

IPEX SXE True Union Ball Check Valves



The IPEX EasyFit large diameter SXE Series Ball Check Valves represent the latest innovation in thermoplastic valve manufacturing technology. The large diameter SXE is a complement to the small diameter SXE ball check valve, providing trouble free service for industrial, OEM and water service applications. This popular style of check valve features a true union design allowing for easy removal and maintenance of the valve without disturbing the rest of the pipe assembly. Positive shutoff of the valve in both vertical and horizontal installations is achieved with just 3 psi of back pressure. The innovative SXE EasyFit design features a custom labelling system, and the optional EasyFit multifunctional handle allows for union nut rotational control and safe blocked carrier tightening.

SXE Ball Check Valves are part of our complete system of IPEX pipe, valves and fittings, engineered and manufactured to our strict quality, performance and dimensional standards.



Applications

- Acid Products Handling for Refineries, Metal Works, Etc.
- Alum and Ferric Chloride Handling
- Aquariums and Aquatic animal life support systems
- Bleach, Dye and Acid Lines
- Brine and Seawater Systems
- Chlorine injection, chlorine dioxide and chloralkali plant piping
- Acid Products Handling for Refineries, Metal Works, etc.
- Pharmaceutical
- Plant chemical distribution lines
- Plant water supply and distribution
- Swimming Pools
- Wash water recovery systems
- Water and wastewater treatment

Valve Availability

Body Material	PVC, CPVC
Size Range	1/2" through 4"
Pressure	232 psi
Seals	EPDM or Fluoropolymer (FPM)
End Connections	Socket (IPS), Threaded (FNPT)

TRANSPARENT PLUG WITH TAG HOLDER

The SXE valve body has a molded module that contains a transparent PVC service plug and white tag holder, IPEX branded on one side.



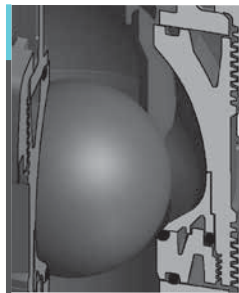
EASYFIT CUSTOM LABELLING SYSTEM

The EasyFit Custom Labelling System is a complete product line created to customize individual EasyFit valves. This can be used to identify chemical service, tag number or pipeline contents.



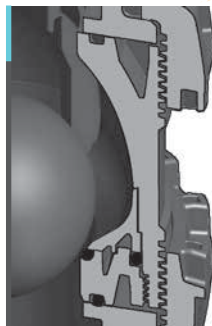
MACHINED BALL & SELF-CLEANING DESIGN

The SXE EasyFit machined ball reduces valve wear, resulting in an extended service life and minimized maintenance operations. Additionally, the self-cleaning design of the ball and valve interior makes the SXE ideal for dirty fluid and suspended solid applications.



OPTIMIZED FLUID DYNAMICS

The machined ball and specially designed internal profile of the SXE EasyFit ball check valve results in an improved C_v value due to a reduced pressure drop across the valve.



TRUE UNION DESIGN

The SXE true union design allows for simple installation and removal without disturbing the rest of the pipe assembly. The SXE lay length is identical to a VXE EasyFit ball valve and both valves share the same union nut and end connectors. This means that the SXE ball check valve can replace an existing VXE ball valve.



EASYFIT MULTIFUNCTIONAL HANDLE

The optional EasyFit multifunctional handle is designed for advanced service functions. The compact designed handle provides excellent maneuverability and is the best solution to carry out maintenance operations in restricted spaces.



SAFE BLOCKED CARRIER ADJUSTMENT

The EasyFit multifunctional handle can be used to dismount, install or adjust the safe blocked carrier into the valve body. There is no need for additional tools.



EASYFIT UNION NUT GEAR TIGHTENING

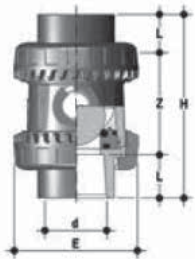
The EasyFit multifunctional handle can be converted into a wrench key using the tool insert housed inside the handle body. The tool is extremely rugged, light and ergonomic, and is designed to engage the external profile of the SXE union nuts eliminating the possibility of damage and over-tightening.



