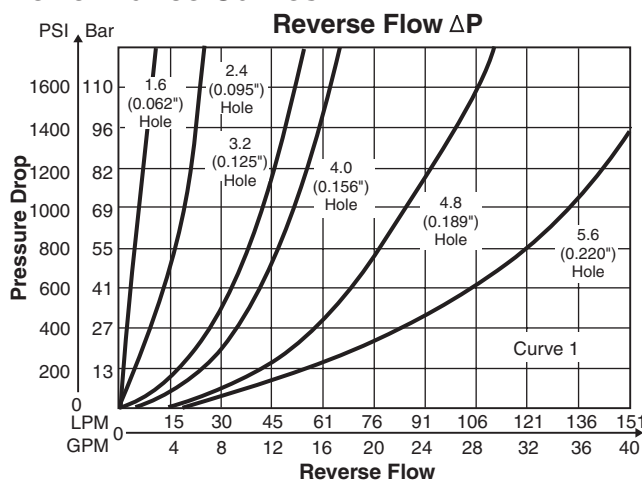
- Accurate control of double-acting cylinder by having both sides of the piston pressurized.
- For improving control of the lowering stroke of a cylinder.
- For preventing cavitation of a cylinder or motor having an inertia load.
- For metering oil flow to a hydraulic motor for proper motor speed.
- For improving control of the extend stroke of a hydraulic cylinder.
- Unidirectional.

Specifications

Maximum Operating Pressure	207 Bar (3000 PSI)	
Materials	Body:	Steel/Zinc-plated
	Poppet:	Nylon
	Retainer:	416 Stainless Steel
Operating Temperature	-30°C to +100°C (-22°F to +212°F)	



Performance Curves



3000-C1.p65, dd

Ordering Information

Series

Code	Series
LT	Male-Female Ports
LTF	Female-Female Ports

Port Size

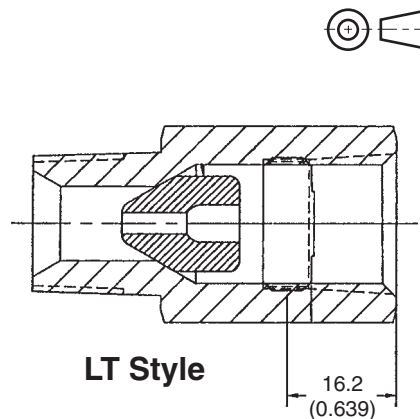
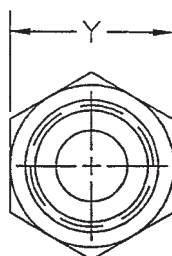
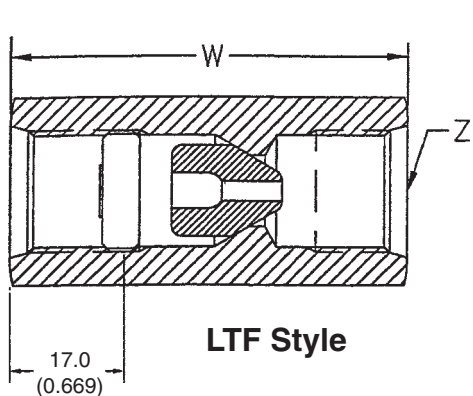
Code	Size
8	3/4" – 16 UNF-2
10	7/8" – 14 UNF-2
12	1 1/16" – 12 UNF-2
50	1/2" – 14 NPT (LT Only)
75	3/4" – 14 NPT (LT Only)

Throttle and Check Poppets

Poppet Order Symbol	Diameter of of Hole in Poppet		Poppet Color
For Part Numbers LT-8, LT-10, LT-50, LTF-8, LTF-10			
4	1.19	(.947)	Brown
6	1.57	(.062)	Purple
8	1.98	(.078)	Pink
9	2.41	(.095)	Red
11	2.77	(.109)	Beige
12	3.18	(.125)	Yellow
15	3.96	(.156)	Lt. Green
18	4.80	(.189)	Black
25	6.40	(.252)	Dk. Green
0	Check (No Hole)		Beige
For Part Numbers LT-12, LT-75, LTF-12			
180	4.80	(.189)	Black
210	5.59	(.220)	Orange
250	6.40	(.252)	Lt. Blue
00	Check (No Hole)		White

Dimensions

Inch equivalents for millimeter dimensions are shown in (**)



Model Number	W Length	Y Hex Size	Z Thread (Both Ends)
LT-50	54.1 (2.13)	25.4 (1.00)	1/2" – 14 NPT
LT-8	54.1 (2.13)	25.4 (1.00)	SAE 8 (3/4" – 16 UNF)
LT-10	58.7 (2.31)	28.7 (1.13)	SAE 10 (7/8" – 14 UNF)
LT-12	77.7 (3.06)	35.1 (1.38)	SAE 12 (1 1/16" – 12 UN)
LT-75	73.2 (2.88)	35.1 (1.38)	3/4" – 14 NPT
LTF-8	62.0 (2.44)	25.4 (1.00)	SAE 8 (3/4" – 16 UNF)
LTF-10	68.3 (2.69)	28.7 (1.13)	SAE 10 (7/8" – 14 UNF)
LTF-12	82.6 (3.25)	35.1 (1.38)	SAE 12 (1 1/16" – 12 UN)