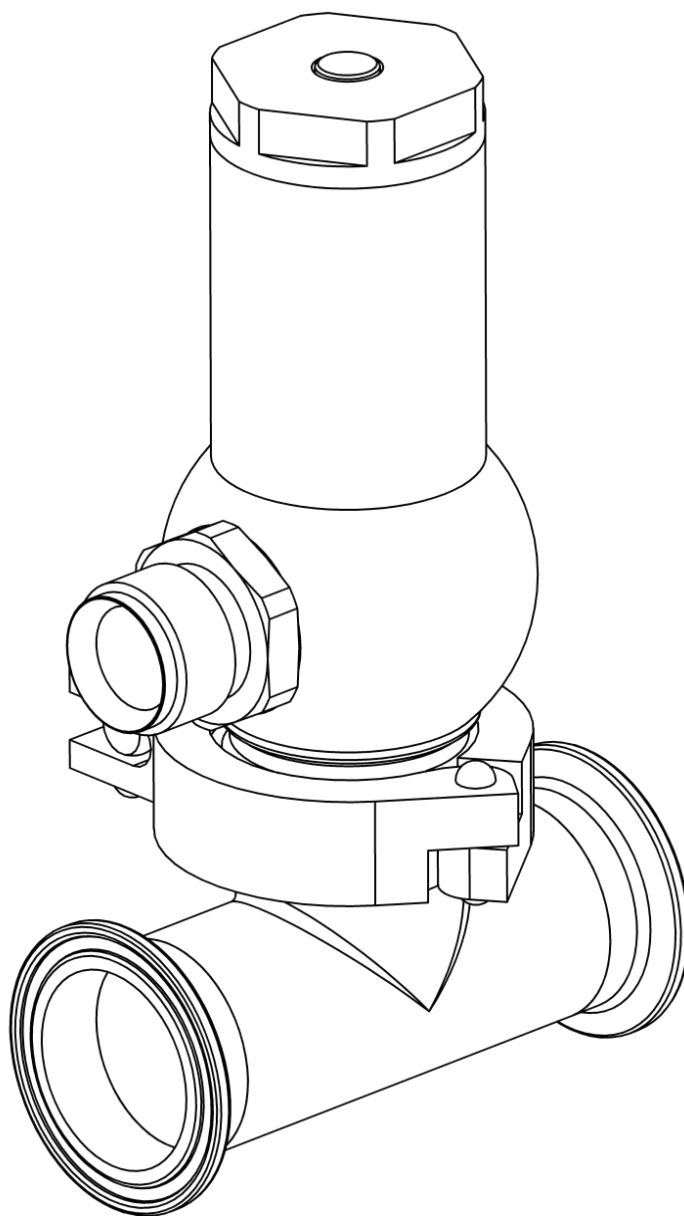


PRV16-X-XX & PRV22-X-XX Pressure Relief Valve



ADDITIONAL RESOURCES

For additional information or copies of your service manual, please visit us online at:

binks.com/en/library

Obey local or municipal regulations for product recycling and disposal.

IMPORTANT! DO NOT DESTROY
It is the Customer's responsibility to have all operators and service personnel read and understand this manual. Contact your local Binks representative for additional copies of this manual.
READ ALL INSTRUCTIONS BEFORE OPERATING THIS PRODUCT

Product Description / Object of Declaration:	BPR - 107757-X-X, 107758-X-X, 107748, 107749, 107750, 107754-X-X, 107755-X-X, PRV22-X-X, 107906, 107908, 107760-X-X, 107928, PRV16-X-X.
This Product is designed for use with:	Solvent & Waterbased Materials
Suitable for use in hazardous area:	Zone 1/Zone 2
Protection Level:	II 2 G c X IIB T4, Ex h IIB T4 Gb X
Notified body details and role:	Element Materials Technology Rotterdam B.V. (2812)
	Lodging of ATEX Technical file
This Declaration of Conformity / Incorporation is issued under the sole responsibility of the manufacturer:	Binks U.K. Limited, Ringwood Road, Bournemouth, BH11 9LH. UK
Representative authorised to compile the technical file	President @. Binks France SAS 5 Place Pierre Semard, 94130 Nogent sur Marne , Paris, France

EU Declaration of Conformity



This Declaration of Conformity / Incorporation is issued under the sole responsibility of the manufacturer:

Machinery Directive 2006/42/EC

ATEX Directive 2014/34/EU

by complying with the following statutory documents and harmonised standards:

EN ISO 12100:2010 Safety of Machinery - General Principles for Design

EN 12621:2006+2010 Machinery for the supply and circulation of coating materials under pressure - Safety requirements

EN ISO 80079-36:2016 Explosive Atmospheres- Part 36:Non Electrical equipment for explosive atmospheres-Basic methods and requirements.

