

# 8500 GAS VALVE OPPORTUNITIES



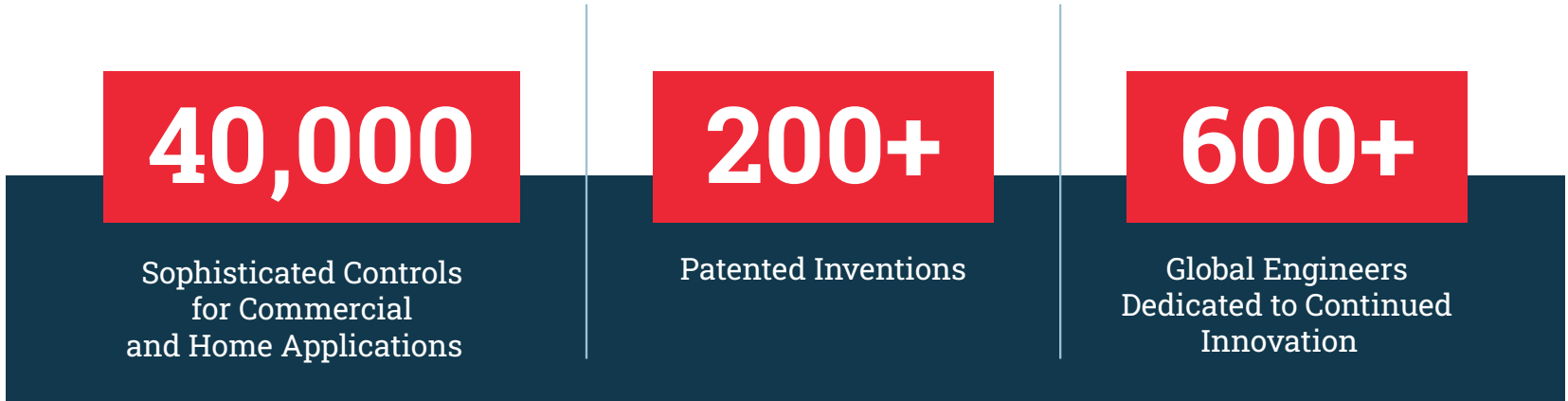
**Robertshaw**  
RANCO • PARAGON • CASTFUTURA

[www.robertshaw.com](http://www.robertshaw.com)

# ROBERTSHAW: A LEGACY OF INNOVATION

We began in 1899 when our founder, Frederick W. Robertshaw, invented the thermostat.

Today, we have the broadest portfolio of flow control solutions sought by the world’s leading manufacturers. Our global team of engineers, designers and manufacturing experts make products that are safe, innovative and reliable.



## A TRUSTED OEM PARTNER

We believe an open and collaborative relationship with our OEM partners provides greater opportunities for shared growth. We work closely with them to provide complete access to our global network of facilities and testing capabilities.

## 8500 VALUE PROPOSITIONS

8500 GAS VALVE ADVANTAGE	CUSTOMER VALVE PROPOSITION
8500 has an equal or better 1-in pressure drop capacity.	<ul style="list-style-type: none"> <li>The 8500 can handle more power.</li> </ul>
8500 has an equal or larger Range-of-Regulation (i.e. Lower low-limit and a higher upper-limit).	<ul style="list-style-type: none"> <li>The 8500 can service more applications, which reduces the number of SKUs needed.</li> </ul>
The 8500 is typically shorter from inlet-to-outlet.	<ul style="list-style-type: none"> <li>8500 may fit into tighter spaces.</li> <li>More space for accessories (i.e. adapters, elbows, etc.).</li> </ul>
Entire gas train suite available.	<ul style="list-style-type: none"> <li>Ability to purchase a system that’s designed and proven to work together.</li> <li>Ability to purchase parts pre-assembled to cut down assembly time and increase thru-put.</li> </ul>
Over 125 years designing gas control products with a fully equipped laboratory.	<ul style="list-style-type: none"> <li>Customers can rely on Robertshaw to help co-design the optimum gas train for any specific application.</li> <li>Customers can utilize Robertshaw’s lab to perform testing (bench or system).</li> </ul>

