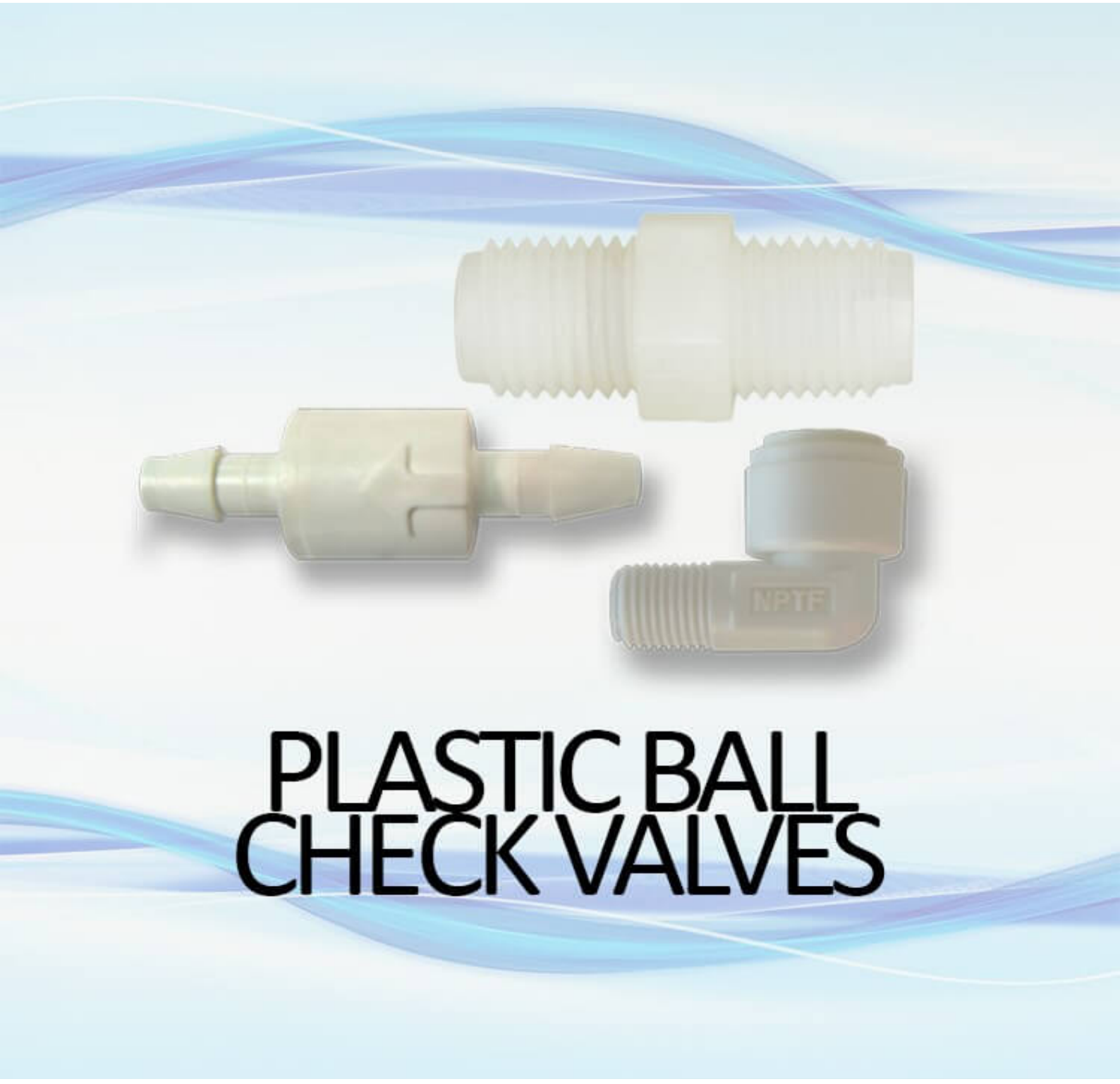

PLASTIC BALL CHECK VALVES

Plastic ball valves simple designs reduce the need for maintenance and energy needs.
The ball inside automatically moves from the flow path to block it.

MCV SERIES - CHECK VALVES

The MCV Series Check Valve housings are available in various materials: White Nylon is standard, with Black Nylon optional; Natural Polypropylene is standard with Black Polypropylene optional. Black PVDF is also available. Different colors can be specially formulated. O-ring Seals are Buna-N, EPDM, Viton®, and Silicone. The standard spring is 302 Stainless Steel with 316 Stainless Steel ball. The Standard barb inlet and outlet sizes are for 1/8 inch, 3/16 inch, and 1/4 inch ID tubing. The outlet side is available with a 1/8 Male NPT or ¼ Male NPT.

The maximum operating pressure is 125 psi. and the maximum operating temperature is 140˚ F. PVDF is sold with PTFE seals and a Hastelloy Springs.

