

Ceram™ Valves, ISO 5599/1 Sizes 1-4

Explosion proof and intrinsically safe solenoid valves



Explosion Proof Solenoid Valves for Hazardous Locations

NEMA 7C & 7D & U.L.

Class I-Groups C & D-Explosion Proof

NEMA 8C & 8D & U.L.

Class I-Groups C & D-Explosion Proof

NEMA 9E, 9F & 9G & U.L.

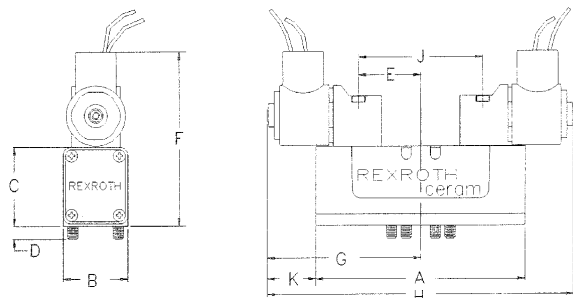
Class II-Groups E, F, G-Explosion Proof

Explosion Proof valves do not require solenoid connectors, as they come standard with 1/2" conduit housing and 18 inch wire leads.



Reference Model Code Identification page for model code information.

For online model code to part number crossover:
www.boschrexroth-us.com/ceram



Dimensions

**Operator does not overhang body assembly.

Size	A		B		C		D		E	
	IN	mm	IN	mm	IN	mm	IN	mm	IN	mm
I	5.12	130.0	1.57	40.0	1.89	48.0	.31	8.0	1.52	38.5
II	5.82	147.8	2.03	51.6	2.30	58.4	.39	10.0	1.57	40.0
III	7.54	191.5	2.71	68.9	2.59	65.8	.41	10.4	1.62	41.3
IV	8.62	218.9	3.09	78.5	2.89	73.4	.41	10.4	1.62	41.3

Size	F		G		H		J		K	
	IN	mm	IN	mm	IN	mm	IN	mm	IN	mm
I	4.17	105.9	3.75	95.3	7.50	190.5	3.03	77.0	1.19	30.2
II	4.58	116.3	3.80	96.5	7.61	193.3	3.15	80.0	.90	22.9
III	4.87	123.7	3.86	98.0	7.71	195.8	3.25	82.6	.09	2.29
IV	5.71	145.0	4.31	109.5	**	**	3.25	82.6	**	**

Intrinsically Safe Solenoid Valves for Hazardous Locations (CSA approved)

Classes I, II and III, DIV I

Groups A, B, C, D, E, F and G

For use in low voltage (24VDC) Intrinsically Safe applications.
NO OTHER VOLTAGE IS APPROVED.



Comes standard with non-lighted DIN solenoid connector.

Must be connected to an FM approved Zener Diode Barrier.*

For dimensions, reference standard solenoid models.

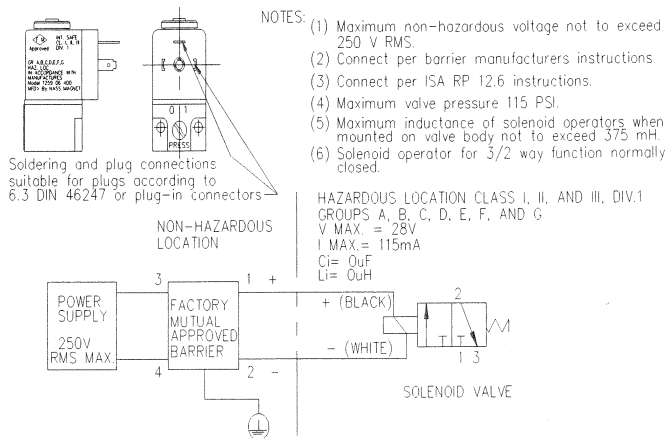
Maximum internally piloted valve pressure is 115 psi. Pressures to 150 psi can be used when external pilot is utilized and pilot pressure is limited to 115 psi.

*FM Approved Barrier Manufacturer

Stahl Incorporated—Woburn, MA

Request Rexroth Application Memo Issue#35 and ADV-300.ISSV for Intrinsically Safe Valve information and Stahl Barrier part numbers.

Installation Information:



Ordering example:

Model GT-010061-03940 = standard valve, same valve with intrinsically safe operator would be GT-010061-09040. Reference Model Code Identification page for complete listing.

For online model code to part number crossover:
www.boschrexroth-us.com/ceram

Ceram™ Valves, ISO 5599/1 Sizes 1-4

Repair kits and parts



Recommended Valve Mounting Bolt Torque Values	
Size	Max. ft.-lbs.
1	4
2	6
3 & 4	7

ATTENTION: DO NOT remove the static base. Special fixtures are required to reinstall plates to factory specifications. Roller bearings and ceramic plate stack are calibrated to obtain proper mechanical pre-loading. Therefore, field disassembly is not recommended for the plate/bearing assembly. The ceramic slide plates do not require maintenance under normal operating conditions and should not be removed from the valve - consult factory if plate maintenance is required. There are no seals for the static base/ceramic plate assembly contained in repair kits.

