

Colorflow[®] and Ball Valves

Industrial Flow Control, Check, Gauge Control

Catalog HY14-3300/US

aerospace climate control electromechanical filtration fluid & gas handling hydraulics pneumatics process control sealing & shielding



ENGINEERING YOUR SUCCESS.

The exclusive "Colorflow" feature on metering, flow control, and needle valves gives highly visible check-points for setting Fully guided poppets are used valve openings. This feature also on Colorflow valves rather than provides a reference point that the less durable ball-check type allows the valve to be accurately construction. Poppets open and and quickly reset to a previous close more smoothly - last lonsetting. ger — and eliminate the distortion of seats and springs. Vris. OHIO 44535 U.S.A Colorflow valves are available with a variety of porting options. Steel, brass or stainless steel bodies are available, all of which include stainless steel needles as standard.

WARNING: Colorflow valves are not repairable

🖄 WARNING – USER RESPONSIBILITY

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

- This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.
- The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.
- To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

OFFER OF SALE

The items described in this document are hereby offered for sale by Parker-Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated in the detailed "Offer of Sale" elsewhere in this document or available at www.parker.com/hydraulicvalve.

SAFETY GUIDE

For safety information, see Safety Guide SG HY14-1000 at www.parker.com/safety or call 1-800-CParker.

© Copyright 2012 Parker Hannifin Corporation, All Rights Reserved

Cat HY14-3300-frtcvr.indd, dd



General Description

Series C check valves permit free flow in one direction, and dependable shut-off in the reverse direction.

Operation

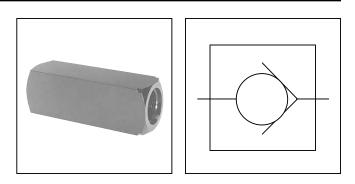
When pressure going through the valve is increased to the cracking level, the valve opens. When the pressure is reduced to below the cracking level, the valve closes.

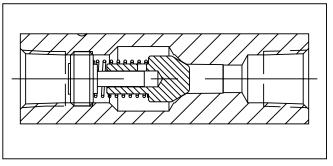
Features

- Stainless steel poppets standard.
- Soft seal poppets are standard in some variations.
- Triangular retainers guide the poppets, and hold the spring firmly in place even under high velocity and shock.

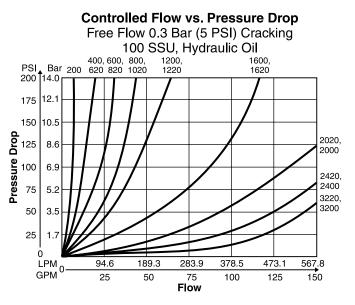
Specifications

Maximum Operating Pressure	Brass:	140 Bar (2000 PSI); except for C1600 brass which is 35 Bar (500 PSI)		
	Steel & Stainless Steel:	345 Bar (5000 PSI) for 200 thru 1220; 207 Bar (3000 PSI) for all other sizes and styles		
Material	Body	See ordering code		
	Spring	316 Stainless Steel		
	Poppet	416 Stainless Steel		
	Retainer	416 Stainless Steel		
	Stainless Steel Bodies	303 Stainless Steel		
Poppets	Soft seal poppet is standard for 200 through 800/1020 size.			
	For cracking pressures > 15 PSI, solid metal poppets are standard			
Nominal Cracking Pressure	Standard: Optional:	0.4 Bar (5 PSI) 1.38 Bar (20 PSI), 4.48 Bar (65 PSI)		
Temperature Range of Seal	-40°C to +121°C (-40°F to +250°F) Nitrile (standard)			
Compound	-26°C to +205°C (-15°F to +400°F) Fluorocarbon			



