

NEW



TC Series True Union Ball Check Valves

1/4" - 1" PVDF

KEY FEATURES

- Available in sizes 1/4" - 1"
- Threaded or Socket Fusion (IPS) Ends
- Ideal for Vertical Installation
- Square Cut Seat for Positive Sealing
- Seats with Minimum Back Pressure
- Solid PTFE Ball
- FPM O-Ring Seals Standard, EPDM upon Request

MATERIALS

- Natural PVDF per ASTM D3222 Type 1
- FPM O-Ring Seals
- FPM Seat
- PTFE Ball

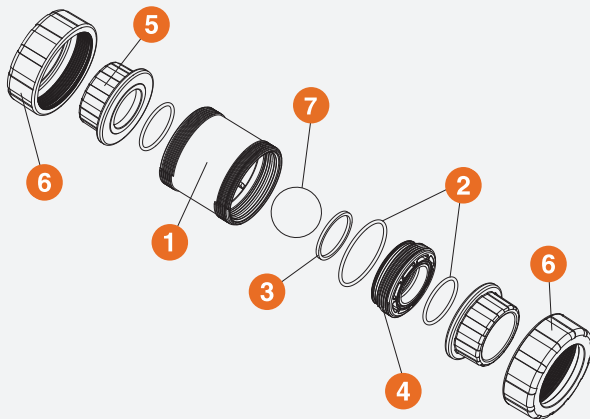
TYPICAL APPLICATIONS

- Chemical Processing, Handling and Feed Applications
- Water and Wastewater Treatment
- Pulp and Paper
- Marine and Corrosive Environments

*For installation, see IOM

TECHNICAL INFORMATION

EXPLODED VIEW



SELECTION CHART

SIZE	MATERIAL	END CONNECTION	SEALS	PRESSURE RATING
1/4" - 1" (DN8 - DN25)	PVDF	Threaded or Socket Fusion (IPS)	FPM	150 PSI @ 70°F 10 Bar @ 21°C Non-Shock

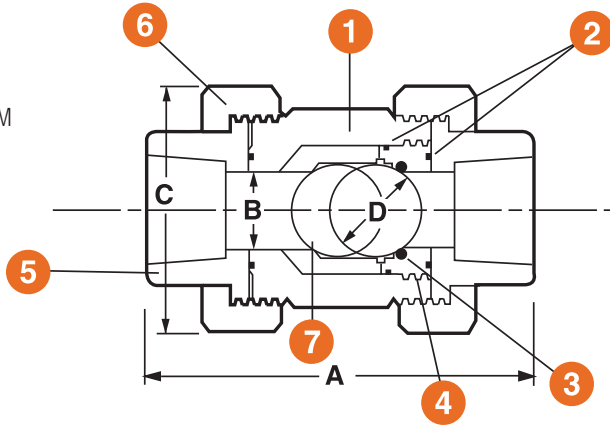
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1/4" - 1" PVDF

TECHNICAL INFORMATION, CONTINUED

PARTS LIST

1. Body-PVDF
2. O-Ring Seals-FPM
3. Square Cut O-Ring Seat-FPM
4. Seal Retainer-PVDF
5. End Connector-PVDF
6. Union Nut-PVDF
7. Ball-PTFE



DIMENSIONS

SIZE in / DN	A in / mm	B in / mm	C in / mm	D in / mm	WEIGHT
					lbs / kg
					SOC
1/4 / 8	4.63 / 78	.50 / 13	2.25 / 57	.75 / 19	.75 / .34
3/8 / 10	4.63 / 78	.50 / 13	2.25 / 57	.75 / 19	.75 / .34
1/2 / 15	4.63 / 118	.50 / 13	2.25 / 57	.75 / 19	.75 / .34
3/4 / 20*	4.75 / 121	.75 / 19	2.63 / 67	1.00 / 25	.75 / .34
1 / 25*	5.25 / 133	1.00 / 25	3.00 / 76	1.25 / 32	1.25 / .57

Dimensions are subject to change without notice – consult factory for installation information

Hayward TC Ball Check Valves require a minimum of 2 PSI to seat and 1-1/2 PSI cracking pressure to open

*1/4 & 3/8 valves in a 1/2 valve with reduced end connectors

Cv VALUES

SIZE in / DN	Cv VALUES
1/4 / 8	1.0
3/8 / 10	3.0
1/2 / 15	4.8
3/4 / 20	7.7
1 / 25	11.0

PRESSURE LOSS CALCULATION FORMULA

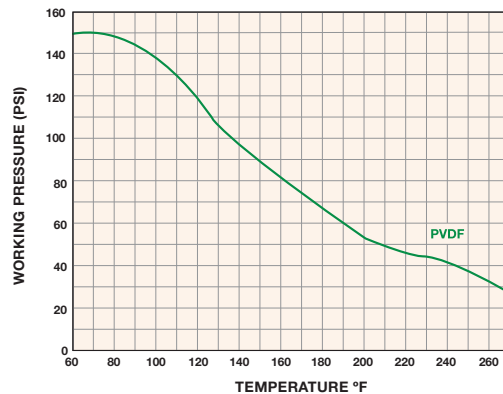
$$\Delta P = \left[\frac{Q}{C_v} \right]^2$$

ΔP = Pressure Drop

Q = Flow in GPM

Cv = Flow Coefficient

OPERATING TEMPERATURE/PRESSURE



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USA: 1.888.429.4635 • Fax: 1.888.778.8410 • One Hayward Industrial Drive • Clemmons, NC 27012 • Email: hfcsales@hayward.com

Canada: 1.888.238.7665 • Fax: 1.905.829.3636 • 2880 Plymouth Drive • Oakville, ON L6H 5R4 • Email: hflowcanada@hayward.com

Visit us at: haywardflowcontrol.com