

5300 SERIES

400 to 10,500 PSIG

How To Order

L 53 49 B - 4 PP (L) - 500

VARIATION

L - For All Liquid Service

BASIC MODEL NUMBER

5300 Series

O-RING MATERIAL & TEMPERATURE

49 - Buna N -20°F to +250°F

33 - Neoprene -20°F to +240°F

32 - Viton® -20°F to +350°F

BODY MATERIAL

B - Brass

T - 303 Stainless Steel

T1 - 316 Stainless Steel

CRACKING PRESSURE

Specify cracking pressure setting in PSIG.

500 - 500 PSIG

SPECIAL CHARACTERISTICS

(L) - Lockwire

CONNECTIONS

P - Female Pipe

B - Female Tube, AND10050

J - Female Tube, MS33649

K - British Parallel Pipe (Male)

L - British Parallel Pipe (Female)

G - Aminco, Union

V - NASA MC240

VALVE SIZE

(Pipe Sizes in 1/8"-Increments;

Tube Sizes in 1/16"-Increments)

4 - 1/2"

Notes:

Back Pressure – Any back pressure above atmosphere reduces the cracking pressure by .35 psi for each 1.0 psi of back pressure.

Cracking Pressure – Valves are preset at factory.

Pressure at which valves will crack in normal service, cracking pressure = 5%.

Leakage at Reseal Pressure – Air - Zero; Liquid - 5 Drops/Min. (Max.)

Teflon® is a registered trademark of DuPont and Viton® is a registered trademark of DuPont Dow Elastomers.

Please consult your Circle Seal Controls Distributor, Representative or our factory for information on special connections, O-rings, operating pressures and temperature ranges.

Cracking Pressure Setting • Range • Replacement Spring Number

Dash No.	Port Size	C.P. Setting	C.P. Range	Spring Number
4PP	1/2"	500	400 - 700	A565-100
		700	550 - 950	A565-140
		1000	850 - 1350	A565-200
		1500	1250 - 2000	A565-300
		2000	1650 - 2700	A565-400
		3000	1900 - 3500	A575-500
		5000	3100 - 7200	A575-1000
		8000	4000 - 10,500	575-910
2PP	1/4"	500	420 - 600	535-70
		8BB	1/2"	700
8BB	1/2"	1000	825 - 1190	535-140
		1400	1170 - 1650	535-200
		1700	1500 - 2075	535-250
		2200	1710 - 2570	535-300
		2800	2300 - 3120	535-400
		3500	3030 - 4100	545-500
		5800	3890 - 7560	545-850
		8000	4000 - 10,500	545-1030

5300-8BB, 5300-2PP – Springs in the 420-3074 psi range are interchangeable and springs in the 3075-10,500 psi range are interchangeable.

5300-4PP – Springs in the 400-2299 psi range are interchangeable and springs in the 2300-10,500 psi range are interchangeable.

Reseal Characteristics

CRACKING PRESSURE

Standard Seals 5 cc/min. with gas

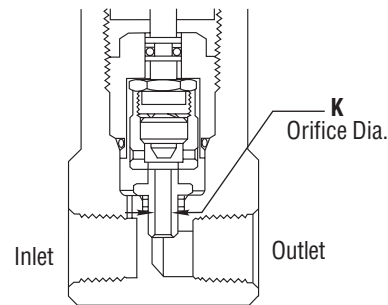
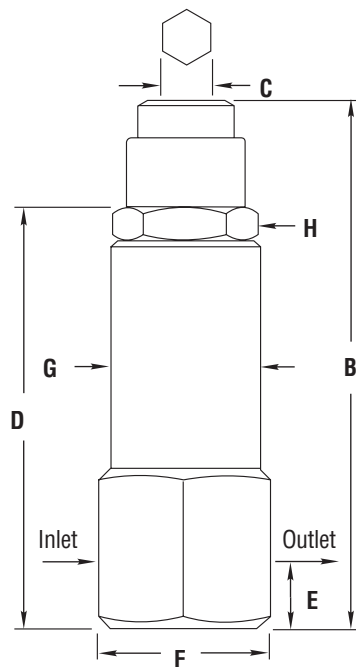
Teflon® 0.02 cc/min. scfm or valves with C.P. over 450 psi

The point at which the valve closes, cutting off virtually all flow, is called the reseal point. The reseal point is substantially above reseal.

Replacement Parts

In normal service the only parts which may require replacement are the O-rings. A complete Repair Kit may be ordered. See table on previous page for replacement springs.