Rubber Seal Kits

Size	Description	Part No.	Old Part No.
Size I	Seal Kit, GT Series 2 Pos.	R432009099	P -029294-00000
Size I	Seal Kit, GT Series 3 Pos.	R432009100	P -029295-00000
*Size II	Seal Kit, GS Series	R432008631	P -026486-00002
*Size III	Seal Kit, GA/GS Series	R432015773	P -069691-00001
*Size IV	Seal Kit, GA/GS Series	R432015774	P -069692-00001

*Includes all user serviceable rubber parts normally required.

Gasket between valve and subbase

Size	Part Number
Size I	R432006602
Size II	R432008765
Size III	R432013791
Size IV	R432013877

Solenoid Kits & Coils - Sizes I - IV (Oct. 1992 & later for Sizes III & IV)

Solenoid Kits*

Description	Part Number	Old Part No.
120VAC 50/60Hz	R432015466	P -068899-00000
240VAC 50/60Hz	R432015467	P -068899-00001
12 VDC	R432015468	P -068899-00003
24 VDC	R432015469	P -068899-00004
24VAC 50/60Hz	R432015470	P -068899-00005

*Includes coil and solenoid operator, but not connector.

Operator Only

Description	Part Number	Old Part No.
For all voltages	R432008909	P -028197-00000

Coil Only

Description	Part Number	Old Part No.
110VAC/50Hz or 120VAC/60Hz	R432011985	P -048835-00001
220VAC/50Hz or 240VAC/60Hz	R432011986	P -048835-00002
12 VDC	R432011988	P -048835-00004
24 VDC	R432011989	P -048835-00005
24VAC 50/60Hz	R432011990	P -048835-00006

Miscellaneous Repair Parts & Kits

Sizes I & II

Description	Part Number	Old Part No.
Size I & II Quick Release Vlv. Kit (inc. 2 QRV assemblies)	R432008632	P -026487-00001
Size I & II Sol. Plunger Kit (inc. armature assembly)	R432015687	P -069541-00000
Solenoid Nut Kit Size I-IV§	R432008975	P -028462-00000
Size I Return Spring	R432008995	P -028645-00000
Size II Return Spring	R434000717	
Size I Sol./Air Plt. Piston Kit (inc. piston, sleeve, seals & grease)	R432008560	P -026408-00000
Size II Sol./Air Plt. Piston Kit (inc. piston, sleeve, seals & grease)	R432008561	P -026409-00000
Size I Mntg. Bolt/Body Screw Kit-GT	R432002387	
Size I Mntg. Bolt/Body Screw Kit-GS	R432008784	P -027276-00000
Size II Mntg. Bolt & Body Screw Kit	R432008785	P -027277-00000
Size I & II 10-120 psi Adj. Knob Assy. Sandwich Reg.(fits R432... regulators only)	R432010973	P -031282-00000
Size I & II Seal Rep. Kit for Sand. Reg.(fits all old style sgl. & dbl.)	R432009198	P -029922-00000
Size I & II Seal Rep. Kit for Sand. Reg.(fits all new style sgl. & dbl.)	R432009199	P -029923-00000

Sizes III & IV

Description	Part Number	Old Part No.
Size III & IV Quick Release Vlv.Kit (QRV assemblies for any valve)	R432008681	P -026684-00002
Size III & IV Sol. Plunger Kit (inc. armature assembly)§	R432015687	P -069541-00000
Size III Return Spring Kit	R432008887	P -028037-00000
Size IV Return Spring Kit	R432008888	P -028038-00000
Size III Sol./Air Plt. Piston Kit (inc. piston,seals,end cvr. gskt.,grease)	R432008658	P -026635-00000
Size IV Sol./Air Plt. Piston Kit (inc. piston,seals,end cvr. gskt.,grease)	R432008889	P -028039-00000
Size III Seal Rep. Kit for Sand. Reg.(fits all new style sgl. & dbl.)	R432009205	P -029951-00000
Size III Mntg. Bolt/Body Screw Kit	R432008799	P -027412-00000
Size IV Mntg. Bolt/Body Screw Kit	R432008800	P -027413-00000
Explosion Proof Solenoid Kits & Coils Sizes I thru IV		
Solenoid Kit - 120VAC 50/60Hz	R432008525	P -026293-00000
Solenoid Kit - 240VAC 50/60Hz	R432008527	P -026293-00002
Solenoid Kit - 24 VDC	R432008526	P -026293-00001
Coil only - 120VAC 50/60Hz	R432013760	P -067370-00000
Coil only - 240VAC 50/60Hz	R432013761	P -067371-00000
Coil only - 24 VDC	R432013763	P -067374-00000

§October 1992 and later.