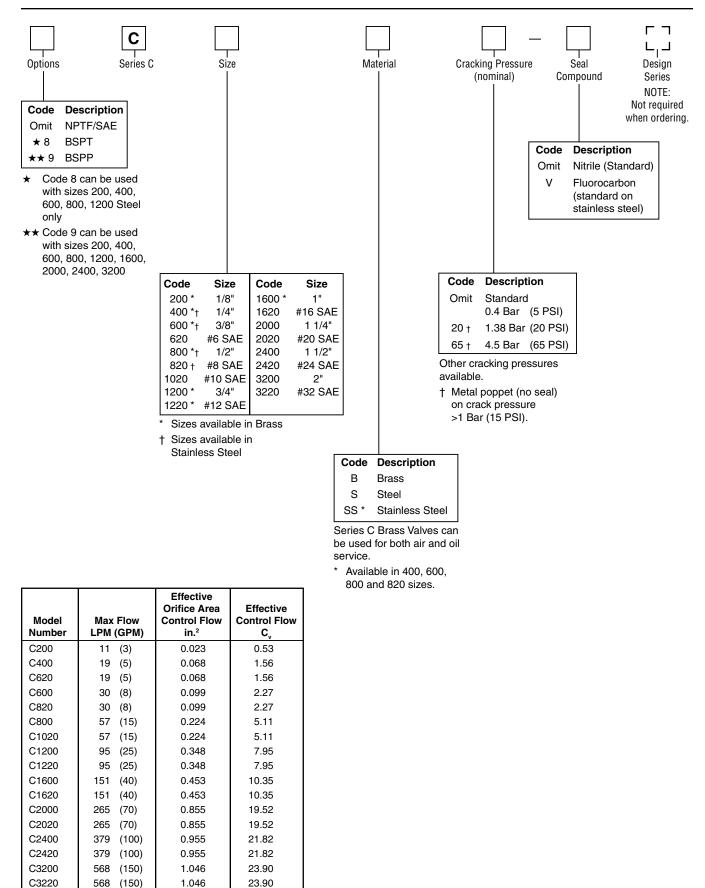


Performance Curves



3300-colorflow.indd, ddp

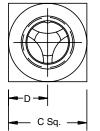


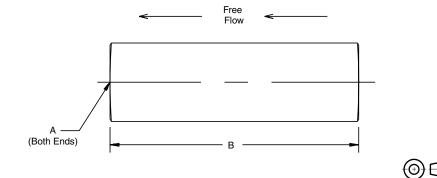


3300-colorflow.indd, ddp



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





Model Number	Weight kg (lbs.)	Α	В	с	D
C200	0.05 (0.1)	1/8–27 NPTF	50.8 (2.00)	16.0 (0.63)	7.9. (0.31)
C400	0.2 (0.4)	1/4–18 NPTF	66.8 (2.63)	20.6 (0.81)	10.4 (0.41)
C600	0.2 (0.5)	3/8–18 NPTF	69.9 (2.75)	25.4 (1.00)	12.7 (0.50)
C620	0.2 (0.5)	9/16–18 UNF #6 SAE	79.2 (3.12)	25.4 (1.00)	12.7 (0.50)
C800	0.6 (1.3)	1/2–14 NPTF	87.4 (3.44)	31.8 (1.25)	16.0 (0.63)
C820	0.3 (0.7)	3/4–16 UNF #8 SAE	88.9 (3.50)	28.4 (1.12)	14.2 (0.56)
C1020	0.6 (1.3)	7/8–14 UNF #10 SAE	101.6 (4.00)	31.8 (1.25)	15.7 (0.62)
C1200	0.9 (2.0)	3/4–14 NPTF	98.6 (3.88)	38.1 (1.50)	19.1 (0.75)
C1220	0.9 (2.0)	1 1/6–12 UN #12 SAE	117.3 (4.62)	38.1 (1.50)	19.1 (0.75)
C1600	1.5 (3.3)	1–11 1/2 NPTF	127.0 (5.00)	44.5 (1.75)	22.4 (0.88)
C1620	1.5 (3.3)	1 5/16–12 UN #16 SAE	142.7 (5.62)	57.2 (2.25)	28.4 (1.12)
C2000	2.8 (6.2)	1 1/4–11 1/2 NPTF	143.0 (5.63)	57.2 (2.25)	28.7 (1.13)
C2020	2.8 (6.2)	1 5/8–12 UN #20 SAE	165.1 (6.50)	69.9 (2.75)	35.1 (1.38)
C2400	3.8 (8.4)	1 1/2–11 1/2 NPTF	143.0 (5.63)	69.9 (2.75)	35.1 (1.38)
C2420	3.8 (8.4)	1 7/8–12 UN #24 SAE	184.2 (7.25)	76.2 (3.00)	38.1 (1.50)
C3200	7.0 (15.4)	2–11 1/2 NPTF	165.1 (6.50)	88.9 (3.50)	44.5 (1.75)
C3220	7.0 (15.4)	2 1/2–12 UN #32 SAE	228.6 (9.00)	101.6 (4.00)	50.8 (2.00)

3300-colorflow.indd, ddp

