

# Honeywell

## NK300S

### BOILER FEED COMBINATION

#### SUBMITTAL SHEET

Job Name	
Engineer	
Mechanical Contractor	
Contractor's P.O. No.	
Representative	
Notes	

Model(s)			
	Qty.	Notes	
	Qty.	Notes	
	Qty.	Notes	
Approval			
Service			
Tag No.			

### APPLICATION

The Honeywell NK300S Boiler Feed Combination serves as a boiler fill valve used in closed loop heating systems. The NK300S is a (re)filling combination valve that contains an integrated pressure reducing valve, strainer, double check backflow preventer with air vent (to protect potable water supply against back flow of heating water into supply pipe), two shut-off ball valves, pressure gauge, and conveniently located test ports for easy inspections and check out.

### SPECIFICATIONS

- Model:** NK300S BOILER FEED COMBINATION
- Model Numbers:** NK300S-100 (includes sweat and threaded connections)
- Medium:** Water
- Regulator Mechanism:** Fiber-reinforced EPDM diaphragm
- Filter Mechanism:** Stainless steel fine filter mesh
- Inlet Pressure (Maximum):** 150 psi (10.3 bar)
- Inlet Pressure (Min):** 30 psi (2.0 bar)
- Outlet Pressure Range:** 10 psi - 58 psi (0.7 bar - 4.0bar)
- Outlet Pressure:** Factory set at 15 psi (1 bar)
- Pressure setting tolerance:** ± 4 psi.
- Differential:** 14.5 psi minimum (inlet to outlet)
- Fluid Temperature (Maximum):** 180°F (82°C) according ASSE 1081
- Ambient Temperature Range:** 33°F to 140°F (1°C to 60°C).
- Pressure Gauge:** 0-60 psi @ max temp 140°F (60°C)
- Connection size:** 1/2" NPT or sweat
- Connection size discharge:** 1/4" NPT
- Connection size test ports:** 1/4" NPT
- Installation position:** horizontal pipework with discharge connection directed downwards
- Max. flow rate:** 16 gpm (60 L/min) @ 22 psi (1.5 bar)
- Approvals:** ASSE 1081 Listed

### DIMENSIONS

Connection Size	R	1/2" NPT male threaded and sweat tailpieces
Weight	lbs	2.6
Dimensions	H	7.48" (190 mm)
	H1	4.40" (112mm)
	H2	4.7" (120 mm)
(Thread connection)	L	8.74" (222 mm)
(Sweat connection)	L	7.79" (198 mm)
	L1	6.3" (160 mm)
	L2	2.3" (58 mm)
	L3	1.5" (38 mm)
	D	1/4" NPT

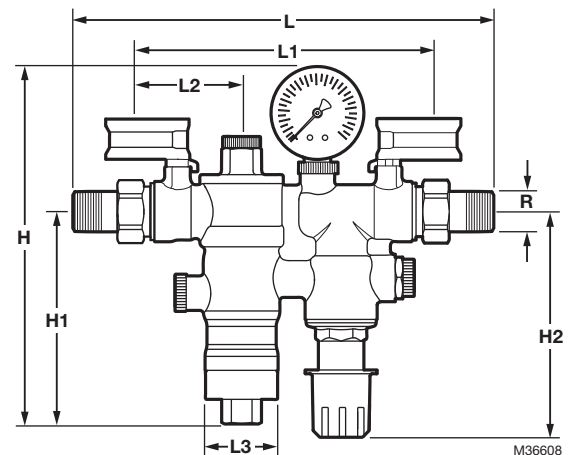


Fig. 1. Dimensions.

### MATERIALS

- Body:** Dezincification resistant brass housing
- Internal Parts:** 1/4" NPT Discharge connection, valve cartridge, valve insert and spring bonnet in high-grade synthetic material
- Seals:** NBR and EPDM
- Steel Adjustment Spring:** Steel



33-00321-01

## INSTALLATION GUIDELINES

- Install in horizontal pipework with discharge connection directed downward
- The installation may not take place in areas or ducts where poisonous gases or vapors may be present or where flooding can occur
- The installation environment should be protected against frost and ventilated well
- The installation location has to be easily accessible
- Simplified maintenance and cleaning
- Pressure gauge at the pressure reducing valve can be read off easily
- Provide a straight section of pipework of at least five times the nominal valve diameter after the pressure reducing valve
- The boiler feed combination has an integrated strainer- no separate strainer necessary
- Boiler feed combination is to be protected against malfunction and corrosion damage resulting from ingress of foreign bodies, e.g. welding beads, sealing materials, metal cutting and rust
- The national installation regulations and code must be observed during the assembly
- The drain outlet to the funnel or drain pipe shall never be plugged, obstructed, or shut off

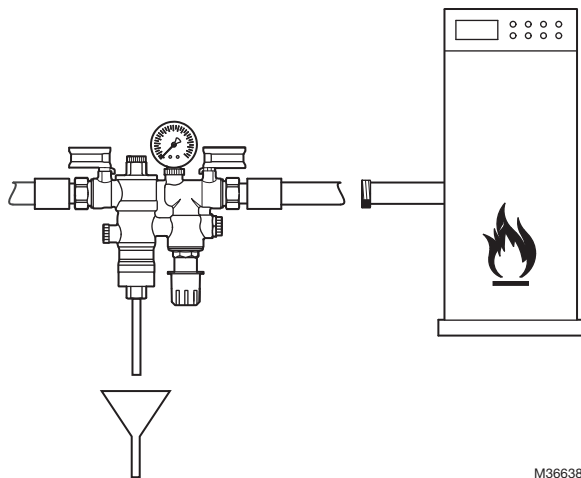
## SPECIAL FEATURES

- Low maintenance effort – cartridge insert and valve insert are completely replaceable allowing inline serviceability. Permanent connection with the drinking water supply by hose line or piping is possible
- Optimal protection of the drinking water supply system with use of DCuV.
- Pressure reducing valve with inlet pressure balancing – inlet pressure fluctuation does not influence the outlet pressure.
- Outlet pressure adjustable and directly visible on the pressure gauge.



### CAUTION

**The device shall not be installed in a concealed or inaccessible location or where the venting of water from the device during its normal functioning may be deemed objectionable.**



**Fig. 2. Typical installation.**

### Home and Building Technologies

In the U.S.:

Honeywell

1985 Douglas Drive North

Golden Valley, MN 55422

customer.honeywell.com

# Honeywell

® U.S. Registered Trademark  
© 2017 Honeywell International Inc.  
33-00321-01 M.S. 06-17  
Printed in United States