## 8500 GAS VALVE SPECIFICATIONS

## CONFIGURATIONS

	Size (Inlet x Outlet)	Outlet Side	1" Pressure Drop Capacity* BTU / HR		Ranges of Regulation* BTU HR	
			Natural Gas	LP Gas	Natural Gas	LP Gas
8500DER Direct Spark Ignition	1/2" x 1/2"	Straight	150,000	230,000	15,000 - 250,000	40,000 - 320,000
	3/4" x 3/4"	Straight	150,000	230,000	15,000 - 250,000	40,000 - 320,000
8500DERN Negative Regulation	1/2" x 1/2"	Straight	-	-	15,000 - 250,000	40,000 - 320,000
	3/4" x 3/4"	Straight	-	-	15,000 - 250,000	40,000 - 320,000
8500IPER Intermittent Pilot	1/2" x 1/2"	Straight	150,000	230,000	15,000 - 250,000	40,000 - 320,000
	3/4" x 3/4"	Straight	150,000	230,000	15,000 - 250,000	40,000 - 320,000
8600DER High-Capacity	1/2" x 1/2"	Straight	170,000	275,500	40,000 - 240,000	40,000 - 320,000
	1/2" x 3/4"	Straight	260,000	421,000	50,000 - 300,000	40,000 - 320,000
	3/4" x 3/4"	Straight	300,000	486,000	50,000 - 400,000	40,000 - 320,000

\*Specifications are subject to change.

Categories	Configurable Options
Gas Type*	Natural Gas (NG) Liquefied Petroleum Gas (LPG)
Inlet x Outlet Sizes*	1/2 x 1/2 NPT 3/4 x 3/4 NPT
Opening	Fast Slow
Voltage*	24VAC
Outlet Side*	Straight

\*Other configurations can be developed as needed.