Dimensions



Pipe Size	C.P. Range (PSI)	B Max.	C Hex.	D	E	F Hex.	G Dia.	H Hex.	K Dia.	Weight (lbs.)	
										Brass	303 S.S.
1/4"	420-3074	4.88	1/2	3.83	.52	1.50	1.38	1.25	.125	1.6	1.5
1/4"	3075-10,500	5.78	3/8	3.83	.52	1.50	1.38	1.25	.125	1.8	1.7
1/2"	400-2299	7.01	9/16	5.67	.82	2.00	1.75	1.50	.188	3.2	3.0
1/2"	2300-10,500	8.48	1/2	5.67	.82	2.00	1.75	1.50	.188	3.7	3.5

Tube Size	C.P. Range (PSI)	B Max.	C Hex.	D	E	F Hex.	G Dia.	H Hex.	K Dia.	Weight (lbs.)	
										Brass	303 S.S.
1/2"	420-3074	4.88	1/2	4.59	.70	1.875	1.38	1.25	.125	1.6	1.5
1/2"	3075-10,500	5.78	3/8	4.59	.70	1.875	1.38	1.25	.125	1.8	1.7

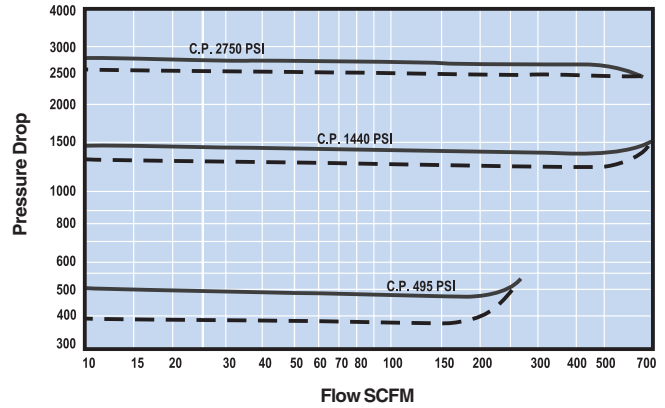
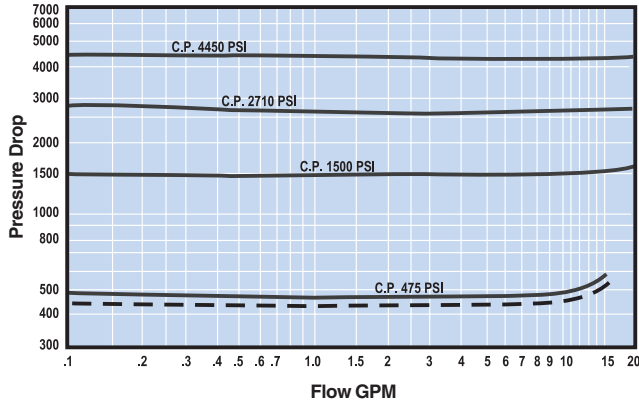
Dimensions in inches.

5300 SERIES

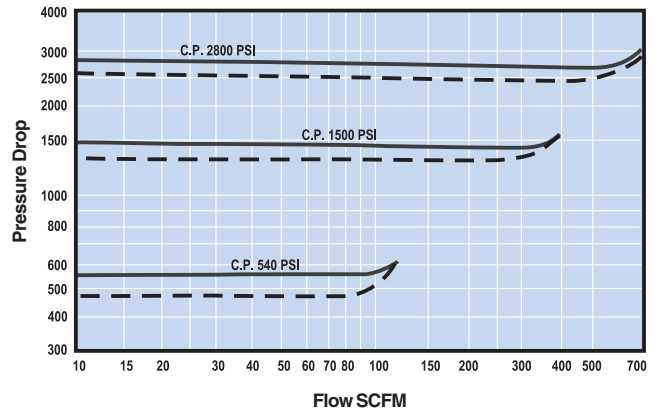
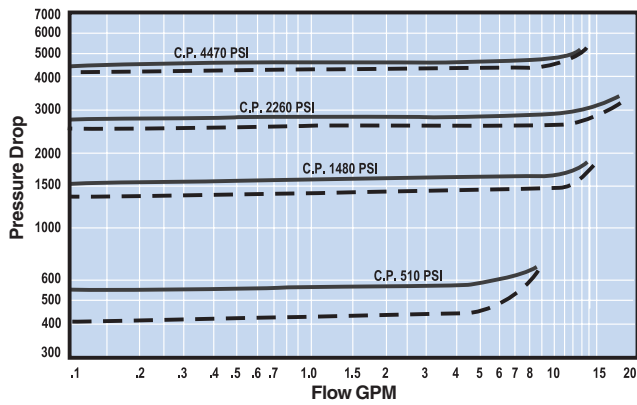
400 to 10,500 PSIG

Typical Flow Curves

5300-4PP with HYDRAULIC FLUID



5300-BB, 5300-2PP with HYDRAULIC FLUID



Increasing Flow ——— Decreasing Flow - - - -



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