

Inserta Products, Inc.

CHECK VALVES GUIDED DISC SLIP-IN

INSERTA® IGS (Steel) Check Valves Guided Disc, Slip-In type, may be considered as an alternative to standard ICS Slip-In Type valves for more demanding applications.

The Guided Disc design (patent pending) affords improved longevity in applications prone to turbulence, high flow rate transients, higher cycling, and applications with right angle flow.

Pressure drops across the valve in right angle flow applications are typically significantly lower than similarly sized thread-in type cartridge valves, resulting in increased system efficiency, and decreased heat generation.

The IGS guided disc check valves are compatible with INSERTA® ICS standard disc valve cavities, and may be interchanged in INSERTA® ICF and INSERTA® ICFS flanged valve bodies.

The valve components are steel. The valve discs and seats are hardened and flat lapped for positive fluid shut off.

The valve disc may be provided with a customer specified orifice to provide fixed orifice flow control function in the checked direction.



Patent Pending

ORDERING INFORMATION

IGS-A-24-N015-RØ

INSERTA®
CHECK VALVES
GUIDED DISC
SLIP-IN TYPE

DESIGN CODE

NOMINAL SIZE

- 16 = 1
- 20 = 1 1/4
- 24 = 1 1/2
- 32 = 2

FLOW CONTROL OPTION

R = FIXED RESTRICTIVE ORIFICE
Ø = DIAMETER (INCH) OF THE FIXED ORIFICE. CUSTOMER MUST SPECIFY THE ORIFICE DIAMETER
SEE "RØ" ON DATA SHEET FOR MAX. ORIFICE DATA. (MIN. Ø = 0.16)
(OMIT FOR STANDARD CHECK VALVE)

CRACKING PRESSURE

- 003 = 3 PSI
- 007 = 7 PSI
- 015 = 15 PSI (STANDARD)

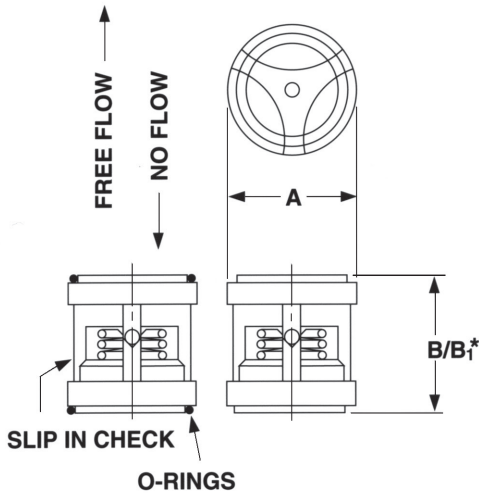
SEAL COMPOUND

- N = BUNA-N (STANDARD)
- V = VITON

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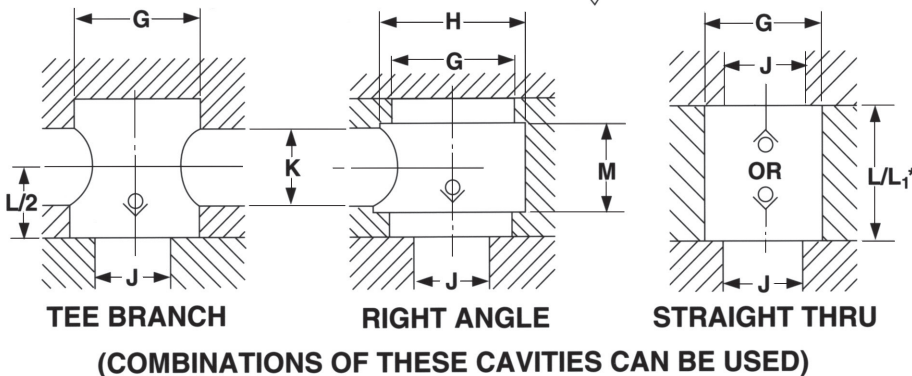




VALVE SIZE	NOMINAL FLOW (GPM)	A -.002	B -.002	B1* -.002	Rø MAX	O-RING SIZE NO. (mm)
16	45	1.199	1.102	1.535		213
20	75	1.553	1.653	2.434		219
24	110	1.770	2.007	2.500		222
32	200	2.391	2.858	3.582		227

NOTE: MINIMUM ORIFICE=.016 DIAMETER In applications where the valve is subject to sudden shock opening or closing (e.g. Accumulator System), the nominal rated flow must not be exceeded and a minimum cracking pressure of 15 PSI is required.

MACHINED CAVITY DIMENSIONS
SURFACE FINISH TO BE 63



NOMINAL FLOW RATES ARE WITH A ΔP OF 20 TO 40 PSI

CAUTION
Care must be exercised when installing check valve to insure the free flow path of the slip-in check valve is correct for the system in which it is installed.

VALVE SIZE	G	H MAX.	J MAX.	K MAX.	L +.002 -.000	L1* +.002 -.000	M MAX.
02	.3346 / .3360	.433	.157	.197	.531	.728	.220
04	.4528 / .4545	.551	.236	.236	.571	.846	.256
06	.5906 / .5923	.709	.315	.354	.669	.866	.374
08	.7480 / .7500	.866	.433	.433	.787	.945	.453
12	.9646 / .9666	1.102	.591	.551	.906	1.220	.571
16	1.2008 / 1.2032	1.378	.787	.787	1.102	1.535	.787
20	1.5551 / 1.5575	1.811	1.031	1.102	1.653	2.434	1.102
24	1.7717 / 1.7741	2.204	1.250	1.250	2.007	2.500	1.375
32	2.3927 / 2.3960	2.968	1.750	1.750	2.858	3.582	1.875
40	2.884 / 2.887	3.546	2.062	2.062	3.407	3.532	1.750
48	3.386 / 3.389	4.203	2.500	2.500	3.507	4.119	2.000

MOUNTING POSITION:
OPTIONAL
MAXIMUM OPERATING PRESSURE:
6000 PSI (Contact the Factory for pressures up to 7250 PSI)
TEMPERATURE RANGE:
-22°F (-30°C) To 175°F (80°C)
OPERATING MEDIUM: HYDRAULIC FLUID

VISCOSITY RANGE:
50 SSU TO 2000 SSU
CRACKING PRESSURE:
3 PSI, 7 PSI, 15 PSI (STANDARD)

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