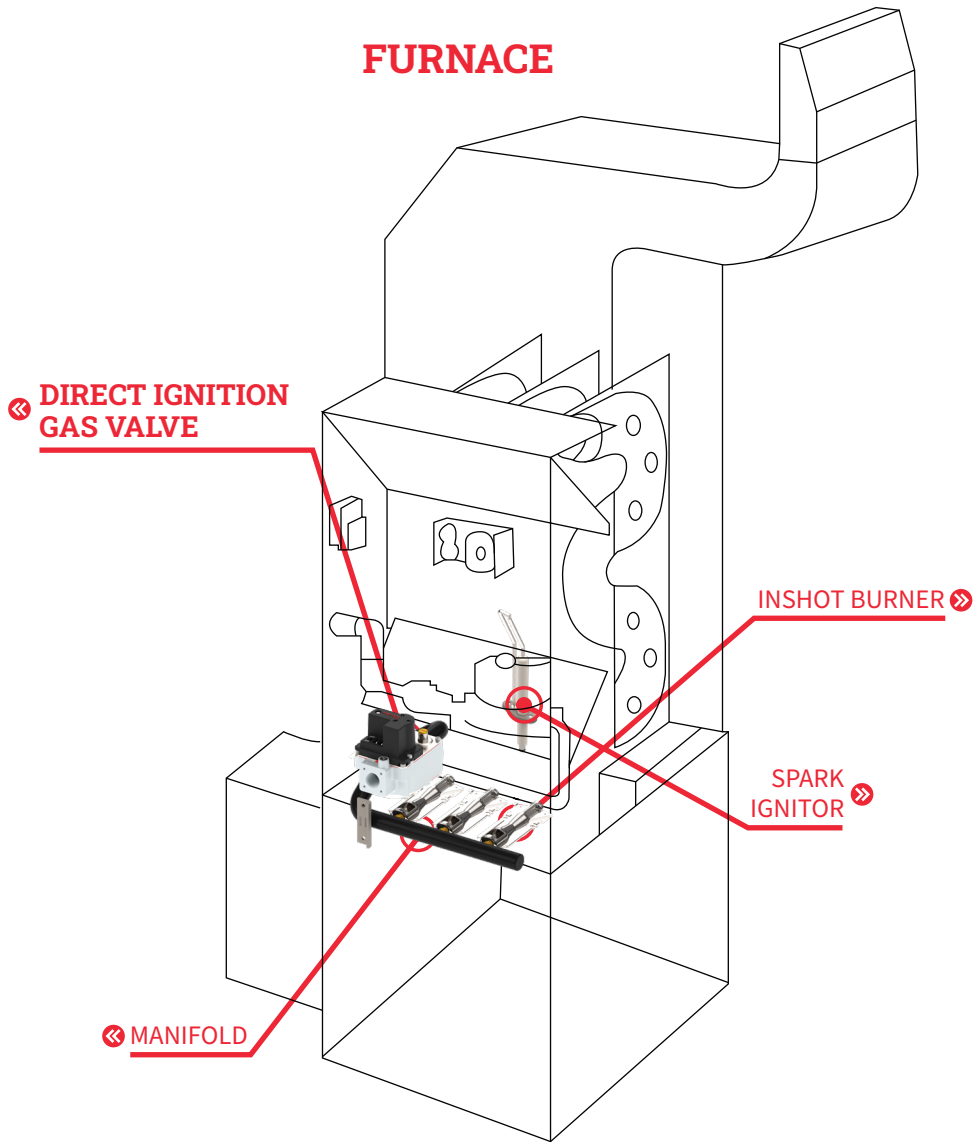
## 8500 GAS VALVE APPLICATIONS

	HVAC	Cooking	Commercial Dryers	Heaters	Fireplace	Gas-Fired Water Heaters	Pool Heaters	High Efficiency Furnaces	Condensing Boilers	Rooftop HVAC
	Furnaces and Gas Fired Boilers	Fryers, Pizza Ovens, Griddles		Mobile home, Garage, Shop, Wall, Farmhouse						
8500DER Direct Spark Ignition	X	X	X	X	X		X			
8500DERN Negative Regulation						X	X			
8500IPER Intermittent Pilot	X	X		X	X		X			
8500DER2 Two-Stage	X	X								
8500DERSM Modulating								X	X	X
8600DER High-Capacity	X			X						
8600DERN High-Capacity Negative Regulation						X	X			
8600DER2 Two-Stage High-Capacity	X	X								

