



Available in certain sizes upon request

Materials of Construction

Body: ASTM A 126 Class B

Plug: ASTM A 126 Class B

Baseplate: ASTM A 126 Class B

Baseplate Spring: Stainless Steel 17-7

Sealant Screw: Commercial Steel

Double Ball Check Valve: Commercial Steel

Gasket: Glass Filled TFE

Body Sealant Fitting: Commercial Steel (8", 10" and 12" only)

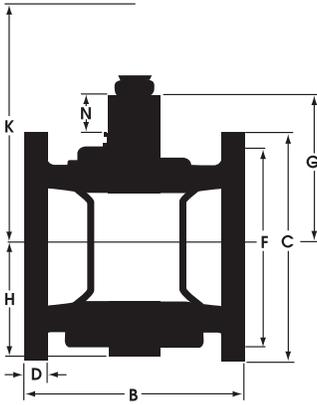


Fig. R-1431
Wrench-Operated

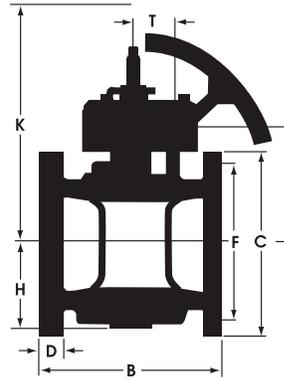
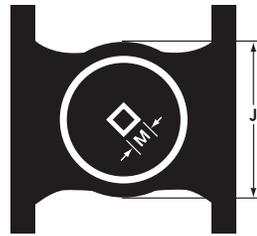
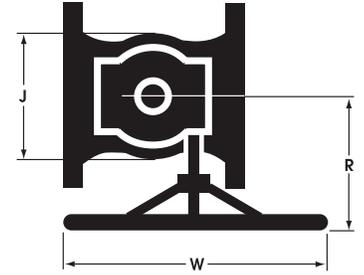


Fig. R-1431 WGA
Worm Gear-Operated



Rectangular Port, Regular Opening Valves R-1431 Dimensions

DESCRIPTION		BOTTOM ENTRY											
SIZE (Inches)		1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12
B	Face-to-Face Flanged	5 1/2	6	6 1/2	7	7 1/2	8	9	10	10 1/2	11 1/2	13	14
H	Center of Port to Bottom of Valve	1 7/8	2 5/8	2 3/8	2 5/8	3 1/8	3 1/4	4 1/4	5 1/8	5 1/8	6 1/8	7 5/8	9 3/4
J	Extreme Width of Body	2 1/2	3 7/8	3	4	4 3/4	5 1/2	6 7/8	7 1/2	7 1/2	10	12	13 1/2
L	Diameter of Sealant Stick	3/8	3/8	3/8	3/8	3/8	3/8	5/8	5/8	5/8	5/8	5/8	5/8
FLANGE DATA													
C	Diameter of Flanges	4 1/4	4 5/8	5	6	7	7 1/2	9	10	11	13 1/2	16	19
D	Thickness of Flanges	7/16	1/2	9/16	5/8	11/16	3/4	15/16	15/16	1	1 1/8	1 3/16	1 1/4
E	No. and Size of Bolts	4-1/2	4-1/2	4-1/2	4-5/8	4-5/8	4-5/8	8-5/8	8-3/4	8-3/4	8-3/4	12-7/8	12-7/8
F	Diameter of Bolt Circle	3 1/8	3 1/2	3 7/8	4 3/4	5 1/2	6	7 1/2	8 1/2	9 1/2	11 3/4	14 1/4	17
STEM DATA													
G	Center of Port to Top of Stem	3 5/8	3 7/8	3 5/8	3 7/8	5	5 1/4	6 5/8	7 1/2	7 1/2	8 1/2	10 3/4	13 1/4
K	Clearance to Remove Lubricant Screw	5 7/8	6 1/8	5 3/4	6 1/8	7 1/4	7 1/2	10 1/8	10 7/8	10 7/8	11 7/8	14 1/8	16 5/8
M	Width of Square of Stem	15/16	15/16	15/16	15/16	1 1/4	1 1/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	2
N	Height of Square of Stem	1 3/8	1 1/8	1 1/8	1 1/8	1 3/8	1 3/8	1 7/8	1 7/8	1 7/8	1 7/8	2 1/8	2 3/8
	Wrench	A	A	A	A	C	C	F	H-24	H-24	H-30	H-36	K-36
	Wt. (lb.)	6	10	10	20	28	38	66	87	96	158	248	387
WORM GEAR-OPERATED													
K	Clearance to Remove Lubricant Screw							13 7/8	13	13	14	16 1/4	18 3/4
R	Center of Port to Handwheel Face							8	11	11	11	12 1/4	12 3/4
S	Center of Port to Center of WGA Shaft							6 1/4	7	7	7 15/16	10 3/8	13 5/4
T	Center of Plug Stem to Center of WGA Shaft							2 9/16	2 9/16	2 9/16	2 9/16	3 1/8	4 7/8
W	Diameter of WGA Handwheel							12	12	12	12	16	16

Flanges are drilled to ANSI B.16.1 Class 125 Cast Iron Flange Standard. Bolt holes are drilled 1/8" larger than bolts.

The cylindrical plug of the Resun valve turns easily on a film of sealant, providing a leak-free seal. This design permits maximum port openings through the plug, including full pipe area, a distinct advantage over tapered plugs. And, since

tapered plug valves often “lock up” and require re-lubrication each time the valve is to be cycled, the Resun valve requires only an occasional charge of sealant to operate efficiently.