EN ISO 80079-37:2016 Explosive Atmospheres- Part 37: Non Electrical equipment for explosive atmospheres - protection by methods "c", "b" and "k".

EN 1127-1:2019 Explosive atmospheres - Explosion prevention - Basic concepts

Providing all conditions of safe use / installation stated within the product manuals have been complied with and also installed in accordance with any applicable local codes of practice.

Signed for and on behalf of Binks
U.K. Ltd:

Document Part No.
. EN

F. A. Sutter

14-04-25

Executive President: Engineering and
Operations, Shoreview, MN, 55126. USA

Product Description / Object of Declaration:	BPR - 107757-X-X, 107758-X-X, 107748, 107749, 107750, 107754-X-X, 107755-X-X, PRV22-X-X, 107906, 107908, 107760-X-X, 107928, PRV16-X-X.
This Product is designed for use with:	Solvent & Waterbased Materials
Suitable for use in hazardous area:	Zone 1/Zone 2
Protection Level:	II 2 G c X IIB T4, Ex h IIB T4 Gb X
Approved body details and role:	Element Materials Technology Warwick Ltd. UK. (0891)
	Lodging of UKEX Technical file
This Declaration of Conformity / Incorporation is issued under the sole responsibility of the manufacturer:	Binks U.K. Limited, Ringwood Road, Bournemouth, BH11 9LH. UK

UKCA Declaration of Conformity



This Declaration of Conformity / Incorporation is issued under the sole responsibility of the manufacturer:

Supply of Machinery (Safety) Regulations 2008
Equipment and Protective Systems Intended for use in Potentially Explosive Atmospheres Regulations 2016
by complying with the following statutory documents and designated standards:
BS EN ISO 12100:2010 Safety of Machinery - General Principles for Design
BS EN ISO 80079-36:2016 Explosive Atmospheres- Part 36: Non Electrical equipment for explosive atmospheres-Basic methods and requirements.
BS EN ISO 80079-37:2016 Explosive Atmospheres- Part 37: Non Electrical equipment for explosive atmospheres - protection by methods "c", "b" and "k".
BS EN 1127-1:2019 Explosive atmospheres - Explosion prevention - Basic concepts

Providing all conditions of safe use / installation stated within the product manuals have been complied with and also installed in accordance with any applicable local codes of practice.

Signed for and on behalf of Binks
U.K. Ltd:

Document Part No.
0 EN

F. A. Sutter

22-04-25

Executive President: Engineering and
Operations, Shoreview, MN, 55126. USA

 WARNING	 CAUTION	NOTE
Hazards or unsafe practices which could result in severe personal injury, death or substantial property damage.	Hazards or unsafe practices which could result in minor personal injury, product or property damage	Important installation, operation or maintenance information.
 WARNING		

Read the following warnings before using this equipment.



READ THE MANUAL. Before operating finishing equipment, read and understand all safety, operation and maintenance information provided in the operation manual.



WEAR SAFETY GLASSES. Failure to wear safety glasses with side shields could result in serious eye injury or blindness.



DE-ENERGIZE, DE-PRESSURISE, DISCONNECT AND LOCK OUT ALL POWER SOURCES DURING MAINTENANCE. Failure to de-energize, disconnect and lock out all power supplies before performing equipment maintenance could cause serious injury or death.



NOISE LEVELS. The A-weighted sound level of pumping and spray equipment may exceed 85 dB(A) depending on equipment settings. Actual noise levels are available on request. It is recommended that ear protection is worn at all times while equipment is in use.



INSPECT THE EQUIPMENT DAILY. Inspect the equipment for worn or broken parts on a daily basis. Do not operate the equipment if you are uncertain about its condition.



EQUIPMENT MISUSE HAZARD. Equipment misuse can cause the equipment to rupture, malfunction or start unexpectedly and result in serious injury.



HIGH PRESSURE CONSIDERATION. High pressure can cause serious injury. Relieve all pressure before servicing. Spray from the gun, hose leaks or ruptured components can inject fluid into your body and cause extremely serious injury.