MAIN-SEAL SAFE BLOCKED CARRIER

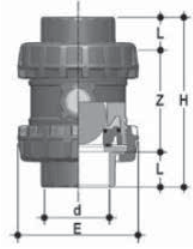
The SXE EasyFit ball check valve is equipped with a safe blocked and adjustable main-seal carrier. During maintenance in depressurized pipelines, this feature ensures that the valve body can be safely removed.

Dimensions



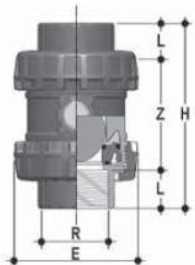
SXE IPS Socket (inches)

Size	d	L	Z	H	E
1/2	0.84	0.89	2.01	3.78	2.13
3/4	1.05	1.00	2.13	4.13	2.48
1	1.315	1.13	2.34	4.61	2.83
1-1/4	1.66	1.26	2.83	5.35	3.35
1-1/2	1.9	1.38	3.03	5.79	3.94
2	2.38	1.50	3.84	6.85	4.65



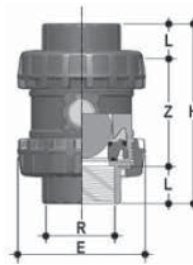
SXE IPS Socket (inches)

Size	d	L	Z	H	E
2-1/2	2.875	1.75	4.80	8.31	6.18
3	3.5	1.89	5.98	9.76	6.85
4	4.5	2.26	6.61	11.14	8.35



SXE NPT Female (inches)

Size	R	L	Z	H	E
1/2	1/2-NPT	0.70	2.14	3.54	2.13
3/4	3/4-NPT	0.71	2.24	3.66	2.48
1	1-NPT	0.89	2.55	4.33	2.83
1-1/4	1-1/4-NPT	0.99	3.02	5.00	3.35
1-1/2	1-1/2-NPT	0.97	3.21	5.16	3.94
2	2-NPT	1.17	4.01	6.34	4.65



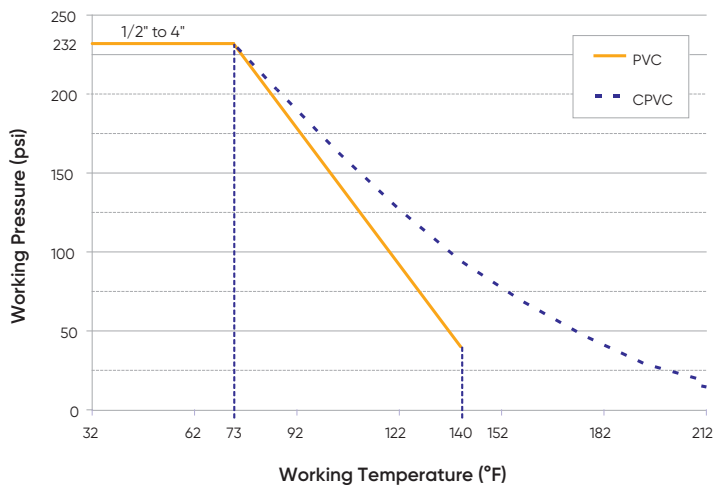
SXE NPT Female (inches)

Size	R	L	Z	H	E
2-1/2	2- 1/2-NPT	1.31	5.69	8.31	6.18
3	3-NPT	1.40	6.97	9.76	6.85
4	4-NPT	1.48	8.18	11.14	8.35

C_v Values & Minimum Back Pressure to Seal

Size	C _v	Pressure
1/2	10.6	2.9
3/4	17.9	2.9
1	30.0	2.9
1-1/4	44.6	2.9
1-1/2	64.4	2.9
2	93.2	2.9
2-1/2	179.4	2.9
3	238.9	2.9
4	353.3	2.9

Pressure & Temperature Ratings



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