

3505 Series Check Valves

Precision check valves for high-pressure, critical applications

Features

- Positive shutoff in the check direction
- Corrosion resistant 316 Stainless Steel
- Pressures up to 6000 psi
- C_vs ranging from 2.5 to 55.0
- MS tube or NPT end connections
- Line sizes from 1/4" to 2" standard
- Cryogenic models available
- NASA tested and approved models

Specifications

- Operating Pressure 0 to 3,000 psi or 0 to 6,000 psi
- Proof 1½ x operating
- Burst 4 x operating
- C_v 2.5 to 55 (see table)
- Cracking Pressure 1.0 psi or 8.0 psi
- Temperature -420°F to +165°F
- Leakage Bubble-tight, internal and external, ambient conditions



Materials of Construction

- Body/Trim 316 Stainless steel, Monel®
- Poppet 316 Stainless steel
- Spring 316 Stainless steel
- Seals Teflon®, Ethylene Propylene, Buna-N® or Viton®

Monel® is a registered trademark of Inco Alloys International
Teflon® is a registered trademark of E. I. du Pont de Nemours & Company
Buna-N® is a registered trademark of E. I. du Pont de Nemours & Company
Viton® is a registered trademark of DuPont Dow Elastomers

Applications

Aerospace ground support • Industrial gas • Chemical process • Nuclear power plant • Test stands
Wide range of gases and liquids • Calibration systems • Service and test equipment



www.usparaplate.com • 951-270-6200

*U.S. Para Plate valves and regulators are used where performance and reliability are a must.
Proven for over 30 years in the most demanding Aerospace and Industrial applications.*



3505 Series Check Valves

Ordering Information

3505 Cracking pressure 1 psi	MODEL NUMBER
B = 316 Stainless steel M = Monel®	BODY
R = Ethylene Propylene (EPR) B = Buna-N® V = Fluorocarbon (Viton®)	SEAT/SEAL MATERIAL
- = General Service X = High level precision cleaning	CLEANING
1/16" Increments (see table)	LINE SIZE
T = MS33649 female tube P = NPT female S = MS33656 male tube G = G-CON® Hub (see table)	I/O PORT TYPE
H = 6000 psig max Blank = 3000 psig max	OPERATING PRESSURE

For Oxygen service, contact factory.

(Bold Italic Type indicates standard options)

G-CON® is a registered trademark of Reflange, Inc.

Ordering Information

3505-3050 Cracking pressure 8 psi	MODEL NUMBER
B = 316 Stainless steel M = Monel®	BODY
- = General Service X = High level precision cleaning	CLEANING
1/16" Increments (see table)	LINE SIZE
T = MS33649 female tube P = NPT female S = MS33656 male tube G = G-CON® Hub (see table)	I/O PORT TYPE
H = 6000 psig max Blank = 3000 psig max	OPERATING PRESSURE

For Oxygen service, contact factory.

(Bold Italic Type indicates standard options)

G-CON® is a registered trademark of Reflange, Inc.

Ordering Information for Cryogenic Service

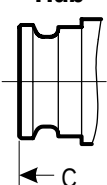
3505-4425 Cracking pressure 8 psi	MODEL NUMBER
- = General Service X = High level precision cleaning	CLEANING
1/16" Increments (see table)	LINE SIZE
T = MS33649 female tube S = MS33656 male tube G = G-CON® Hub (see table)	I/O PORT TYPE

For Oxygen service, contact factory.

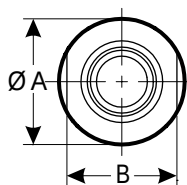
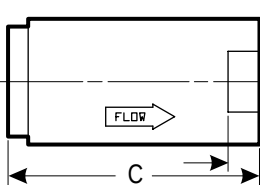
(Bold Italic Type indicates standard options)

G-CON® is a registered trademark of Reflange, Inc.

G-CON® Hub



Female Tube



0.32 min
wrench flats
both ends

Both ends

Dimensions and Flow Factors

Dash Number	Line Size	All Connection Types		Female Tube	G-CON® Hub	G-CON® Hub Seal Ring	C _v
		Ø A±0.03	B±0.02	C±0.03	C±0.03		
-4	0.25	1.12	0.94	2.50	—	—	2.5
-6	0.375	1.25	1.00	2.70	—	—	3.5
-8	0.50	1.75	1.50	3.17	5.45	G05	6.0
-12	0.75	2.25	2.00	4.30	6.00	G05	10.0
-16	1.00	2.25	2.00	4.39	6.00	G07	15.0
-24	1.50	3.25	3.00	5.75	7.25	G14	35.0
-32	2.00	4.00	3.50	6.39	8.50	G14	55.0



U.S. Para Plate • 2301 Wardlow Circle • Corona, California 92880

Tel: 951-270-6200 • Fax: 951-270-6201 • www.usparaplate.com