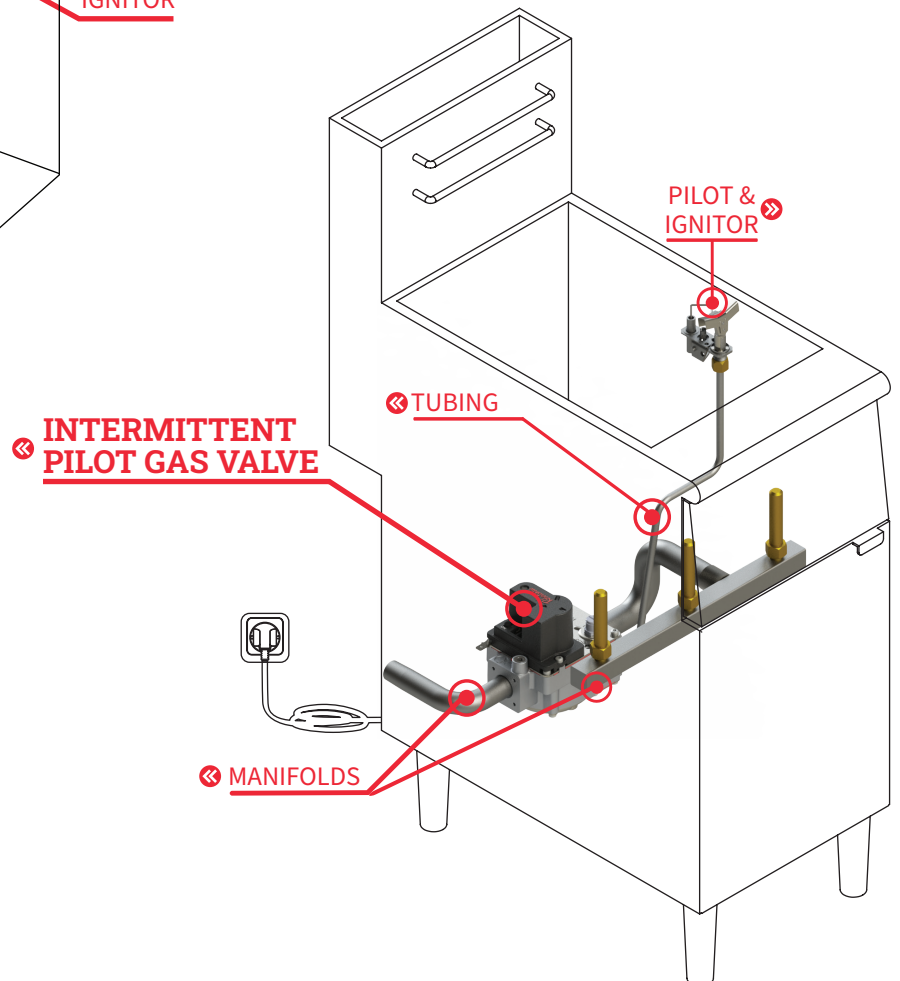


Let Robertshaw be your partner in **innovation**, creating unique products that reflect **your design** and **needs**.