Spring Options:

No Spring
1/2 psi - 302 Stainless
1 psi - 302 Stainless
2 psi - 302 Stainless
3 psi - 302 Stainless

MCV SERIES PRODUCT LIST

Pneuline Part Number	Size	Body	Seal	PSI
MCV-4B-PPE-1	1/4 (4B)	Polypropylene	EPDM	1 PSI
MCV-4B-NV-1/2	1/4 (4B)	Nylon	Viton ®	1/2 PSI
MCV-4B-NV-1	1/4 (4B)	Nylon	Viton ®	1 PSI
MCV-4B3B-NB-2	1/4 (4B) by 3/16 (3B)	Nylon	Buna	2 PSI
MCV-3B-PPV-3	3/16 (3B)	Polypropylene	Viton ®	3 PSI
MCV-3B-PPV-1/2	3/16 (3B)	Polypropylene	Viton ®	1/2 PSI
MCV-3B-PPV-1	3/16 (3B)	Polypropylene	Viton ®	1 PSI
MCV-3B-PPE-2	3/16 (3B)	Polypropylene	EPDM	2 PSI
MCV-3B-PPE-1/2	3/16 (3B)	Polypropylene	EPDM	1/2 PSI
MCV-3B-PPE-1	3/16 (3B)	Polypropylene	EPDM	1 PSI
MCV-3B-NV-1	3/16 (3B)	Nylon	Viton ®	1 PSI
MCV-3B-NV-2	3/16 (3B)	Nylon	Viton ®	2 PSI
MCV-3B4B-PPV-3	3/16 (3B) by 1/4 (4B)	Polypropylene	Viton ®	3 PSI
MCV-3B4B-PPE-3	3/16 (3B) by 1/4 (4B)	Polypropylene	EPDM	3 PSI
MCV-2B-PPV-2	1/8 (2B)	Polypropylene	Viton ®	2 PSI
MCV-2B-PPV-1/2	1/8 (2B)	Polypropylene	Viton ®	1/2 PSI
MCV-2B-PPE-3	1/8 (2B)	Polypropylene	EPDM	3 PSI

MCV-2B-PPE-2	1/8 (2B)	Polypropylene	EPDM	2 PSI
MCV-2B-PPE-1/2	1/8 (2B)	Polypropylene	EPDM	1/2 PSI
MCV-2B-PPE-1	1/8 (2B)	Polypropylene	EPDM	1 PSI
MCV-2B-PPB-2	1/8 (2B)	Polypropylene	Buna	2 PSI
MCV-2B-NV-1/2	1/8 (2B)	Nylon	Viton ®	1/2 PSI
MCV-2B-NV-1	1/8 (2B)	Nylon	Viton ®	1 PSI
MCV-2B-NB-1	1/8 (2B)	Nylon	Buna	1 PSI
MCV-2B4B-PPV-2	1/8 (2B) by 1/4 (4B)	Polypropylene	Viton ®	2 PSI
MCV-2B4B-PPE-1/2	1/8 (2B) by 1/4 (4B)	Polypropylene	EPDM	1/2 PSI
MCV-2B2M-PPV-2	1/8 (2B) 1/8 MNPT	Polypropylene	Viton ®	2 PSI
MCV-4B4B-PPV-1	1/4 (4B)	Polypropylene	Viton ®	1 PSI

CVK SERIES - MALE CHECK VALVES

The CVK Series are male-by-male Check Valves made of natural PVDF. It has a 316 Stainless Steel spring and ball Viton® O-ring. Other O-ring options are EPDM and Fluorosilicone (blue). These check valves have a 1-2.5 psi cracking pressure with a maximum operating pressure of 220 psi and a maximum working temperature of 180°F. Available with a Hastelloy® spring and PTFE ball. Available Male NPT thread sizes are: 1/8 inch, 1/4 inch, 3/8 inch, and 1/2 inch.

SKU	Description
CVK-2M	1/8 inch NPT Check Valve PVDF
CVK-4M	1/4 NPT Check Valve PVDF
CVK-6M	3/8 inch NPT Check Valve PVDF
CVK-6M-HPTFE	3/8 inch M Check Valve PVDF, Hastelloy®/PTFE/FKM
CVK-8M	1/2 inch NPT Check Valve PVDF
CVK-8M-HPTFE	1/2 inch M Check Valve PVDF, Hastelloy®/PTFE/FKM

DCE SERIES

The DCE Series is a rigid male Check Valve elbow made of Acetal that is NSF 51® certified and meets NSF 61® requirements. The available male threads are 1/8 inch, 1/4 inch, and 3/8 inch. OD tubing sizes are 5/32 inch, 3/16 inch, 1/4 inch, 5/16 inch, 3/8 inch, and 1/2 inch. The working pressure at 77˚ F is 232 psi, and at 158˚ F it is 145 psi. The working temperature range is from 32˚ F to 158˚ F. It can be used for compressed air, inert gases, water, and other fluids.

SKU	Description
DCE-2M-14	1/8 MNPT by 1/4 OD Push-in Elbow Spring-loaded Check Valve
DCE-4M-14	1/4 MNPT by 1/4 OD Push-to Connect Elbow Check Valve
DCE-6M-14	3/8 MNPT by 1/4 OD Push-to Connect Elbow Check Valve