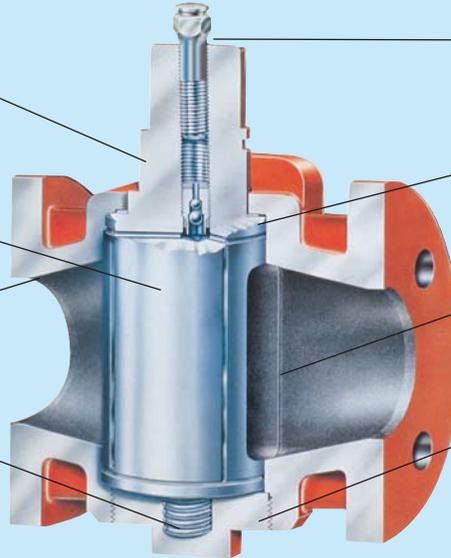
The Key to the Resun Plug Valve’s Success: Its Cylindrical Plug Design

Primary Feature—Excess sealant discharges around stem, not in the line. With no pressure build-up; no contamination of flow media or fouling of instruments.

Cylindrical Plug—fits closely, yet turns as easily as a shaft in a journal bearing.

Body is a one-piece casting.

Spring thrusts plug and TFE head gasket against head seat.



Sealant Screw with giant buttonhead fitting for injection of either bulk or stick sealant.

Head Gasket gives tight stem seal.

Seating Surfaces are not exposed to flow.

Baseplate seats tightly, is removable to permit disassembly. (Larger valves have bolted top cover plate).

Compact Construction

Resun valves’ compact construction permit installation in tight spaces. The valves install in any orientation without special tools.

Protected Surfaces

All wear surfaces are constantly supplied with fresh sealant, protecting against corrosion and abrasion. Even in the open position, seating surfaces are protected from the flow media.

Minimum Maintenance

A minimum of regular maintenance (charging with sealant) will keep a Resun plug valve in top operating condition for long periods. If necessary, the valves can be disassembled, cleaned and reassembled quickly and easily. There are no dead pockets where sealant and contaminants can accumulate or solidify.

Tight Head Seal

A specially contoured TFE head gasket, backed up by sealant and spring pressure, creates a tight head seal. The lubricity of the TFE contributes to the ease of operation.

Comparison of Resun Cylindrical Plug Features with Conventional Tapered Plugs

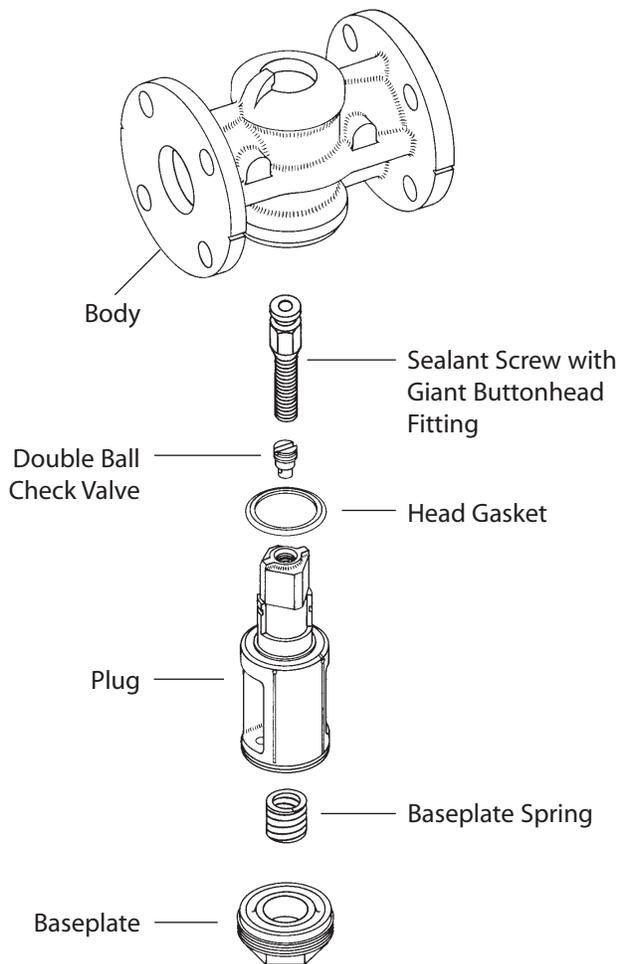
Resun Cylindrical Plug	Tapered Plug
	<p>Larger port opening, including full pipe area.</p> <p>Restricted openings; no full area.</p>
	<p>Will not bind; operates easily at all pressures and temperatures within its stated limits.</p> <p>Can bind under large pressure differential and under high or low temperature. At higher pressures, must be jacked-up to turn.</p>
	<p>Requires only occasional lubrication for easy operation.</p> <p>May require lubrication before each operation.</p>
	<p>Lower consistent torque, smaller, less expensive actuator and less maintenance.</p> <p>Inconsistent higher torque requires difficult adjustments and larger, more expensive actuator.</p>

Simplicity of Cylindrical Plug Valves

Design simplicity contributes to long, trouble-free operation without maintenance other than periodic servicing with sealant. The standard wrench-operated valve consists of only five parts plus body and baseplate.



Straightway Bottom-Entry Components



Straightway Top-Entry Components