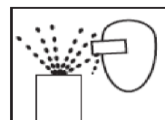
STATIC CHARGE. Fluid may develop a static charge that must be dissipated through proper grounding of the equipment, objects to be sprayed and all other electrically conductive objects in the dispensing area. Improper grounding or sparks can cause a hazardous condition and result in fire, explosion or electric shock and other serious injury.



PROP 65 WARNING. WARNING: This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.



AUTOMATIC EQUIPMENT. Automatic equipment may start suddenly without warning.



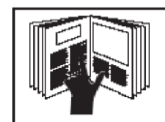
PROJECTILE HAZARD. You may be injured by venting liquids or gases that are released under pressure, or flying debris.



KNOW WHERE AND HOW TO SHUT OFF THE EQUIPMENT IN CASE OF AN EMERGENCY.



PRESSURE RELIEF PROCEDURE. Always follow the pressure relief procedure in the equipment instruction manual.



OPERATOR TRAINING. All personnel must be trained before operating finishing equipment.



PACEMAKER WARNING. You are in the presence of magnetic fields which may interfere with the operation of certain pacemakers.



KEEP EQUIPMENT GUARDS IN PLACE. Do not operate the equipment if the safety devices have been removed.



NEVER MODIFY THE EQUIPMENT. Do not modify the equipment unless the manufacturer provides written approval.



PINCH POINT HAZARD. Moving parts can crush and cut. Pinch points are any areas where there are moving parts.

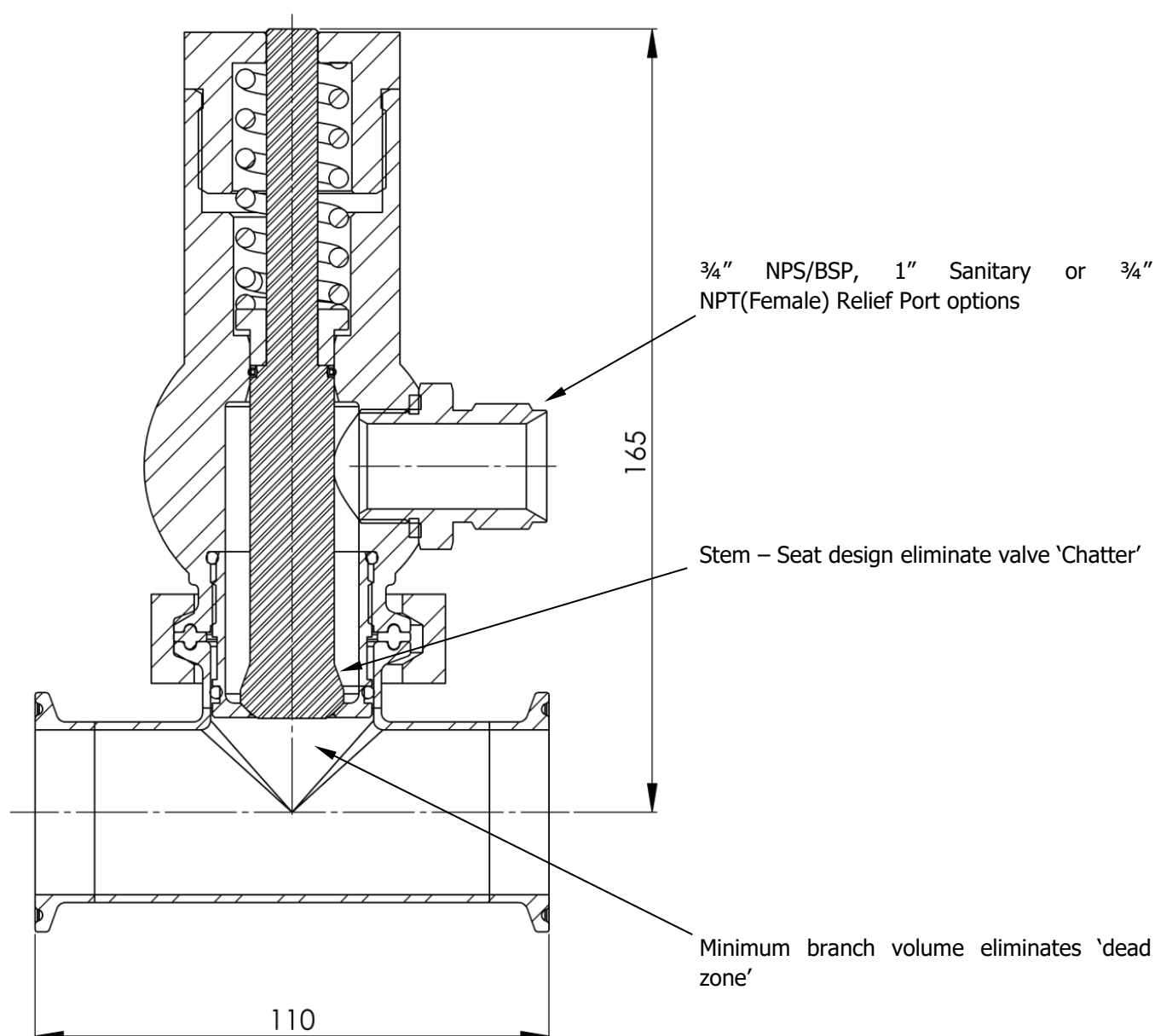
IT IS THE RESPONSIBILITY OF THE EMPLOYER TO PROVIDE THIS INFORMATION TO THE OPERATOR OF THE EQUIPMENT.