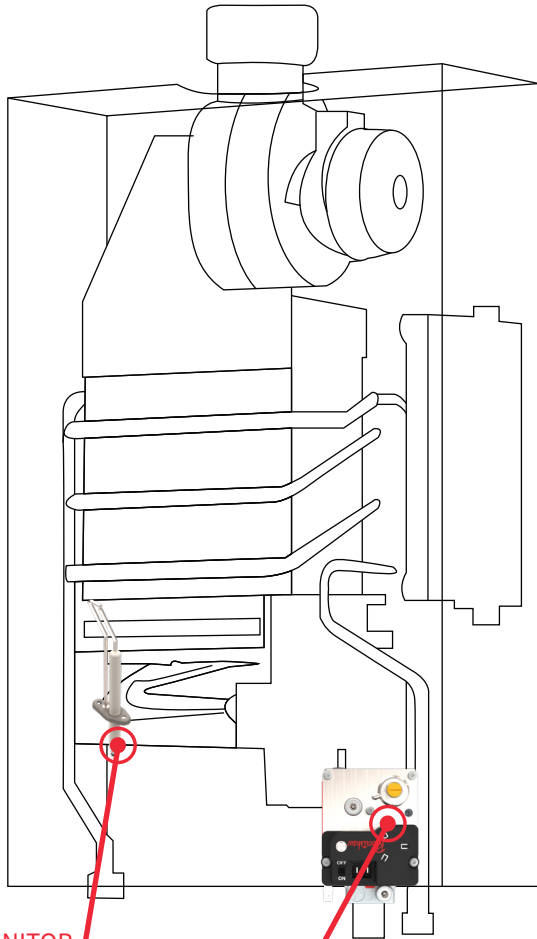
## FURNACE



## FRYER



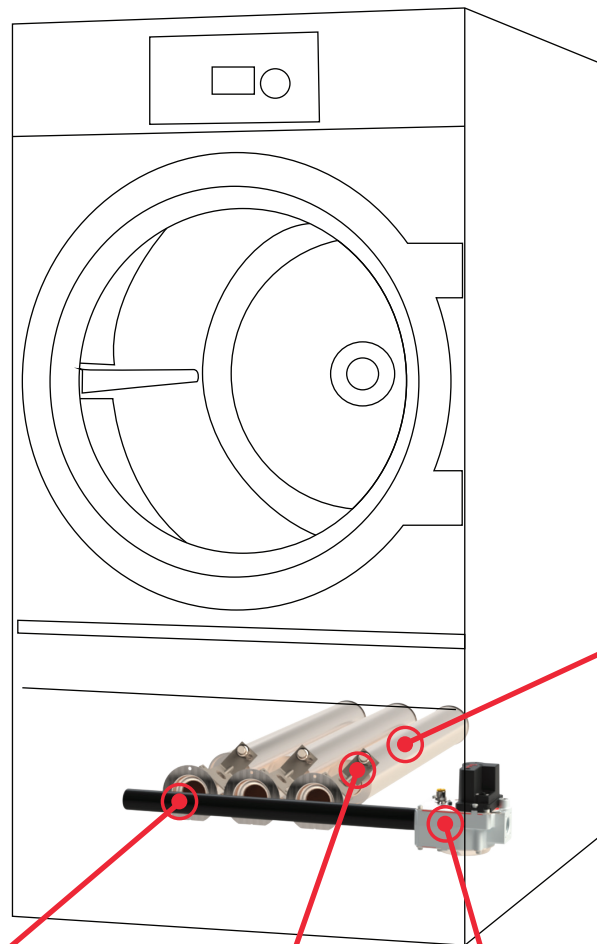
## TANKLESS WATER HEATER



« SPARK IGNITOR

« NEGATIVE  
REGULATION  
GAS VALVE

## COMMERCIAL DRYER



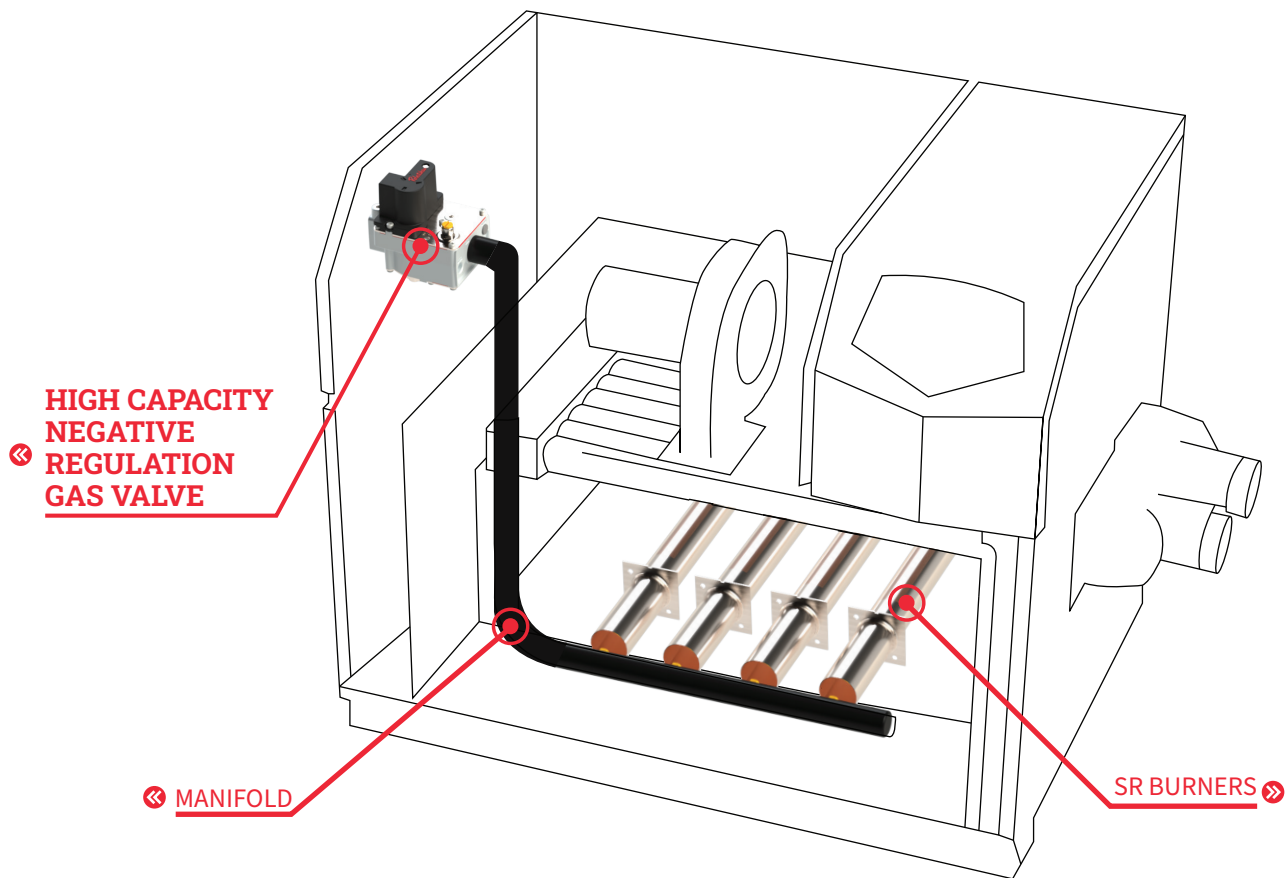
SR BURNERS »