General Description

The Binks mechanical Pressure Relief Valve offers a practical solution for the prevention of Smart Pump and paint system overpressure. The mechanical relief valve can be easily installed directly on the pump outlet manifold. Any relieved paint pressure is piped back into the mix tank.

An electrical detection system is usually installed (pressure switch or pressure sensor) to detect and stop the pump when a potentially damaging high paint pressure is reached. This could be due to an inadvertent closing of an outlet ball valve, paint filter blockage or paint line restriction.

The Pressure relief valve is a purely mechanical device and intended to complement the primary electrical safety device which must be installed.



Installation

The Pressure relief valve should be directly mounted on the outlet of the pump using suitable sanitary gaskets and clamps.

The relief port should be connected to the mix tank with suitable clear hose, length as short as possible (No more 3m long). Clear hose is recommended as this will indicate the valve has operated

Smart Pump	Minimum Hose Diameter
E2-15, E2-30	13mm Nominal Bore
E2-40, E4-60	16mm Nominal Bore

As the mechanical pressure relief is intended to be used only as the secondary pressure relief device, the primary device, the electrical sensor should be set to operate at a lower pressure.

Should the mechanical valve operate then the cause of problem should first be investigated. Following satisfactory conclusion the relief valve and hose should be removed and cleaned. If no spare valve is available then a blanking plate can be temporarily put in place whilst cleaning takes place.

Mechanical Pressure Relief Valve

Part No.	Inlet / Outlet Sanitary Connection	Relief Port Connection	Cracking Pressure	Full Flow Pressure	Wetted Parts
PRV16-U-10	1"	¾" BSPP / NPS	PRV16-16 bar [232 psi]	PRV16-18 bar [261 psi]	Stainless Steel, PTFE, Fluorocarbon rubber
PRV16-U-15	1½"				
PRV16-U-20	2"				
PRV16-S-10	1"	1" Sanitary			
PRV16-S-15	1½"				
PRV16-S-20	2"				
PRV16-N-10	1"	¾" NPT (Female)			
PRV16-N-15	1½"				
PRV16-N-20	2"				
PRV22-U-10	1"	¾" BSPP / NPS	PRV22-22 bar [319 psi]	PRV22-24 bar [348 psi]	
PRV22-U-15	1½"				
PRV22-U-20	2"				
PRV22-S-10	1"	1" Sanitary			
PRV22-S-15	1½"				
PRV22-S-20	2"				
PRV22-N-10	1"	¾" NPT (Female)			
PRV22-N-15	1½"				
PRV22-N-20	2"				

Relief Port Connections	
Part number	Description
193202	¾" BSPP / NPS
193614	1" Sanitary
193736	¾" NPT (Female)