« MANIFOLD


« SPARK  
IGNITOR

DIRECT IGNITION  
GAS VALVE »


## POOL HEATER




## 8500 GAS VALVES

Product	Features & Benefits
<p>8500 Gas Valve Series</p>  <p>Direct Ignition Gas Valve 8500DER</p>	<ul style="list-style-type: none"> <li>• Ground wire connection</li> <li>• Pressure tap for checking inlet and outlet gas pressure</li> <li>• Complies with CSA and (UL optional) requirements and carries the seal for commercial cooking</li> <li>• Instantaneous, slow opening</li> <li>• Multi-poise mounting, (any angle between 0° and 90° from upright. Note the Valve cannot be mounted upside down.)</li> <li>• Quick connect and screw terminals for convenience wiring</li> </ul> <p><a href="#">Learn More &gt;</a></p>



## MANIFOLDS

Product	Features & Benefits
<p>Manifolds</p> 	<ul style="list-style-type: none"> <li>• Highly customizable</li> <li>• 100% leak tested</li> <li>• Multiple coatings available: powder coat and aluminized</li> </ul> <p><a href="#">Learn More &gt;</a></p>

## PILOTS & IGNITORS

Product	Features & Benefits
<p>C &amp; S Series Pilots &amp; Ignitors</p> 	<ul style="list-style-type: none"> <li>• Many flame patterns available</li> <li>• Options for mounting thermocouple and/or thermopile</li> <li>• Spark electrode and flame sensor options available</li> <li>• Horizontal or vertical gas inlet</li> <li>• Several mounting bracket types available</li> <li>• Natural Gas or Liquid Propane orifices installed</li> </ul> <p><a href="#">Learn More &gt;</a></p>

## BURNERS

Product	Features & Benefits
<p>Inshot Burner</p> 	<ul style="list-style-type: none"> <li>• Rugged, compact design for versatility and long life</li> <li>• Available in 4.5" and 5.25" overall length</li> <li>• 0.5" orifice cap</li> <li>• Consistent ignition</li> <li>• Clean-burning blue flame</li> <li>• Induces high efficiency draft</li> <li>• Mounting simplicity</li> </ul> <p><a href="#">Learn More &gt;</a></p>
<p>SR Burner</p> 	<ul style="list-style-type: none"> <li>• Standard sizes offered: 40mm, 50mm, 60mm and 50mm x 70mm oval</li> <li>• Input modulation</li> <li>• Low flame profile</li> <li>• Heat-resistant stainless steel burner deck</li> <li>• Reduced CO and Nox emission</li> </ul> <p><a href="#">Learn More &gt;</a></p>

# TUBES & FITTINGS

## Product

Tubes & Fittings



## Features & Benefits

- More efficient, lower cost assembly
- Double bead and High Temperature Flare are a formed part of the tube to assure proper assembly
- No danger of cut tubes due to over-tightening or misalignment
- Reliable gas-tight connection

[Learn More >](#)