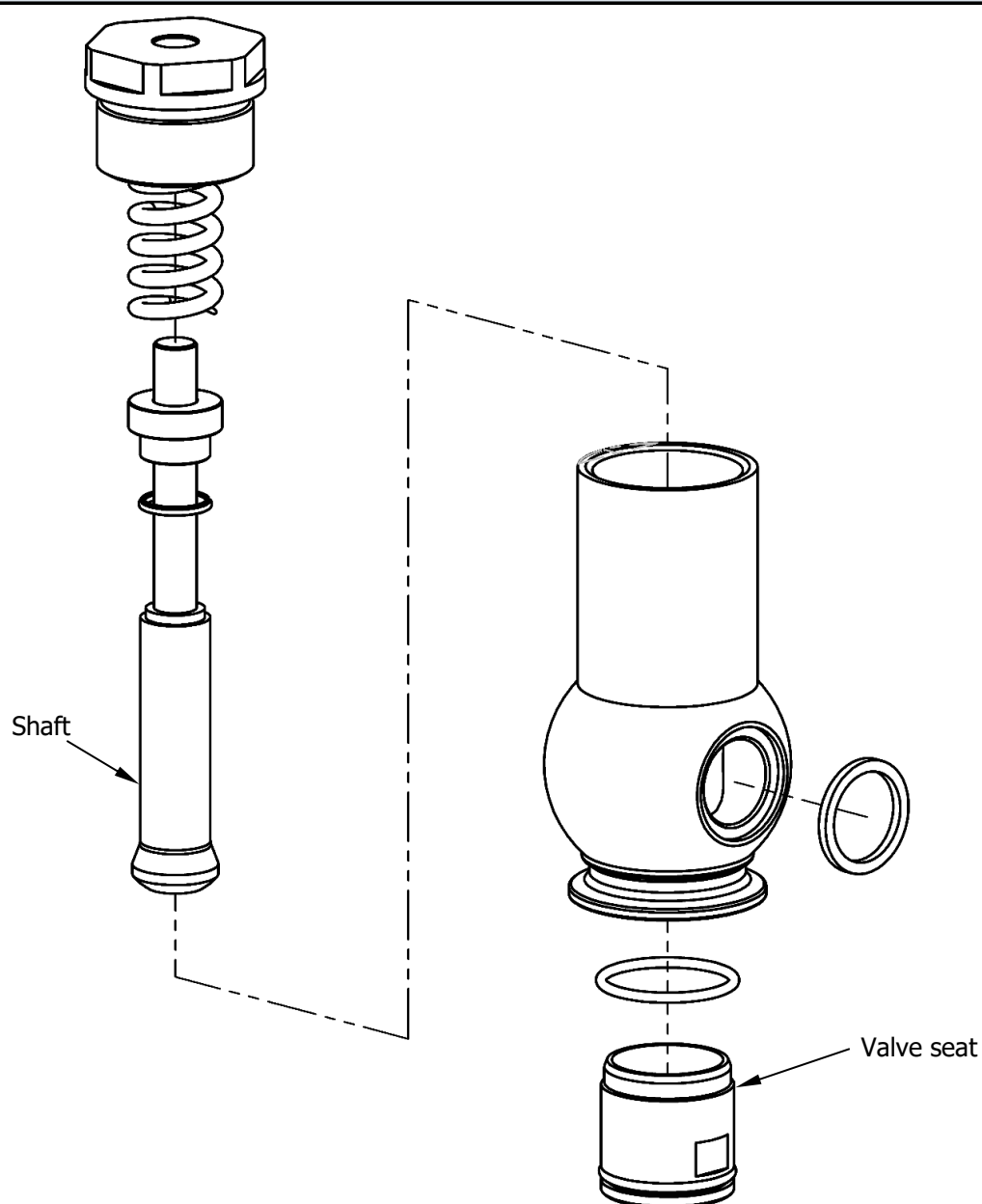
Main valve assembly

Important note

The pressure relief valve is not a servicable product, if components are damaged the VALVE must be replaced.

If valve shaft or seat is worn please check functionality of high pressure limit switch. Wear on these components signifies the pressure switch is not functioning correctly.

Exploded view of main valve assembly

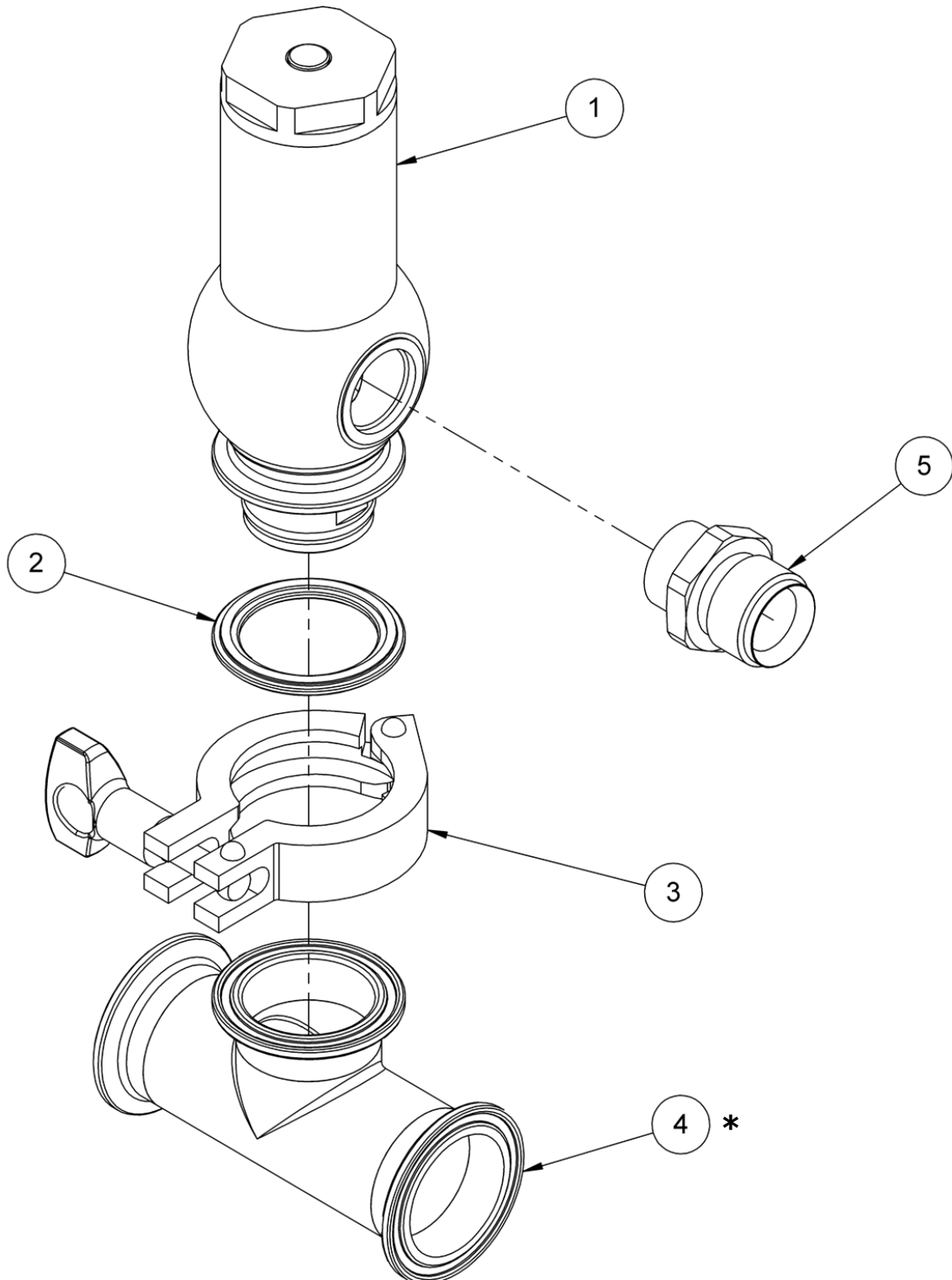


Valve Assembly - Parts List

Item	Part No.	Description	Quantity	Remarks
1	PRV16	Main valve assembly	1	PRV16-X-XX
	PRV22	Main valve assembly	1	PRV22-X-XX
2	192008	1½" Sanitary Gasket	1	(All Models)
3	192009	1½" Sanitary Clamp	1	(All Models)
4	193204	1" Special sanitary tee	1	PRVXX-X-10
	193201	1½" Special sanitary tee	1	PRVXX-X-15
	193200	2" Special sanitary tee	1	PRVXX-X-20
5	193736	¾" NPT female outlet	1	PRVXX-N-XX
	193614	1" sanitary outlet	1	PRVXX-S-XX
	193202	G¾ [¾"BSPP] / ¾" NPS male outlet	1	PRVXX-U-XX with female 60° cone

Note: 1 off Clamp and Gasket are included for assembly to the Pump Outlet Manifold

Valve Assembly



Model Shown PRV22-U-15

* - 1 off Clamp and Gasket are included for assembly to the Pump Outlet Manifold

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WARRANTY POLICY

This product is covered by Binks materials and workmanship limited warranty.

The use of any parts or accessories, from a source other than Binks, will void all warranties. Failure to reasonably follow any maintenance guidance provided, may invalidate any warranty.

For specific warranty information please contact Binks.

For technical assistance or to locate an authorised distributor, contact one of our international sales and customer support locations below.

REGION	BINKS CONTACT
Americas	Tel: 1-888-992-4657
Europe, Africa, Middle East	Tel: +44 (0)1202 571 111
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Korea	Tel: +82313663303
Japan	Tel: +81 45 785 6421
Australia	Tel: +61 (0) 2 8525 7555

WARRANTY PAGE





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